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Public Notices (Acceptances, Descriptions, Grants, and Variations etc.)

This part of the *Plant Varieties Journal* provides public notices on Acceptances, Variety Descriptions, Grants and Variations etc. The Part 2 Public Notices pages of *Plant Varieties Journal* (Vol. 32 Issue 4) are listed below:

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ACCEPTANCE:

The following varieties are under provisional protection from the date of acceptance:

Lactuca sativa L.

LETTUCE

‘Wildebeast’

Application No: 2019/186 Accepted: 01 Oct 2019

Applicant: **Enza Zaden Beheer B.V.**

Agent: **Spruson & Ferguson**, Brisbane, QLD.

Saccharum hybrid

SUGARCANE

‘SRA19’

Application No: 2019/181 Accepted: 03 Oct 2019

Applicant: **Sugar Research Australia**, Indooroopilly, QLD.

Salvia hybrid

SAGE

‘HeatwaveInferno’

Application No: 2019/030 Accepted: 03 Oct 2019

Applicant: **Plant Growers Australia Pty Ltd.**

Agent: **Plants Management Australia Pty Ltd**, Dodges Ferry, TAS.

Cannabis sativa

INDUSTRIAL HEMP

‘ECO-Excalibur’

Application No: 2019/196 Accepted: 03 Oct 2019

Applicant: **Ecofibre Limited**, Virginia, QLD.

Saccharum hybrid

SUGARCANE

‘SRA22’

Application No: 2019/182 Accepted: 03 Oct 2019

Applicant: **Sugar Research Australia**, Indooroopilly, QLD.

Saccharum hybrid

SUGARCANE

‘SRA20’

Application No: 2019/180 Accepted: 03 Oct 2019

Applicant: **Sugar Research Australia**, Indooroopilly, QLD.

Saccharum hybrid

SUGARCANE

‘QN08-1161’

Application No: 2019/179 Accepted: 03 Oct 2019

Applicant: **Sugar Research Australia**, Indooroopilly, QLD.

Saccharum hybrid

SUGARCANE

‘QN08-2274’

Application No: 2019/178 Accepted: 03 Oct 2019

Applicant: **Sugar Research Australia**, Indooroopilly, QLD.

Salvia hybrid

SAGE

‘HeatwaveFlash’

Application No: 2019/031 Accepted: 03 Oct 2019

Applicant: **Plant Growers Australia Pty Ltd.**

Agent: **Plants Management Australia Pty Ltd**, Dodges Ferry, TAS.

Saccharum hybrid

SUGARCANE

‘SRA25’

Application No: 2019/183 Accepted: 03 Oct 2019

Applicant: **Sugar Research Australia**, Indooroopilly, QLD.

Saccharum hybrid

SUGARCANE

‘SRA26’

Application No: 2019/185 Accepted: 04 Oct 2019

Applicant: **Sugar Research Australia**, Indooroopilly, QLD.

Saccharum hybrid

SUGARCANE

‘QS00-256’

Application No: 2019/204 Accepted: 04 Oct 2019

Applicant: **Sugar Research Australia**, Indooroopilly, QLD.

Saccharum hybrid

SUGARCANE

‘SRAW18’

Application No: 2019/195 Accepted: 04 Oct 2019

Applicant: **Sugar Research Australia; Wilmar Sugar Pty Ltd**, Indooroopilly, QLD.

Saccharum hybrid

SUGARCANE

‘WSRA24’

Application No: 2019/193 Accepted: 04 Oct 2019

Applicant: **Sugar Research Australia; Wilmar Sugar Pty Ltd**, Indooroopilly, QLD.

Saccharum hybrid

SUGARCANE

‘SRA21’

Application No: 2019/184 Accepted: 04 Oct 2019

Applicant: **Sugar Research Australia**, Indooroopilly, QLD.

Saccharum hybrid

SUGARCANE

‘WSRA17’

Application No: 2019/194 Accepted: 08 Oct 2019

Applicant: **Sugar Research Australia; Wilmar Sugar Pty Ltd**, Indooroopilly, QLD.

Scaevola aemula

FANFLOWER

‘Bonsca 1419’

Application No: 2019/172 Accepted: 10 Oct 2019

Applicant: **Bonza Botanicals Pty Ltd**.

Agent: **Oasis Horticulture Pty Ltd**, Yellow Rock, NSW.

Scaevola aemula

FANFLOWER

‘Bonsca 1430’

Application No: 2019/173 Accepted: 10 Oct 2019

Applicant: **Bonza Botanicals Pty Ltd**.

Agent: **Oasis Horticulture Pty Ltd**, Yellow Rock, NSW.

Scaevola aemula

FANFLOWER

‘Bonsca 1433’

Application No: 2019/174 Accepted: 10 Oct 2019

Applicant: **Bonza Botanicals Pty Ltd**.

Agent: **Oasis Horticulture Pty Ltd**, Yellow Rock, NSW.

Pericallis x hybrida

CINERARIA

‘Sunseneslisbu’

Application No: 2019/168 Accepted: 10 Oct 2019

Applicant: **Suntory Flowers Limited.**

Agent: **Oasis Horticulture Pty Ltd**, Yellow Rock, NSW.

Pericallis x hybrida

CINERARIA

‘Sunseneslipi’

Application No: 2019/170 Accepted: 10 Oct 2019

Applicant: **Suntory Flowers Limited.**

Agent: **Oasis Horticulture Pty Ltd**, Yellow Rock, NSW.

Pericallis x hybrida

CINERARIA

‘Sunseneslilav’

Application No: 2019/171 Accepted: 10 Oct 2019

Applicant: **Suntory Flowers Limited.**

Agent: **Oasis Horticulture Pty Ltd**, Yellow Rock, NSW.

Mandevilla hybrid

MANDEVILLA

‘Sunpatri’

Application No: 2019/169 Accepted: 10 Oct 2019

Applicant: **Suntory Flowers Limited.**

Agent: **Oasis Horticulture Pty Ltd**, Yellow Rock, NSW.

Lomandra confertifolia

MATT RUSH

‘Fibre Optic’

Application No: 2019/205 Accepted: 17 Oct 2019

Applicant: **Evan Clucas; Leanne Weston**, Wandin North, VIC.

Dracaena fragrans

‘Dradorco’

Application No: 2019/177 Accepted: 22 Oct 2019

Applicant: **Dragontree Beheer B.V.**

Agent: **Davies Collison Cave Pty. Ltd.**, Wellington, NZ.

Convolvulus sabatius

MOROCCAN GLORY BIND, MOROCCAN GLORY VINE

‘Arcticmoon’

Application No: 2019/159 Accepted: 22 Oct 2019

Applicant: **Plant Growers Australia Pty Ltd.**

Agent: **Plants Management Australia Pty Ltd**, Dodges Ferry, TAS.

Lupinus angustifolius

NARROW-LEAFED LUPIN

‘Coyote’

Application No: 2019/144 Accepted: 24 Oct 2019

Applicant: **Western Australian Agriculture Authority; Grains Research and Development Corporation.**

Agent: **Australian Grain Technologies Pty Ltd**, Roseworthy, SA.

Lavandula pedunculata

SPANISH LAVENDER

‘PurpleReign’

Application No: 2019/201 Accepted: 30 Oct 2019

Applicant: **Plant Growers Australia.**

Agent: **Plants Management Australia Pty. Ltd.**, Dodges Ferry, TAS.

Cicer arietinum

CHICKPEA

‘PBA Royal’

Application No: 2019/206 Accepted: 30 Oct 2019

Applicant: **Agriculture Victoria Services Pty Ltd, Grains Research and Development Corporation**, Bundoora, VIC.

Solanum lycopersicum

TOMATO

‘LUVION’

Application No: 2019/014 Accepted: 30 Oct 2019

Applicant: **Nunhems B.V.**

Agent: **Shelston IP Pty Ltd**, Sydney, NSW.

Hordeum vulgare

BARLEY

‘HarpoonHV’

Application No: 2019/218 Accepted: 31 Oct 2019

Applicant: **Sheldon Agri Pty Ltd**, Tooma, NSW.

Prunus dulcis

ALMOND

‘Buralmondthree’

Application No: 2019/226 Accepted: 01 Nov 2019

Applicant: **The Burchell Nursery Inc.**

Agent: **Eurofins Agrosience Services**, Shepparton, VIC.

Solanum tuberosum

POTATO

‘RANOMI’

Application No: 2019/211 Accepted: 04 Nov 2019

Applicant: **Kweek- en Researchbedrijf Agrico B.V.**

Agent: **Agrico Australia**, Ridgley, TAS.

Solanum tuberosum

POTATO

‘Sorrento’

Application No: 2019/209 Accepted: 04 Nov 2019

Applicant: **James Hutton Institute.**

Agent: **Mitolo Developments Pty Ltd**, Virginia, SA.

Acmena smithii

LILLY PILLY

‘Honey Punch’

Application No: 2019/230 Accepted: 04 Nov 2019

Applicant: **Sunplant Breeders Pty Ltd.**

Agent: **John Tilbrook**, Joondalup Dc, WA.

Acmena smithii

LILLY PILLY

‘Long Island’

Application No: 2019/231 Accepted: 04 Nov 2019

Applicant: **Sunplant Breeders Pty Ltd.**

Agent: **John Tilbrook**, Joondalup Dc, WA.

Rosa hybrid

ROSE

‘AYA NO5’

Application No: 2019/220 Accepted: 04 Nov 2019

Applicant: **Meilland International S.A.**

Agent: **Kim Syrus**, Myponga, SA.

Solanum tuberosum

TAMARILLO, TREE TOMATO

‘Prince of Orange’

Application No: 2019/192 Accepted: 07 Nov 2019

Applicant: **IPR B.V.**

Agent: **Forth Farm Investments Pty Ltd**, Forth, TAS.

Dianthus caryophyllus

‘WP15 MOW08’ syn Pinball Wizard

Application No: 2018/306 Accepted: 07 Nov 2019

Applicant: **Plant Genetics International.**

Agent: **Plants Management Australia Pty. Ltd.**, Dodges Ferry, TAS.

Hordeum vulgare

BARLEY

‘Maximus’ syn IGB1705T

Application No: 2019/213 Accepted: 08 Nov 2019
Applicant: **InterGrain Pty Ltd**, Bibra Lake, WA.

Acmena smithii

LILLY PILLY

‘Slim Jim’

Application No: 2019/212 Accepted: 12 Nov 2019
Applicant: **REH Superannuation Fund Pty Ltd**.
Agent: **Touchof Class Plants Pty Ltd**, Tynong, VIC.

Syzygium australe

LILLY PILLY

‘MALOF005’ syn Silver Streaker

Application No: 2019/210 Accepted: 12 Nov 2019
Applicant: **Malof Trading Pty Ltd**, Oakville, NSW.

Tetradlea thymifolia

BLACK EYED SUSAN

‘Fairy Bells Snow’

Application No: 2019/149 Accepted: 15 Nov 2019
Applicant: **Plant Growers Australia Pty Ltd**.
Agent: **Plants Management Australia Pty Ltd**, Dodges Ferry, TAS.

Prunus salicina

JAPANESE PLUM

‘SUPLUMFIFTYFIVE’ syn SUPLUM55

Application No: 2019/214 Accepted: 15 Nov 2019
Applicant: **Sun World International LLC**.
Agent: **Corrs Chambers Westgarth Lawyers**, Melbourne, VIC.

Armeria pseudarmeria

THRIFT

‘Dream Clouds’

Application No: 2019/207 Accepted: 15 Nov 2019

Applicant: **Plant Growers Australia.**

Agent: **Plants Management Australia Pty. Ltd.**, Dodges Ferry, TAS.

Lens culinaris

LENTIL

‘GIA Leader’ syn GIA Leader-I Leader

Application No: 2019/222 Accepted: 18 Nov 2019

Applicant: **Materne Family Trust**, Quantong, VIC.

Pisum sativum

FIELD PEA

‘GIA1702P’ syn GIA1702P-I 1702P

Application No: 2019/225 Accepted: 18 Nov 2019

Applicant: **Materne Family Trust**, Quantong, VIC.

Pisum sativum

FIELD PEA

‘GIA1701P’ syn GIA1701P-I 1701P

Application No: 2019/223 Accepted: 18 Nov 2019

Applicant: **Materne Family Trust**, Quantong, VIC.

Lens culinaris

LENTIL

‘GIA Sire’ syn GIA Sire-IC Sire

Application No: 2019/224 Accepted: 18 Nov 2019

Applicant: **Materne Family Trust**, Quantong, VIC.

Asterolasia hybrid

‘Lemon Essence’

Application No: 2019/188 Accepted: 19 Nov 2019

Applicant: **Australian National Botanic Gardens**, Wright, ACT.

Citrus hybrid

MANDARIN

‘ASUKI’

Application No: 2019/227 Accepted: 21 Nov 2019

Applicant: **National Agriculture and Food Research Organization.**

Agent: **IP Solved (ANZ) Pty Ltd**, Royal Exchange, NSW.

Citrus hybrid

MANDARIN

‘ASUMI’

Application No: 2019/228 Accepted: 21 Nov 2019

Applicant: **National Agriculture and Food Research Organization.**

Agent: **IP Solved (ANZ) Pty Ltd**, Royal Exchange, NSW.

Allium cepa

ONION

‘SK-20’

Application No: 2019/219 Accepted: 21 Nov 2019

Applicant: **House Foods Group Inc..**

Agent: **FB Rice**, Sydney, NSW.

Avena sativa

OATS

‘Bison’

Application No: 2018/340 Accepted: 25 Nov 2019

Applicant: **Nordsaat Saatzucht GmbH.**

Agent: **Australian Grain and Forage Seeds P/L**, Smeaton, VIC.

Solanum tuberosum

POTATO

‘ETANA’

Application No: 2019/251 Accepted: 26 Nov 2019

Applicant: **Bohm-Nordkartoffel Agrarproduktion GmbH & Co. OHG.**

Agent: **Dowling Agritech**, Mt Gambier East, SA.

Solanum tuberosum

POTATO

‘CORINNA’

Application No: 2019/253 Accepted: 26 Nov 2019

Applicant: **Bohm-Nordkartoffel Agrarproduktion GmbH & Co. OHG.**

Agent: **Dowling Agritech**, Mt Gambier East, SA.

Solanum tuberosum

POTATO

‘JUVENTA’

Application No: 2019/252 Accepted: 26 Nov 2019

Applicant: **Bohm-Nordkartoffel Agrarproduktion GmbH & Co. OHG.**

Agent: **Dowling Agritech**, Mt Gambier East, SA.

Solanum lycopersicum

TOMATO

‘DUELLE’

Application No: 2019/208 Accepted: 26 Nov 2019

Applicant: **SYNGENTA PARTICIPATIONS A.G.**

Agent: **Syngenta Australia Pty. Ltd.**, Somersby, NSW.

Solanum tuberosum

POTATO

‘Crop78’

Application No: 2019/229 Accepted: 26 Nov 2019

Applicant: **The New Zealand Institute for Plant and Food Research Limited**, Auckland, NZ.

Vaccinium corymbosum

BLUEBERRY

‘Plablue 1542’

Application No: 2019/236 Accepted: 02 Dec 2019

Applicant: **Plantas de Navarra, S.A. (PLANASA) Sociedad Unipersonal.**

Agent: **Perfection Fresh Australia Pty Ltd**, Homebush, NSW.

Solanum tuberosum

POTATO

‘NOHA’

Application No: 2019/221 Accepted: 02 Dec 2019

Applicant: **GERMICOPA BREEDING.**

Agent: **Elders**, Melbourne, VIC.

Vaccinium corymbosum

BLUEBERRY

‘Plablue 1545’

Application No: 2019/237 Accepted: 02 Dec 2019

Applicant: **Plantas de Navarra, S.A. (PLANASA) Sociedad Unipersonal.**

Agent: **Perfection Fresh Australia Pty Ltd**, Homebush, NSW.

Vaccinium corymbosum

BLUEBERRY

‘Plablue 1502’

Application No: 2019/238 Accepted: 02 Dec 2019

Applicant: **Plantas de Navarra, S.A. (PLANASA) Sociedad Unipersonal.**

Agent: **Perfection Fresh Australia Pty Ltd**, Homebush, NSW.

Lavandula hybrid

LAVENDER

‘LAV1475’

Application No: 2019/244 Accepted: 02 Dec 2019

Applicant: **The Paradise Seed Company Pty Limited**, Kariong, NSW.

Lavandula hybrid

LAVENDER

‘LAV1701’

Application No: 2019/245 Accepted: 02 Dec 2019

Applicant: **The Paradise Seed Company Pty Limited**, Kariong, NSW.

Rosa hybrid

‘KORjupvio’

Application No: 2019/246 Accepted: 03 Dec 2019

Applicant: **W. Kordes' Sohne Rosenschulen GmbH & Co KG**.

Agent: **Midwood Roses Pty Ltd**, Portland, VIC.

Rosa hybrid

‘KORnagelio’

Application No: 2019/247 Accepted: 03 Dec 2019

Applicant: **W. Kordes' Sohne Rosenschulen GmbH & Co KG**.

Agent: **Midwood Roses Pty Ltd**, Portland, VIC.

Avena sativa

OATS

‘Kingbale’

Application No: 2019/160 Accepted: 03 Dec 2019

Applicant: **Michael Materne as Trustee for the Materne Family Trust**, Quontong, VIC.

Rosa hybrid

ROSE

‘KORtangwal’

Application No: 2019/248 Accepted: 03 Dec 2019

Applicant: **W. Kordes' Sohne Rosenschulen GmbH & Co KG**.

Agent: **Midwood Roses Pty Ltd**, Portland, VIC.

Rosa hybrid

‘KORpucoblu’

Application No: 2019/250 Accepted: 04 Dec 2019

Applicant: **W. Kordes' Sohne Rosenschulen GmbH & Co KG**.

Agent: **Midwood Roses Pty Ltd**, Portland, VIC.

Rosa hybrid

‘KORgehaque’

Application No: 2019/249 Accepted: 04 Dec 2019

Applicant: **W. Kordes' Sohne Rosenschulen GmbH & Co KG**.

Agent: **Midwood Roses Pty Ltd**, Portland, VIC.

Rubus idaeus

RASPBERRY

‘Plapink 0740’

Application No: 2019/240 Accepted: 05 Dec 2019

Applicant: **Plantas de Navarra, S.A. (PLANASA) Sociedad Unipersonal**.

Agent: **Perfection Fresh Australia Pty Ltd**, Homebush, NSW.

Rubus idaeus

RASPBERRY

‘Plapink 1004’

Application No: 2019/239 Accepted: 05 Dec 2019

Applicant: **Plantas de Navarra, S.A. (PLANASA) Sociedad Unipersonal**.

Agent: **Perfection Fresh Australia Pty Ltd**, Homebush, NSW.

Rubus subg. Rubus

RASPBERRY

‘Plablack 15157’

Application No: 2019/235 Accepted: 05 Dec 2019

Applicant: **Plantas de Navarra, S.A. (PLANASA) Sociedad Unipersonal**.

Agent: **Perfection Fresh Australia Pty Ltd**, Homebush, NSW.

Vaccinium corymbosum

BLUEBERRY

‘Plablue 15122’

Application No: 2019/243 Accepted: 06 Dec 2019

Applicant: **Plantas de Navarra, S.A. (PLANASA) Sociedad Unipersonal**.

Agent: **Perfection Fresh Australia Pty Ltd**, Homebush, NSW.

Vaccinium corymbosum

BLUEBERRY

‘Plablue 1549’

Application No: 2019/242 Accepted: 06 Dec 2019

Applicant: **Plantas de Navarra, S.A. (PLANASA) Sociedad Unipersonal.**

Agent: **Perfection Fresh Australia Pty Ltd**, Homebush, NSW.

Vaccinium corymbosum

BLUEBERRY

‘Plablue 1525’

Application No: 2019/241 Accepted: 06 Dec 2019

Applicant: **Plantas de Navarra, S.A. (PLANASA) Sociedad Unipersonal.**

Agent: **Perfection Fresh Australia Pty Ltd**, Homebush, NSW.

Sedum hybrid

SEDUM

‘Firecracker’

Application No: 2019/047 Accepted: 10 Dec 2019

Applicant: **Christopher M. Hansen.**

Agent: **Sprint Horticulture Pty Ltd**, Erina, NSW.

Pericallis x hybrida

CINERARIA

‘Sunsenegoroku’

Application No: 2019/232 Accepted: 10 Dec 2019

Applicant: **Suntory Flowers Limited.**

Agent: **Oasis Horticulture Pty Ltd**, Yellow Rock, NSW.

Pericallis x hybrida

CINERARIA

‘Sunsenegonana’

Application No: 2019/233 Accepted: 10 Dec 2019

Applicant: **Suntory Flowers Limited.**

Agent: **Oasis Horticulture Pty Ltd**, Yellow Rock, NSW.

Calothamnus quadrifidus

ONE SIDED BOTTLEBRUSH

‘Flat01’

Application No: 2019/027 Accepted: 11 Dec 2019

Applicant: **David Lullfitz**, Bullsbrook, WA.

Prunus avium

SWEET CHERRY

‘Yamagata C12 Go’

Application No: 2019/216 Accepted: 12 Dec 2019

Applicant: **Yamagata Prefecture**.

Agent: **IP Solved (ANZ) Pty Ltd**, Royal Exchange, NSW.

Solanum tuberosum

POTATO

‘CAYENNE’

Application No: 2019/215 Accepted: 16 Dec 2019

Applicant: **Cooperatie Agrico U.A.**

Agent: **Agrico Australia**, Ridgley, TAS.

Variety Descriptions

<u>Common (Genus Species)</u>	<u>Variety</u>	<u>Title Holder</u>
<u>Kangaroo Paw (Anigozanthos hybrid)</u>	Kings Park Royale	Botanic Gardens and Parks Authority
<u>Peanut (Arachis hypogaea)</u>	ALLOWAY	Peanut Company of Australia Ltd; Grains Research and Development Corporation; The State of Queensland through the Department of Agriculture and Fisheries
<u>Bougainvillea (Bougainvillea spectabilis x Bougainvillea glabra)</u>	IREBABS 3	Janet and Peter Iredell
<u>Desert Lime (Citrus glauca)</u>	Standout	Canebridge Pty Ltd
<u>(Duboisia hybrid)</u>	A6	G Crumpton & Sons & Co Pty Ltd
<u>(Duboisia hybrid)</u>	11-13-055	G Crumpton & Sons & Co Pty Ltd
<u>(Duboisia hybrid)</u>	H22	G Crumpton & Sons & Co Pty Ltd
<u>(Duboisia hybrid)</u>	U3	G Crumpton & Sons & Co Pty Ltd
<u>(Duboisia hybrid)</u>	11-15-086	G Crumpton & Sons & Co Pty Ltd
<u>Fungal Endophyte (Epichloe festucae var. lolii)</u>	CM142	Cropmark Seeds Australia Pty Ltd
<u>Strawberry (Fragaria x ananassa)</u>	DrisStrawFiftyNine	Driscoll's, Inc.
<u>Strawberry (Fragaria X ananassa)</u>	Yotsuboshi	Miyoshi & Co., Ltd.
<u>Strawberry (Fragaria xananassa)</u>	DrisStrawFiftySix	Driscoll's, Inc.
<u>Strawberry (Fragaria xananassa)</u>	DrisStrawFiftyTwo	Driscoll's, Inc.
<u>(Grevillea obtusifolia)</u>	GR120013	Ian Shimmen
<u>Grevillea (Grevillea rhyolitica x victoriae)</u>	GR001	Ian Shimmen
<u>Barley (Hordeum vulgare)</u>	RGT Planet	RAGT R2n
<u>Lettuce (Lactuca</u>		Syngenta Australia Pty Ltd,

<i>sativa</i>	Emmagio	Syngenta Crop Protection AG
Spanish Lavender (<i>Lavandula pedunculata</i>)	Senros	The Paradise Seed Company Pty. Ltd.
Spanish Lavender (<i>Lavandula pedunculata</i>)	Senpin	The Paradise Seed Company Pty Limited
Tea Tree (<i>Leptospermum hybrid</i>)	Seclusion	Peter James Ollerenshaw
Mat Rush (<i>Lomandra</i>)	LCS1	TC Australia Pty Ltd
Mat Rush (<i>Lomandra</i>)	Mist	Ian Shimmen
Spiny Headed Mat Rush (<i>Lomandra</i>)	Fine 'n Dandy	Mansfields Austrafloa Holdings Pty Ltd.
Mat Rush (<i>Lomandra</i>)	LCP1020	Ian Shimmen
Spiny Headed Mat Rush (<i>Lomandra longifolia</i>)	Muru	Muru Mittigar
Matt Rush (<i>Lomandra hybrid</i>)	LCS5	TC Australia Pty Ltd
Matt Rush (<i>Lomandra hybrid</i>)	LM600	Ozbreed Pty Limited
Macadamia (<i>Macadamia integrifolia</i>)	MIV1-G	State of Queensland
Macadamia (<i>Macadamia integrifolia</i>)	MIV1-R	State of Queensland
Macadamia (<i>Macadamia integrifolia</i>)	MIV1-P	State of Queensland
Macadamia (<i>Macadamia integrifolia</i>)	MIV1-J	State of Queensland
Michelia (<i>Magnolia hybrid</i>)	MXPBCN	Coolwyn Nurseries Pty Ltd
Apple (<i>Malus domestica</i>)	Sweet Ruby	Dane Randall Griggs, Brett Andrew Griggs
Apple (<i>Malus domestica</i>)	Plumac	Geoffrey Plunkett, Marilyn Plunkett
Apple (<i>Malus domestica</i>)	EHCP	Fruit Varieties International Pty Ltd
Lucerne (<i>Medicago sativa</i>)	AGC03	Alpha Group Consulting Pty Ltd

Lucerne (<i>Medicago sativa</i>)	AGC02	Alpha Group Consulting Pty Ltd
Bower of Beauty (<i>Pandorea jasminoides</i>)	PJ01	Ozbreed Pty Ltd
Sweet Cherry (<i>Prunus avium</i>)	IFG Cher-one	International Fruit Genetics, LLC
Sweet Cherry (<i>Prunus avium</i>)	IFG Cher-three	International Fruit Genetics, LLC
Sweet Cherry (<i>Prunus avium</i>)	IFG Cher-four	International Fruit Genetics, LLC
European Pear (<i>Pyrus communis</i>)	ANP-0118	Agriculture Victoria Services Pty Ltd
European Pear (<i>Pyrus communis</i>)	ANP-0131	Agriculture Victoria Services Pty Ltd
Radish (<i>Raphanus sativus</i>)	NSW1	Norwest Seed Ltd
Raphnobrassica (<i>Raphanus x Brassica</i>)	Pallaton	Forage Innovations Limited
Raspberry (<i>Rubus idaeus</i>)	Dolomia Plus	Sant'Orsola S.C.A.
Tomato (<i>Solanum lycopersicum</i>)	SOLABOLL	Nunhems B.V.
Potato (<i>Solanum tuberosum</i>)	Bute	Caithness Potatoes Holding BV, UK
Sticky Stylo (<i>Stylosanthes viscosa</i>)	JCU-Vs1	James Cook University
Wheat (<i>Triticum aestivum</i>)	Catapult	Australian Grain Technologies Pty Ltd
(<i>Triticum aestivum</i>)	Sunchaser	Australian Grain Technologies Pty Ltd
Durum Wheat (<i>Triticum turgidum</i> subsp. <i>Durum</i>)	Bitalli	Australian Grain Technologies Pty Ltd
Durum Wheat (<i>Triticum turgidum</i> subsp. <i>Durum</i>)	Westcourt	Australian Grain Technologies Pty Ltd
Blueberry (<i>Vaccinium corymbosum</i>)	DrisBlueThirteen	Driscoll's, Inc.
Southern Highbush Blueberry (<i>Vaccinium hybrid</i>)	MB007	Dr Gavin Porter
Grape vine (<i>Vitis</i>		

vinifera)	IFG 104-253	International Fruit Genetics LLC
Grape vine (Vitis vinifera)	Mystique	Commonwealth Scientific and Industrial Research Organisation
Manila Grass (Zoysia matrella)	GZ-006	GeneGro Pty Ltd
Manila Grass (Zoysia matrella)	GZ-022	GeneGro Pty Ltd

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Date of effect: 16-Feb-2020

Plant Varieties Journal - Search Result Details

(*Duboisia hybrid*)**Variety:** 'A6'**Synonym:** N/A**Application no:** 2018/331**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 17-Nov-2018**Accepted:** 30-Nov-2018**Granted:** N/A

Description published in Plant Varieties Journal: Volume 32, Issue 4

Title Holder: G Crumpton & Sons & Co Pty Ltd**Agent:** N/A**Telephone:** 0741623547**Fax:** N/A

[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

(*Duboisia hybrid*)**Variety:** '11-13-055'**Synonym:** N/A**Application no:** 2018/334**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 17-Nov-2018**Accepted:** 05-Dec-2018**Granted:** N/A**Description published in Plant Varieties Journal:** Volume 32, Issue 4**Title Holder:** G Crumpton & Sons & Co Pty Ltd**Agent:** N/A**Telephone:** 0741623547**Fax:** N/A

[View the detailed description of this variety.](#)





Plant Varieties Journal - Search Result Details

(*Duboisia hybrid*)**Variety:** 'H22'**Synonym:** N/A**Application no:** 2018/333**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 17-Nov-2018**Accepted:** 05-Dec-2018**Granted:** N/A

Description published in Plant Varieties Journal: Volume 32, Issue 4

Title Holder: G Crumpton & Sons & Co Pty Ltd**Agent:** N/A**Telephone:** 0741623547**Fax:** N/A

[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

(*Duboisia hybrid*)

Variety: 'U3'
Synonym: N/A

Application no: 2018/332
Current status: ACCEPTED
Certificate no: N/A
Received: 17-Nov-2018
Accepted: 05-Dec-2018
Granted: N/A

Description published in Plant Varieties Journal: Volume 32, Issue 4

Title Holder: G Crumpton & Sons & Co Pty Ltd
Agent: N/A
Telephone: 0741623547
Fax: N/A

[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

(*Duboisia hybrid*)**Variety:** '11-15-086'**Synonym:** N/A**Application no:** 2018/335**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 17-Nov-2018**Accepted:** 05-Dec-2018**Granted:** N/A**Description published in Plant Varieties Journal:** Volume 32, Issue 4**Title Holder:** G Crumpton & Sons & Co Pty Ltd**Agent:** N/A**Telephone:** 0741623547**Fax:** N/A

[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

(*Grevillea obtusifolia*)

Variety: 'GR120013'
Synonym: Gin Gin Jewel

Application no: 2018/026

Current status: ACCEPTED

Certificate no: N/A

Received: 16-Feb-2018

Accepted: 28-Feb-2018

Granted: N/A

Description published in Plant Varieties Journal: Volume 32, Issue 4

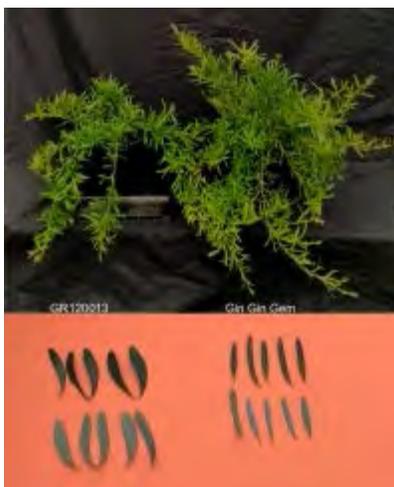
Title Holder: Ian Shimmen

Agent: N/A

Telephone: 0397394364

Fax: N/A

[View the detailed description of this variety.](#)



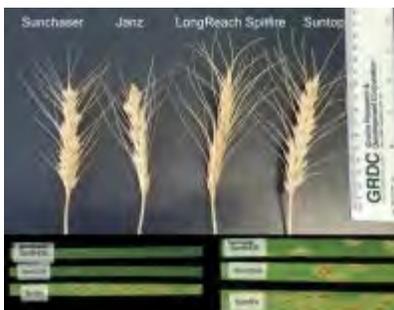
Plant Varieties Journal - Search Result Details

(*Triticum aestivum*)**Variety:** 'Sunchaser'**Synonym:** N/A**Application no:** 2019/113**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 11-Jun-2019**Accepted:** 08-Jul-2019**Granted:** N/A

Description published in Plant Varieties Journal: Volume 32, Issue 4

Title Holder: Australian Grain Technologies Pty Ltd**Agent:** N/A**Telephone:** 0883136861**Fax:** 0883136865

[View the detailed description of this variety.](#)



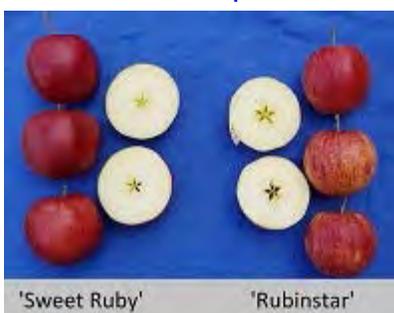
Plant Varieties Journal - Search Result Details

Apple (*Malus domestica*)**Variety:** 'Sweet Ruby'**Synonym:** N/A**Application no:** 2007/116**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 26-Apr-2007**Accepted:** 21-May-2007**Granted:** N/A

Description published in Plant Varieties Journal: Volume 32, Issue 4

Title Holder: Dane Randall Griggs, Brett Andrew Griggs**Agent:** N/A**Telephone:** 0362641474**Fax:** 0362641682

[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

Apple (*Malus domestica*)**Variety:** 'Plumac'**Synonym:** N/A**Application no:** 2016/092**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 15-Apr-2016**Accepted:** 08-Jun-2016**Granted:** N/A

Description published in Plant Varieties Journal: Volume 32, Issue 4

Title Holder: Geoffrey Plunkett, Marilyn Plunkett**Agent:** Garry Langford**Telephone:** 0368664344**Fax:** 0362664023

[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

Apple (*Malus domestica*)**Variety:** 'EHCP'**Synonym:** N/A**Application no:** 2018/356**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 03-Dec-2018**Accepted:** 18-Dec-2018**Granted:** N/A**Description published in Plant Varieties Journal:** Volume 32, Issue 4**Title Holder:** Fruit Varieties International Pty Ltd**Agent:** N/A**Telephone:** 0362667129**Fax:** N/A

[View the detailed description of this variety.](#)



Date of effect: 16-Feb-2020

Plant Varieties Journal - Search Result Details

Barley (*Hordeum vulgare*)**Variety:** 'RGT Planet'**Synonym:** N/A**Application no:** 2016/358**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 07-Dec-2016**Accepted:** 07-Sep-2017**Granted:** N/A

Description published in Plant Varieties Journal: Volume 32, Issue 4

Title Holder: RAGT R2n**Agent:** Seed Force Pty Ltd**Telephone:** 0266724994**Fax:** 0266722904

[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

Blueberry (*Vaccinium corymbosum*)**Variety:** 'DrisBlueThirteen'**Synonym:** N/A**Application no:** 2014/116**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 18-Jun-2014**Accepted:** 05-Aug-2014**Granted:** N/A

Description published in Plant Varieties Journal: Volume 32, Issue 4

Title Holder: Driscoll's, Inc.**Agent:** AJ Park**Telephone:** 6444740893**Fax:** 6444723358

[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

Bougainvillea (*Bougainvillea spectabilis* x *Bougainvillea glabra*)**Variety:** 'IREBABS 3'**Synonym:** MIMI-PU**Application no:** 2015/130**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 12-Jun-2015**Accepted:** 07-Jul-2015**Granted:** N/A

Description published in Plant Varieties Journal: Volume 32, Issue 4

Title Holder: Janet and Peter Iredell**Agent:** N/A**Telephone:** 0732026351**Fax:** 0732026351

[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

Bower of Beauty (*Pandorea jasminoides*)

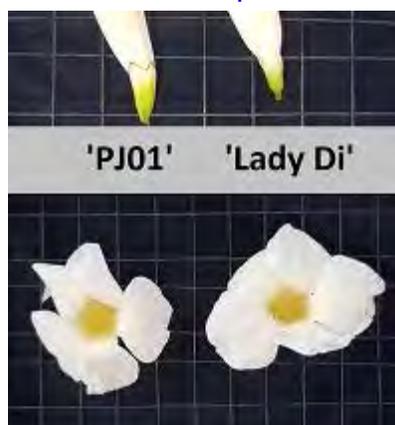
Variety: 'PJ01'
Synonym: N/A

Application no: 2016/213
Current status: ACCEPTED
Certificate no: N/A
Received: 02-Aug-2016
Accepted: 19-Aug-2016
Granted: N/A

Description published in Plant Varieties Journal: Volume 32, Issue 4

Title Holder: Ozbreed Pty Ltd
Agent: N/A
Telephone: 0245772977
Fax: N/A

[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

Desert Lime (*Citrus glauca*)

Variety: 'Standout'
Synonym: N/A

Application no: 2018/015
Current status: ACCEPTED
Certificate no: N/A
Received: 05-Feb-2018
Accepted: 20-Feb-2018
Granted: N/A

Description published in Plant Varieties Journal: Volume 32, Issue 4

Title Holder: Canebridge Pty Ltd
Agent: N/A
Telephone: 0746268100
Fax: 0746268139

[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

Durum Wheat (*Triticum turgidum* subsp. *Durum*)**Variety:** 'Bitalli'**Synonym:** N/A**Application no:** 2019/136**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 27-Jun-2019**Accepted:** 07-Aug-2019**Granted:** N/A

Description published in Plant Varieties Journal: Volume 32, Issue 4

Title Holder: Australian Grain Technologies Pty Ltd**Agent:** N/A**Telephone:** 0883136861**Fax:** 0883136865

[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

Durum Wheat (*Triticum turgidum* subsp. *Durum*)**Variety:** 'Westcourt'**Synonym:** N/A**Application no:** 2019/135**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 27-Jun-2019**Accepted:** 07-Aug-2019**Granted:** N/A

Description published in Plant Varieties Journal: Volume 32, Issue 4

Title Holder: Australian Grain Technologies Pty Ltd**Agent:** N/A**Telephone:** 0883136861**Fax:** 0883136865

[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

European Pear (*Pyrus communis*)

Variety: 'ANP-0118'
Synonym: N/A

Application no: 2012/138
Current status: ACCEPTED
Certificate no: N/A
Received: 13-Jul-2012
Accepted: 07-Aug-2012
Granted: N/A

Description published in Plant Varieties Journal: Volume 32, Issue 4

Title Holder: Agriculture Victoria Services Pty Ltd
Agent: N/A
Telephone: 0390327675
Fax: N/A

[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

European Pear (*Pyrus communis*)

Variety: 'ANP-0131'
Synonym: N/A

Application no: 2012/137
Current status: ACCEPTED
Certificate no: N/A
Received: 13-Jul-2012
Accepted: 07-Aug-2012
Granted: N/A

Description published in Plant Varieties Journal: Volume 32, Issue 4

Title Holder: Agriculture Victoria Services Pty Ltd
Agent: N/A
Telephone: 0390327675
Fax: N/A

[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

Fungal Endophyte (*Epichloe festucae var. lolii*)**Variety:** 'CM142'**Synonym:** N/A**Application no:** 2019/064**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 11-Apr-2019**Accepted:** 19-Sep-2019**Granted:** N/A

Description published in Plant Varieties Journal: Volume 32, Issue 4

Title Holder: Cropmark Seeds Australia Pty Ltd**Agent:** N/A**Telephone:** N/A**Fax:** N/A

[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

Grape vine (*Vitis vinifera*)**Variety:** 'IFG 104-253'**Synonym:** IFG Two**Application no:** 2013/159**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 10-Jul-2013**Accepted:** 28-Jan-2014**Granted:** N/A

Description published in Plant Varieties Journal: Volume 32, Issue 4

Title Holder: International Fruit Genetics LLC**Agent:** Darron Saltzman**Telephone:** N/A**Fax:** N/A

[View the detailed description of this variety.](#)



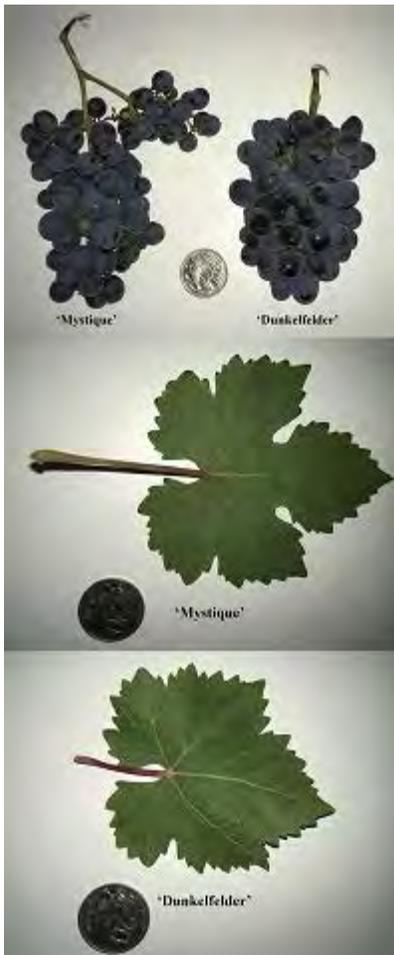
Plant Varieties Journal - Search Result Details

Grape vine (*Vitis vinifera*)**Variety:** 'Mystique'**Synonym:** N/A**Application no:** 2016/312**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 11-Nov-2016**Accepted:** 13-Jan-2017**Granted:** N/A**Description published in Plant Varieties Journal:** Volume 32, Issue 4**Title Holder:** Commonwealth Scientific and Industrial Research

Organisation

Agent: N/A**Telephone:** 0395458013**Fax:** N/A

[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

Grevillea (*Grevillea rhyolitica* x *victoriae*)

Variety: 'GR001'
Synonym: Ruby Jewel

Application no: 2014/054
Current status: ACCEPTED
Certificate no: N/A
Received: 19-Mar-2014
Accepted: 09-Apr-2014
Granted: N/A

Description published in Plant Varieties Journal: Volume 32, Issue 4

Title Holder: Ian Shimmen
Agent: N/A
Telephone: 0397394364
Fax: N/A

[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

Kangaroo Paw (*Anigozanthos hybrid*)**Variety:** 'Kings Park Royale'**Synonym:** N/A**Application no:** 2019/029**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 28-Feb-2019**Accepted:** 09-Apr-2019**Granted:** N/A

Description published in Plant Varieties Journal: Volume 32, Issue 4

Title Holder: Botanic Gardens and Parks Authority**Agent:** Ramm Botanicals Holdings Pty Ltd**Telephone:** 0243512099**Fax:** 0243531875

[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

Lettuce (*Lactuca sativa*)**Variety:** 'Emmagio'**Synonym:** N/A**Application no:** 2014/067**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 16-Apr-2014**Accepted:** 16-Jul-2014**Granted:** N/A

Description published in Plant Varieties Journal: Volume 32, Issue 4

Title Holder: Syngenta Australia Pty Ltd, Syngenta Crop Protection AG**Agent:** N/A**Telephone:** 0400289456**Fax:** N/A

[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

Lucerne (*Medicago sativa*)**Variety:** 'AGC03'**Synonym:** N/A**Application no:** 2018/135**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 11-May-2018**Accepted:** 22-May-2018**Granted:** N/A

Description published in Plant Varieties Journal: Volume 32, Issue 4

Title Holder: Alpha Group Consulting Pty Ltd**Agent:** N/A**Telephone:** 0887551502**Fax:** N/A

[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

Lucerne (*Medicago sativa*)**Variety:** 'AGC02'**Synonym:** N/A**Application no:** 2018/134**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 11-May-2018**Accepted:** 22-May-2018**Granted:** N/A

Description published in Plant Varieties Journal: Volume 32, Issue 4

Title Holder: Alpha Group Consulting Pty Ltd**Agent:** N/A**Telephone:** 0887551502**Fax:** N/A

[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

Macadamia (*Macadamia integrifolia*)

Variety: 'MIV1-G'
Synonym: MIV1-G

Application no: 2017/279
Current status: ACCEPTED
Certificate no: N/A
Received: 25-Sep-2017
Accepted: 18-Dec-2017
Granted: N/A

Description published in Plant Varieties Journal: Volume 32, Issue 4

Title Holder: State of Queensland
Agent: N/A
Telephone: 0737088565
Fax: 0737088429

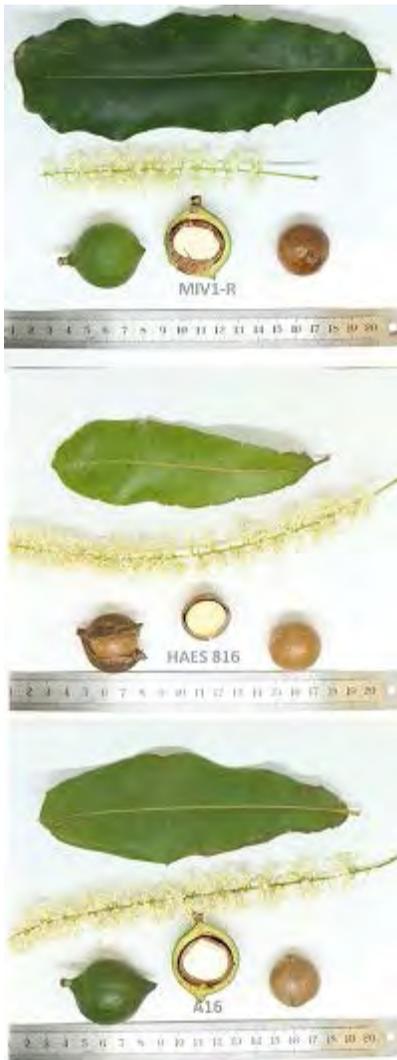
[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

Macadamia (*Macadamia integrifolia*)**Variety:** 'MIV1-R'**Synonym:** MIV1-R**Application no:** 2017/278**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 25-Sep-2017**Accepted:** 18-Dec-2017**Granted:** N/A**Description published in Plant Varieties Journal:** Volume 32, Issue 4**Title Holder:** State of Queensland**Agent:** N/A**Telephone:** 0737088565**Fax:** 0737088429

[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

Macadamia (*Macadamia integrifolia*)

Variety: 'MIV1-P'
Synonym: N/A

Application no: 2017/280
Current status: ACCEPTED
Certificate no: N/A
Received: 25-Sep-2017
Accepted: 04-Jan-2018
Granted: N/A

Description published in Plant Varieties Journal: Volume 32, Issue 4

Title Holder: State of Queensland
Agent: N/A
Telephone: 0737088565
Fax: 0737088429

[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

Macadamia (*Macadamia integrifolia*)

Variety: 'MIV1-J'
Synonym: N/A

Application no: 2017/281
Current status: ACCEPTED
Certificate no: N/A
Received: 25-Sep-2017
Accepted: 20-Dec-2017
Granted: N/A

Description published in Plant Varieties Journal: Volume 32, Issue 4

Title Holder: State of Queensland
Agent: N/A
Telephone: 0737088565
Fax: 0737088429

[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

Manila Grass (*Zoysia matrella*)**Variety:** 'GZ-006'**Synonym:** N/A**Application no:** 2017/087**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 09-Apr-2017**Accepted:** 26-Apr-2017**Granted:** N/A

Description published in Plant Varieties Journal: Volume 32, Issue 4

Title Holder: GeneGro Pty Ltd**Agent:** N/A**Telephone:** 0738245440**Fax:** 0738245445

[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

Manila Grass (*Zoysia matrella*)**Variety:** 'GZ-022'**Synonym:** N/A**Application no:** 2017/088**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 09-Apr-2017**Accepted:** 24-Apr-2017**Granted:** N/A

Description published in Plant Varieties Journal: Volume 32, Issue 4

Title Holder: GeneGro Pty Ltd**Agent:** N/A**Telephone:** 0738245440**Fax:** 0738245445

[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

Mat Rush (*Lomandra*)

Variety: 'LCS1'
Synonym: Frosty Top

Application no: 2010/122

Current status: ACCEPTED

Certificate no: N/A

Received: 08-Jun-2010

Accepted: 14-Dec-2010

Granted: N/A

Description published in Plant Varieties Journal: Volume 32, Issue 4

Title Holder: TC Australia Pty Ltd
Agent: Longview Horticulture
Telephone: N/A
Fax: N/A

[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

Mat Rush (*Lomandra*)

Variety: 'Mist'
Synonym: N/A

Application no: 2011/093
Current status: ACCEPTED
Certificate no: N/A
Received: 19-May-2011
Accepted: 14-Jul-2011
Granted: N/A

Description published in Plant Varieties Journal: Volume 32, Issue 4

Title Holder: Ian Shimmen
Agent: N/A
Telephone: 0397394364
Fax: N/A

[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

Mat Rush (*Lomandra*)**Variety:** 'LCP1020'**Synonym:** N/A**Application no:** 2017/051**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 10-Mar-2017**Accepted:** 24-Jan-2020**Granted:** N/A

Description published in Plant Varieties Journal: Volume 32, Issue 4

Title Holder: Ian Shimmen**Agent:** N/A**Telephone:** 0397394364**Fax:** N/A

[View the detailed description of this variety.](#)



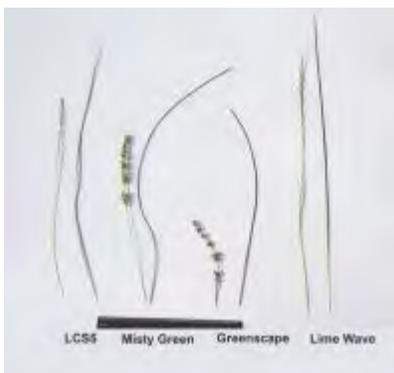
Plant Varieties Journal - Search Result Details

Matt Rush (*Lomandra hybrid*)**Variety:** 'LCS5'**Synonym:** N/A**Application no:** 2011/220**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 30-Sep-2011**Accepted:** 15-Nov-2011**Granted:** N/A

Description published in Plant Varieties Journal: Volume 32, Issue 4

Title Holder: TC Australia Pty Ltd**Agent:** N/A**Telephone:** N/A**Fax:** N/A

[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

Matt Rush (*Lomandra hybrid*)**Variety:** 'LM600'**Synonym:** N/A**Application no:** 2014/248**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 16-Oct-2014**Accepted:** 29-Apr-2015**Granted:** N/A

Description published in Plant Varieties Journal: Volume 32, Issue 4

Title Holder: Ozbreed Pty Limited**Agent:** N/A**Telephone:** 0245772977**Fax:** N/A

[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

Michelia (*Magnolia hybrid*)

Variety: 'MXPBCN'
Synonym: Pink Bouquet

Application no: 2016/246

Current status: ACCEPTED

Certificate no: N/A

Received: 02-Sep-2016

Accepted: 15-May-2017

Granted: N/A

Description published in Plant Varieties Journal: Volume 32, Issue 4

Title Holder: Coolwyn Nurseries Pty Ltd

Agent: N/A

Telephone: 0397520266

Fax: 0397520266

[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

Peanut (*Arachis hypogaea*)

Variety: 'ALLOWAY'
Synonym: N/A

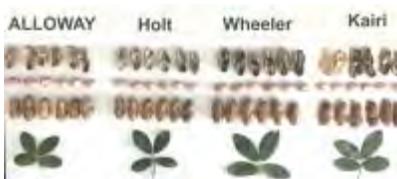
Application no: 2019/062
Current status: ACCEPTED
Certificate no: N/A
Received: 09-Apr-2019
Accepted: 07-May-2019
Granted: N/A

Description published in Plant Varieties Journal: Volume 32, Issue 4

Title Holder: Peanut Company of Australia Ltd; Grains Research and Development Corporation; The State of Queensland through the Department of Agriculture and Fisheries

Agent: N/A
Telephone: 0741626311
Fax: N/A

[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

Potato (*Solanum tuberosum*)**Variety:** 'Bute'**Synonym:** N/A**Application no:** 2014/251**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 21-Oct-2014**Accepted:** 01-May-2015**Granted:** N/A

Description published in Plant Varieties Journal: Volume 32, Issue 4

Title Holder: Caithness Potatoes Holding BV, UK**Agent:** South Australian Seeds Pty Ltd**Telephone:** 0882829000**Fax:** 0882829029

[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

Radish (*Raphanus sativus*)**Variety:** 'NSW1'**Synonym:** N/A**Application no:** 2018/314**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 31-Oct-2018**Accepted:** 30-Jan-2019**Granted:** N/A

Description published in Plant Varieties Journal: Volume 32, Issue 4

Title Holder: Norwest Seed Ltd**Agent:** Pasture Genetics Ltd**Telephone:** 074290252**Fax:** N/A

[View the detailed description of this variety.](#)



Date of effect: 16-Feb-2020

Plant Varieties Journal - Search Result Details

Raphanobrassica (*Raphanus x Brassica*)**Variety:** 'Pallaton'**Synonym:** N/A**Application no:** 2015/351**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 21-Dec-2015**Accepted:** 15-Mar-2016**Granted:** N/A

Description published in Plant Varieties Journal: Volume 32, Issue 4

Title Holder: Forage Innovations Limited**Agent:** A J Park**Telephone:** 6444740893**Fax:** 6444723358

[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

Raspberry (*Rubus idaeus*)**Variety:** 'Dolomia Plus'**Synonym:** N/A**Application no:** 2014/109**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 13-Jun-2014**Accepted:** 18-Jul-2014**Granted:** N/A

Description published in Plant Varieties Journal: Volume 32, Issue 4

Title Holder: Sant'Orsola S.C.A.**Agent:** Plant Varieties Australia Limited**Telephone:** N/A**Fax:** N/A

[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

Southern Highbush Blueberry (*Vaccinium hybrid*)**Variety:** 'MB007'**Synonym:** N/A**Application no:** 2018/052**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 27-Feb-2018**Accepted:** 17-Apr-2018**Granted:** N/A

Description published in Plant Varieties Journal: Volume 32, Issue 4

Title Holder: Dr Gavin Porter**Agent:** Australian Nurserymen's Fruit Improvement Company (ANFIC) Ltd**Telephone:** 0734919905**Fax:** 0734919929

[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

Spanish Lavender (*Lavandula pedunculata*)

Variety: 'Senros'
Synonym: N/A

Application no: 2013/227
Current status: ACCEPTED
Certificate no: N/A
Received: 06-Sep-2013
Accepted: 11-Oct-2013
Granted: N/A

Description published in Plant Varieties Journal: Volume 32, Issue 4

Title Holder: The Paradise Seed Company Pty. Ltd.

Agent: N/A
Telephone: N/A
Fax: N/A

[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

Spanish Lavender (*Lavandula pedunculata*)**Variety:** 'Senpin'**Synonym:** N/A**Application no:** 2017/240**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 21-Aug-2017**Accepted:** 20-Dec-2017**Granted:** N/A

Description published in Plant Varieties Journal: Volume 32, Issue 4

Title Holder: The Paradise Seed Company Pty Limited**Agent:** N/A**Telephone:** N/A**Fax:** N/A

[View the detailed description of this variety.](#)



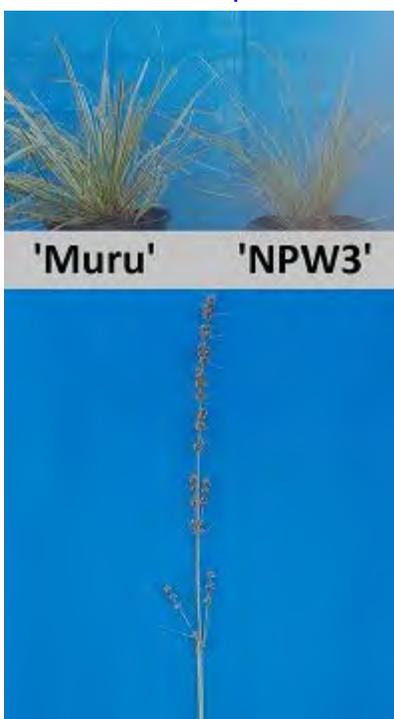
Plant Varieties Journal - Search Result Details

Spiny Headed Mat Rush (*Lomandra longifolia*)**Variety:** 'Muru'**Synonym:** N/A**Application no:** 2015/347**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 16-Dec-2015**Accepted:** 01-Feb-2016**Granted:** N/A

Description published in Plant Varieties Journal: Volume 32, Issue 4

Title Holder: Muru Mittigar**Agent:** Ozbreed Pty Ltd**Telephone:** 0245772977**Fax:** 0245877728

[View the detailed description of this variety.](#)





Plant Varieties Journal - Search Result Details

Spiny Headed Mat Rush (*Lomandra*)**Variety:** 'Fine 'n Dandy'**Synonym:** N/A**Application no:** 2012/085**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 04-May-2012**Accepted:** 17-May-2012**Granted:** N/A

Description published in Plant Varieties Journal: Volume 32, Issue 4

Title Holder: Mansfields Austraflores Holdings Pty Ltd.**Agent:** N/A**Telephone:** 0397822404**Fax:** 0397822438

[View the detailed description of this variety.](#)



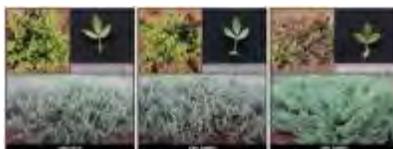
Plant Varieties Journal - Search Result Details

Sticky Stylo (*Stylosanthes viscosa*)**Variety:** 'JCU-Vs1'**Synonym:** N/A**Application no:** 2018/139**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 16-May-2018**Accepted:** 22-May-2018**Granted:** N/A

Description published in Plant Varieties Journal: Volume 32, Issue 4

Title Holder: James Cook University**Agent:** Agrimix Pastures Pty Ltd**Telephone:** N/A**Fax:** N/A

[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

Strawberry (*Fragaria x ananassa*)**Variety:** 'DrisStrawFiftyNine'**Synonym:** N/A**Application no:** 2018/342**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 22-Nov-2018**Accepted:** 20-Dec-2018**Granted:** N/A

Description published in Plant Varieties Journal: Volume 32, Issue 4

Title Holder: Driscoll's, Inc.**Agent:** AJ Park**Telephone:** 6444740893**Fax:** 6444723358

[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

Strawberry (*Fragaria X ananassa*)**Variety:** 'Yotsuboshi'**Synonym:** N/A**Application no:** 2018/001**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 18-Jan-2018**Accepted:** 17-Apr-2018**Granted:** N/A

Description published in Plant Varieties Journal: Volume 32, Issue 4

Title Holder: Miyoshi & Co., Ltd.**Agent:** Berry Sensation Pty Ltd**Telephone:** 0385458800**Fax:** N/A

[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

Strawberry (*Fragaria xananassa*)**Variety:** 'DrisStrawFiftySix'**Synonym:** N/A**Application no:** 2017/291**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 29-Sep-2017**Accepted:** 01-Nov-2017**Granted:** N/A

Description published in Plant Varieties Journal: Volume 32, Issue 4

Title Holder: Driscoll's, Inc.**Agent:** AJ Park**Telephone:** 644 474 08**Fax:** N/A

[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

Strawberry (*Fragaria xananassa*)**Variety:** 'DrisStrawFiftyTwo'**Synonym:** N/A**Application no:** 2017/287**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 29-Sep-2017**Accepted:** 25-Oct-2017**Granted:** N/A

Description published in Plant Varieties Journal: Volume 32, Issue 4

Title Holder: Driscoll's, Inc.**Agent:** AJ Park**Telephone:** 644 474 08**Fax:** N/A

[View the detailed description of this variety.](#)



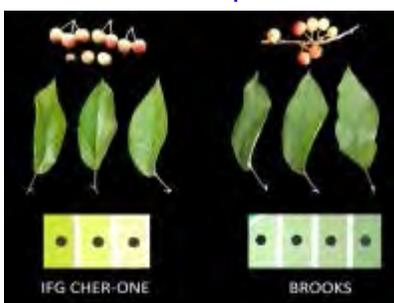
Plant Varieties Journal - Search Result Details

Sweet Cherry (*Prunus avium*)**Variety:** 'IFG Cher-one'**Synonym:** N/A**Application no:** 2018/061**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 06-Mar-2018**Accepted:** 18-Apr-2018**Granted:** N/A

Description published in Plant Varieties Journal: Volume 32, Issue 4

Title Holder: International Fruit Genetics, LLC**Agent:** Eurofins Agrosience Services**Telephone:** 0358212021**Fax:** N/A

[View the detailed description of this variety.](#)



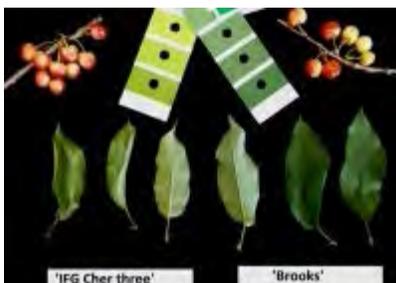
Plant Varieties Journal - Search Result Details

Sweet Cherry (*Prunus avium*)**Variety:** 'IFG Cher-three'**Synonym:** N/A**Application no:** 2018/059**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 06-Mar-2018**Accepted:** 06-Jun-2018**Granted:** N/A

Description published in Plant Varieties Journal: Volume 32, Issue 4

Title Holder: International Fruit Genetics, LLC**Agent:** Eurofins Agrosience Services**Telephone:** 0358212021**Fax:** N/A

[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

Sweet Cherry (*Prunus avium*)**Variety:** 'IFG Cher-four'**Synonym:** N/A**Application no:** 2018/058**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 06-Mar-2018**Accepted:** 06-Jun-2018**Granted:** N/A

Description published in Plant Varieties Journal: Volume 32, Issue 4

Title Holder: International Fruit Genetics, LLC**Agent:** Eurofins Agroscience Services**Telephone:** 0358212021**Fax:** N/A

[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

Tea Tree (*Leptospermum hybrid*)**Variety:** 'Seclusion'**Synonym:** N/A**Application no:** 2018/336**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 19-Nov-2018**Accepted:** 21-Dec-2018**Granted:** N/A

Description published in Plant Varieties Journal: Volume 32, Issue 4

Title Holder: Peter James Ollerenshaw**Agent:** Robert Dunstone**Telephone:** 0262369280**Fax:** N/A

[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

Tomato (*Solanum lycopersicum*)**Variety:** 'SOLABOLL'**Synonym:** N/A**Application no:** 2019/021**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 08-Feb-2019**Accepted:** 27-Feb-2019**Granted:** N/A

Description published in Plant Varieties Journal: Volume 32, Issue 4

Title Holder: Nunhems B.V.**Agent:** Shelston IP Pty Ltd**Telephone:** 0297771111**Fax:** 0292414666

[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

Wheat (*Triticum aestivum*)**Variety:** 'Catapult'**Synonym:** N/A**Application no:** 2019/106**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 03-Jun-2019**Accepted:** 18-Jul-2019**Granted:** N/A

Description published in Plant Varieties Journal: Volume 32, Issue 4

Title Holder: Australian Grain Technologies Pty Ltd**Agent:** N/A**Telephone:** N/A**Fax:** N/A

[View the detailed description of this variety.](#)



Details of Application		
Application Number	2018/331	
Variety Name	'A6'	
Genus Species	<i>Duboisia</i> hybrid	
Common Name	Duboisia	
Accepted Date	30 Nov 2018	
Applicant	G Crumpton & Sons & Co Pty Ltd, Crawford, QLD, 4610	
Qualified Person	Dr Donald S. Loch	
Details of Comparative Trial		
Location	Memerambi, QLD, Australia (Latitude 26°28'S, longitude 151°50'E, elevation 500 masl)	
Descriptor	PBR DUBOI <i>Duboisia</i> (<i>Duboisia</i>)	
Period	1 February 2017 – 6 December 2018	
Conditions	Cuttings prepared for vegetative propagation in early Feb 2017; planted in the field in early Sep 2017 on a red volcanic (krasnozem or ferrosol) soil under rain-grown (i.e. dryland) conditions and allowed to develop as uncut trees until final evaluation in Dec 2018. CK88 fertiliser blend (N:P:K:S = 15.1:4.4:11.5:13.6) applied at 100 kg/ha after planting in Jan 2018. Sprayed with carbaryl as required to control flea beetles and lepidopterous larvae.	
Trial Design	6 plants of each of 9 cultivars ('A6', 'H22', 'U3', '11-15-086', '11-13-055', 'Green', 'Slinger', 'Boon 2', 'Hansen') arranged in 6 randomised blocks in single rows 4.25 m apart; 1.8 m between plants in the row.	
Measurements	Leaf length and width (six mature leaves per plant sampled from a strongly growing lateral branch) measured 26 Nov - 5 Dec 2018; analyses of variance (ANOVAs) conducted with Genstat Release 12; differences significant at the 1% level quantified using Fisher's protected LSDs. Botanical characteristics completed as per PBR DUBOI descriptor and photographs taken on 6 Dec 2018.	
RHS Chart - edition	2015 (6th edition)	
Origin and Breeding		
Controlled pollination: During the period 2010-13, multiple crosses were made between the <i>Duboisia</i> hybrid clones 'Slinger' and 'Green', either by manually crossing plants grown in pots or by allowing pairs of the self-incompatible parent plants grown together in isolation to cross naturally. The resultant seedlings were tested for their levels of scopolamine and evaluated for persistence and their general agronomic suitability under commercial production. The final selection of 'A6' was based on its high level of scopolamine, dense foliage, and persistence under repeated harvesting. Breeder: Bruce Underwood (Kingaroy, QLD).		
Choice of Comparators Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge		
Organ/Plant Part	Context	State of Expression in Group of Varieties
Plant	growth habit	erect to semi erect
Leaf	colours of lower surface relative to upper surface	same

Most Similar Varieties of Common Knowledge identified (VCK)						
Name			Comments			
'Green'			parent of 'A6'			
'Slinger'			parent of 'A6'			
Varieties of Common Knowledge identified and subsequently excluded						
Variety	Distinguishing Characteristics		State of Expression in Candidate Variety	State of Expression in Comparator Variety	Comments	
'H22'	leaf	curvature of transverse axis	medium to strong	weak to medium	Application No. 2018/333; accepted	
'U3'	leaf	curvature of transverse axis	medium to strong	very weak to weak	Application No. 2018/332; accepted	
'11-15-086'	leaf	width of mature leaf	narrow to medium	broad to very broad	Application No. 2018/335; accepted	
'11-15-086'	leaf	anthocyanin colouration of petiole	absent or very weak	weak to medium		
'11-13-055'	leaf	width of mature leaf	narrow to medium	medium	Application No. 2018/334; accepted	
'11-13-055'	leaf	anthocyanin colouration of petiole	absent or very weak	medium to strong		
'11-13-055'	leaf	attitude	semi-erect	horizontal		
'Boon 2'	leaf	curvature of transverse axis	medium to strong	weak to medium	Current industry standard cultivar	
'Hansen'	leaf	curvature of transverse axis	medium to strong	weak		
'Hansen'	leaf	attitude	semi-erect	pendulous		

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with X.

Organ/Plant Part: Context	'A6'	'Green'	'Slinger'
<input type="checkbox"/> Plant: growth habit	upright	semi-upright	upright
<input checked="" type="checkbox"/> Plant: density	medium to dense	sparse	dense
<input checked="" type="checkbox"/> Plant: height	short to medium	short	tall
<input checked="" type="checkbox"/> Plant: width	narrow	medium	medium to wide
<input checked="" type="checkbox"/> Stem: anthocyanin colouration	very weak to weak	very weak to weak	medium to strong

<input type="checkbox"/>	Stem: corkiness of bark on lower main stem	medium	medium	medium
<input checked="" type="checkbox"/>	Stem: attitude of branches	erect	medium	medium
<input checked="" type="checkbox"/>	Stem: length of internode	very short to short	short to medium	short
<input type="checkbox"/>	Stem: diameter of internode	medium	medium	medium to broad
<input type="checkbox"/>	Stem: pubescence of young stem	present	present	present
<input checked="" type="checkbox"/>	Leaf: length of mature leaf	medium	short to medium	very long
<input checked="" type="checkbox"/>	Leaf: width of mature leaf	narrow to medium	narrow to medium	broad
<input checked="" type="checkbox"/>	Leaf: length of petiole (One-third down from tip of strong side branch)	short	very short	short
<input checked="" type="checkbox"/>	Leaf: anthocyanin colouration of petiole	absent or very weak	absent or very weak	weak
<input checked="" type="checkbox"/>	Leaf: shape of blade	obovate	elliptic	obovate
<input type="checkbox"/>	Leaf: shape of apex	acute	acute	acute
<input type="checkbox"/>	Leaf: shape of base	attenuate	attenuate	attenuate
<input checked="" type="checkbox"/>	Leaf: width relative to length	narrow	medium	medium
<input checked="" type="checkbox"/>	Leaf: attitude	erect	semi-erect	pendulous
<input checked="" type="checkbox"/>	Leaf: curvature of longitudinal axis	weakly incurved	flat	recurved to weakly recurved
<input checked="" type="checkbox"/>	Leaf: curvature of transverse axis	medium to strong	weak to medium	weak
<input type="checkbox"/>	Leaf: undulation of margins	weak	weak	weak
<input type="checkbox"/>	Leaf: reflexing of margins	absent or very weak	absent or very weak	absent or very weak
<input checked="" type="checkbox"/>	Leaf: thickness of leaf	medium	thick	medium
<input checked="" type="checkbox"/>	Leaf: glaucosity	strong	strong	medium
<input type="checkbox"/>	Leaf: hairiness of young leaves	present	present	present
<input type="checkbox"/>	Leaf: colours of lower surface relative to upper surface	same	same	same
<input type="checkbox"/>	Leaf: colour of upper surface (RHS)	146A	146A	146A
<input checked="" type="checkbox"/>	Leaf: prominence of veins on leaf	medium	medium	strong
<input checked="" type="checkbox"/>	Flower: floriferousness	strong	medium	strong

Statistical Table			
Organ/Plant Part: Context	'A6'	'Green'	'Slinger'
<input checked="" type="checkbox"/> Leaf: Length of mature leaf (mm)			
Mean	97.86	92.02	121.05
Std. Deviation	11.29	6.63	10.30
LSD/sig	9.36	ns	P≤0.01
<input checked="" type="checkbox"/> Leaf: Width of mature leaf (mm)			
Mean	21.31	21.26	27.11
Std. Deviation	2.70	2.22	2.68
LSD/sig	3.03	ns	P≤0.01
<input type="checkbox"/> Leaf: Length:width ratio of mature leaf			
Mean	4.63	4.36	4.49
Std. Deviation	0.53	0.37	0.38
LSD/sig	0.43	ns	ns

Prior Applications and Sales:

Nil

Description: **D.S. Loch** (Alexandra Hills, QLD) & **I. Haak** (Crawford, QLD)

Details of Application		
Application Number	2018/334	
Variety Name	'11-13-055'	
Genus Species	<i>Duboisia</i> hybrid	
Common Name	Duboisia	
Accepted Date	05-Dec-2018	
Applicant	G Crumpton & Sons & Co Pty Ltd, Crawford, QLD, 4610	
Qualified Person	Dr Donald S. Loch	
Details of Comparative Trial		
Location	Memerambi, QLD, Australia (Latitude 26°28'S, longitude 151°50'E, elevation 500 masl)	
Descriptor	PBR DUBOI <i>Duboisia</i> (<i>Duboisia</i>)	
Period	1 February 2017 – 6 December 2018	
Conditions	Cuttings prepared for vegetative propagation in early Feb 2017; planted in the field in early Sep 2017 on a red volcanic (krasnozem or ferrosol) soil under rain-grown (i.e. dryland) conditions and allowed to develop as uncut trees until final evaluation in Dec 2018. CK88 fertiliser blend (N:P:K:S = 15.1:4.4:11.5:13.6) applied at 100 kg/ha after planting in Jan 2018. Sprayed with carbaryl as required to control flea beetles and lepidopterous larvae.	
Trial Design	6 plants of each of 9 cultivars ('11-13-055', 'A6', 'H22', 'U3', '11-15-086', 'Boon 2', 'Green', 'Hansen', 'Slinger') arranged in 6 randomised blocks in single rows 4.25 m apart; 1.8 m between plants in the row.	
Measurements	Leaf length and width (six mature leaves per plant sampled from a strongly growing lateral branch) measured 26 Nov - 5 Dec 2018; analyses of variance (ANOVAs) conducted with Genstat Release 12; differences significant at the 1% level quantified using Fisher's protected LSDs. Botanical characteristics completed as per PBR DUBOI descriptor and photographs taken on 6 Dec 2018.	
RHS Chart - edition	2015 (6th edition)	
Origin and Breeding		
Controlled pollination: During the period 2010-13, multiple crosses were made between the <i>Duboisia</i> hybrid clones 'Slinger' and 'Hansen', either by manually crossing plants grown in pots or by allowing pairs of the self-incompatible parent plants grown together in isolation to cross naturally. The resultant seedlings were tested for their levels of scopolamine and evaluated for persistence and their general agronomic suitability under commercial production. The final selection of '11-13-055' was based on its high level of scopolamine, dense foliage, and persistence under repeated harvesting. Breeder: Bruce Underwood (Kingaroy, QLD).		
Choice of Comparators Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge		
Organ/Plant Part	Context	State of Expression in Group of Varieties
Leaf	length of mature leaf	long - very long
Leaf	curvature of transverse axis	weak
Leaf	anthocyanin colouration	medium - strong

		of petiole			
Leaf		attitude	horizontal		
Most Similar Varieties of Common Knowledge identified (VCK)					
Name		Comments			
'Slinger'		parent of '11-13-055'			
'Hansen'		parent of '11-13-055'			
'11-15-086'		application no. 2018/335; accepted			
Varieties of Common Knowledge identified and subsequently excluded					
Variety	Distinguishing Characteristics		State of Expression in Candidate Variety	State of Expression in Comparator Variety	Comments
'A6'	leaf	length of mature leaf	long to very long	medium	Application No. 2018/331; accepted
'A6'	leaf	curvature of transverse axis	weak	medium to strong	
'A6'	leaf	anthocyanin colouration of petiole	medium to strong	absent or very weak	
'A6'	leaf	attitude	horizontal	erect	
'H22'	leaf	length of mature leaf	long to very long	medium	Application No. 2018/333; accepted
'H22'	leaf	anthocyanin colouration of petiole	medium to strong	absent or very weak	
'H22'	leaf	attitude	horizontal	erect	
'U3'	leaf	length of mature leaf	long to very long	medium	Application No. 2018/332; accepted
'U3'	leaf	anthocyanin colouration of petiole	medium to strong	absent or very weak	
'U3'	leaf	attitude	horizontal	semi-erect	
'Boon 2'	leaf	length of mature leaf	long to very long	medium	Current industry standard cultivar
'Boon 2'	leaf	anthocyanin colouration of petiole	medium to strong	absent or very weak	
'Boon 2'	leaf	attitude	horizontal	semi-erect	
'Green'	leaf	length of mature leaf	long to very long	medium	
'Green'	leaf	anthocyanin colouration of petiole	medium to strong	absent or very weak	
'Green'	leaf	attitude	horizontal	semi-erect	

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with X.

Organ/Plant Part: Context	'11-13-055'	'Slinger'	'11-15-086'	'Hansen'
<input type="checkbox"/> Plant: growth habit	semi-upright	upright	semi-upright	semi-upright
<input checked="" type="checkbox"/> Plant: density	medium to dense	dense	medium	sparse
<input type="checkbox"/> Plant: height	tall	tall	medium	tall
<input type="checkbox"/> Plant: width	medium to wide	medium to wide	wide	medium
<input checked="" type="checkbox"/> Stem: anthocyanin colouration	strong to very strong	medium to strong	strong	strong
<input type="checkbox"/> Stem: corkiness of bark on lower main stem	medium	medium	medium to strong	weak
<input type="checkbox"/> Stem: attitude of branches	medium	medium	medium	medium
<input checked="" type="checkbox"/> Stem: length of internode	medium	short	very short to short	short
<input checked="" type="checkbox"/> Stem: diameter of internode	broad	medium to broad	medium	medium
<input type="checkbox"/> Stem: pubescence of young stem	present	present	present	present
<input type="checkbox"/> Leaf: length of mature leaf	long to very long	very long	very long	long
<input checked="" type="checkbox"/> Leaf: width of mature leaf	medium	broad	broad to very broad	broad
<input type="checkbox"/> Leaf: length of petiole (One-third down from tip of strong side branch)	short	short	short	short
<input checked="" type="checkbox"/> Leaf: anthocyanin colouration of petiole	medium to strong	weak	weak to medium	very weak to weak
<input checked="" type="checkbox"/> Leaf: shape of blade	elliptic	obovate	elliptic	elliptic
<input type="checkbox"/> Leaf: shape of apex	acute	acute	acute	acute
<input type="checkbox"/> Leaf: shape of base	attenuate	attenuate	attenuate	attenuate
<input checked="" type="checkbox"/> Leaf: width relative to length	narrow	medium	broad	broad
<input checked="" type="checkbox"/> Leaf: attitude	horizontal	pendulous	semi-erect	pendulous
<input checked="" type="checkbox"/> Leaf: curvature of longitudinal axis	flat	recurved to weakly recurved	flat	weakly recurved
<input type="checkbox"/> Leaf: curvature of transverse axis	weak	weak	weak	weak
<input type="checkbox"/> Leaf: undulation of margins	weak	weak	weak	weak to medium
<input checked="" type="checkbox"/> Leaf: reflexing of margins	absent or very weak	absent or very weak	very weak to weak	absent or very weak
<input checked="" type="checkbox"/> Leaf: thickness of leaf	medium	medium	medium	thick
<input checked="" type="checkbox"/> Leaf: glaucosity	strong	medium	strong	medium
<input type="checkbox"/> Leaf: hairiness of young leaves	present	present	present	present
<input type="checkbox"/> Leaf: colours of lower surface relative to upper surface	same	same	same	same

<input checked="" type="checkbox"/> Leaf: colour of upper surface (RHS)	146A	146A	N137B	N137B
<input checked="" type="checkbox"/> Leaf: prominence of veins on leaf	weak	strong	medium	medium
<input checked="" type="checkbox"/> Flower: floriferousness	weak	strong	weak to medium	weak

Statistical Table

Organ/Plant Part: Context	'11-13-055'	'Slinger'	'11-15-086'	'Hansen'
<input type="checkbox"/> Leaf: Length of mature leaf (mm)				
Mean	115.21	121.05	119.16	110.03
Std. Deviation	11.88	10.30	12.51	13.99
LSD/sig	9.36	ns	ns	ns
<input checked="" type="checkbox"/> Leaf: Width of mature leaf (mm)				
Mean	24.07	27.11	28.48	27.89
Std. Deviation	3.04	2.68	3.43	12.00
LSD/sig	3.03	P≤0.01	P≤0.01	P≤0.01
<input checked="" type="checkbox"/> Leaf: Length:width ratio of mature leaf				
Mean	4.81	4.49	4.21	4.19
Std. Deviation	0.39	0.38	0.38	0.64
LSD/sig	0.43	ns	P≤0.01	P≤0.01

Prior Applications and Sales:

Nil

Description: **D.S. Loch** (Alexandra Hills, QLD) & **I. Haak** (Crawford, QLD)

Details of Application		
Application Number	2018/333	
Variety Name	'H22'	
Genus Species	<i>Duboisia</i> hybrid	
Common Name	Duboisia	
Accepted Date	05 Dec 2018	
Applicant	G Crumpton & Sons & Co Pty Ltd, Crawford, QLD, 4610	
Qualified Person	Dr Donald S. Loch	
Details of Comparative Trial		
Location	Memerambi, QLD, Australia (Latitude 26°28'S, longitude 151°50'E, elevation 500 masl)	
Descriptor	PBR DUBOI <i>Duboisia</i> (<i>Duboisia</i>)	
Period	1 February 2017 – 6 December 2018	
Conditions	Cuttings prepared for vegetative propagation in early Feb 2017; planted in the field in early Sep 2017 on a red volcanic (krasnozem or ferrosol) soil under rain-grown (i.e. dryland) conditions and allowed to develop as uncut trees until final evaluation in Dec 2018. CK88 fertiliser blend (N:P:K:S = 15.1:4.4:11.5:13.6) applied at 100 kg/ha after planting in Jan 2018. Sprayed with carbaryl as required to control flea beetles and lepidopterous larvae.	
Trial Design	6 plants of each of 9 cultivars ('H22', 'A6', 'U3', '11-15-086', '11-13-055', 'Boon 2', 'Green', 'Hansen', 'Slinger') arranged in 6 randomised blocks in single rows 4.25 m apart; 1.8 m between plants in the row.	
Measurements	Leaf length and width (six mature leaves per plant sampled from a strongly growing lateral branch) measured 26 Nov - 5 Dec 2018; analyses of variance (ANOVAs) conducted with Genstat Release 12; differences significant at the 1% level quantified using Fisher's protected LSDs. Botanical characteristics completed as per PBR DUBOI descriptor and photographs taken on 6 Dec 2018.	
RHS Chart - edition	2015 (6th edition)	
Origin and Breeding		
Controlled pollination: During the period 2010-13, multiple crosses were made between the <i>Duboisia</i> hybrid clones 'Boon2' and 'Green', either by manually crossing plants grown in pots or by allowing pairs of the self-incompatible parent plants grown together in isolation to cross naturally. The resultant seedlings were tested for their levels of scopolamine and evaluated for persistence and their general agronomic suitability under commercial production. The final selection of 'H22' was based on its high level of scopolamine, dense foliage, and persistence under repeated harvesting. Breeder: Bruce Underwood (Kingaroy, QLD).		
Choice of Comparators Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge		
Organ/Plant Part	Context	State of Expression in Group of Varieties
Leaf	length of mature leaf	narrow - medium
Leaf	curvature of transverse axis	medium
Leaf	anthocyanin colouration of petiole	absent or very weak

Leaf	attitude	erect or semi-erect		
Most Similar Varieties of Common Knowledge identified (VCK)				
Name	Comments			
'Boon 2'	Parent of 'H22'; current industry standard cultivar			
'Green'	Parent of 'H22'			
Varieties of Common Knowledge identified and subsequently excluded				
Variety	Distinguishing Characteristics	State of Expression in Candidate Variety	State of Expression in Comparator Variety	Comments
'A6'	Leaf curvature of transverse axis	weak to medium	medium to strong	Application No. 2018/331; accepted
'U3'	Leaf curvature of transverse axis	weak to medium	very weak to weak	Application No. 2018/332; accepted
'11-15-086'	Leaf length of mature leaf	medium	very long	Application No. 2018/335; accepted
'11-15-086'	Leaf anthocyanin colouration of petiole	absent or very weak	weak to medium	
'11-13-055'	Leaf length of mature leaf	medium	long to very long	Application No. 2018/334; accepted
'11-13-055'	Leaf anthocyanin colouration of petiole	absent or very weak	medium to strong	
'11-13-055'	Leaf attitude	semi-erect	horizontal	
'Slinger'	Leaf length of mature leaf	medium	very long	
'Slinger'	Leaf anthocyanin colouration of petiole	absent or very weak	weak	
'Slinger'	Leaf attitude	semi-erect	pendulous	
'Hansen'	Leaf attitude	semi-erect	pendulous	

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with X.

Organ/Plant Part: Context	'H22'	'Boon 2'	'Green'
<input checked="" type="checkbox"/> Plant: growth habit	upright	upright	semi-upright
<input checked="" type="checkbox"/> Plant: density	medium to dense	sparse to medium	sparse
<input checked="" type="checkbox"/> Plant: height	medium	medium to tall	very short to short
<input type="checkbox"/> Plant: width	medium	narrow to medium	medium

<input checked="" type="checkbox"/> Stem: anthocyanin colouration	weak to medium	weak to medium	very weak to weak
<input type="checkbox"/> Stem: corkiness of bark on lower main stem	medium	weak to medium	medium
<input checked="" type="checkbox"/> Stem: attitude of branches	semi-erect	semi-erect	medium
<input checked="" type="checkbox"/> Stem: length of internode	medium	short	short to medium
<input type="checkbox"/> Stem: diameter of internode	medium	medium	medium
<input type="checkbox"/> Stem: pubescence of young stem	present	present	present
<input type="checkbox"/> Leaf: length of mature leaf	medium	medium	short to medium
<input type="checkbox"/> Leaf: width of mature leaf	medium	medium	narrow to medium
<input type="checkbox"/> Leaf: length of petiole (One-third down from tip of strong side branch)	very short	very short	very short
<input type="checkbox"/> Leaf: anthocyanin colouration of petiole	absent or very weak	absent or very weak	absent or very weak
<input checked="" type="checkbox"/> Leaf: shape of blade	elliptic	obovate	elliptic
<input type="checkbox"/> Leaf: shape of apex	acute	acute	acute
<input type="checkbox"/> Leaf: shape of base	attenuate	attenuate	attenuate
<input type="checkbox"/> Leaf: width relative to length	broad	broad	medium
<input type="checkbox"/> Leaf: attitude	semi-erect	semi-erect	semi-erect
<input checked="" type="checkbox"/> Leaf: curvature of longitudinal axis	flat	weakly incurved	flat
<input type="checkbox"/> Leaf: curvature of transverse axis	medium	weak to medium	weak to medium
<input type="checkbox"/> Leaf: undulation of margins	weak	weak	weak
<input type="checkbox"/> Leaf: reflexing of margins	very weak to weak	absent or very weak	absent or very weak
<input checked="" type="checkbox"/> Leaf: thickness of leaf	medium	medium	thick
<input checked="" type="checkbox"/> Leaf: glaucosity	strong	medium	strong
<input type="checkbox"/> Leaf: hairiness of young leaves	present	present	present
<input type="checkbox"/> Leaf: colours of lower surface relative to upper surface	same	same	same
<input type="checkbox"/> Leaf: colour of upper surface (RHS)	146A	146A	146A
<input type="checkbox"/> Leaf: prominence of veins on leaf	medium	medium	medium
<input type="checkbox"/> Flower: floriferousness	medium	medium to strong	medium

Statistical Table			
Organ/Plant Part: Context (mm)	'H22'	'Boon 2'	'Green'
<input type="checkbox"/> Leaf: Length of mature leaf			
Mean	93.57	96.66	92.02
Std. Deviation	7.55	8.82	6.63
Lsd/sig	9.36	ns	ns
<input type="checkbox"/> Leaf: Width of mature leaf (mm)			
Mean	23.14	23.14	21.26

Std. Deviation	2.34	2.80	2.22
Lsd/sig	3.03	ns	ns
<input type="checkbox"/> Leaf: Length:width ratio of mature leaf			
Mean	4.07	4.22	4.36
Std. Deviation	0.40	0.55	0.37
Lsd/sig	0.43	ns	ns

Prior Applications and Sales:

Nil

Description: **D.S. Loch** (Alexandra Hills, QLD) & **I. Haak** (Crawford, QLD)

Details of Application		
Application Number	2018/332	
Variety Name	'U3'	
Genus Species	<i>Duboisia</i> hybrid	
Common Name	Duboisia	
Accepted Date	05 Dec 2018	
Applicant	G Crumpton & Sons & Co Pty Ltd, Crawford, QLD 4610	
Qualified Person	Dr Donald S. Loch	
Details of Comparative Trial		
Location	Memerambi, QLD, Australia (Latitude 26°28'S, longitude 151°50'E, elevation 500 masl)	
Descriptor	PBR DUBOI Duboisia (Duboisia)	
Period	1 February 2017 – 6 December 2018	
Conditions	Cuttings prepared for vegetative propagation in early Feb 2017; planted in the field in early Sep 2017 on a red volcanic (krasnozem or ferrosol) soil under rain-grown (i.e. dryland) conditions and allowed to develop as uncut trees until final evaluation in Dec 2018. CK88 fertiliser blend (N:P:K:S = 15.1:4.4:11.5:13.6) applied at 100 kg/ha after planting in Jan 2018. Sprayed with carbaryl as required to control flea beetles and lepidopterous larvae.	
Trial Design	6 plants of each of 9 cultivars ('U3', 'A6', 'H22', '11-15-086', '11-13-055', 'Green', 'Hansen', 'Boon 2', 'Slinger') arranged in 6 randomised blocks in single rows 4.25 m apart; 1.8 m between plants in the row.	
Measurements	Leaf length and width (six mature leaves per plant sampled from a strongly growing lateral branch) measured 26 Nov - 5 Dec 2018; analyses of variance (ANOVAs) conducted with Genstat Release 12; differences significant at the 1% level quantified using Fisher's protected LSDs. Botanical characteristics completed as per PBR DUBOI descriptor and photographs taken on 6 Dec 2018.	
RHS Chart - edition	2015 (6th edition)	
Origin and Breeding		
Controlled pollination: During the period 2010-13, multiple crosses were made between the <i>Duboisia</i> hybrid clones 'Hansen' and 'Green', either by manually crossing plants grown in pots or by allowing pairs of the self-incompatible parent plants grown together in isolation to cross naturally. The resultant seedlings were tested for their levels of scopolamine and evaluated for persistence and their general agronomic suitability under commercial production. The final selection of 'U3' was based on its high level of scopolamine, dense foliage, and persistence under repeated harvesting. Breeder: Bruce Underwood (Kingaroy, QLD).		
Choice of Comparators Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge		
Organ/Plant Part	Context	State of Expression in Group of Varieties
Leaf	anthocyanin colouration	absent or very weak

		of petiole			
Leaf		curvature of transverse axis	very weak - weak		
Leaf		attitude	erect or semi-erect		
Most Similar Varieties of Common Knowledge identified (VCK)					
Name		Comments			
'Green'		parent of 'U3'			
'Hansen'		parent of 'U3'			
Varieties of Common Knowledge identified and subsequently excluded					
Variety	Distinguishing Characteristics		State of Expression in Candidate Variety	State of Expression in Comparator Variety	Comments
'A6'	Leaf	curvature of transverse axis	very weak to weak	medium to strong	Application No. 2018/331; accepted
'H22'	Leaf	curvature of transverse axis	very weak to weak	weak to medium	Application No. 2018/333; accepted
'11-15-086'	Leaf	length of mature leaf	medium	very long	Application No. 2018/335; accepted
'11-15-086'	Leaf	anthocyanin colouration of petiole	absent or very weak	weak to medium	
'11-13-055'	Leaf	length of mature leaf	medium	long to very long	Application No. 2018/334; accepted
'11-13-055'	Leaf	anthocyanin colouration of petiole	absent or very weak	medium to strong	
'11-13-055'	Leaf	attitude	semi-erect	horizontal	
'Boon 2'	Leaf	curvature of transverse axis	very weak to weak	weak to medium	Current industry standard cultivar
'Slinger'	Leaf	length of mature leaf	medium	very long	
'Slinger'	Leaf	anthocyanin colouration of petiole	absent or very weak	weak	
'Slinger'	Leaf	attitude	semi-erect	pendulous	

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with X.

Organ/Plant Part: Context	'U3'	'Green'	'Hansen'
<input checked="" type="checkbox"/> Plant: growth habit	upright	semi-upright	semi-upright
<input checked="" type="checkbox"/> Plant: density	medium to dense	sparse	sparse
<input checked="" type="checkbox"/> Plant: height	medium	short	tall

<input type="checkbox"/> Plant: width	narrow to medium	medium	medium
<input checked="" type="checkbox"/> Stem: anthocyanin colouration	absent or very weak	very weak to weak	strong
<input checked="" type="checkbox"/> Stem: corkiness of bark on lower main stem	medium	medium	weak
<input checked="" type="checkbox"/> Stem: attitude of branches	semi-erect	medium	medium
<input type="checkbox"/> Stem: length of internode	short	short to medium	short
<input type="checkbox"/> Stem: diameter of internode	medium	medium	medium
<input type="checkbox"/> Stem: pubescence of young stem	present	present	present
<input checked="" type="checkbox"/> Leaf: length of mature leaf	medium	short to medium	long
<input checked="" type="checkbox"/> Leaf: width of mature leaf	narrow	narrow to medium	broad
<input checked="" type="checkbox"/> Leaf: length of petiole (One-third down from tip of strong side branch)	very short	very short	short
<input type="checkbox"/> Leaf: anthocyanin colouration of petiole	absent or very weak	absent or very weak	very weak to weak
<input type="checkbox"/> Leaf: shape of blade	elliptic	elliptic	elliptic
<input type="checkbox"/> Leaf: shape of apex	acute	acute	acute
<input type="checkbox"/> Leaf: shape of base	attenuate	attenuate	attenuate
<input checked="" type="checkbox"/> Leaf: width relative to length	narrow	medium	broad
<input checked="" type="checkbox"/> Leaf: attitude	semi-erect	semi-erect	pendulous
<input checked="" type="checkbox"/> Leaf: curvature of longitudinal axis	flat	flat	weakly recurved
<input checked="" type="checkbox"/> Leaf: curvature of transverse axis	very weak to weak	weak to medium	weak
<input type="checkbox"/> Leaf: undulation of margins	weak	weak	weak to medium
<input type="checkbox"/> Leaf: reflexing of margins	very weak to weak	absent or very weak	absent or very weak
<input checked="" type="checkbox"/> Leaf: thickness of leaf	medium	thick	thick
<input checked="" type="checkbox"/> Leaf: glaucosity	medium	strong	medium
<input type="checkbox"/> Leaf: hairiness of young leaves	present	present	present
<input type="checkbox"/> Leaf: colours of lower surface relative to upper surface	same	same	same
<input checked="" type="checkbox"/> Leaf: colour of upper surface (RHS)	146A	146A	N137B
<input checked="" type="checkbox"/> Leaf: prominence of veins on leaf	strong	medium	medium
<input checked="" type="checkbox"/> Flower: floriferousness	medium	medium	weak

Statistical Table			
Organ/Plant Part: Context	'U3'	'Green'	'Hansen'
☒ Leaf: Length of mature leaf (mm)			
Mean	95.31	92.02	110.03
Std. Deviation	8.12	6.63	13.99
LSD/sig	9.36	ns	P≤0.01
☒ Leaf: Width of mature leaf (mm)			
Mean	19.95	21.26	27.89
Std. Deviation	2.03	2.22	12.00
LSD/sig	3.03	ns	P≤0.01
☒ Leaf: Length:width ratio of mature leaf			
Mean	4.80	4.36	4.19
Std. Deviation	0.40	0.37	0.64
LSD/sig	0.43	ns	P≤0.01

Prior Applications and Sales:

Nil

Description: **D.S. Loch** (Alexandra Hills, QLD) & **I. Haak** (Crawford, QLD)

Details of Application		
Application Number	'2018/335'	
Variety Name	'11-15-086'	
Genus Species	<i>Duboisia</i> hybrid	
Common Name	Duboisia	
Accepted Date	05 Dec 2018	
Applicant	G Crumpton & Sons & Co Pty Ltd, Crawford, QLD, 4610	
Qualified Person	Dr Donald S. Loch	
Details of Comparative Trial		
Location	Memerambi, QLD, Australia (Latitude 26°28'S, longitude 151°50'E, elevation 500 masl)	
Descriptor	PBR DUBOI Duboisia (Duboisia)	
Period	1 February 2017 – 6 December 2018	
Conditions	Cuttings prepared for vegetative propagation in early Feb 2017; planted in the field in early Sep 2017 on a red volcanic (krasnozem or ferrosol) soil under rain-grown (i.e. dryland) conditions and allowed to develop as uncut trees until final evaluation in Dec 2018. CK88 fertiliser blend (N:P:K:S = 15.1:4.4:11.5:13.6) applied at 100 kg/ha after planting in Jan 2018. Sprayed with carbaryl as required to control flea beetles and lepidopterous larvae.	
Trial Design	6 plants of each of 9 cultivars ('11-15-086', 'A6', 'H22', 'U3', '11-13-055', 'Boon 2', 'Green', 'Hansen', 'Slinger') arranged in 6 randomised blocks in single rows 4.25 m apart; 1.8 m between plants in the row.	
Measurements	Leaf length and width (six mature leaves per plant sampled from a strongly growing lateral branch) measured 26 Nov - 5 Dec 2018; analyses of variance (ANOVAs) conducted with Genstat Release 12; differences significant at the 1% level quantified using Fisher's protected LSDs. Botanical characteristics completed as per PBR DUBOI descriptor and photographs taken on 6 Dec 2018.	
RHS Chart - edition	2015 (6th edition)	
Origin and Breeding		
Controlled pollination: During the period 2010-13, multiple crosses were made between the <i>Duboisia</i> hybrid clones 'Slinger' and 'Hansen', either by manually crossing plants grown in pots or by allowing pairs of the self-incompatible parent plants grown together in isolation to cross naturally. The resultant seedlings were tested for their levels of scopolamine and evaluated for persistence and their general agronomic suitability under commercial production. The final selection of '11-15-086' was based on its high level of scopolamine, dense foliage, and persistence under repeated harvesting. Breeder: Bruce Underwood (Kingaroy, QLD).		
Choice of Comparators Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge		
Organ/Plant Part	Context	State of Expression in Group of Varieties
Leaf	length of mature leaf	long - very long
Leaf	curvature of transverse axis	weak
Leaf	anthocyanin colouration of petiole	weak - medium

Most Similar Varieties of Common Knowledge identified (VCK)						
Name			Comments			
'Slinger'			parent of '11-15-086'			
'Hansen'			parent of '11-15-086'			
'11-13-055'			application no. 2018/334; accepted			
Varieties of Common Knowledge identified and subsequently excluded						
Variety	Distinguishing Characteristics		State of Expression in Candidate Variety	State of Expression in Comparator Variety	Comments	
'A6'	Leaf	length of mature leaf	very long	medium	Application No. 2018/331; accepted	
'A6'	Leaf	curvature of transverse axis	weak	medium to strong		
'A6'	Leaf	anthocyanin colouration of petiole	weak to medium	absent or very weak		
'H22'	Leaf	length of mature leaf	very long	medium	Application No. 2018/333; accepted	
'H22'	Leaf	anthocyanin colouration of petiole	weak to medium	absent or very weak		
'U3'	Leaf	length of mature leaf	very long	medium	Application No. 2018/332; accepted	
'U3'	Leaf	anthocyanin colouration of petiole	weak to medium	absent or very weak		
'Boon 2'	Leaf	length of mature leaf	very long	medium	Current industry standard cultivar	
'Boon 2'	Leaf	anthocyanin colouration of petiole	weak to medium	absent or very weak		
'Green'	Leaf	length of mature leaf	very long	medium		
'Green'	Leaf	anthocyanin colouration of petiole	weak to medium	absent or very weak		

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with X.

Organ/Plant Part: Context	'11-15-086'	'Slinger'	'11-13-055'	'Hansen'
<input type="checkbox"/> Plant: growth habit	semi-upright	upright	semi-upright	semi-upright
<input checked="" type="checkbox"/> Plant: density	medium	dense	medium to dense	sparse
<input checked="" type="checkbox"/> Plant: height	medium	tall	tall	tall
<input checked="" type="checkbox"/> Plant: width	wide	medium to	medium to	medium

		wide	wide	
<input type="checkbox"/> Stem: anthocyanin colouration	strong	medium to strong	strong to very strong	strong
<input type="checkbox"/> Stem: corkiness of bark on lower main stem	medium to strong	medium	medium	weak
<input type="checkbox"/> Stem: attitude of branches	medium	medium	medium	medium
<input checked="" type="checkbox"/> Stem: length of internode	very short to short	short	medium	short
<input checked="" type="checkbox"/> Stem: diameter of internode	medium	medium to broad	broad	medium
<input type="checkbox"/> Stem: pubescence of young stem	present	present	present	present
<input type="checkbox"/> Leaf: length of mature leaf	very long	very long	long to very long	long
<input checked="" type="checkbox"/> Leaf: width of mature leaf	broad to very broad	broad	medium	broad
<input type="checkbox"/> Leaf: length of petiole (One-third down from tip of strong side branch)	short	short	short	short
<input checked="" type="checkbox"/> Leaf: anthocyanin colouration of petiole	weak to medium	weak	medium to strong	very weak to weak
<input checked="" type="checkbox"/> Leaf: shape of blade	elliptic	obovate	elliptic	elliptic
<input type="checkbox"/> Leaf: shape of apex	acute	acute	acute	acute
<input type="checkbox"/> Leaf: shape of base	attenuate	attenuate	attenuate	attenuate
<input checked="" type="checkbox"/> Leaf: width relative to length	broad	medium	narrow	broad
<input checked="" type="checkbox"/> Leaf: attitude	semi-erect	pendulous	horizontal	pendulous
<input checked="" type="checkbox"/> Leaf: curvature of longitudinal axis	flat	recurved to weakly recurved	flat	weakly recurved
<input type="checkbox"/> Leaf: curvature of transverse axis	weak	weak	weak	weak
<input type="checkbox"/> Leaf: undulation of margins	weak	weak	weak	weak to medium
<input type="checkbox"/> Leaf: reflexing of margins	very weak to weak	absent or very weak	absent or very weak	absent or very weak
<input checked="" type="checkbox"/> Leaf: thickness of leaf	medium	medium	medium	thick
<input checked="" type="checkbox"/> Leaf: glaucosity	strong	medium	strong	medium
<input type="checkbox"/> Leaf: hairiness of young leaves	present	present	present	present
<input checked="" type="checkbox"/> Leaf: colours of lower surface relative to upper surface	same	same	same	same
<input checked="" type="checkbox"/> Leaf: colour of upper surface (RHS)	N137B	146A	146A	N137B
<input checked="" type="checkbox"/> Leaf: prominence of veins on leaf	medium	strong	weak	medium
<input checked="" type="checkbox"/> Flower: floriferousness	weak to medium	strong	weak	weak

Statistical Table				
Organ/Plant Part: Context	'11-15-086'	'Slinger'	'11-13-055'	'Hansen'
<input checked="" type="checkbox"/> Leaf: Length of mature leaf (mm)				
Mean	119.16	121.05	115.21	110.03
Std. Deviation	12.51	10.30	11.88	13.99
LSD/sig	9.36	ns	ns	P<=0.01
<input checked="" type="checkbox"/> Leaf: Length of mature leaf (mm)				
Mean	28.48	27.11	24.07	27.89
Std. Deviation	3.43	2.68	3.04	12.00
LSD/sig	3.03	ns	P<=0.01	ns
<input checked="" type="checkbox"/> Leaf: Length:width ratio of mature leaf				
Mean	4.21	4.49	4.81	4.19
Std. Deviation	0.38	0.38	0.39	0.64
LSD/sig	0.43	ns	P<=0.01	ns

Prior Applications and Sales:

Nil

Description: **D.S. Loch** (Alexandra Hills, QLD) & **I. Haak** (Crawford, QLD)

Details of Application		
Application Number	2018/026	
Variety Name	'GR120013'	
Genus Species	<i>Grevillea obtusifolia</i>	
Common Name	Grevillea	
Synonym	Gin Gin Jewel	
Accepted Date	28 Feb 2018	
Applicant	Ian Shimmen, Mount Evelyn, VIC	
Qualified Person	Mark Lunghusen	
Details of Comparative Trial		
Location	Mt Evelyn, VIC	
Descriptor	TG/325/1 Grevillea	
Period	Summer - Autumn 2019	
Conditions	Plants were grown in commercially supplied pinebark and coir based potting media. Plants were fertilised with slow release fertiliser and overhead watered as required. Plants grown in pots on benches above the ground in an unheated plastic covered greenhouse.	
Trial Design	10 plants in block design	
Measurements	Taken from middle of third stem	
RHS Chart - edition	Fifth Edition	
Origin and Breeding		
Open pollination followed by seedling selection: Seed was collected from the parent variety <i>Grevillea</i> 'Ruby Gem' on 31/03/2011. The seed was sown, germinated and grown on, the candidate variety was selected from the resultant seedlings based on habit and flower colour. Cuttings were taken from the seedling and grown on to determine uniformity and stability. Breeder Ian Shimmen, Mt Evelyn, VIC.		
Choice of Comparators Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge		
Organ/Plant Part	Context	State of Expression in Group of Varieties
Plant	habit	prostrate to spreading
Inflorescence	predominant colour	red
Most Similar Varieties of Common Knowledge identified (VCK)		
Name	Comments	
'Gin Gin Gem'		

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with a tick.

Organ/Plant Part: Context	'GR120013'	'Gin Gin Gem'
<input type="checkbox"/> Plant: habit	prostrate	spreading
<input checked="" type="checkbox"/> Plant: height	very short to short	short to medium

<input type="checkbox"/>	Plant: density of foliage	dense	medium
<input type="checkbox"/>	Young stem: colour	yellow green	yellow green
<input checked="" type="checkbox"/>	Stem: colour	green	purple
<input type="checkbox"/>	Leaf: attitude relative to stem	semi-erect	semi-erect
<input type="checkbox"/>	Leaf: type of division of blade	entire	entire
<input checked="" type="checkbox"/>	Leaf: blade shape	obovate	linear
<input type="checkbox"/>	Leaf: shape of apex	truncate	truncate
<input type="checkbox"/>	Leaf: undulation of margin	very weak	very weak
<input type="checkbox"/>	Leaf: profile in cross section	angularly revolute to the mid vein	angularly revolute to the mid vein
<input type="checkbox"/>	Leaf: intensity of green colour of upper side	medium	light
<input type="checkbox"/>	Leaf: colour of lower side	light green	light green
<input type="checkbox"/>	Leaf: hairiness of upper side	weak	weak
<input type="checkbox"/>	Leaf: hairiness of lower side	weak	weak
<input type="checkbox"/>	Leaf: colour of hairs on lower side	white	white
<input type="checkbox"/>	Leaf: length of petiole	very short	very short

Statistical Table

Organ/Plant Part: Context	'GR120013'	'Gin Gin Gem'
<input checked="" type="checkbox"/> Leaf: width (mm)		
Mean	7.16	3.85
Std. Deviation	1.10	0.31
LSD/sig	1.03	

Prior Applications: Nil.

Prior Sales: First sold in Australia in March 2017.

Description: **Mark Lunghusen**, Wonga Park, VIC.

Details of Application	
Application Number	2019/113
Variety Name	'Sunchaser'
Genus Species	<i>Triticum aestivum</i>
Common Name	Wheat
Synonym	Nil
Accepted Date	08 Jul 2019
Applicant	Australian Grain Technologies Pty Ltd, Roseworthy, SA
Agent	N/A
Qualified Person	Andrew Cecil
Details of Comparative Trial	
Location	Roseworthy, South Australia
Descriptor	UPOV TG/3/12
Period	2019
Conditions	A comparative trial was sown on the Roseworthy Campus of the University of Adelaide. In the previous year the trial area carried a Lentil crop which was harvested for grain. Pre-seeding herbicides Sakura (118g/ha), Roundup Ultra (1.5 l/ha), Sharpen (20 g/ha), Avadex (2.0 l/ha) and Hasten (1l/100l) together with an insecticide Lemat (120 ml/ha) were applied prior to seeding. The trial was sown on 14th May 2019 and 90kg MAP + 2.5% zinc fertiliser was applied with the seed. The season was generally favourable for growth of the crop and of weeds and disease. The trial was sprayed post emergence on 2nd July with Velocity (670mls), Axial (200mls), Lontrel (40mls) and Adigor (500mls/100L) to control weeds. On the 11 th of July and the 16 th of August 20 units of liquid N fertiliser was applied. The trial was sprayed to control fungal pathogens on 21 st July using Aviator Xtra @ 500mls. The season finished early with limited spring rainfall. The trial was harvested on 12 th November 2019.
Trial Design	Randomised block design of 3 blocks and 24 entries consisting of comparators and potential candidates. Sown in 24 ranges of 3 plots wide, block 1 being in ranges 1 to 8 and so on. Plots were 1.25m wide (5 rows) and 3.2m long. There were approximately 1000 plants per plot. Qualitative characters were recorded for every replicate at the appropriate growth stage.
Measurements	Quantitative characters were measured on 10 randomly sampled plants from each replicate, the samples being taken at the appropriate growth stage or after maturity. Statistical analyses were completed using "R" software.
RHS Chart - edition	N/A

Origin and Breeding
Controlled pollination: The cross (SUN626B/B1289F) was made in AGT crossing block at Plant Breeding Institute (PBI), Narrabri in 2008. F1 seed was selfed in Roseworthy summer nursery in 2008/09 and the F2 population were grown in the field at PBI Narrabri and bulk harvested in 2009. The F3 population was space planted at PBI, Narrabri in 2010 and single ears were harvested from selected plants based on stripe rust resistances and plant type. All ears then bulk threshed and was grown over the summer of 2010/11 at the PBC Horsham. The F5 population was space planted at PBI, Narrabri where single plants were selected based on maturity and plant type in Spring 2011. Selections were evaluated for milling quality, grain yield and disease resistances including three rusts, crown rot and RLN (<i>P. thornei</i>) from 2011 to 2017 in AGT's agronomic, disease and quality testing network across New South Wales, Queensland, Victoria, South Australia and Western Australia. In 2018 SUN843E entered NVT. Seed purification began in 2017 and this seed is used for commercial seed multiplication. Breeder - Dr Meiqin Lu and Mr Thomas Kapcejevs, Australian Grain Technologies Pty Ltd, 20 Leitch Rd Roseworthy SA 5371

Choice of Comparators Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge					
Organ/Plant Part	Context		State of Expression in Group of Varieties		
Plant	growth habit		erect to semi erect		
Plant	frequency of recurved leaves		low to medium		
Flag Leaf	anthocyanin colouration of auricles		absent to weak		
Flag Leaf	glaucosity of sheath		weak		
Flag Leaf	glaucosity of blade		weak		
Ear	glaucosity		weak		
Ear	colour		white		
Ear	shape in profile		tapering		
Straw	pith in cross section		thin		
Most Similar Varieties of Common Knowledge identified (VCK)					
Name		Comments			
'Suntop'		matches all grouping characteristics			
'Janz'		matches all grouping characteristics			
'Longreach Spitfire'		matches all grouping characteristics			
Varieties of Common Knowledge identified and subsequently excluded					
Variety	Distinguishing Characteristics		State of Expression in Candidate Variety	State of Expression in Comparator Variety	Comments
'Longreach Lancer'	Plant	growth habit	erect to semi erect	intermediate	excluded from side by side comparison
	Plant	frequency of recurved leaf	low to medium	very high	
'Longreach Reliant'	Plant	height	medium	tall	excluded from side by side comparison

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with X.

Organ/Plant Part: Context	‘Sunchaser’	‘Janz’	‘Longreach Spitfire’	‘Suntop’
<input type="checkbox"/> Seed: colour	white	white	white	white
<input type="checkbox"/> *Plant: growth habit	erect to semi erect	semi erect	erect to semi erect	semi erect
<input type="checkbox"/> Plant: frequency of plants with recurved flag leaves	low to medium	low to medium	low to medium	low to medium
<input type="checkbox"/> Flag leaf: anthocyanin colouration of auricles	absent or weak	absent or weak	absent or weak	absent or weak
<input type="checkbox"/> *Flag leaf: glaucosity of sheath	weak	weak to medium	weak	weak to medium
<input type="checkbox"/> Flag leaf: glaucosity of blade	weak	weak	weak	weak
<input type="checkbox"/> *Ear: glaucosity	weak	weak	weak	weak
<input type="checkbox"/> Culm: glaucosity of neck	weak	weak	weak	weak to medium
<input type="checkbox"/> *Lower glume: hairiness on external surface	absent	absent	absent	absent
<input type="checkbox"/> *Straw: pith in cross section	thin	thin	thin	thin
<input checked="" type="checkbox"/> *Ear: density	lax	medium to dense	lax to medium	medium
<input type="checkbox"/> *Ear: scurs or awns	awns present	awns present	awns present	awns present
<input type="checkbox"/> *Ear: length of scurs or awns	short	medium	short to medium	short to medium
<input type="checkbox"/> *Ear: colour	white	white	white	white
<input type="checkbox"/> Ear: shape in profile	tapering	tapering	tapering	tapering
<input type="checkbox"/> Lower glume: shoulder width	narrow	narrow	medium	narrow to medium
<input type="checkbox"/> Lower glume: shoulder shape	slightly elevated	slightly elevated to strongly elevated	slightly sloping	horizontal to slightly elevated
<input type="checkbox"/> Lower glume: length of beak	long	long	medium to long	long
<input type="checkbox"/> *Lower glume: shape of beak	straight to slightly curved	slightly curved	slightly curved	slightly curved
<input type="checkbox"/> Lower glume: area of hairiness on internal surface	very small	very small	very small	very small
<input type="checkbox"/> *Seasonal : type	spring type	spring type	spring type	spring type

Characteristics Additional to the Descriptor/TG				
Organ/Plant Part: Context	‘Sunchaser’	‘Janz’	‘Longreach Spitfire’	‘Suntop’
<input type="checkbox"/> Flag Leaf: Leaf rust (Lr) pathotype 104-2,3,6,(7)	resistant	resistant	susceptible	resistant to moderately resistant
<input type="checkbox"/> Flag Leaf: Leaf rust (Lr) pathotype 104-1,2,3,(6),(7),11,13	moderately resistant	moderately susceptible to susceptible	susceptible to very susceptible	moderately resistant
Statistical Table				
Organ/Plant Part: Context	‘Sunchaser’	‘Janz’	‘Longreach Spitfire’	‘Suntop’
<input checked="" type="checkbox"/> Ear: length (mm)				
Mean	91.70	90.60	108.10	106.55
Std. Deviation	1.69	3.40	12.02	0.35
LSD/sig	12.58	ns	P≤0.01	P≤0.01
<input checked="" type="checkbox"/> Plant: days to heading (Julian Days)				
Mean	241.10	248.00	238.00	248.00
Std. Deviation	2.12	1.00	1.00	1.00
LSD/sig	2.78	P≤0.01	P≤0.01	P≤0.01
<input type="checkbox"/> Plant: height (cm)				
Mean	83.10	77.50	80.00	85.05
Std. Deviation	3.67	0.98	1.69	1.34
LSD/sig	6.23	ns	ns	ns

Prior Applications and Sale

Nil.

Description: **Andrew Cecil**, Australian Grain Technologies Pty Ltd, Roseworthy, SA.

Details of Application					
Application Number	2007/116				
Variety Name	'Sweet Ruby'				
Genus Species	<i>Malus domestica</i>				
Common Name	Apple				
Accepted Date	21 May 2007				
Applicant	Dane Randall Griggs, Brett Andrew Griggs, Huonville, TAS				
Qualified Person	Garry Langford				
Details of Comparative Trial					
Location	Huonville, TAS				
Descriptor	TG/14/9				
Period	trial planted in 2009 observed in 2013				
Conditions	The trial is planted alongside and existing apple orchard block in a temperate apple growing region in Tasmania				
Trial Design	3 replications x 5 trees of each of the the comparators plus the candidate planted in single row				
Measurements	Trees are planted on a V trellis approximately 1 metre apart				
RHS Chart - edition	2001				
Origin and Breeding					
Spontaneous mutation: A highly coloured limb sport was observed in an orchard of 'Jonagold' in March 1999. The limb was marked and observed again in March 2000 and fruit was again observed to be highly coloured when compared to 'Jonagold'. July 2001 one tree grafted from wood of the original limb. 2002 Ten trees grafted from the original limb. 2003 thirty trees grafted from the 1st generation trees. 2004, 05 & 06 additional trees produced from the 1st generation trees as 2nd generation trees to a total of 700 trees. The 1st generation trees have continued true to type as all have fruited during the 2007 season. 2nd generation trees grafted in 2004 also fruit in 2007 and are true to type. Breeders: Dane Randall Griggs, Brett Andrew Griggs, Huonville, TAS					
Choice of Comparators Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge					
Organ/Plant Part	Context	State of Expression in Group of Varieties			
Fruit	general shape	globose			
Time of	eating maturity	medium			
Most Similar Varieties of Common Knowledge identified (VCK)					
Name		Comments			
'Rubinstar'					
Varieties of Common Knowledge identified and subsequently excluded					
Variety	Distinguishing Characteristics		State of Expression in Candidate Variety	State of Expression in Comparator Variety	Comments
'Fiero'	Fruit	maturity	mid to late	early	somewhat similar over colour but it matures more

					than 4 weeks earlier.
'Red Jonaprince'	Fruit	over colour	strong	medium	at the time of planting the trial it was not possible to source this variety for inclusion.

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with X.

Organ/Plant Part: Context	'Sweet Ruby'	'Rubinstar'
<input type="checkbox"/> Tree: vigour	strong	strong
<input type="checkbox"/> *Tree: type	ramified	ramified
<input type="checkbox"/> *Tree: habit (varieties with ramified tree type only)	spreading	spreading
<input type="checkbox"/> Tree: type of bearing	on spurs and long shoots	on spurs and long shoots
<input type="checkbox"/> One-year-old shoot: thickness	medium	medium to thick
<input type="checkbox"/> *One-year-old shoot: length of internode	medium	medium
<input type="checkbox"/> One-year-old shoot: colour on sunny side	dark brown	medium brown
<input type="checkbox"/> One-year-old shoot: pubescence	medium	medium
<input type="checkbox"/> *One-year-old shoot: number of lenticels	medium	medium
<input type="checkbox"/> *Leaf blade: attitude in relation to shoot	upwards	upwards
<input type="checkbox"/> *Leaf blade: length	medium	medium
<input type="checkbox"/> *Leaf blade: width	medium	medium
<input type="checkbox"/> *Leaf blade: ratio length/width	medium	medium
<input type="checkbox"/> Leaf blade: intensity of green colour	light to medium	light to medium
<input type="checkbox"/> Leaf blade: incisions of margin	crenate	crenate
<input type="checkbox"/> Leaf blade: pubescence on lower side	medium	absent or weak
<input type="checkbox"/> *Petiole: length	medium	medium
<input type="checkbox"/> Petiole: extent of anthocyanin colouration from base	small	small
<input type="checkbox"/> *Flower: predominant colour at balloon stage	light pink	light pink
<input type="checkbox"/> *Flower: diameter with petals pressed into horizontal position	medium	medium
<input type="checkbox"/> *Flower: arrangement of petals	overlapping	overlapping
<input type="checkbox"/> Flower: position of stigmas relative to anthers	below	below
<input type="checkbox"/> Young fruit: extent of anthocyanin overcolour	medium to large	medium to large
<input type="checkbox"/> *Fruit: size	medium to large	large
<input type="checkbox"/> *Fruit: height	tall	tall
<input type="checkbox"/> *Fruit: diameter	large	large
<input type="checkbox"/> *Fruit: ratio height/diameter	medium to large	medium to large

<input type="checkbox"/>	*Fruit: general shape	globose	globose
<input type="checkbox"/>	Fruit: ribbing	moderate	moderate
<input type="checkbox"/>	Fruit: crowning at calyx end	absent or weak	absent or weak
<input type="checkbox"/>	*Fruit: size of eye	large	large
<input type="checkbox"/>	Fruit: length of sepal	long	long
<input type="checkbox"/>	*Fruit: bloom of skin	moderate	moderate
<input type="checkbox"/>	Fruit: greasiness of skin	absent or weak	absent or weak
<input type="checkbox"/>	*Fruit: ground colour	green	green
<input checked="" type="checkbox"/>	*Fruit: relative area of over colour	large	small to medium
<input checked="" type="checkbox"/>	*Fruit: hue of over colour – with bloom removed	purple red	red
<input type="checkbox"/>	*Fruit: intensity of over colour	dark	dark
<input checked="" type="checkbox"/>	*Fruit: pattern of over colour	solid flush with weakly defined stripes	only stripes (no flush)
<input type="checkbox"/>	*Fruit: width of stripes	medium	medium
<input type="checkbox"/>	*Fruit: area of russet around stalk attachment	absent or small	absent or small
<input type="checkbox"/>	Fruit: area of russet on cheeks	absent or small	absent or small
<input type="checkbox"/>	*Fruit: area of russet around eye basin	absent or small	absent or small
<input type="checkbox"/>	Fruit: number of lenticels	medium	medium
<input type="checkbox"/>	Fruit: size of lenticels	medium to large	medium to large
<input type="checkbox"/>	*Fruit: length of stalk	medium	medium
<input type="checkbox"/>	*Fruit: thickness of stalk	medium	medium
<input type="checkbox"/>	*Fruit: depth of stalk cavity	medium to deep	medium to deep
<input type="checkbox"/>	*Fruit: width of stalk cavity	medium	medium
<input type="checkbox"/>	*Fruit: depth of eye basin	medium to deep	medium to deep
<input type="checkbox"/>	*Fruit: width of eye basin	medium to broad	medium to broad
<input type="checkbox"/>	*Fruit: firmness of flesh	firm	firm
<input type="checkbox"/>	*Fruit: colour of flesh	cream	cream
<input checked="" type="checkbox"/>	*Fruit: aperture of locules	moderately open	fully open
<input type="checkbox"/>	*Time of: beginning of flowering	early to medium	early to medium
<input type="checkbox"/>	Time for: harvest	medium	medium
<input type="checkbox"/>	*Time of: eating maturity	medium	medium

Prior Applications and Sales:

Nil

Description: **Garry Langford**, Grove TAS

Details of Application		
Application Number	2016/092	
Variety Name	'Plumac'	
Genus Species	<i>Malus domestica</i>	
Common Name	Apple	
Synonym		
Accepted Date	08 Jun 2016	
Applicant	Geoffrey Plunkett and Marilyn Plunkett, Motueka, New Zealand	
Agent	Garry Langford, Grove, Tasmania	
Details of Comparative Trial		
Location	Grove, TAS. 7109	
Descriptor	TG14/9	
Period	Trial planted in 2016 and observed in 2019	
Conditions	The Candidate and comparator were planted in 2016 on M26 rootstocks adjacent to a commercial orchard in the Huon Valley in Tasmania. The climate and situation represent an ideal environment for the production of apples.	
Trial Design	There are 10 trees of the candidate alongside 10 trees of the comparator.	
Measurements	measurements were taken in the metric system following UPOV TG	
RHS Chart - edition	2001	
Origin and Breeding		
Open pollination: The candidates was discovered as a chance seedling in 1998 by the applicants in a garden in Upper Moutere, Nelson, New Zealand. The likely parents are Fujii and Braeburn which were growing adjacent to the candidate and having some similar characteristics to these varieties. After initial observation a 2nd generation was produced in 2020 with evaluation conducted between 2003 and 2010. The candidate has continued to produce try to type to the original plant. Breeder: Geoffrey Plunkett.		
Choice of Comparators Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge		
Organ/Plant Part	Context	State of Expression in Group of Varieties
Tree	type	ramified
Tree	habit	upright
Fruit	pattern of over colour	flush, striped and mottled
Fruit	hue of over colour – with bloom removed	red
Most Similar Varieties of Common Knowledge identified (VCK)		
Name	Comments	
'Scifresh'	Similar harvest maturity and appearance of over colour	

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with a tick.

Organ/Plant Part: Context	'Plumac'	'Scifresh'
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<input type="checkbox"/> Tree: vigour	medium to strong	weak to medium
<input type="checkbox"/> *Tree: type	ramified	ramified
<input type="checkbox"/> *Tree: habit (varieties with ramified tree type only)	upright	upright
<input type="checkbox"/> Tree: type of bearing	on spurs and long shoots	on spurs and long shoots
<input type="checkbox"/> One-year-old shoot: thickness	medium	medium to thick
<input type="checkbox"/> *One-year-old shoot: length of internode	medium	medium
<input type="checkbox"/> One-year-old shoot: colour on sunny side	dark brown	dark brown
<input type="checkbox"/> One-year-old shoot: pubescence	medium to strong	medium to strong
<input type="checkbox"/> *One-year-old shoot: number of lenticels	very few to few	few
<input type="checkbox"/> *Leaf blade: attitude in relation to shoot	upwards	upwards
<input type="checkbox"/> *Leaf blade: length	medium	medium
<input type="checkbox"/> *Leaf blade: width	medium	medium
<input type="checkbox"/> *Leaf blade: ratio length/width	medium	medium
<input type="checkbox"/> Leaf blade: intensity of green colour	medium	medium
<input checked="" type="checkbox"/> Leaf blade: incisions of margin	serrate type 1	crenate
<input type="checkbox"/> Leaf blade: pubescence on lower side	medium	absent or weak
<input type="checkbox"/> *Petiole: length	medium	medium
<input type="checkbox"/> Petiole: extent of anthocyanin colouration from base	medium	large
<input type="checkbox"/> *Flower: predominant colour at balloon stage	dark pink	dark pink
<input type="checkbox"/> *Flower: diameter with petals pressed into horizontal position	medium	small to medium
<input type="checkbox"/> *Flower: arrangement of petals	free	free
<input type="checkbox"/> Flower: position of stigmas relative to anthers	above	above
<input type="checkbox"/> Young fruit: extent of anthocyanin overcolour	medium to large	medium
<input type="checkbox"/> *Fruit: size	large	large
<input type="checkbox"/> *Fruit: height	medium	medium to tall
<input type="checkbox"/> *Fruit: diameter	medium to large	medium
<input type="checkbox"/> *Fruit: ratio height/diameter	medium to large	medium
<input checked="" type="checkbox"/> *Fruit: general shape	conic	cylindrical
<input type="checkbox"/> Fruit: ribbing	absent or weak	moderate
<input type="checkbox"/> Fruit: crowning at calyx end	absent or weak	moderate
<input type="checkbox"/> *Fruit: size of eye	medium	small to medium
<input type="checkbox"/> Fruit: length of sepal	medium	medium
<input type="checkbox"/> *Fruit: bloom of skin	absent or weak	absent or weak
<input type="checkbox"/> Fruit: greasiness of skin	moderate	moderate
<input type="checkbox"/> *Fruit: ground colour	yellow	yellow

<input checked="" type="checkbox"/> *Fruit: relative area of over colour	medium	large to very large
<input type="checkbox"/> *Fruit: hue of over colour – with bloom removed	red	red
<input type="checkbox"/> *Fruit: intensity of over colour	light to medium	medium to dark
<input type="checkbox"/> *Fruit: pattern of over colour	flushed, striped and mottled	flushed, striped and mottled
<input type="checkbox"/> *Fruit: width of stripes	medium	medium
<input type="checkbox"/> *Fruit: area of russet around stalk attachment	medium	absent or small
<input type="checkbox"/> Fruit: area of russet on cheeks	absent or small	absent or small
<input type="checkbox"/> *Fruit: area of russet around eye basin	absent or small	absent or small
<input type="checkbox"/> Fruit: number of lenticels	few	few
<input type="checkbox"/> Fruit: size of lenticels	medium	small
<input type="checkbox"/> *Fruit: length of stalk	short to medium	short
<input type="checkbox"/> *Fruit: thickness of stalk	medium	medium to thick
<input type="checkbox"/> *Fruit: depth of stalk cavity	medium	medium to deep
<input type="checkbox"/> *Fruit: width of stalk cavity	medium	medium
<input type="checkbox"/> *Fruit: depth of eye basin	medium	medium
<input type="checkbox"/> *Fruit: width of eye basin	medium	medium
<input type="checkbox"/> *Fruit: firmness of flesh	firm	firm to very firm
<input type="checkbox"/> *Fruit: colour of flesh	yellowish	yellowish
<input type="checkbox"/> *Fruit: aperture of locules	closed or slightly open	moderately open
<input type="checkbox"/> *Time of: beginning of flowering	medium	early to medium
<input type="checkbox"/> Time for: harvest	medium	early to medium
<input type="checkbox"/> *Time of: eating maturity	medium	early to medium

Prior Applications and Sales:

Country	Year	Status	Name Applied
EU	2014	pending	'Plumac'
USA	2011	granted	'Plumac'
New Zealand	2010	granted	'Plumac'
Canada	2016	pending	'Plumac'

First sold in Taiwan on 2nd May 2010

Description: **Garry Langford**, Grove, Tasmania

Details of Application		
Application Number	2018/356	
Variety Name	'EHCP'	
Genus Species	<i>Malus domestica</i>	
Common Name	Apple	
Accepted Date	18 Dec 2018	
Applicant	Fruit Varieties International Pty Ltd, Grove TAS	
Qualified Person	Gordon Brown	
Details of Comparative Trial		
Location	Grove, Tasmania, Australia	
Descriptor	14/9 Apple (Fruit Varieties)	
Period	2016, 2017 & 2018	
Conditions	Trees planted in a high density orchard managed with standard orcharding practices for nutrition, pest and disease control. Orchard surrounded by rabbit and possum proof fencing.	
Trial Design	RCBD with 12 replications of 2 tree plots. The trial contained 15 potential candidates and 8 potential varieties of common knowledge.	
Measurements	All UPOV characters measured in detail on 4 replicates with other replicates being used to visually confirm uniformity. Where possible, physical measurements were taken as well as the UPOV note system.	
RHS Chart - edition	5th	
Origin and Breeding		
Spontaneous mutation: In Early April 2013 a whole tree of 'Cripps Pink' growing on 'MM111' where fruit developed high levels of colour compared to other trees was observed. This high colour was more intense and deeper developing before maturity. On close inspection of the whole tree the lenticels were larger and in smaller numbers on the fruit and on the wood. Budwood was marked and selected for grafting on to 'MM106' stocks in winter 2013 to establish the 1st generation of trees. Further grafting was performed in Spring 2014 with scionwood from the trees grafted in 2013 to establish the 2nd generation of trees and again in Spring 2015 with scionwood from the trees grafted in 2014 to establish the 3rd Generation of trees. Trees from the 1st, 2nd and 3rd generations have all produced fruit similar to fruit on the parent tree observed in 2013, with higher levels of Pink Red colour, larger and fewer lenticels on fruit and larger and fewer lenticels on shoots. Breeder: Brendon Murray Francis, Grove TAS		
Choice of Comparators Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge		
Organ/Plant Part	Context	State of Expression in Group of Varieties
Fruit	general shape	cylindrical
Fruit	time for harvest	very late
Most Similar Varieties of Common Knowledge identified (VCK)		
Name	Comments	
'Lady in Red'	similar levels of fruit colouration	
'PE'		
'Cripps Pink'	parent of 'EHCP'	
'Rosy Glow'	similar level of fruit colouration	

Varieties of Common Knowledge identified and subsequently excluded					
Variety	Distinguishing Characteristics		State of Expression in Candidate Variety	State of Expression in Comparator Variety	Comments
'Pink Belle'	Fruit	over colour area	medium to large	small	
'Pink Chief'	Plant	vigour	strong	very weak	
'Early Cripps Pink'	Fruit	over colour area	medium to large	small	
'Early Cripps Pink'	Fruit	time for harvest	very late	late	

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with X.

Organ/Plant Part: Context	'EHCP'	'Cripps Pink'	'Lady in Red'	'PE'	'Rosy Glow'
<input type="checkbox"/> Tree: vigour	strong	strong	strong	strong	strong
<input type="checkbox"/> *Tree: type	ramified	ramified	ramified	ramified	ramified
<input type="checkbox"/> *Tree: habit (varieties with ramified tree type only)	upright	upright	upright	spreading	upright
<input type="checkbox"/> Tree: type of bearing	on spurs and long shoots				
<input type="checkbox"/> One-year-old shoot: thickness	thin to medium	medium	thin to medium	thick	medium
<input type="checkbox"/> *One-year-old shoot: length of internode	short to medium	medium	short to medium	short to medium	medium
<input type="checkbox"/> One-year-old shoot: colour on sunny side	medium brown	medium brown	medium brown	reddish brown	greenish brown
<input type="checkbox"/> One-year-old shoot: pubescence	medium	medium	medium	weak to medium	medium
<input checked="" type="checkbox"/> *One-year-old shoot: number of lenticels	very few to few	many	many	medium	many
<input type="checkbox"/> *Leaf blade: attitude in relation to shoot	outwards	outwards	outwards	outwards	outwards
<input type="checkbox"/> *Leaf blade: length	medium	medium to long	medium	short to medium	medium
<input type="checkbox"/> *Leaf blade: width	medium	medium	medium	narrow to medium	medium
<input type="checkbox"/> *Leaf blade: ratio length/width	medium	medium	medium	medium	medium
<input type="checkbox"/> Leaf blade: intensity of green colour	dark	dark	dark	dark	dark

<input type="checkbox"/> Leaf blade: incisions of margin	crenate	biserrate	crenate	serrate type 2	serrate type 2
<input type="checkbox"/> Leaf blade: pubescence on lower side	medium	medium	medium	medium	medium
<input type="checkbox"/> *Petiole: length	short to medium	short	short to medium	short to medium	medium
<input checked="" type="checkbox"/> Petiole: extent of anthocyanin colouration from base	small to medium	small to medium	small to medium	large to very large	medium
<input type="checkbox"/> *Flower: predominant colour at balloon stage	medium red	dark pink	medium red	medium red	dark pink
<input type="checkbox"/> *Flower: diameter with petals pressed into horizontal position	small	medium	medium	medium	medium
<input type="checkbox"/> *Flower: arrangement of petals	intermediate	free	intermediate	intermediate	free
<input type="checkbox"/> Flower: position of stigmas relative to anthers	same level	same level	same level	same level	same level
<input type="checkbox"/> Young fruit: extent of anthocyanin overcolour	large to very large	small to medium	large to very large	large to very large	very small to small
<input type="checkbox"/> *Fruit: size	medium to large	medium	medium to large	medium to large	medium to large
<input type="checkbox"/> *Fruit: height	medium to tall	medium	medium to tall	medium to tall	medium to tall
<input type="checkbox"/> *Fruit: diameter	medium	medium	medium	medium	medium
<input type="checkbox"/> *Fruit: ratio height/diameter	medium	small to medium	medium	medium	small
<input type="checkbox"/> *Fruit: general shape	cylindrical	cylindrical	cylindrical	cylindrical	cylindrical
<input type="checkbox"/> Fruit: ribbing	moderate	moderate	moderate	moderate	moderate
<input type="checkbox"/> Fruit: crowning at calyx end	moderate	moderate	moderate	moderate	moderate
<input type="checkbox"/> *Fruit: size of eye	small to medium	medium	small to medium	medium	small
<input type="checkbox"/> Fruit: length of sepal	medium	medium	medium	short	short
<input type="checkbox"/> *Fruit: bloom of skin	absent or weak	absent or weak	absent or weak	moderate	absent or weak
<input type="checkbox"/> Fruit: greasiness of skin	absent or weak	moderate	absent or weak	absent or weak	absent or weak
<input type="checkbox"/> *Fruit: ground colour	green	yellow green	green	not visible	whitish green
<input checked="" type="checkbox"/> *Fruit: relative area of over colour	medium to large	small	medium to large	very large	medium to large
<input type="checkbox"/> *Fruit: hue of over colour – with bloom removed	red	pink red	red	purple red	pink red

<input type="checkbox"/> *Fruit: intensity of over colour	medium	light to medium	medium	dark to very dark	medium to dark
<input type="checkbox"/> *Fruit: pattern of over colour	solid flush with weakly defined stripes	solid flush with strongly defined stripes	solid flush with weakly defined stripes	solid flush with weakly defined stripes	flushed, striped and mottled
<input type="checkbox"/> *Fruit: width of stripes	narrow to medium	narrow to medium	narrow	very narrow	narrow to medium
<input type="checkbox"/> *Fruit: area of russet around stalk attachment	absent or small	absent or small	absent or small	absent or small	absent or small
<input type="checkbox"/> Fruit: area of russet on cheeks	absent or small	absent or small	absent or small	absent or small	absent or small
<input type="checkbox"/> *Fruit: area of russet around eye basin	absent or small	absent or small	absent or small	absent or small	absent or small
<input checked="" type="checkbox"/> Fruit: number of lenticels	few	medium	medium to many	medium	few to medium
<input checked="" type="checkbox"/> Fruit: size of lenticels	medium to large	small to medium	small	medium	small
<input type="checkbox"/> *Fruit: length of stalk	medium	medium	medium	medium	short to medium
<input type="checkbox"/> *Fruit: thickness of stalk	thin to medium	medium	thin to medium	thin to medium	thin to medium
<input type="checkbox"/> *Fruit: depth of stalk cavity	medium	medium to deep	medium	shallow to medium	shallow to medium
<input type="checkbox"/> *Fruit: width of stalk cavity	narrow to medium	medium	narrow to medium	medium	narrow to medium
<input type="checkbox"/> *Fruit: depth of eye basin	shallow to medium	medium	shallow to medium	shallow to medium	shallow to medium
<input type="checkbox"/> *Fruit: width of eye basin	narrow to medium	narrow to medium	narrow to medium	narrow to medium	narrow to medium
<input type="checkbox"/> *Fruit: firmness of flesh	firm	firm	firm	firm	firm
<input type="checkbox"/> *Fruit: colour of flesh	greenish	cream	greenish	greenish	white
<input type="checkbox"/> *Fruit: aperture of locules	moderately open	moderately open	moderately open	moderately open	moderately open
<input type="checkbox"/> *Time of: beginning of flowering	medium to late	medium	medium to late	medium	medium to late
<input type="checkbox"/> Time for: harvest	very late	very late	very late	very late	late to very late
<input type="checkbox"/> *Time of: eating maturity	very late	very late	very late	very late	very late

Statistical Table

Organ/Plant Part: Context	'EHCP'	'Cripps Pink'	'Lady in Red'	'PE'	'Rosy Glow'
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<input type="checkbox"/> Flower: Diameter (mm)					
Mean	39.00	49.00	51.00	49.00	49.00
Std. Deviation	1.30	1.90	2.20	2.70	1.60
LSD/sig	4.7	P<=0.01	P<=0.01	P<=0.01	P<=0.01
<input checked="" type="checkbox"/> Shoot: number of lenticels per 100mm of stem					
Mean	44.00	137.00	144.00	98.00	151.00
Std. Deviation	13.60	18.90	17.50	10.00	19.10
LSD/sig	38.5	P<=0.01	P<=0.01	P<=0.01	P<=0.01

Prior Applications and Sales:

Nil

Description: **Gordon Brown**, Allens Rivulet, TAS

Details of Application		
Application Number	2016/358	
Variety Name	'RGT Planet'	
Genus Species	<i>Hordeum vulgare</i>	
Common Name	Barley	
Synonym	Nil	
Accepted Date	07 Sep 2017	
Applicant	RAGT R2n, Rodez, Cedex 9, Aveyron, FRANCE	
Agent	Seed Force Pty Ltd, Shepparton, VIC	
Qualified Person	Leslie Mitchell	
Details of Comparative Trial		
Overseas Testing Authority	New Zealand Plant Variety Rights Office	
Overseas Data Reference Number	BAR060 Grant no. 32774	
Location	Lincoln, Canterbury, New Zealand	
Descriptor	TG/19/7	
Period	2017-18	
Conditions	Small plot field tests, managed similarly to commercial crops with fertiliser and crop protection treatments applied as required.	
Trial Design	As per TG/19/7	
Measurements	As per TG/19/7	
RHS Chart - edition	N/A	
Origin and Breeding		
Controlled pollination: 'RGT Planet' is the result of a controlled cross made in 2009 between 'Tamtan' (patented) and 'Concerto' (patented). Seed harvested from this first cross was sown and used for phenotype selection. Primary selection criteria were yield, disease resistance and malting quality. Subsequent propagation was by self-pollination. This selection process was carried out in both the northern and southern hemispheres. The final variety selection has now been grown over 6 generations and shown to be stable with no off types exhibited. Breeder: RAGT R2n Aveyron, FRANCE.		
Choice of Comparators Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge		
Organ/Plant Part	Context	State of Expression in Group of Varieties
Awns	anthocyanin colouration of the tips	present
Plant ear	number of rows	two
Grain	rachilla hair type	short
Most Similar Varieties of Common Knowledge identified (VCK)		
Name	Comments	
'Shada'		
'Sanette'		

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with a tick.

Organ/Plant Part: Context	'RGT Planet'	'Sanette'	'Shada'
<input type="checkbox"/> *Plant: growth habit	semi-erect to intermediate		
<input type="checkbox"/> *Lowest leaves: hairiness of leaf sheaths	absent		
<input type="checkbox"/> *Flag leaf: anthocyanin colouration of auricles	present		
<input checked="" type="checkbox"/> *Flag leaf: intensity of anthocyanin colouration of auricles	medium	strong to very strong	
<input type="checkbox"/> Plant: frequency of plants with recurved flag leaves	low		
<input type="checkbox"/> Flag leaf: glaucosity of sheath	medium to strong		
<input type="checkbox"/> *Time of: ear emergence	early to medium		
<input type="checkbox"/> *Awns: anthocyanin colouration of tips	present	present	present
<input type="checkbox"/> *Awns: intensity of anthocyanin colouration of tips	medium		
<input type="checkbox"/> *Ear: glaucosity	medium to strong		
<input type="checkbox"/> Ear: attitude	semi-erect to horizontal		
<input checked="" type="checkbox"/> *Plant: length	medium to long		short
<input type="checkbox"/> *Ear: number of rows	two	two	two
<input type="checkbox"/> Ear: shape	parallel		
<input type="checkbox"/> *Ear: density	lax to medium		
<input type="checkbox"/> Ear: length	medium		
<input type="checkbox"/> *Awn: length	long		
<input type="checkbox"/> Rachis: length of first segment	medium		
<input type="checkbox"/> Rachis: curvature of first segment	weak		
<input type="checkbox"/> Median spikelet: length of glume and its awn relative to grain	equal		
<input type="checkbox"/> *Grain: rachilla hair type	short	short	short
<input type="checkbox"/> *Grain: husk	present		
<input type="checkbox"/> Grain: anthocyanin colouration of nerves of lemma	medium		
<input type="checkbox"/> Grain: spiculation of inner lateral nerves of dorsal side of lemma	absent or very weak		
<input type="checkbox"/> *Grain: hairiness of ventral furrow	absent		
<input type="checkbox"/> Grain: disposition of lodicules	clasping		
<input type="checkbox"/> Kernel: colour of aleurone layer	whitish		

<input type="checkbox"/> *Season: type	spring type	spring type	spring type
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Prior Applications and Sales:

Country	Year	Status	Name Applied
QZ	2014	Granted	'RGT Planet'
New Zealand	2015	Granted	'RGT Planet'
CL	2018	Granted	'RGT Planet'

Description: **Leslie Mitchell**, Eurofins Agrosience Services, Shepparton VIC 3630.

Details of Application	
Application Number	2014/116
Variety Name	'DrisBlueThirteen'
Genus Species	<i>Vaccinium corymbosum</i>
Common Name	Blueberry
Accepted Date	05 Aug 2014
Applicant	Driscoll's, Inc. Watsonville, CA, USA
Agent	AJ Park, Sydney, NSW
Qualified Person	Jennifer Moisander

Details of Comparative Trial

Overseas Testing Authority	United States Patent and Trademark Office (USPTO)
Overseas Data Reference Number	PP26,451
Location	Santa Cruz and Monterey, California, USA (1999-2012)
Descriptor	Blueberry (UPOV TG/137/4)
Period	2018-2019 (Australian verification trial)
Conditions	Overseas data were verified in Australian condition in Birkdale, QLD. Plants were grown in full sunlight under standard blueberry production conditions. Plants were asexually propagated from softwood cuttings and planted into pot when approximately 6 months old.
Trial Design	Comparison data were extracted from the published description of 'DrisBlueFour' and 'DrisBlueFive'.
Measurements	All measurements and descriptions are in accordance with UPOV terminology and guidelines.
RHS Chart - edition	N/A

Origin and Breeding

Controlled cross pollination between the proprietary female parent 'FL 84-40' (unpatented) and the proprietary pollen parent 'FL 96-26' (unpatented). The resulting variety 'DrisBlueThirteen' has been found to be stable and reproduce true to type through successive asexual propagation by softwood cuttings. Breeders: Brian K Caster, Arlen Draper, Jennifer K Izzo, and Jorge Rodriguez Alcazar all employees of Driscoll Inc., Watsonville, California, USA.

Choice of Comparators Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge

Organ/Plant Part	Context	State of Expression in Group of Varieties
Plant	fruiting type	on one-year-old shoots only
Leaf	shape	elliptic
Flower	shape	urceolate
Fruit	firmness	firm
Fruit	acidity	low

Most Similar Varieties of Common Knowledge identified (VCK)	
Name	Comments
'DrisBlueFour'	a commercial blueberry variety
'DrisBlueFive'	a commercial blueberry variety

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with a tick.

Organ/Plant Part: Context	'DrisBlueThirteen'	'DrisBlueFive'	'DrisBlueFour'
<input checked="" type="checkbox"/> *Plant: vigour	medium	strong	medium to strong
<input type="checkbox"/> *Plant: growth habit	upright to semi-upright	semi-upright	semi-upright
<input type="checkbox"/> One-year-old shoot: colour	green	green	green
<input checked="" type="checkbox"/> One-year-old shoot: length of internode	long	short to medium	short
<input type="checkbox"/> *Leaf: length	medium to long	medium	medium
<input type="checkbox"/> Leaf: width	medium	medium	medium
<input type="checkbox"/> Leaf: ratio length/width	medium to large	medium to large	large
<input type="checkbox"/> *Leaf: shape	elliptic	elliptic	elliptic
<input type="checkbox"/> Leaf: colour of upper side	green	green	green
<input type="checkbox"/> *Leaf: intensity of green colour on upper side (varieties with green leaf colour only)	dark	dark	dark
<input type="checkbox"/> *Leaf: margin	entire	entire to serrate	entire
<input checked="" type="checkbox"/> Flower bud: anthocyanin colouration	strong to very strong	weak to medium	very weak
<input checked="" type="checkbox"/> Inflorescence: length	short to medium	long	medium to long
<input type="checkbox"/> Flower: shape of corolla	urceolate	urceolate	urceolate
<input type="checkbox"/> *Flower: size of corolla tube	medium	medium	medium
<input type="checkbox"/> *Flower: anthocyanin colouration of corolla tube	weak	absent or very weak	absent or very weak
<input type="checkbox"/> *Flower: ridges on corolla tube	present	present	present
<input checked="" type="checkbox"/> Fruit cluster: density	sparse	medium	medium
<input type="checkbox"/> *Unripe fruit: intensity of green colour	medium	light	medium
<input type="checkbox"/> *Fruit: size	medium	large	medium to large
<input type="checkbox"/> *Fruit: shape in longitudinal section	oblate	oblate	oblate

<input type="checkbox"/>	Fruit: attitude of sepals	erect	erect	erect
<input type="checkbox"/>	Fruit: type of sepals	straight	incurving	incurving
<input checked="" type="checkbox"/>	Fruit: diameter of calyx basin	small	large	medium
<input checked="" type="checkbox"/>	Fruit: depth of calyx basin	shallow	medium to deep	medium
<input checked="" type="checkbox"/>	*Fruit: intensity of bloom	medium	medium to strong	very strong
<input type="checkbox"/>	*Fruit: colour of skin	medium blue	light blue	light blue
<input type="checkbox"/>	Fruit: firmness	firm	firm	firm
<input type="checkbox"/>	*Fruit: sweetness	medium	medium	medium
<input type="checkbox"/>	*Fruit: acidity	low	low	low
<input type="checkbox"/>	*Plant: fruiting type	on one-year-old shoots only	on one-year-old shoots only	on one-year-old shoots only
<input type="checkbox"/>	*Time of: vegetative bud burst	very early	early	early to medium
<input type="checkbox"/>	*Time of: beginning of flowering on one-year-old shoot	very early	medium	medium
<input checked="" type="checkbox"/>	*Time of: beginning of fruit ripening on one-year-old shoot	early	early	early to medium

Prior Applications and Sales:

Country	Year	Current Status	Name Applied
USA	2013	Granted	'DrisBlueThirteen'
EU	2014	Granted	'DrisBlueThirteen'
Turkey	2014	Applied	'DrisBlueThirteen'
Peru	2014	Applied	'DrisBlueThirteen'
Mexico	2014	Granted	'DrisBlueThirteen'
Morocco	2014	Applied	'DrisBlueThirteen'
New Zealand	2014	Applied	'DrisBlueThirteen'
South Africa	2014	Applied	'DrisBlueThirteen'
Chile	2015	Granted	'DrisBlueThirteen'
Colombia	2016	Applied	'DrisBlueThirteen'
Ukraine	2017	Granted	'DrisBlueThirteen'

First sold in the USA in December 2012.

Description: **Margaret Zorin**, Birkdale, QLD.

Details of Application		
Application Number	2015/130	
Variety Name	'IREBABS 3'	
Genus Species	<i>Bougainvillea spectabilis x glabra</i>	
Common Name	Bougainvillea	
Synonym	MIMI-PU	
Accepted Date	07 Jul 2015	
Applicant	Janet and Peter Iredell, Bellbowrie, QLD, 4070, Australia	
Qualified Person	Jan Iredell	
Details of Comparative Trial		
Location	Moggill, QLD	
Descriptor	TG/267/1	
Period	June 2016-July 2017	
Conditions	10 Plants of the Candidate and each of the comparators were grown in 200mm pots under irrigated shade	
Trial Design	Random Block design	
Measurements	As per UPOV requirements	
RHS Chart - edition	5th Edition	
Origin and Breeding		
Open Pollination: seed from 'Pedro' was collected and grown on. 'Irebabs 3' was selected due to its low growth and lack of thorns. It was grown on for several generations to ensure uniformity and stability. Breeders: Jan and Peter Iredell, Moggill QLD		
Choice of Comparators Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge		
Organ/Plant Part	Context	State of Expression in Group of Varieties
Thorn	length	short
Inflorescence	type of bract	single
Most Similar Varieties of Common Knowledge identified (VCK)		
Name	Comments	
'Pedro'		
'Nonya'		

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with a tick.

Organ/Plant Part: Context	'IREBABS 3'	'Nonya'	'Pedro'
<input checked="" type="checkbox"/> Plant: growth habit	spreading	upright	upright
<input type="checkbox"/> Young shoot: colour	light green	light green	reddish green
<input type="checkbox"/> *Plant: length of internodes	short	medium	medium
<input type="checkbox"/> Stem: thorns	present	present	present
<input type="checkbox"/> *Thorn: length	short	short	short
<input checked="" type="checkbox"/> *Leaf blade: length	very short	medium to long	short to medium
<input checked="" type="checkbox"/> *Leaf blade: width	very narrow	medium to broad	narrow to medium

<input type="checkbox"/> *Leaf blade: shape	elliptic	elliptic	broad ovate
<input type="checkbox"/> Leaf blade: shape of base	acute	attenuate	attenuate
<input type="checkbox"/> Leaf blade: main colour	light green	medium green	medium green
<input type="checkbox"/> *Leaf blade: secondary colour	none	none	none
<input type="checkbox"/> Leaf blade: undulation of margin	absent or weak	medium	absent or weak
<input checked="" type="checkbox"/> *Petiole: length	short	long	long
<input type="checkbox"/> Peduncle: length	short to medium	short to medium	short to medium
<input type="checkbox"/> Inflorescence: arrangement of bract clusters	axillary and terminal	axillary and terminal	axillary and terminal
<input type="checkbox"/> Inflorescence: number of bract clusters	few to medium	many	many
<input type="checkbox"/> Inflorescence: density of bract clusters	medium	dense	medium to dense
<input type="checkbox"/> Inflorescence: presence of flowers	present	present	present
<input type="checkbox"/> *Inflorescence: type of bract	single	single	single
<input checked="" type="checkbox"/> Bract: length	very short	medium	short to medium
<input checked="" type="checkbox"/> Bract: width	very narrow	narrow to medium	narrow
<input type="checkbox"/> *Bract: shape	medium ovate	medium ovate	narrow ovate
<input type="checkbox"/> *Bract: shape of base	obtuse	obtuse	obtuse
<input checked="" type="checkbox"/> *Small young : bract: main colour of outer side (RHS Colour Chart)	NN78D	N75A	181B

Characteristics Additional to the Descriptor/TG

Organ/Plant Part: Context	'IREBABS 3'	'Nonya'	'Pedro'
Flower: position of anthers in relation to corolla	below	above	below

Prior Applications and Sales:

Country	Year	Status	Name Applied
USA	2013	Granted	'IREBABS 3'

First sold in the USA, April 2014

Description: **Jan Iredell**, Bellbowrie, QLD

Details of Application		
Application Number	2016/213	
Variety Name	'PJ01'	
Genus Species	<i>Pandorea jasminoides</i>	
Common Name	Bower of Beauty	
Accepted Date	19 Aug 2016	
Applicant	Ozbreed Pty Ltd, Clarendon NSW	
Qualified Person	John Oates	
Details of Comparative Trial		
Location	Clarendon NSW	
Descriptor	Modified – TG/298/1 Mandevilla	
Period	2018-2019	
Conditions	Plants growing without cover in 30cm pots, regular overhead irrigation as required.	
Trial Design	Applicant and Comparator arranged in a random pattern.	
Measurements	As per UPOV Technical guidelines	
RHS Chart - edition	Sixth Edition (2015)	
Origin and Breeding		
Open pollination: In October 2013 a white flowered seedling was observed amongst a small batch of pink flowered <i>Pandorea jasminoides</i> seedlings. The selection was grown on at the Clarendon Nursery for observation and assessment. It was found to be more compact than other white flowered varieties and most other cultivars of the species. Over 7 generations of vegetative reproduction it has been uniform and stable. Breeder: Todd Layt, Ozbreed Pty Ltd, Clarendon, NSW		
Choice of Comparators Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge		
Organ/Plant Part	Context	State of Expression in Group of Varieties
Flower	colour	white
Most Similar Varieties of Common Knowledge identified (VCK)		
Name	Comments	
'Lady Di'		

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with X.

Organ/Plant Part: Context	'PJ01'	'Lady Di'
<input type="checkbox"/> Stem: length of internode	medium	medium
<input type="checkbox"/> Young stem: green colour	light	light
<input type="checkbox"/> Young stem: anthocyanin colouration	absent or very weak	absent or very weak
<input type="checkbox"/> Stem: pubescence	absent	absent
<input type="checkbox"/> Leaf: arrangement	opposite	opposite
<input type="checkbox"/> Petiole : length	medium	medium
<input type="checkbox"/> Petiole: colour	light green	light green

<input type="checkbox"/> Petiole: anthocyanin colouration	absent or very weak	absent or very weak
<input type="checkbox"/> Petiole: pubescence	absent	absent
<input type="checkbox"/> Leaf blade: length	medium	medium
<input type="checkbox"/> Leaf blade: width	medium	medium
<input type="checkbox"/> Leaf blade: shape of apex	acuminate	acuminate
<input type="checkbox"/> Leaf blade: shape of base	acute	acute
<input type="checkbox"/> Leaf blade: main colour	medium green	medium green
<input type="checkbox"/> Leaf blade: glossiness of upper side	medium	medium
<input type="checkbox"/> Leaf blade: bulging between the veins	absent or very weak	absent or very weak
<input type="checkbox"/> Leaf blade: pubescence of upper side	absent	absent
<input type="checkbox"/> Leaf blade: intensity of green colour of lower side	light	light
<input type="checkbox"/> Leaf blade: undulation of margin	weak	weak
<input type="checkbox"/> Pedicel: length	medium	medium
<input type="checkbox"/> Pedicel: intensity of green colour	medium	medium
<input type="checkbox"/> Pedicel: anthocyanin colouration	absent or weak	absent or weak
<input type="checkbox"/> Pedicel: pubescence	absent	absent
<input type="checkbox"/> Flower bud: shape	obtrullate	obtrullate
<input type="checkbox"/> Flower: type	single	single
<input checked="" type="checkbox"/> Calyx : length	medium	short
<input type="checkbox"/> Calyx: colour of basal half	medium green	light green
<input type="checkbox"/> Corolla : diameter	medium	medium
<input type="checkbox"/> Corolla tube: length	medium	medium
<input type="checkbox"/> Corolla throat: length	medium	medium
<input type="checkbox"/> Corolla throat: width of distal part	medium	medium
<input type="checkbox"/> Corolla throat: shape	campanulate	campanulate
<input type="checkbox"/> Corolla lobe: symmetry	moderately asymmetric	moderately asymmetric
<input type="checkbox"/> Corolla lobe: shape of apex	rounded	rounded
<input type="checkbox"/> Corolla lobe: recurving of margin	medium	medium
<input type="checkbox"/> Corolla lobe: undulation of margin	medium	medium
<input type="checkbox"/> Corolla lobe: shape in longitudinal section of distal part	convex	convex
<input type="checkbox"/> Anther: colour	white	white
<input type="checkbox"/> Ovary: colour	light green	light green

Characteristics Additional to the Descriptor/TG

Organ/Plant Part: Context	'PJ01'	'Lady Di'
<input checked="" type="checkbox"/> Corolla throat: colour	12C age fading to 12D	13C age fading to 12D

<input type="checkbox"/> Leaf : colour of upper side	147A	NN137B
<input type="checkbox"/> Calyx: colour of distal half	white	
<input type="checkbox"/> Leaflet: shape	elliptic	elliptic
<input type="checkbox"/> Leaf: leaflet number	5	5
<input type="checkbox"/> Leaf: glossiness lower side	weak	weak
<input type="checkbox"/> Corolla: throat hairs	present	present
<input type="checkbox"/> Corolla throat hairs: length(mm)	1.5	1.5
<input type="checkbox"/> Filament: colour	white	white
<input type="checkbox"/> Leaflet: length	medium	medium
<input type="checkbox"/> Leaflet: width	medium	medium
<input type="checkbox"/> Leaflet: ratio/length/width	moderately elongated	moderately elongated
<input type="checkbox"/> Leaflet blades: position of broadest part	at middle	at middle
<input type="checkbox"/> Leaflets : shape of apex	acuminate	acuminate
<input type="checkbox"/> Leaflets: shape of base	acute	acute
<input type="checkbox"/> Leaflets: main colour	medium green	medium green
<input type="checkbox"/> Leaflets: glossiness of upper side	medium	medium
<input type="checkbox"/> Leaflets: glossiness of lower sides	weak	weak
<input type="checkbox"/> Leaflets: shape on profile	recurving	recurving
<input type="checkbox"/> Leaflets: undulation of the margin	weak	weak

Prior Applications and Sales:

Nil

Description: **John Oates**, Merimbula NSW

Details of Application		
Application Number	2018/015	
Variety Name	'Standout'	
Genus Species	<i>Citrus glauca</i>	
Common Name	Desert Lime	
Accepted Date	20 Feb 2018	
Applicant	Canebridge Pty Ltd	
Qualified Person	Gary Eyles	
Details of Comparative Trial		
Location	Kenthurst NSW	
Descriptor	PBR DLIME - Desert Lime descriptor	
Period	Jun 2018 - Dec 2019	
Conditions	Grown containers with pine bark media in rows in poly house, with standard irrigation and fertiliser regime.	
Trial Design	Random Block design	
Measurements	As per UPOV standards	
RHS Chart - edition	5th Edition	
Origin and Breeding		
Open Pollination: A chance seedling was observed in a small stand of four desert lime trees, all with outstanding fruit size in Nov 2009. Grafting material was collected from the group, was successfully grafted on to Citrus trifoliata rootstock and trees propagated. 'Standout' was selected due to its large fruit size was observed to be uniform and stable. Breeder: Canebridge Pty Ltd, QLD		
Choice of Comparators Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge		
Organ/Plant Part	Context	State of Expression in Group of Varieties
Tree	density of spines	intermediate
Leaf blade	emargination at tip	present
Fruit	presence of neck	present
Most Similar Varieties of Common Knowledge identified (VCK)		
Name	Comments	
'Australian Outback'		
'Abundance'		

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with X.

Organ/Plant Part: Context	'Standout'	'Abundance'	'Australian Outback'
<input type="checkbox"/> Tree: growth habit	spreading	spreading	drooping
<input type="checkbox"/> Tree: density of spines	intermediate	intermediate	intermediate
<input type="checkbox"/> Tree: length of spines	medium to long	very short to short	short
<input type="checkbox"/> Leaf blade: length	medium	long	medium

<input type="checkbox"/>	Leaf blade: width	broad	medium	medium
<input type="checkbox"/>	Leaf blade: shape in cross-section	flattened	flattened	flattened
<input type="checkbox"/>	Leaf blade: longitudinal shape	reflexed	flattened	reflexed
<input checked="" type="checkbox"/>	Leaf blade: green colour	dark	medium	medium to dark
<input type="checkbox"/>	Leaf blade: undulation of margin	absent or weak	absent or weak	
<input type="checkbox"/>	Leaf blade: incisions of margin	crenate	crenate	crenate
<input type="checkbox"/>	Leaf blade: shape of apex	rounded	obtuse	obtuse
<input type="checkbox"/>	Leaf blade: emargination at tip	present	present	present
<input type="checkbox"/>	Petiole: length	short	short	short
<input type="checkbox"/>	Fruit: length	long	medium	medium
<input type="checkbox"/>	Fruit: diameter	large	medium	medium
<input type="checkbox"/>	Fruit: position of broadest part	at middle	towards distal end	at middle
<input type="checkbox"/>	Fruit: general shape of proximal part	flattened	tapered	strongly rounded
<input type="checkbox"/>	Fruit: presence of neck	present	present	present
<input type="checkbox"/>	Fruit: length of neck (necked varieties only)	long	medium	short
<input type="checkbox"/>	Fruit: thickness of neck (necked varieties only)	medium	thick	thin
<input type="checkbox"/>	Fruit: presence of constriction at stalk end	present	present	present
<input type="checkbox"/>	Fruit: expression of constriction at stalk end	strong	weak	weak
<input type="checkbox"/>	Fruit: number of radial grooves at stalk end	intermediate	absent or few	absent or few
<input type="checkbox"/>	Fruit: length of radial grooves at stalk end	long	short	short
<input type="checkbox"/>	Fruit: presence of collar	absent	absent	absent
<input checked="" type="checkbox"/>	Fruit: general shape of distal part	flattened	strongly rounded	slightly rounded
<input type="checkbox"/>	Fruit : presence of depression at distal end	present	absent	absent
<input type="checkbox"/>	Fruit: depth of depression at distal end	shallow		
<input checked="" type="checkbox"/>	Fruit: persistence of style	partial	total	none
<input type="checkbox"/>	Fruit: presence of radial grooves at distal end	present	present	present
<input type="checkbox"/>	Fruit surface: green colour	dark	light to medium	very light to light
<input type="checkbox"/>	Fruit surface: roughness	medium	medium to rough	rough
<input type="checkbox"/>	Fruit surface: size of oil glands	all more or less the same size	all more or less the same size	all more or less the same size
<input type="checkbox"/>	Fruit surface: size of larger oil glands	small	large	large
<input type="checkbox"/>	Fruit surface: conspicuousness of larger	weak	strong	strong

oil glands			
<input type="checkbox"/> Fruit rind: thickness	thin	medium	medium
<input type="checkbox"/> Fruit: main colour of flesh	light green	medium green	medium green
<input type="checkbox"/> Fruit: juiciness	high	high	low

Prior Applications and Sales:

Nil

Description: Gary Eyles, Kenthurst NSW

Details of Application	
Application Number	2019/136
Variety Name	'Bitalli'
Genus Species	<i>Triticum turgidum</i> subsp. <i>Durum</i>
Common Name	Durum Wheat
Synonym	Nil
Accepted Date	07 Aug 2019
Applicant	Australian Grain Technologies Pty Ltd, Roseworthy, SA
Agent	N/A
Qualified Person	Andrew Cecil
Details of Comparative Trial	
Location	Roseworthy South Australia
Descriptor	UPOV TG/120/4
Period	2019
Conditions	A comparative trial was sown on the Roseworthy Campus of the University of Adelaide. In the previous year the trial area carried a Lentil crop which was harvested for grain. Pre-seeding herbicides Sakura (118g/ha), Roundup Ultra (1.5 l/ha), Sharpen (20 g/ha), Avadex (2.0 l/ha) and Hasten (1l/100l) together with an insecticide Lemat (120 ml/ha) were applied prior to seeding. The trial was sown on 14th May 2019 and 90kg MAP + 2.5% zinc fertiliser was applied with the seed. The season was generally favourable for growth of the crop and of weeds and disease. The trial was sprayed post emergence on 2nd July with Velocity (670mls), Axial (200mls), Lontrel (40mls) and Adigor (500mls/100L) to control weeds. On the 11 th of July and the 16 th of August 20 units of liquid N fertiliser was applied. The trial was sprayed to control fungal pathogens on 21 st July using Aviator Xtra @ 500mls. The season finished early with limited spring rainfall. The trial was harvested on 12 th November 2019.
Trial Design	Randomised block design of 3 blocks and 24 entries consisting of comparators and potential candidates. Sown in 24 ranges of 3 plots wide, block 1 being in ranges 1 to 8 and so on. Plots were 1.25m wide (5 rows) and 3.2m long. There were approximately 1000 plants per plot. Qualitative characters were recorded for every replicate at the appropriate growth stage.
Measurements	Quantitative characters were measured on 10 randomly sampled plants from each replicate, the samples being taken at the appropriate growth stage or after maturity. Statistical analyses were completed using "R" software.
RHS Chart - edition	N/A

Origin and Breeding
Controlled pollination: The cross (SAINTLY/HAZERA-13) was made in the AGT crossing block at Roseworthy 2007. F ₁ seed was selfed in Roseworthy summer nursery in 2007/08. The F ₂ population was grown in the field at Roseworthy and bulk harvested in 2008. The F ₃ population was grown over the 2008/09 summer at the PBC Horsham and single ears were selected. These ears were planted at Roseworthy in the rust disease nursery in 2009 and were selected on rust, maturity and plant type. Selections were evaluated for grain yield, disease resistance including the three rusts, crown rot, and RLN (<i>P.thornei</i>) from 2012 to 2017 in AGT's agronomic, disease and quality testing across South Australia, Western Australia, Victoria, New South Wales and Queensland. In 2017, AGTD088 was entered into the NVT. Seed purification began in 2016, and this seed is used for commercial seed multiplication. Breeders - Mr Thomas Kapcejevs, Dr Meiqin Lu and Dr Jason Reinheimer, Australian Grain Technologies Pty Ltd, 20 Leitch Road Roseworthy SA 5371.

Choice of Comparators Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge

Organ/Plant Part	Context	State of Expression in Group of Varieties
Plant	growth habit	semi erect
Plant	frequency of recurved leaves	low to medium
Ear	colour	white
Seasonal	type	spring
Straw	pith in cross section	thin
Ear	distribution of awns	fully awned

Most Similar Varieties of Common Knowledge identified (VCK)

Name	Comments
'Caparoi'	matches all grouping characteristics
'DBA Aurora'	matches all grouping characteristics
'Hyperno'	matches all grouping characteristics
'DBA Lillaroi'	matches all grouping characteristics

Varieties of Common Knowledge identified and subsequently excluded

Variety	Distinguishing Characteristics	State of Expression in Candidate Variety	State of Expression in Comparator Variety	Comments
'Tamaroi'	Plant height	medium	long	excluded from side by side comparison

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with X.

Organ/Plant Part: Context	'Bitalli'	'Caparoi'	'DBA Aurora'	'DBA Lillaroi'	'Hyperno'
<input type="checkbox"/> Plant: growth habit	semi-erect	semi-erect	semi-erect	semi-erect	semi-erect

<input type="checkbox"/> Plant: Frequency of plants with recurved flag leaves	low to medium				
<input type="checkbox"/> Flag leaf: anthocyanin colouration of auricles	weak	absent or very weak	weak	weak	weak
<input type="checkbox"/> Flag leaf: glaucosity of sheath	medium	medium	medium	weak to medium	weak to medium
<input type="checkbox"/> Flag leaf: glaucosity of lower side of leaf blade	weak	weak	weak	weak	weak
<input type="checkbox"/> Culm: density of hairiness of uppermost node	absent or very weak to weak				
<input type="checkbox"/> Culm: glaucosity of neck	medium	weak to medium	medium	weak to medium	weak to medium
<input type="checkbox"/> Ear: glaucosity	medium to strong	medium	strong	weak to medium	strong
<input type="checkbox"/> Ear: distribution of awns	fully awned				
<input checked="" type="checkbox"/> Ear: length of awns at tip relative to length of ear	equal	equal	equal	longer	longer
<input type="checkbox"/> Lower glume: shape	narrow oblong	medium oblong	medium oblong	narrow oblong	ovoid
<input checked="" type="checkbox"/> Lower glume: shape of shoulder	elevated	sloping	rounded	elevated	elevated with a 2nd beak
<input checked="" type="checkbox"/> Lower glume: width of shoulder	very narrow	narrow	narrow	narrow	medium to broad
<input checked="" type="checkbox"/> Lower glume: length of beak	short	short	short to medium	short to medium	medium to long
<input type="checkbox"/> Lower glume: curvature of beak	absent	absent	weak	absent	moderate
<input type="checkbox"/> Lower glume: hairiness of external surface	absent	absent	absent	absent	absent
<input type="checkbox"/> Straw: pith in cross section	thin	thin	thin	thin	thin
<input checked="" type="checkbox"/> Awn: colour	dark purple	white	white	white	medium purple
<input type="checkbox"/> Ear: colouration	white	white	white	white	white
<input type="checkbox"/> Ear: density	lax to medium	medium	medium	medium	medium to dense
<input type="checkbox"/> Grain: length of brush hair	short	short	short	short	short
<input type="checkbox"/> Grain: shape	moderately elongated	moderately elongated	moderately elongated	strongly elongated	moderately elongated
<input type="checkbox"/> Plant: seasonal type	spring type	spring type	spring type	spring type	spring type
Statistical Table					

Organ/Plant Part: Context	'Bitalli'	'Caparoi'	'DBA Aurora'	'DBA Lillaroi'	'Hyperno'
<input type="checkbox"/> Ear: length (mm)					
Mean	75.00	72.60	87.00	72.60	77.25
Std. Deviation	3.80	0.99	1.83	1.00	0.50
LSD/sig	8.07	ns	ns	ns	ns
<input checked="" type="checkbox"/> Plant: days to heading (Julian days)					
Mean	247.50	247.00	252.70	247.00	252.00
Std. Deviation	0.58	1.00 J	2.08	1.00	0.00
LSD/sig	2.78	ns	P≤0.01	ns	P≤0.01
<input type="checkbox"/> Plant: height (cm)					
Mean	80.30	80.80	80.00	80.80	82.05
Std. Deviation	0.99	1.97	2.40	1.97	0.63
LSD/sig	4.37	ns	ns	ns	ns

Prior Applications and Sale

Nil.

Description: **Andrew Cecil**, Australian Grain Technologies Pty Ltd, Roseworthy, SA.

Details of Application	
Application Number	2019/135
Variety Name	'Westcourt'
Genus Species	<i>Triticum turgidum</i> subsp. <i>Durum</i>
Common Name	Durum Wheat
Synonym	Nil
Accepted Date	07 Aug 2019
Applicant	Australian Grain Technologies Pty Ltd, Roseworthy, SA
Agent	N/A
Qualified Person	Andrew Cecil
Details of Comparative Trial	
Location	Roseworthy, South Australia
Descriptor	UPOV TG/120/4
Period	2019
Conditions	A comparative trial was sown on the Roseworthy Campus of the University of Adelaide. In the previous year the trial area carried a Lentil crop which was harvested for grain. Pre-seeding herbicides Sakura (118g/ha), Roundup Ultra (1.5 l/ha), Sharpen (20 g/ha), Avadex (2.0 l/ha) and Hasten (1l/100l) together with an insecticide Lemat (120 ml/ha) were applied prior to seeding. The trial was sown on 14th May 2019 and 90kg MAP + 2.5% zinc fertiliser was applied with the seed. The season was generally favourable for growth of the crop and of weeds and disease. The trial was sprayed post emergence on 2nd July with Velocity (670mls), Axial (200mls), Lontrel (40mls) and Adigor (500mls/100L) to control weeds. On the 11 th of July and the 16 th of August 20 units of liquid N fertiliser was applied. The trial was sprayed to control fungal pathogens on 21 st July using Aviator Xtra @ 500mls. The season finished early with limited spring rainfall. The trial was harvested on 12 th November 2019.
Trial Design	Randomised block design of 3 blocks and 24 entries consisting of comparators and potential candidates. Sown in 24 ranges of 3 plots wide, block 1 being in ranges 1 to 8 and so on. Plots were 1.25m wide (5 rows) and 3.2m long. There were approximately 1000 plants per plot. Qualitative characters were recorded for every replicate at the appropriate growth stage.
Measurements	Quantitative characters were measured on 10 randomly sampled plants from each replicate, the samples being taken at the appropriate growth stage or after maturity. Statistical analyses were completed using "R" software.
RHS Chart - edition	N/A

Origin and Breeding
Controlled pollination: The cross (HYPERNO/WID22301) was made in the AGT crossing block at Roseworthy 2007. F ₁ seed was selfed in Roseworthy summer nursery in 2007/08. The F ₂ population was grown in the field at Roseworthy and bulk harvested in 2008. The F ₃ population was grown over the 2008/09 summer at the PBC Horsham and single ears were selected. These ears were planted at Roseworthy in the rust disease nursery in 2009 and were selected on rust, maturity and plant type. Selections were evaluated for grain yield, disease resistance including the three rusts, crown rot, and RLN (<i>P. thornei</i>) from 2012 to 2017 in AGT's agronomic, disease and quality testing across South Australia, Western Australia, Victoria, New South Wales and Queensland. In 2018, AGTD090 was entered into the NVT. Seed purification began in 2016, and this seed is used for commercial seed multiplication. Breeder: Thomas Kapcejevs, Dr Meiqin Lu and Dr Jason Reinheimer, Australian Grain Technologies Pty Ltd, Leitch Road Roseworthy SA 5371.

Choice of Comparators Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge

Organ/Plant Part	Context	State of Expression in Group of Varieties
Ear	awn and scurs	fully awned
Ear	awn colour	white
Seasonal	type	spring
Plant	growth habit	semi erect
Plant	frequency of recurved leaves	medium

Most Similar Varieties of Common Knowledge identified (VCK)

Name	Comments
'Caparoi'	matches all grouping characteristics
'DBA Aurora'	matches all grouping characteristics
'Hyperno'	matches all grouping characteristics
'DBA Lillaroi'	matches all grouping characteristics

Varieties of Common Knowledge identified and subsequently excluded

Variety	Distinguishing Characteristics	State of Expression in Candidate Variety	State of Expression in Comparator Variety	Comments
'Tamaroi'	Awns colour	white	black	excluded from side by side comparison

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with X.

Organ/Plant Part: Context	'Westcourt'	'Caparoi'	'DBA Aurora'	'DBA Lillaroi'	'Hyperno'
<input type="checkbox"/> Plant: growth habit	semi-erect	semi-erect	semi-erect	semi-erect	semi-erect
<input type="checkbox"/> Plant: Frequency of plants with recurved flag leaves	low to medium	low to medium	low to medium	low to medium	low to medium
<input type="checkbox"/> Flag leaf: anthocyanin colouration of auricles	weak	absent or very weak	medium	weak	weak

<input type="checkbox"/> Flag leaf: glaucosity of sheath	medium	medium	medium	weak to medium	weak to medium
<input type="checkbox"/> Flag leaf: glaucosity of lower side of leaf blade	weak	weak	weak	weak	weak
<input type="checkbox"/> Culm: density of hairiness of uppermost node	absent or very weak to weak				
<input type="checkbox"/> Culm: glaucosity of neck	medium	weak to medium	medium	-	weak to medium
<input type="checkbox"/> Ear: glaucosity	strong	medium	strong	weak to medium	strong
<input type="checkbox"/> Ear: distribution of awns	fully awned				
<input checked="" type="checkbox"/> Ear: length of awns at tip relative to length of ear	longer	equal	equal	longer	longer
<input type="checkbox"/> Lower glume: shape	medium oblong	medium oblong	medium oblong	narrow oblong	ovoid
<input checked="" type="checkbox"/> Lower glume: shape of shoulder	sloping	sloping	rounded	elevated	elevated with a 2nd beak
<input checked="" type="checkbox"/> Lower glume: width of shoulder	narrow	narrow	narrow	narrow	medium to broad
<input checked="" type="checkbox"/> Lower glume: length of beak	short	short	short to medium	short to medium	medium to long
<input checked="" type="checkbox"/> Lower glume: curvature of beak	weak	absent	weak	absent	moderate
<input type="checkbox"/> Lower glume: hairiness of external surface	absent	absent	absent	absent	absent
<input type="checkbox"/> Straw: pith in cross section	thin	thin	thin	thin	thin
<input checked="" type="checkbox"/> Awn: colour	white	white	white	white	medium purple
<input type="checkbox"/> Ear: colouration	white	white	white	white	white
<input type="checkbox"/> Ear: density	medium	medium	medium	medium	medium to dense
<input type="checkbox"/> Grain: length of brush hair	short	short	short	short	short
<input type="checkbox"/> Grain: shape	moderately elongated	moderately elongated	moderately elongated	strongly elongated	moderately elongated
<input type="checkbox"/> Plant: seasonal type	spring type	spring type	spring type	spring type	spring type

Statistical Table

Organ/Plant Part: Context	'Westcourt'	'Caparoi'	'DBA Aurora'	'DBA Lillaroi'	'Hyperno'
<input checked="" type="checkbox"/> Ear: length (mm)					
Mean	80.80	78.30	87.00	72.60	77.25
Std. Deviation	2.00	4.66	1.80	0.99	0.49
LSD/sig	8.07	ns	ns	P≤0.01	ns

☒ Plant: days to heading (Julian days)					
Mean	255.50	253.00	252.60	247.00	252.00
Std. Deviation	1.89	1.00	2.10	1.00	0.00
LSD/sig	2.78	ns	P≤0.01	P≤0.01	P≤0.01
☒ Plant: height (cm)					
Mean	85.40	76.35	80.00	80.80	82.05
Std. Deviation	1.60	1.06	2.40	1.98	0.63
LSD/sig	4.37	P≤0.01	P≤0.01	ns	ns

Prior Applications and Sale

Nil.

Description: **Andrew Cecil**, Australian Grain Technologies Pty Ltd, Roseworthy, SA.

Details of Application	
Application Number	2012/138
Variety Name	'ANP-0118'
Genus Species	<i>Pyrus communis</i>
Common Name	European Pear
Synonym	
Accepted Date	07 Aug 2012
Applicant	Agriculture Victoria Services Pty Ltd, Attwood, Vic 3049
Agent	
Qualified Person	Susanna Turpin
Details of Comparative Trial	
Location	Macisaac Rd, Ardmona, VIC (-36.379° S, 145.302° E, elevation 114m).
Descriptor	UPOV TG/15/3
Period	2017 - 2019
Conditions	The trial trees were propagated in 2013 and planted adjacent to a block of Packham pears in Ardmona, VIC in July 2014. The trial trees were grown as an open vase on sprinkler irrigation and maintained to a commercial standard. They commenced fruiting across all cultivars in 2018.
Trial Design	'ANP-0118' was planted with 8 other pear cultivars, including its parents in unreplicated blocks of 5 to 10 trees each, across 3 rows at 5 x 2 m tree spacing. Crop load/tree was not sufficient on 'ANP-0118' in 2018 for cultivar comparisons so additional fruit was sourced from trial trees at Tatura and additional fruit harvest measurements taken in January 2019.
Measurements	Measurements and observations were taken according to UPOV guideline TG/15/3.
RHS Chart - edition	1996
Origin and Breeding	
Controlled pollination: 'ANP-0118' was produced from a controlled cross between 'Butirra Precoce Morettini' and 'Corella' in 1995 and selected from a population of 434 seedlings in 2001. The seedling selection was budded onto D6, Quince A and Quince A/Beurre Hardy rootstock and planted into a replicated trial in 2003 at Agriculture Victoria, Tatura. Trees under the name AP133 were also established in APFIP sites in Victoria and SA for evaluation on D6 and Quince A rootstock. Fruit productivity and quality evaluations commenced in 2007. Large scale commercial trials were established in the Goulburn Valley and Yarra Valley of Victoria in 2012 and also at Agriculture Victoria for evaluation of cultivar performance on a range of irrigation regimes, plant density and training systems and rootstocks. Fruit of 'ANP-0118' is differentiated from other pear varieties by its bright red blush, early ripening and crisp flesh texture that enables immediate consumption at harvest without cool storage. 'ANP-0118' has	

remained stable with no expression of off-types over 4 generations of propagation. ‘ANP-0118’ will be commercially propagated by vegetative cuttings of budwood from stock plants held by APFIP at Tahune Fields Nursery, Lucaston, TAS and by Agriculture Victoria, Tatura, VIC. Breeders: Graeme McGregor, Shiming Liu and Susanna Turpin, Victorian Department of Primary Industries, Tatura, Vic 3616.

Choice of Comparators Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge

Organ/Plant Part	Context	State of Expression in Group of Varieties
Flower	time of beginning of flowering	early
Fruit	hue of over colour	pink red
Time of	maturity for consumption	early
Fruit	size	small to medium

Most Similar Varieties of Common Knowledge identified (VCK)

Name	Comments
‘Rosemarie’	early blushed pear small to medium in size.

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with a tick.

Organ/Plant Part: Context	‘ANP-0118’	‘Rosemarie’
<input type="checkbox"/> Tree: vigour	medium to strong	medium to strong
<input type="checkbox"/> *Tree: branching	medium	medium
<input type="checkbox"/> *Tree: habit	upright	upright
<input type="checkbox"/> One-year-old shoot: growth	straight	straight
<input type="checkbox"/> One-year-old shoot: length of internode	medium	medium
<input type="checkbox"/> One-year-old shoot: predominant colour on sunny side	medium brown	orange brown
<input checked="" type="checkbox"/> One-year-old shoot: number of lenticels	few to medium	medium to many
<input type="checkbox"/> *One-year-old shoot: shape of apex of vegetative bud	acute	obtuse
<input checked="" type="checkbox"/> *One-year-old shoot: position of vegetative bud in relation to shoot	markedly held out	adpressed
<input type="checkbox"/> One-year-old shoot: size of bud support	medium	medium
<input type="checkbox"/> *Young shoot: anthocyanin colouration of growing tip	medium	medium
<input type="checkbox"/> *Young shoot: intensity of pubescence	weak	weak

<input type="checkbox"/> *Leaf blade: attitude in relation to shoot	outwards	outwards
<input type="checkbox"/> *Leaf blade: length	medium	medium
<input type="checkbox"/> *Leaf blade: width	medium	medium
<input type="checkbox"/> *Leaf blade: ratio length/width	medium	medium to large
<input type="checkbox"/> Leaf blade: shape of base	obtuse	obtuse
<input type="checkbox"/> Leaf blade: shape of apex	right-angled	right-angled
<input type="checkbox"/> Leaf blade: length of pointed tip	medium	medium
<input type="checkbox"/> Leaf blade: incisions of margin	sharply serrate	sharply serrate
<input type="checkbox"/> Leaf blade: depth of incisions of margin	shallow	shallow
<input type="checkbox"/> *Leaf blade: curvature of longitudinal axis	weak	weak to medium
<input type="checkbox"/> *Petiole: length	short to medium	medium
<input type="checkbox"/> *Petiole: presence of stipules	present	present
<input type="checkbox"/> *Petiole: distance of stipules from basal attachment of petiole	short	short
<input type="checkbox"/> Shoot: location of flower bud	mainly on spurs	mainly on spurs
<input type="checkbox"/> *Flower bud: length	medium	medium
<input type="checkbox"/> Flower sepal: length	short to medium	medium
<input type="checkbox"/> Flower: attitude of sepals in relation to corolla	spreading	spreading
<input type="checkbox"/> *Flower: position of margins of petals	overlapping	overlapping
<input type="checkbox"/> Flower: position of stigma in relation to stamens	above	above
<input type="checkbox"/> Flower: size of petal	medium	medium
<input type="checkbox"/> *Flower: shape of petal	circular	circular
<input type="checkbox"/> Flower: shape of base of petal	truncate	cordate
<input type="checkbox"/> Flower: length of claw of petal	short	short
<input type="checkbox"/> Immature fruit: colour of sepals	red-brown	red-brown
<input type="checkbox"/> Fruit: length	medium	medium
<input type="checkbox"/> Fruit: maximum diameter	medium	medium
<input checked="" type="checkbox"/> *Fruit: ratio length/diameter	small to medium	small
<input type="checkbox"/> *Fruit: position of maximum diameter	slightly towards calyx	slightly towards calyx
<input type="checkbox"/> *Fruit: size	small to medium	small to medium
<input type="checkbox"/> Fruit: symmetry	symmetric	symmetric
<input type="checkbox"/> *Fruit: profile of sides	straight	concave
<input type="checkbox"/> *Fruit: ground colour of skin	yellow	yellow
<input type="checkbox"/> *Fruit: relative area of over colour	medium	medium

<input type="checkbox"/> Fruit: hue of over colour	pink red	pink red
<input type="checkbox"/> Fruit: relative area of russet around eye basin	absent or very small	absent or very small
<input type="checkbox"/> Fruit: relative area of russet on cheeks	absent or very small	absent or very small
<input type="checkbox"/> Fruit: relative area of russet around stalk attachment	absent or very small	absent or very small
<input checked="" type="checkbox"/> *Fruit: length of stalk	short	short to medium
<input type="checkbox"/> *Fruit: thickness of stalk	thin	thin to medium
<input type="checkbox"/> Fruit: curvature of stalk	absent or very weak	weak to medium
<input type="checkbox"/> *Fruit: attitude of stalk in relation to axis of fruit	oblique	oblique
<input type="checkbox"/> *Fruit: depth of stalk cavity	shallow	shallow
<input type="checkbox"/> Fruit: attitude of sepals	erect	erect
<input type="checkbox"/> *Fruit: eye basin	present	present
<input type="checkbox"/> *Fruit: depth of eye basin	medium	medium
<input type="checkbox"/> *Fruit: width of eye basin	narrow	narrow to medium
<input type="checkbox"/> *Fruit: relief of area around eye	smooth	slightly ribbed
<input type="checkbox"/> Fruit: texture of flesh	fine	fine
<input type="checkbox"/> Fruit: firmness of flesh	medium	medium
<input type="checkbox"/> Fruit: juiciness of flesh	medium	medium
<input type="checkbox"/> *Seed: shape	elliptic	ovate
<input type="checkbox"/> *Time of: beginning of flowering	early	early
<input type="checkbox"/> *Time of: maturity for consumption	early	early

Characteristics Additional to the Descriptor/TG		
Organ/Plant Part: Context	‘ANP-0118’	‘Rosemarie’
<input checked="" type="checkbox"/> Fruit: Firmness (at harvest) (Kgf)	soft (4.5 - 5.4)	soft to medium (5.5 - 6.4)

Statistical Table		
Organ/Plant Part: Context	‘ANP-0118’	‘Rosemarie’
<input checked="" type="checkbox"/> Shoot: number of lenticels/cm		
Mean	8.60	17.80
Std. Deviation	1.67	2.77
LSD/sig	4.9	P ≤0.01
<input type="checkbox"/> Shoot: internode length (mm)		

Mean	33.08	37.72
Std. Deviation	1.86	4.05
LSD/sig	6.68	ns
<input type="checkbox"/> Leaf blade: length (mm)		
Mean	63.27	75.90
Std. Deviation	5.67	7.34
LSD/sig	12.63	ns
<input type="checkbox"/> Leaf blade: width (mm)		
Mean	44.04	43.97
Std. Deviation	5.31	4.85
LSD/sig	10.5	ns
<input type="checkbox"/> Leaf blade: ratio length/width		
Mean	1.45	1.73
Std. Deviation	0.12	0.12
LSD/sig	0.15	P ≤0.01
<input type="checkbox"/> Petiole: length (mm)		
Mean	17.04	21.84
Std. Deviation	2.61	2.76
LSD/sig	4.22	P ≤0.01
<input checked="" type="checkbox"/> Fruit: ratio length/diameter		
Mean	1.28	1.04
Std. Deviation	0.09	0.08
LSD/sig	0.08	P ≤0.01
<input checked="" type="checkbox"/> Fruit: length of stalk (mm)		
Mean	14.80	20.59
Std. Deviation	3.65	4.39
LSD/sig	3.02	P ≤0.01
<input type="checkbox"/> Fruit: thickness of stalk (mm)		
Mean	3.17	3.56
Std. Deviation	0.41	0.37
LSD/sig	0.28	P ≤0.01
<input type="checkbox"/> Fruit: depth of eye basin (mm)		
Mean	3.96	4.89

Std. Deviation	1.15	1.05
LSD/sig	1.33	ns
<input type="checkbox"/> Fruit: width of eye basin (mm)		
Mean	19.52	23.77
Std. Deviation	1.84	2.40
LSD/sig	2.91	P ≤0.01
<input checked="" type="checkbox"/> Fruit: firmness (at harvest) (Kgf)		
Mean	4.80	6.20
Std. Deviation	0.29	0.35
LSD/sig	0.4	P ≤0.01
<input type="checkbox"/> Fruit: firmness (1 month cool storage) (Kgf)		
Mean	1.50	1.55
Std. Deviation	0.29	0.26
LSD/sig	0.45	ns
<input type="checkbox"/> Fruit: sugar (at harvest) (brix)		
Mean	14.20	14.56
Std. Deviation	0.57	0.89
LSD/sig	1.37	ns
<input type="checkbox"/> Fruit: sugar (1 month cool storage) (brix)		
Mean	15.09	14.31
Std. Deviation	0.82	0.66
LSD/sig	1.02	ns

Prior Applications and Sales:

No prior applications and sale.

Description: **Susanna Turpin**, Tatura, VIC 3616

Details of Application	
Application Number	2012/137
Variety Name	'ANP-0131'
Genus Species	<i>Pyrus communis</i>
Common Name	European Pear
Synonym	
Accepted Date	07 Aug 2012
Applicant	Agriculture Victoria Services Pty Ltd, Attwood, Vic 3049
Agent	
Qualified Person	Susanna Turpin
Details of Comparative Trial	
Location	Macisaac Rd, Ardmona, VIC (-36.379° S, 145.302° E, elevation 114m).
Descriptor	UPOV TG/15/3
Period	2017 - 2019
Conditions	The trial trees were propagated in 2013 and planted adjacent to a block of Packham pears in Ardmona, VIC in July 2014. The trial trees were grown as an open vase on sprinkler irrigation and maintained to a commercial standard. They commenced fruiting across all cultivars in 2018.
Trial Design	'ANP-0131' was planted with 8 other pear cultivars, including its parents in unreplicated blocks of 5 to 10 trees each, across 3 rows at 5 x 2 m tree spacing.
Measurements	Measurements and observations were taken according to UPOV guideline TG/15/3.
RHS Chart - edition	1996
Origin and Breeding	
<p>Controlled pollination: 'ANP-0131' was produced from a controlled cross between Corella and 'Doyenne du Comice' in 1995 and selected from a population of 182 seedlings in 2001. The seedling selection was budded onto D6, Quince A and Quince A/Beurre Hardy rootstock and planted into a replicated trial in 2003 at Agriculture Victoria, Tatura. Trees under the name AP135 were also established in APFIP sites in Victoria and SA for evaluation on D6 and Quince A rootstock. Fruit productivity and quality evaluations commenced in 2007. Large scale commercial trials were established in the Goulburn Valley and Yarra Valley of Victoria in 2012 and also at Agriculture Victoria for evaluation of cultivar performance on a range of irrigation regimes, plant density and training systems and rootstocks. Fruit of 'ANP-0131' is differentiated from other pear varieties by its strong red blush over a green colored skin (bicoloured) and long storage potential. 'ANP-0131' has remained stable with no expression of off-types over 4 generations of propagation. 'ANP-0131' will be commercially propagated by vegetative cuttings of budwood from stock plants held by APFIP at Tahune Fields Nursery, Lucaston, TAS and by Agriculture Victoria, Tatura, VIC. Breeders: Graeme McGregor, Shiming Liu and Susanna Turpin, Victorian Department of Primary Industries, Tatura, Vic 3616.</p>	

Choice of Comparators Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge		
Organ/Plant Part	Context	State of Expression in Group of Varieties
Flower	time of beginning of flowering	early
Fruit	ground colour of skin	green
Fruit	hue of over colour	dark red
Most Similar Varieties of Common Knowledge identified (VCK)		
Name	Comments	
'Celina'		
'Corella'	Female parent	
'Forelle'		

Varieties of Common Knowledge identified and subsequently excluded					
Variety	Distinguishing Characteristics		State of Expression in Candidate Variety	State of Expression in Comparator Variety	Comments
'Celina'	Fruit	Time of maturity for consumption	medium to late	early	

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with a tick or cross.			
Organ/Plant Part: Context	'ANP-0131'	'Corella'	'Forelle'
<input type="checkbox"/> Tree: vigour	medium to strong	medium	medium
<input type="checkbox"/> *Tree: branching	medium	medium	medium
<input type="checkbox"/> *Tree: habit	upright	semi-upright	semi-upright
<input type="checkbox"/> One-year-old shoot: growth	straight		
<input type="checkbox"/> One-year-old shoot: length of internode	medium	medium	medium
<input type="checkbox"/> One-year-old shoot: predominant colour on sunny side	brown red	brown red	brown red
<input type="checkbox"/> One-year-old shoot: number of lenticels	medium	medium	medium
<input type="checkbox"/> *One-year-old shoot: shape of apex of vegetative bud	acute	acute	acute
<input type="checkbox"/> *One-year-old shoot: position of vegetative bud in relation to shoot	adpressed	adpressed	adpressed

<input type="checkbox"/> One-year-old shoot: size of bud support	large	medium	medium
<input type="checkbox"/> *Young shoot: anthocyanin colouration of growing tip	strong	strong	strong
<input type="checkbox"/> *Young shoot: intensity of pubescence	medium to strong	strong	strong
<input type="checkbox"/> *Leaf blade: attitude in relation to shoot	upwards	upwards	upwards
<input type="checkbox"/> *Leaf blade: length	short to medium	short to medium	short to medium
<input type="checkbox"/> *Leaf blade: width	medium	medium	medium
<input checked="" type="checkbox"/> *Leaf blade: ratio length/width	small to medium	medium	medium
<input type="checkbox"/> Leaf blade: shape of base	obtuse	obtuse	obtuse
<input type="checkbox"/> Leaf blade: shape of apex	right-angled	right-angled	right-angled
<input type="checkbox"/> Leaf blade: length of pointed tip	medium	medium to long	medium to long
<input type="checkbox"/> Leaf blade: incisions of margin	sharply serrate	sharply serrate	sharply serrate
<input type="checkbox"/> Leaf blade: depth of incisions of margin	shallow	shallow	shallow
<input type="checkbox"/> *Leaf blade: curvature of longitudinal axis	weak	weak	weak
<input type="checkbox"/> *Petiole: length	short to medium	short to medium	short to medium
<input type="checkbox"/> *Petiole: presence of stipules	present	present	present
<input type="checkbox"/> *Petiole: distance of stipules from basal attachment of petiole	short	short	short
<input type="checkbox"/> Shoot: location of flower bud	mainly on spurs	mainly on spurs	mainly on spurs
<input type="checkbox"/> *Flower bud: length	medium	medium	medium
<input type="checkbox"/> Flower sepal: length	medium	short to medium	short to medium
<input type="checkbox"/> Flower: attitude of sepals in relation to corolla	spreading	spreading	spreading
<input type="checkbox"/> *Flower: position of margins of petals	overlapping	overlapping	overlapping
<input checked="" type="checkbox"/> Flower: position of stigma in relation to stamens	same level	above	above
<input type="checkbox"/> Flower: size of petal	medium	medium	medium
<input type="checkbox"/> *Flower: shape of petal	broad ovate	circular	circular
<input type="checkbox"/> Flower: shape of base of petal	truncate	truncate	truncate
<input type="checkbox"/> Flower: length of claw of petal	short	short	short
<input type="checkbox"/> Immature fruit: colour of sepals	red	red	red

<input type="checkbox"/> Fruit: length	medium	medium	medium
<input type="checkbox"/> Fruit: maximum diameter	medium to large	medium	medium
<input checked="" type="checkbox"/> *Fruit: ratio length/diameter	small	small to medium	small to medium
<input type="checkbox"/> *Fruit: position of maximum diameter	slightly towards calyx	slightly towards calyx	slightly towards calyx
<input checked="" type="checkbox"/> *Fruit: size	medium to large	small to medium	small to medium
<input type="checkbox"/> Fruit: symmetry	symmetric	symmetric	symmetric
<input type="checkbox"/> *Fruit: profile of sides	straight	straight	straight
<input type="checkbox"/> *Fruit: ground colour of skin	green	green	green
<input type="checkbox"/> *Fruit: relative area of over colour	medium	medium	medium
<input type="checkbox"/> Fruit: hue of over colour	dark red	dark red	dark red
<input type="checkbox"/> Fruit: relative area of russet around eye basin	absent or very small	absent or very small	absent or very small
<input type="checkbox"/> Fruit: relative area of russet on cheeks	absent or very small	absent or very small	absent or very small
<input type="checkbox"/> Fruit: relative area of russet around stalk attachment	absent or very small	absent or very small	absent or very small
<input type="checkbox"/> *Fruit: length of stalk	short to medium	short to medium	short to medium
<input type="checkbox"/> *Fruit: thickness of stalk	thin	thin	thin
<input type="checkbox"/> Fruit: curvature of stalk	absent or very weak	very weak to weak	very weak to weak
<input type="checkbox"/> *Fruit: attitude of stalk in relation to axis of fruit	oblique	oblique	oblique
<input type="checkbox"/> *Fruit: depth of stalk cavity	shallow	shallow	shallow
<input type="checkbox"/> Fruit: attitude of sepals	erect	erect	spreading
<input type="checkbox"/> *Fruit: eye basin	present	present	present
<input type="checkbox"/> *Fruit: depth of eye basin	medium	medium	medium
<input type="checkbox"/> *Fruit: width of eye basin	narrow to medium	narrow to medium	narrow to medium
<input type="checkbox"/> *Fruit: relief of area around eye	smooth	slightly ribbed	slightly ribbed
<input type="checkbox"/> Fruit: texture of flesh	fine	fine	fine
<input type="checkbox"/> Fruit: firmness of flesh	medium	medium	medium
<input type="checkbox"/> Fruit: juiciness of flesh	medium	medium	medium
<input type="checkbox"/> *Seed: shape	ovate	ovate	ovate
<input type="checkbox"/> *Time of: beginning of flowering	early	early	early
<input type="checkbox"/> *Time of: maturity for consumption	medium to late	medium to late	medium to late

Characteristics Additional to the Descriptor/TG			
Organ/Plant Part: Context	'ANP-0131'	'Corella'	'Forelle'
<input checked="" type="checkbox"/> Fruit: Firmness (at harvest) (Kgf)	soft (4.5 - 5.4)	medium (6.5 - 7.4)	medium (6.7 - 7.4)

Statistical Table			
Organ/Plant Part: Context	'ANP-0131'	'Corella'	'Forelle'
<input type="checkbox"/> Flower: flower number/cluster			
Mean	5.24	7.13	6.23
Std. Deviation	1.45	1.70	1.41
Lsd/sig	1.55 (corella); 1.37 (Forelle)	P≤0.01	ns
<input type="checkbox"/> Shoot: number of lenticels/cm			
Mean	10.60	11.80	11.40
Std. Deviation	3.36	1.64	1.14
Lsd/sig	4.36	ns	ns
<input type="checkbox"/> Shoot: internode length (mm)			
Mean	36.86	34.36	39.50
Std. Deviation	2.96	3.00	5.25
Lsd/sig	7.51	ns	ns
<input type="checkbox"/> Leaf blade: length (mm)			
Mean	66.15	64.39	68.42
Std. Deviation	9.24	10.13	4.33
Lsd/sig	15.91	ns	ns
<input type="checkbox"/> Leaf blade: width (mm)			
Mean	52.03	40.84	44.68
Std. Deviation	9.36	7.38	3.46
Lsd/sig	13.95	ns	ns
<input checked="" type="checkbox"/> Leaf blade: ratio length/width			
Mean	1.28	1.59	1.54
Std. Deviation	0.08	0.12	0.09
Lsd/sig	0.14	P≤0.01	P≤0.01
<input type="checkbox"/> Petiole: length (mm)			
Mean	17.63	15.41	15.71
Std. Deviation	1.79	2.89	2.02

Lsd/sig	3.52	ns	ns
<input checked="" type="checkbox"/> Fruit: ratio length/diameter			
Mean	1.08	1.31	1.18
Std. Deviation	0.06	0.09	0.08
Lsd/sig	0.10 (corella); 0.10 (forelle)	P \leq 0.01	P \leq 0.01
<input type="checkbox"/> Fruit: length of stalk (mm)			
Mean	17.90	23.10	21.30
Std. Deviation	3.60	4.20	3.80
Lsd/sig	4.74 (corella); 5.03 (Forelle)	ns	ns
<input type="checkbox"/> Fruit: thickness of stalk (mm)			
Mean	3.15	3.32	3.11
Std. Deviation	0.42	0.35	0.38
Lsd/sig	0.44 (corella); 0.47 (forelle)	ns	ns
<input type="checkbox"/> Fruit: depth of eye basin (mm)			
Mean	7.28	6.61	6.76
Std. Deviation	1.58	1.45	0.94
Lsd/sig	0.83 (corella); 0.88 (forelle)	ns	ns
<input type="checkbox"/> Fruit: width of eye basin (mm)			
Mean	23.86	24.46	22.08
Std. Deviation	3.41	3.45	2.27
Lsd/sig	2.14 (corella); 2.27 (forelle)	ns	ns
<input type="checkbox"/> Fruit: firmness (1 month cool storage) (Kgf)			
Mean	3.00	3.30	3.30
Std. Deviation	0.90	0.50	0.30
Lsd/sig	0.98 (corella); 1.04 (forelle)	ns	ns
<input type="checkbox"/> Fruit: sugar (1 month cool storage) (brix)			
Mean	15.90	17.00	18.30
Std. Deviation	0.60	1.20	0.80
Lsd/sig	1.21 (corella); 1.28	ns	P \leq 0.01

	(forelle)		
<input checked="" type="checkbox"/> Fruit: weight (g)			
Mean	204.44	171.88	145.47
Std. Deviation	27.24	20.68	25.16
Lsd/sig	26.9	P ≤ 0.01	P ≤ 0.01
<input checked="" type="checkbox"/> Fruit: firmness (at harvest) (Kgf)			
Mean	4.74	7.33	7.16
Std. Deviation	0.61	0.52	0.41
Lsd/sig	0.53	P ≤ 0.01	P ≤ 0.01
<input type="checkbox"/> Fruit: sugar (at harvest) (brix)			
Mean	14.22	15.55	16.77
Std. Deviation	0.84	0.80	0.54
Lsd/sig	0.88	P ≤ 0.01	P ≤ 0.01

Prior Applications and Sales:

No prior applications and sale.

Description: **Susanna Turpin**, Tatura, VIC 3616

Details of Application	
Application Number	2019/064
Variety Name	'CM142'
Genus Species	<i>Epichloe festucae</i> var. <i>lolii</i>
Common Name	Fungal Endophyte
Accepted Date	19 Sep 2019
Applicant	Cropmark Seeds Australia Pty Ltd, South Melbourne, VIC
Qualified Person	Nick Cameron
Details of Comparative Trial	
Overseas Testing Authority	Intellectual Property Office, New Zealand
Overseas Data Reference Number	FEN029
Location	AgResearch Laboratory, Palmerston North, New Zealand
Descriptor	Objective Description for Endophyte 10/18
Period	2018
Conditions	Colonies were grown on potato dextrose agar (PDA) at 20° C in the dark from fresh isolations of endophyte varieties from plant material supplied by the strain's owners as axenic cultures on PDA. Five plates of each variety were used in the study. A total of 9 segments were plated onto each PDA plate with 8 segments spaced evenly around the perimeter of the plate and one piece plated centrally. After 2 months subcultures were taken with 5 pieces plated onto each plate with 4 pieces spaced evenly around the perimeter of the plate and one piece plated centrally. These subcultures were taken from the margins of the colonies. After 5 weeks growth these subcultures were used to obtain plugs for the final test plates.
Trial Design	A completely random design.
Measurements	1. Colony: rate of growth: Colony radial diameter was measured (two diameters, at right angles, per plate) after 4 weeks growth. Radial growth rate per day will be calculated and rated "very slow", "very slow to slow", "slow", "slow to medium", "medium", "medium to rapid", "rapid", "rapid to very rapid", or "very rapid". 2. Colony: sporulation: Colonies grown on PDA were examined under a stereo/dissecting microscope after 4 weeks. Confirmation of sporulation was determined through preparing slides and examining them under compound microscope at approximately 400x. Sporulation is rated as "absent" or "present". 3. Conidia: length: 25 conidia (from at least 2 duplicate plates) was measured using a 40x microscope objective and a ColorView imaging analysis system. The spore range, mean, and a descriptive term ("very short", "very short to short", "short", "short to medium", "medium", "medium to long", "long", "long to very long", or "very long") was given. ("medium" is 7–9 µm.) 4. Conidia: width: 25 conidia (from at least 2 duplicate plates) was measured using a 40x microscope

	<p>objective and a ColorView imaging analysis system. The spore range, mean, and a descriptive term (“very narrow”, “very narrow to narrow”, “narrow”, “medium to narrow”, “medium”, “medium to broad”, “broad”, “broad to very broad” or “very broad”) was given. (“medium” is ~4 µm.) 5. Colony: degree of immersion of margin in agar: Each of the 5 duplicate plates from 1) above was examined after 4 weeks of growth and the degree of immersion of the colony margin in agar was characterised as 1 = “absent or very low”, 2 = “low”, 3 = “medium”, or 4 = “high” for the amount of hyphae submerged in agar. 6. Colony: convolution: Each of the 5 duplicate plates from 1) above was examined after 4 weeks of growth and the degree of convolution present will be scored as 1 = “absent to very low”, 2 = “low”, 3 = “medium”, 4 = “high”. 7. Colony: shape of outer margin in agar: Each of the 5 duplicate plates from 1) above was examined after 4 weeks of growth and the outer margin of the colony as viewed from below will be scored as either 1 = “regular” or 2 = “irregular”. 8. Aerial mycelium: type: Each of the 5 duplicate plates from 1) above was examined after 4 weeks of growth and the aerial mycelium determined as “1 = waxy appearance”; “2 = waxy to cottony appearance”; “3 = cottony / fluffy appearance”; “4 = fluffy to fibrous appearance”; “5 = fibrous appearance”; “6 = powdery appearance” 9. Each of the 5 plates for each strain was assessed for isolates that were not true to type (called off types). If any off type isolates were observed during the trial then the number of off type isolates were recorded and described as to why they were different with photographs showing the differences. 10. Metabolite: Concentration of peramine, concentration of lolitrem B, concentration of ergovaline, N-formyl loline presence/absence, N-acetyl loline presence/absence, N-acetyl norloline presence/absence and Epoxyjanthitrem presence/absence.</p>
RHS Chart - edition	N/A
Origin and Breeding	
<p>‘CM142’ endophyte originates from a <i>Lolium perenne</i> ecotype A22356 from Greece in 2012. Cropmark Seeds requested this accession from the Margot Forde Germ Plasm Centre in 2015. The first step was to DNA profile this seed material using two SSR markers which identified the presence of two different endophyte strains within this accession. Further to this, seedlings of this line were grown and endophyte presence was examined for each seedling using a print tissue immunoblot procedure. All positive plants were DNA profiled to identify the endophyte strains separately. A subsample of a plant for each endophyte strain was grown for alkaloid profiling. Testing was carried out using an HPLC for ergovaline, Lolitrem B, peramine and epoxy-janthitrem presence. ‘CM142’ was isolated as a strain producing only epoxy-janthitrem onto Potato Dextrose Agar media using a small length of stem tissue. This material was further sub-cultured and used for inoculation work into a range of ryegrass host germplasm. This inoculation work allowed further investigation of</p>	

'CM142' showing improved inoculation ability, improved vertical transmission and improved resistance to fungicides when compared to the 'AR37' cultivar.

Choice of Comparators Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge

Organ/Plant Part	Context	State of Expression in Group of Varieties
Colony	sporulation	absent
Colony	degree of immersion of margin in agar	absent or very low
Colony	degree of convolution	medium
Colony	shape of outer margin	irregular

Most Similar Varieties of Common Knowledge identified (VCK)

Name	Comments
'Nea 3'	
'AR37'	

Varieties of Common Knowledge identified and subsequently excluded

Variety	Distinguishing Characteristics	State of Expression in Candidate Variety	State of Expression in Comparator Variety	Comments
'AR37'	Colony Growth rate	very slow to slow	slow to medium	

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with a **x**.

Organ/Plant Part: Context	'CM142'	'Nea 3'
<input checked="" type="checkbox"/> Colony: rate of growth (of subculture)	very slow to slow	slow to medium
<input type="checkbox"/> Colony: sporulation	absent	absent
<input type="checkbox"/> Colony: immersion of margin in agar	absent	absent
<input type="checkbox"/> Colony: convolution	medium	medium
<input type="checkbox"/> Metabolite: Peramine	absent	present
<input type="checkbox"/> Metabolite: Lolitrem B	absent	absent
<input type="checkbox"/> Metabolite: Ergovaline	absent	present
<input type="checkbox"/> Metabolite: epoxyjanthitrem	present	absent

Characteristics Additional to the Descriptor/TG

Organ/Plant Part: Context	'CM142'	'Nea 3'
<input type="checkbox"/> Colony: shape of outer margin	irregular	irregular
<input type="checkbox"/> Aerial: mycelium type	waxy appearance	waxy

Statistical Table		
Organ/Plant Part: Context	'CM142'	'Nea 3'
<input checked="" type="checkbox"/> Colony: Rate of growth		
Mean (mm)	4.69	9.85
Std. Deviation (mm)	1.26	1.67
LSD/sig	2.52	P≤0.01

Prior Applications and Sales:

Country	Year	Status	Name Applied
New Zealand	2016	Granted	'CM142'

Nil prior sales.

Description: **Nik Cameron**, Christchurch, New Zealand.

Details of Application		
Application Number	2013/159	
Variety Name	'IFG 104-253'	
Genus Species	<i>Vitis vinifera</i>	
Common Name	Grape vine	
Synonym	IFG Two	
Accepted Date	28 Jan 2014	
Applicant	International Fruit Genetics LLC, Bakersfield, CA 93307, USA	
Agent	Darron Saltzman, Brighton North, VIC 3186	
Qualified Person	Alison MacGregor	
Details of Comparative Trial		
Location	Merbein South, Victoria	
Descriptor	Grapevine UPOV TG/50/9	
Period	January 2014 to March 2017	
Conditions	'IFG 104-253' vines were grafted onto 'Paulsen' rootstock in a commercial vineyard in North West Victoria in 2013. Plant measurements commenced in January 2014 and were completed in March 2017. The vines were managed according to the weed, nutrition, irrigation and pest management program of the rest of the commercial vineyard.	
Trial Design	The candidate and two comparators were planted in a replicated trial with a randomised block design. Each plot contained four vines, with five replicates. The candidate was also compared with two other varieties in unreplicated trial plots grown near the replicated trial.	
Measurements	Observations from the candidate were compared against the comparators and the description in the US patent number US PP20,377 P2 dated October 6 2009. Observations were made at budburst and subsequently on new shoots, young leaves, mature leaves, berries, bunches and canes.	
RHS Chart - edition	RHS colour chart fifth edition reprinted in 2007	
Origin and Breeding		
Controlled pollination: The new variety is the result of a cross of the 'Princess' (Australian PBR application no. 2004/001) as the seed parent and 'Regal Seedless' (IP Australia 2003/008) as the pollen parent; the cross was hybridised by hand pollination in May 2001. Seedling vines were planted in April 2002. The present variety was selected as a single plant in July 2003 and asexually propagated via hardwood cuttings in December 2003 for planting in an evaluation block. The vines were found to reproduce true to type for a further two generations of asexual reproduction. Breeder: David Cain, International Fruit Genetics LLC, Bakersfield, CA 93307, USA.		
Choice of Comparators Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge		
Organ/Plant Part	Context	State of Expression in Group of Varieties
Berry	colour of skin (without bloom)	yellow green
Berry	formation seeds	rudimentary or none (seedless)

Berry	harvest maturity (in Australia)	early to mid season			
Berry	overall shape	elongated			
Berry	particular flavour	none			
Most Similar Varieties of Common Knowledge identified (VCK)					
Name	Comments				
'Regal Seedless'	Mid-season, elongated seedless berry				
'Blanc Seedless'	Mid-season, elongated seedless white berry				
'Sweet sunshine'	US patent description included here for comparison with local trial observations				
'Sheegene 2' (Timpson)	Early to mid-season white, seedless, ellipsoid berry				
'Dawn Seedless'	Early to mid-season, broad ellipsoid, white, seedless berry				
Varieties of Common Knowledge identified above and subsequently excluded					
Variety	Distinguishing Characteristic		State of Expression in Candidate Variety	State of Expression in Comparator Variety	Comments
'Princess'	berry	flavour	no flavour	muscat flavour	
'Grapecous'	berry	flavour	no flavour	muscat flavour	
'Sugraeighteen'	berry	flavour	no flavour	muscat	
'Sheegene 9' (Melanie)	berry	shape	elongated	globose or ovoid	
'Thompson Seedless'	berry	natural size without GA	large	small	the candidate produces a naturally large berry
'Sweet Angie'	berry	shape	narrow ellipsoid	slightly bean-shaped	
'Dawn Seedless'	berry	shape	narrow ellipsoid	broad ellipsoid	'Dawn seedless' is fruitful when spur pruned. The candidate is cane pruned
Organ/Plant Part: Context		'IFG 104-253'	'Blanc Seedless'	'Regal Seedless'	'Sheegene 2' (Timpson)
<input checked="" type="checkbox"/>	* Time of: bud burst	medium to late	early	late	medium to late
<input type="checkbox"/>	*Young shoot: openness of tip	wide open	fully open	half open	half open

<input checked="" type="checkbox"/> *Young shoot: prostrate hairs on tip	absent or very sparse	medium to dense	absent or very sparse	dense
<input type="checkbox"/> *Young shoot: anthocyanin colouration of prostrate hairs on tip	absent or very weak	absent or very weak	absent or very weak	weak
<input type="checkbox"/> Young shoot: erect hairs on tip	absent or very sparse	absent or very sparse		medium
<input checked="" type="checkbox"/> *Young leaf: colour of upper side of blade	yellow green	light copper red	green with anthocyanin spots	green with anthocyanin spots
<input type="checkbox"/> *Young leaf: prostrate hairs between main veins on lower side of blade	absent or very sparse			
<input type="checkbox"/> Young leaf: erect hairs on main veins on lower side of blade	absent or very sparse			
<input type="checkbox"/> Shoot: attitude (before tying)	semi-drooping	semi-erect	horizontal to semi-drooping	semi-erect
<input checked="" type="checkbox"/> Shoot: colour of dorsal side of internodes	green and red	green	green and red	green and red
<input type="checkbox"/> *Shoot: colour of ventral side of internodes	green	green	green	green and red
<input checked="" type="checkbox"/> Shoot: colour of dorsal side of nodes	green	green		red
<input checked="" type="checkbox"/> Shoot: colour of ventral side of nodes	green	green		red
<input type="checkbox"/> Shoot: erect hairs on internodes	absent or very sparse			
<input type="checkbox"/> Shoot: length of tendrils	long	long	long	long
<input type="checkbox"/> *Flower: sexual organs	fully developed stamens and fully developed gynoecium			
<input type="checkbox"/> *Mature leaf: size of blade	medium to large	large	large	medium to large
<input type="checkbox"/> *Mature leaf: shape of blade	wedge-shaped (*pentagonal)	circular	circular	circular
<input type="checkbox"/> Mature leaf: blistering of upper side of blade	weak	absent or very weak	absent or very weak	absent or very weak

<input checked="" type="checkbox"/> *Mature leaf: number of lobes	three	five	five	five
<input type="checkbox"/> Mature leaf: depth of upper lateral sinuses	medium (*deep)	medium	shallow to medium	medium to deep
<input type="checkbox"/> Mature leaf: arrangement of lobes of upper lateral sinuses (varieties with lobed leaves only)	open	slightly overlapped	closed	closed
<input type="checkbox"/> *Mature leaf: arrangement of lobes of petiole sinus	half open	half open	slightly open	half open
<input type="checkbox"/> *Mature leaf: length of teeth	medium	medium	medium to long	medium
<input type="checkbox"/> *Mature leaf: ratio length/width of teeth	small	medium	medium	medium
<input type="checkbox"/> *Mature leaf: shape of teeth	mixture of both sides straight and both sides convex (*both straight)	mixture of both sides straight and both sides convex	mixture of both sides straight and both sides convex	both sides convex
<input type="checkbox"/> *Mature leaf: proportion of main veins on upper side of blade with anthocyanin colouration	absent or very low	absent or very low	absent or very low	absent or very low
<input type="checkbox"/> Mature leaf: prostrate hairs between main veins on lower side of blade	absent or very sparse	absent or very sparse	absent or very sparse	absent or very sparse
<input type="checkbox"/> *Mature leaf: erect hairs on main veins on lower side of blade	sparse	absent or very sparse	absent or very sparse	absent or very sparse
<input type="checkbox"/> Mature leaf: length of petiole compared to length of middle vein	moderately shorter	moderately shorter	equal	moderately shorter
<input checked="" type="checkbox"/> *Time of: beginning of berry ripening	early to medium	early	medium to late	early to medium
<input type="checkbox"/> *Bunch: size (peduncle excluded)	medium to large	large	medium to large	medium
<input checked="" type="checkbox"/> *Bunch: density	medium	medium	lax to medium	lax
<input type="checkbox"/> Bunch: length of peduncle of primary bunch	Short (*medium)	medium	short	short
<input type="checkbox"/> *Berry: size	medium	large	medium to large	large
<input type="checkbox"/> *Berry: shape	narrow ellipsoid	cylindrical	narrow ellipsoid	narrow ellipsoid

<input type="checkbox"/> *Berry: colour of skin (without bloom)	yellow green	yellow green	yellow green	yellow green
<input checked="" type="checkbox"/> Berry: ease of detachment from pedicel	moderately easy	moderately easy	difficult	difficult
<input type="checkbox"/> Berry: thickness of skin	Thick (*medium)	thick	medium	medium
<input type="checkbox"/> *Berry: anthocyanin colouration of flesh	absent or very weak	absent or very weak	absent or very weak	absent or very weak
<input checked="" type="checkbox"/> Berry: firmness of flesh	moderately firm	moderately firm	soft or slightly firm	moderately firm
<input type="checkbox"/> *Berry: particular flavour	none	none	none	none
<input type="checkbox"/> *Berry: formation of seeds	rudimentary	rudimentary	rudimentary	none
<input type="checkbox"/> Woody shoot: main colour	orange brown (*yellowish brown)	yellowish brown	yellowish brown	orange brown
Organ/Plant Part: Context	'IFG 104-253'	'Blanc Seedless'	'Regal Seedless'	'Sheegene 2' (Timpson)
<input type="checkbox"/> Berry: length (mm)	27		33	24
<input type="checkbox"/> Berry: width (mm)	17		18	16
<input type="checkbox"/> Berry: average weight (g)	5.8		6.7	4.3
<input type="checkbox"/> Mature leaf: Length of main vein (mm)	91		121	82
<input type="checkbox"/> Mature leaf: width (mm)	117		165 mm	114
<input checked="" type="checkbox"/> Berry: shape at the tip	tapered	rounded	rounded	rounded

Prior Applications and Sales:First sold in USA on 25th July 2008

Country	Year	Status	Name Applied
USA	2008	Granted	'IFG 104-253'
South Africa	2009	Granted	'IFG Two'
EU	2009	Granted	'IFG Two'
Chile	2012	Granted	'IFG Two'

Description: Alison MacGregor, Mildura Victoria

Details of Application	
Application Number	2016/312
Variety Name	'Mystique'
Genus Species	<i>Vitis vinifera</i>
Common Name	Grape vine
Synonym	
Accepted Date	13 Jan 2017
Applicant	Commonwealth Scientific and Industrial Research Organisation, Acton, ACT 2601, Australia
Agent	
Qualified Person	Peter Clingeffer
Details of Comparative Trial	
Location	CSIRO, Agriculture and Food farm, 447 Dow Avenue, Irymple, Victoria
Descriptor	UPOV TG for Grapevine (TG/50/9)
Period	Measurements for the potted trial were collected in December 2017
Conditions	MD 01-3-45 (now 'Mystique') and common knowledge red flesh varieties available in Australia were propagated from dormant cuttings collected during winter 2016. The comparator trial was planted in October 2016. The red flesh comparator varieties included 'Dunkelfelder' (also the male parent), Dornfelder, Alicante Bouschet, Gamay de Bouze, Petit Bouschet, Royalty and Rubired. The cuttings were rooted in sand before transfer to standard potting mix in 4.5 L pots in October 2016 and maintained in the shadehouse at the CSIRO Irymple farm. The potted vines were pruned to a 2-bud spur in winter 2017 and allowed to grow as a single shoot by removing lateral buds. 'Mystique' and all comparator varieties are also maintained in the field at the CSIRO Irymple farm in multiplied plots.
Trial Design	The experimental layout was a fully randomized block design, replicated 15 times. Each variety was allocated a random position with each block.
Measurements	Ampelographic data following descriptors provided for Grapevine (<i>Vitis</i> spp.) by IPGRI 1997 (UPOV, OIV) were recorded for vines grown under field conditions in the 2017/2018 growing season. Following initial groupings, the most similar varieties were identified as 'Dunkelfelder' and 'Petit Bouschet'. Measurements of vines in the replicated potted trial were recorded in December 2017. The first fully expanded leaf from the shoot tip was selected for assessment. Measurements included Leaf lamina length (L1), recorded from the point at which the petiole attached to the mid-apex of the leaf. Similar measurements were made between the point at which the lamina attached to the apices of the distal lobes (L2, R2) and the proximal

	lobes (L3, R3). Petiole length (P) and leaf width between the distal (W1) and proximal lobes (W2) were also recorded. The measurements were used to calculate a number of ratios. Statistically, based on these measurements, 'Mystique' and Petit Bouschet could not be distinguished. Hence, other grouping traits were used to describe differences between 'Mystique' and Petit Bouschet. Hence, Petit Bouschet was removed as a comparator in the final statistical analysis.
RHS Chart - edition	
Origin and Breeding	
<p>Controlled pollination: 'Mystique', evaluated with the code MD 01-3-45, is a grapevine variety selected from a family produced by making a controlled cross between a CSIRO-bred selection MI 89-33-23 (female parent) and the red flesh variety, 'Dunkelfelder' (pollen parent). The female parent MI 89-33-23 originated from a cross between Sumoll and Cabernet Sauvignon and Ruby Cabernet (a cross between Cabernet Sauvignon and Carignan). 'Dunkelfelder' is a cross between Madeline Angevine and Teinturer du Cher. Consequently, the final genetic make-up of 'Mystique' is 25% Cabernet Sauvignon, 12.5% Sumoll, 12.5% Carignan, 25% Madeline Angevine and 25% Teinturer du Cher (red flesh). The controlled pollination was undertaken by CSIRO at its former Merbein site in spring 2000. The resultant seeds were extracted from fruits in autumn 2001 and sown in a standard seed bed under glasshouse conditions. Emergent seedlings were transferred to a standard potting mix in pots and maintained under glasshouse conditions until they were rowed out in the breeding vineyard during spring 2001 at a planting density of 1.0m within and 3.0m between rows. Hybrid seedlings were maintained under irrigated vineyard conditions until removal in 2011 when the Merbein site was closed. 'Mystique' (MD 01-03-45) was identified as a selection with red flesh and intense red juice in February 2007. Daughter vines of 'Mystique', propagated from the original seedling vine by vegetative means, are uniform and stable. Similarly, grand-daughter vines are uniform and stable. Vines of 'Mystique' have also been propagated by grafting or budding to clonal rootstocks, confirming its uniformity and stability. Breeder: Commonwealth Scientific and Industrial Research Organisation, Australia.</p>	

Choice of Comparators Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge		
Organ/Plant Part	Context	State of Expression in Group of Varieties
Berry	anthocyanin colouration of flesh	very strong
Mature leaf	size of blade	medium
Shoot	colour of ventral side of internodes	green
Young shoot	openness of tip	half open
Flower	sexual organs	fully developed stamens and fully developed gynoecium
Berry	colour of skin (without bloom)	blue black

Berry	particular flavour	none
Most Similar Varieties of Common Knowledge identified (VCK)		
Name	Comments	
‘Dunkelfelder’	male parent of ‘Mystique’.	

Varieties of Common Knowledge identified and subsequently excluded					
Variety	Distinguishing Characteristics		State of Expression in Candidate Variety	State of Expression in Comparator Variety	Comments
‘Dornfelder’	Shoot	colour of ventral side of internodes	green	red	
‘Royalty’	young leaf	prostrate hairs between main veins on lower side of leaf	very dense	absent or very sparse	
‘Rubired’	young leaf	prostrate hairs between main veins on lower side of leaf	very dense	absent or very sparse	
‘Alicante Bouschet’	young leaf	colour of upper side of blade	copper red	green	
‘Gamay de Bouze’	young leaf	colour of upper side of blade	copper red	green	
‘Petit Bouschet’	mature leaf	arrangement of lobes of upper lateral sinuses	very slightly over lapping	open	
‘Petit Bouschet’	mature leaf	arrangement of lobes of petiole sinus	wide open	half open	
‘Petit Bouschet’	bunch	density	lax	very dense	

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with a tick.		
Organ/Plant Part: Context	‘Mystique’	‘Dunkelfelder’
<input type="checkbox"/> *Time of: bud burst	early	very early
<input type="checkbox"/> *Young shoot: openness of tip	half open	half open
<input type="checkbox"/> *Young shoot: prostrate hairs on tip	dense	medium
<input type="checkbox"/> *Young shoot: anthocyanin colouration of	very weak to weak	absent or very weak

prostrate hairs on tip		
<input type="checkbox"/> Young shoot: erect hairs on tip	absent or very sparse	absent or very sparse
<input type="checkbox"/> *Young leaf: colour of upper side of blade	dark copper red	green with anthocyanin spots
<input checked="" type="checkbox"/> *Young leaf: prostrate hairs between main veins on lower side of blade	very dense	sparse
<input type="checkbox"/> Young leaf: erect hairs on main veins on lower side of blade	absent or very sparse	absent or very sparse
<input checked="" type="checkbox"/> Shoot: attitude (before tying)	drooping	erect
<input type="checkbox"/> Shoot: colour of dorsal side of internodes	red	red
<input type="checkbox"/> *Shoot: colour of ventral side of internodes	green	green
<input checked="" type="checkbox"/> Shoot: colour of dorsal side of nodes	red	green
<input type="checkbox"/> Shoot: colour of ventral side of nodes	green	green
<input type="checkbox"/> Shoot: erect hairs on internodes	absent or very sparse	absent or very sparse
<input checked="" type="checkbox"/> Shoot: length of tendrils	long	medium
<input type="checkbox"/> *Flower: sexual organs	fully developed stamens and fully developed gynoecium	fully developed stamens and fully developed gynoecium
<input type="checkbox"/> *Mature leaf: size of blade	medium	medium
<input type="checkbox"/> *Mature leaf: shape of blade	pentagonal	pentagonal
<input type="checkbox"/> Mature leaf: blistering of upper side of blade	very weak to weak	medium
<input type="checkbox"/> *Mature leaf: number of lobes	five	five
<input checked="" type="checkbox"/> Mature leaf: depth of upper lateral sinuses	very deep	medium
<input checked="" type="checkbox"/> Mature leaf: arrangement of lobes of upper lateral sinuses (varieties with lobed leaves only)	slightly overlapped	open
<input checked="" type="checkbox"/> *Mature leaf: arrangement of lobes of petiole sinus	wide open	half open
<input type="checkbox"/> *Mature leaf: length of teeth	medium	medium
<input type="checkbox"/> *Mature leaf: ratio length/width of teeth	medium	very small
<input type="checkbox"/> *Mature leaf: shape of teeth	both sides concave	mixture of both sides straight and both sides convex
<input checked="" type="checkbox"/> *Mature leaf: proportion of main veins on	high	very low to low

upper side of blade with anthocyanin colouration		
<input type="checkbox"/> Mature leaf: prostrate hairs between main veins on lower side of blade	medium	medium
<input type="checkbox"/> *Mature leaf: erect hairs on main veins on lower side of blade	absent or very sparse	absent or very sparse
<input type="checkbox"/> Mature leaf: length of petiole compared to length of middle vein	moderately shorter	moderately shorter
<input type="checkbox"/> *Time of: beginning of berry ripening	early	very early
<input checked="" type="checkbox"/> *Bunch: size (peduncle excluded)	very small	small
<input checked="" type="checkbox"/> *Bunch: density	lax	medium
<input type="checkbox"/> Bunch: length of peduncle of primary bunch	medium	long
<input type="checkbox"/> *Berry: size	small to medium	small to medium
<input type="checkbox"/> *Berry: shape	obtuse ovoid	obtuse ovoid
<input type="checkbox"/> *Berry: colour of skin (without bloom)	blue black	blue black
<input type="checkbox"/> Berry: ease of detachment from pedicel	moderately easy	moderately easy
<input type="checkbox"/> Berry: thickness of skin	medium	medium
<input type="checkbox"/> *Berry: anthocyanin colouration of flesh	very strong	very strong
<input type="checkbox"/> Berry: firmness of flesh	moderately firm	moderately firm
<input type="checkbox"/> *Berry: particular flavour	none	none
<input type="checkbox"/> *Berry: formation of seeds	complete	complete

Statistical Table		
Organ/Plant Part: Context	'Mystique'	'Dunkelfelder'
<input checked="" type="checkbox"/> Mature leaf: L2 (mm)		
Mean	58.47	66.47
Std. Deviation	6.29	8.20
LSD/sig	6.82	P≤0.01
<input checked="" type="checkbox"/> Mature leaf: L3 (mm)		
Mean	37.87	44.60
Std. Deviation	4.86	7.41
LSD/sig	5.82	P≤0.01

<input checked="" type="checkbox"/> Mature leaf: W2 (mm)		
Mean	73.80	87.07
Std. Deviation	9.59	14.54
LSD/sig	11.49	P≤0.01
<input checked="" type="checkbox"/> Mature leaf: R3 (mm)		
Mean	37.00	43.73
Std. Deviation	4.46	7.71
LSD/sig	5.87	P≤0.01
<input checked="" type="checkbox"/> Mature leaf : L1/W2		
Mean	0.96	0.84
Std. Deviation	0.06	0.06
LSD/sig	0.06	P≤0.01
<input checked="" type="checkbox"/> Mature leaf : L3/L1		
Mean	0.54	0.61
Std. Deviation	0.04	0.05
LSD/sig	0.04	P≤0.01

Prior Applications and Sales:

No prior sale or applications.

Description: **Peter Clingeffer**, CSIRO Plant Industry, Waite Campus, SA 5064

Details of Application		
Application Number	2014/054	
Variety Name	'GR001'	
Genus Species	<i>Grevillea</i>	
Common Name	Grevillea	
Synonym	Ruby Jewel	
Accepted Date	09 Apr 2014	
Applicant	Bushland Flora, Mount Evelyn, VIC	
Agent	N/A	
Qualified Person	Mark Lunghusen	
Details of Comparative Trial		
Location	Mt Evelyn, VIC	
Descriptor	TG/325/1 Grevillea	
Period	Summer - Autumn 2019	
Conditions	Plants were grown in commercial pinebark and coir based potting media with slow release fertiliser. Irrigation from overhead sprinklers as required. Plants grown in pots on benches above the ground in an unheated plastic covered greenhouse.	
Trial Design	10 plants in block design	
Measurements	Taken from middle third of stem	
RHS Chart - edition	Fifth Edition	
Origin and Breeding		
Open pollination followed by seedling selection: As part of a planned breeding program, seed was collected from the maternal parent plant that was planted in a group of other Grevillea also containing the paternal parent plant. The seed was sown and germinated and all plants grown on to flowering stage. The candidate was selected from the resultant seedlings on the basis of habit, leaf size and flower colour. Breeder Ian Shimmen, Mount Evelyn, VIC.		
Choice of Comparators Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge		
Organ/Plant Part	Context	State of Expression in Group of Varieties
Plant	habit	semi upright
Inflorescence	type	irregular
Inflorescence	predominant colour	red
Perianth	colour	red
Most Similar Varieties of Common Knowledge identified (VCK)		
Name	Comments	
'Deua Flame'		
'Lady O'		

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with a X.

Organ/Plant Part: Context	'GR001'	'Deua Flame'	'Lady O'
<input type="checkbox"/> Plant: habit	semi-upright	semi-upright	semi-upright
<input type="checkbox"/> Plant: height	short	short	short
<input type="checkbox"/> Plant: density of foliage	medium	sparse	dense
<input type="checkbox"/> Young stem: colour	purple	purple	purple
<input checked="" type="checkbox"/> Stem: colour	green	green	purple
<input type="checkbox"/> Leaf: attitude relative to stem	horizontal	horizontal	horizontal
<input type="checkbox"/> Leaf: type of division of blade	entire	entire	entire
<input checked="" type="checkbox"/> Leaf: blade shape	elliptic	elliptic	lanceolate
<input type="checkbox"/> Leaf: shape of apex	apiculate	mucronate	mucronate
<input checked="" type="checkbox"/> Leaf: undulation of margin	very weak	weak to medium	very weak
<input type="checkbox"/> Leaf: intensity of green colour of upper side	medium	medium	medium
<input type="checkbox"/> Leaf: colour of lower side	light green	medium green	light green
<input type="checkbox"/> Leaf: hairiness of upper side	weak	weak	weak
<input type="checkbox"/> Leaf: hairiness of lower side	medium	medium	weak
<input type="checkbox"/> Leaf: colour of hairs on lower side	white	white	white
<input checked="" type="checkbox"/> Leaf: length of petiole	very short	medium	very short
<input checked="" type="checkbox"/> Flowering branch: position of inflorescence	terminal only	axillary only	terminal only
<input type="checkbox"/> Inflorescence: attitude	drooping	drooping	drooping
<input type="checkbox"/> Inflorescence: branching	medium	medium	medium
<input type="checkbox"/> Inflorescence: length	medium	medium	short
<input type="checkbox"/> Inflorescence: width	medium	medium	
<input type="checkbox"/> Inflorescence: type	irregular	irregular	irregular
<input type="checkbox"/> Inflorescence: sequence of flower opening	acropetal	acropetal	acropetal
<input type="checkbox"/> Inflorescence: predominant colour	red	red	red
<input checked="" type="checkbox"/> Inflorescence: density of flowers	medium to dense	sparse to medium	very sparse
<input checked="" type="checkbox"/> Inflorescence: number of flowers	medium to many	few to medium	very few
<input type="checkbox"/> Inflorescence: length of rachis	short	short	short
<input type="checkbox"/> Pedicel: attitude in relation to rachis	perpendicular	perpendicular	leaning towards the base
<input checked="" type="checkbox"/> Pedicel: length	short	long	long
<input type="checkbox"/> Flower bud: attitude of limb in relation to longitudinal axis of bud	horizontal	horizontal	horizontal
<input type="checkbox"/> Flower bud: colour of limb	red	red	red
<input type="checkbox"/> Flower bud: perianth colour	red	red	red
<input type="checkbox"/> Perianth: length	short to medium	short to medium	short to medium

<input type="checkbox"/> Perianth: width	narrow	narrow	narrow
<input type="checkbox"/> Perianth: hairiness	weak	weak	weak
<input type="checkbox"/> Perianth: hair colour	red brown	red brown	red brown
<input type="checkbox"/> Perianth: coherence of tepals on dorsal side	one third to two thirds	one third to two thirds	one third to two thirds
<input type="checkbox"/> Perianth: coherence of tepals on ventral side	greater than two thirds	greater than two thirds	greater than two thirds
<input type="checkbox"/> Perianth: colour	red	red	red
<input type="checkbox"/> Pistil: length	medium	medium	medium
<input type="checkbox"/> Pistil: length in relation to length of perianth	moderately longer	moderately longer	moderately longer
<input type="checkbox"/> Ovary: hairiness	absent or very weak	absent or very weak	absent or very weak
<input type="checkbox"/> Style: distribution of hair	concentrated towards style end	concentrated towards style end	concentrated towards style end
<input type="checkbox"/> Style: colour	red	red	red
<input type="checkbox"/> Stigma: colour	red	red	red
<input checked="" type="checkbox"/> Pollen presenter: attitude to style	lateral	lateral	lateral
<input type="checkbox"/> Pollen presenter: shape	flat	flat	flat
<input checked="" type="checkbox"/> Pollen presenter: colour	red	red	red
<input type="checkbox"/> Pollen: colour	white	white	white

Prior Applications and Sales: Nil.

Description: **Mark Lunghusen**, Wonga Park, VIC.

Details of Application	
Application Number	2019/029
Variety Name	'Kings Park Royale'
Genus Species	<i>Anigozanthos</i> hybrid
Common Name	Kangaroo Paw
Synonym	
Accepted Date	09 Apr 2019
Applicant	Botanic Gardens and Parks Authority, Kings Park, WA 6005, Australia
Agent	Ramm Botanicals Holdings Pty Ltd, Kangy Angy, NSW
Qualified Person	Megan Bartley
Details of Comparative Trial	
Location	Kangy Angy, NSW
Descriptor	Kangaroo Paw TG/175/4
Period	July to November 2019
Conditions	Tissue cultured plants of the Candidate and comparators were potted into 140mm standard black plastic pots. 5g of Osmocote Exact standard was added to the surface of the pot at planting. No supplementary fertiliser was used. Plants were grown in the open in full sun. Potting mix was a general-purpose type based on composted pine bark pH 5.9. Routine pest and disease sprays were carried out. No significant pest or disease was encountered during the trial.
Trial Design	15 plants each of the candidate and comparator were arranged in a randomised manner.
Measurements	Observations were taken from 10 randomly selected plants. In accordance with the Technical Guideline, measurements were taken when there were 5 flowers open on the main inflorescence.
RHS Chart - edition	Sixth Edition (2015)
Origin and Breeding	
Controlled pollination: Kings Park Royale was developed as part of a breeding program for Kangaroo Paws suited to garden and pot use conducted at Kings Park, Perth WA. Female parent proprietary breeding plant No. 20121100 was crossed with Male parent proprietary breeding plant No. 20121100 in October 2011. The seed was germinated invitro at Ramm botanicals, Kangy Angy NSW in Novembr 2012. Kings Park Royale was selected for development on the basis of suitability to tissue culture production, hardiness, vigour, pot presentation and desirable flower colour. Breeder: Digby Growns, Botanic Gardens and Parks Authority, Kings Park WA.	

Choice of Comparators Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge		
Organ/Plant Part	Context	State of Expression in Group of Varieties
Leaf	colour	grey green
Leaf	glaucosity	strong to strong to very strong
Plant	height	short to medium
Inflorescence	ramification	absent
Perianth lobes	reflexing	very strong
Most Similar Varieties of Common Knowledge identified (VCK)		
Name	Comments	
'Rambudan'		

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with a cross.			
Organ/Plant Part: Context	'Kings Park Royale'	'Rambudan'	
<input type="checkbox"/> *Plant: height	short to medium	short	
<input checked="" type="checkbox"/> Plant: number of inflorescences	very few	few	
<input checked="" type="checkbox"/> Leaf: length	medium	short	
<input type="checkbox"/> Leaf: width	medium	medium	
<input type="checkbox"/> *Leaf: attitude	erect	semi-erect	
<input type="checkbox"/> Leaf: degree of curvature	straight	slightly curved	
<input type="checkbox"/> Leaf: colour	grey green	grey green	
<input type="checkbox"/> Leaf: glaucosity	strong to very strong	strong	
<input type="checkbox"/> Leaf: degree of hairiness of margin	absent or very weakly expressed	weakly expressed	
<input type="checkbox"/> *Inflorescence: ramification	absent	absent	
<input type="checkbox"/> Inflorescence: number of flowers	few to medium	few	
<input type="checkbox"/> Pedicel: colour of hairs (RHS colour chart)	53A deep red	59b deep purplish red	
<input checked="" type="checkbox"/> Perianth tube: length	long	medium	
<input type="checkbox"/> Perianth tube: width	medium	medium	
<input checked="" type="checkbox"/> Perianth tube: profile	constricted medially	expanded medially	
<input checked="" type="checkbox"/> *Perianth tube: predominant colour	purple	green	
<input type="checkbox"/> Perianth tube: colour of tip of hairs (RHS colour chart)	N79C dark purplish red	137A moderate olive green	
<input checked="" type="checkbox"/> Perianth lobe: length of longest	long	medium	
<input type="checkbox"/> *Perianth lobes: reflexing	very strong	very strong	
<input type="checkbox"/> Flower: number of anthers at top of perianth	four	four	

<input checked="" type="checkbox"/> Ovary: colour of hairs (RHS colour chart)	53A deep red	59B deep purplish red
<input type="checkbox"/> Flower: position of stigma in relation to anthers	above	above
<input type="checkbox"/> Time of: beginning of flowering	medium	medium

Characteristics Additional to the Descriptor/TG		
Organ/Plant Part: Context	'Kings Park Royale'	'Rambudan'
<input type="checkbox"/> Ovary: colour of basal hairs - open flower	155b yellowish white	NN155B white
<input checked="" type="checkbox"/> Ovary : colour of basal hairs - bud	12B brilliant yellow	NN155B white

Prior Applications and Sales:

No prior applications.

First sold in Australia on 15th March 2018

Description: **Megan Bartley**, Ramm Botanicals Pty Ltd, Kangy Angy, NSW

Details of Application		
Application Number	2014/067	
Variety Name	'Emmagio'	
Genus Species	<i>Lactuca sativa</i>	
Common Name	Lettuce	
Accepted Date	16 Jul 2014	
Applicant	Syngenta Australia Pty Ltd, Macquarie Park, and Syngenta Crop Protection AG, Basel, Switzerland	
Qualified Person	John Oates	
Details of Comparative Trial		
Overseas Testing Authority	Naktuinbouw, The Netherlands	
Overseas Data Reference Number	SLA 3394	
Location	Roelofarendsveen, The Netherlands	
Descriptor	TG/13/11	
Period	2015	
Measurements	AS per UPOV Guidelines	
RHS Chart - edition	N/A	
Origin and Breeding		
Controlled pollination: The breeding method employed was pedigree selection, using single plant selection and mass selection practices. Breeding history: a. Lettuce cultivar 'LS13445' originated in 2007 from a cross between the Syngenta breeding line '06LAN140022' and the Syngenta breeding line '07AMT000024' in Angers, France. b. In 2007 in Agadir (Morocco), F1 plants were selfed to obtain an F2 population segregating for the traits of interest. c. During the 2008 season in Agadir (Morocco), individual F2 plants were selected and selfed, producing F3 lines. d. The same selection and selfing process took place over the following 4 years, with the aim of fixing the line. The F4 selection was made in Agadir; all subsequent breeding was carried out in Torre-Pacheco, Spain. e. In 2013 in Torre-Pacheco, a single F7 line was deemed homozygous and uniform enough to be designated as line LS13445. Selection was for Characters: Leaf: Colour; Resistance to: <i>Bremia</i> ; Plant: form. Breeder: Syngenta Seeds B.V., Enkhuizen, The Netherlands		
Choice of Comparators Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge		
Organ/Plant Part	Context	State of Expression in Group of Varieties
Plant	type	cutting or gathering
Seed	colour	black
Leaf	anthocyanin colouration	present
Plant	time of beginning of bolting under long day conditions	medium to late
Plant	Resistance to Isolate BI:16	present
Most Similar Varieties of Common Knowledge identified (VCK)		
Name	Comments	
'Eztela'		

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with a tick.

Organ/Plant Part: Context	'Emmagio'	'Eztela'
<input type="checkbox"/> *Seed: colour	black	
<input type="checkbox"/> *Seedling: anthocyanin colouration	present	
<input type="checkbox"/> Leaf: attitude at 10-12 leaf stage	semi-erect	
<input type="checkbox"/> Leaf blade: division	divided	
<input checked="" type="checkbox"/> *Plant: diameter	medium to large	small to medium
<input type="checkbox"/> *Plant: head formation	no head	
<input type="checkbox"/> Leaf: thickness	very thin to thin	
<input type="checkbox"/> Leaf: attitude at harvest maturity	semi-erect	
<input type="checkbox"/> *Leaf: shape	broad obtrullate	
<input type="checkbox"/> Leaf: shape of tip	rounded	
<input type="checkbox"/> *Leaf: hue of green colour of outer leaves	reddish	
<input type="checkbox"/> *Leaf: intensity of colour of outer leaves	dark	dark to very dark
<input type="checkbox"/> *Leaf: anthocyanin colouration	present	
<input type="checkbox"/> *Leaf: intensity of anthocyanin colouration	strong	
<input type="checkbox"/> Leaf: distribution of anthocyanin	entire	
<input type="checkbox"/> Leaf: kind of anthocyanin distribution	diffused and in spots	
<input type="checkbox"/> Leaf: glossiness of upper side	strong	
<input type="checkbox"/> *Leaf: blistering	very weak to weak	
<input type="checkbox"/> Leaf: size of blisters	very small to small	
<input type="checkbox"/> *Leaf blade: degree of undulation of margin	strong	
<input type="checkbox"/> Leaf blade: incisions of margin on apical part	present	
<input type="checkbox"/> Leaf blade: depth of incisions on margin on apical part	shallow to medium	
<input type="checkbox"/> Leaf blade: density of incisions on margin on apical part	medium to dense	
<input type="checkbox"/> Leaf blade: type of incisions on apical part (varieties with shallow incisions on margin on apical part only)	dentate	
<input type="checkbox"/> Leaf blade: venation	flabellate	
<input type="checkbox"/> Axillary: sprouting	absent or very weak	
<input type="checkbox"/> Time of: harvest maturity	medium	
<input type="checkbox"/> Time of: beginning of bolting under long day conditions	medium to late	
<input type="checkbox"/> Plant: fasciation	present	

<input type="checkbox"/>	Plant: intensity of fasciation	medium	
<input type="checkbox"/>	Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:2	present	
<input type="checkbox"/>	Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:5	present	
<input type="checkbox"/>	Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:7	present	
<input type="checkbox"/>	Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:12	present	
<input type="checkbox"/>	Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:14	present	
<input type="checkbox"/>	Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:15	present	
<input type="checkbox"/>	*Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:16	present	
<input type="checkbox"/>	Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:17	present	
<input type="checkbox"/>	Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:18	present	
<input type="checkbox"/>	Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:20	present	
<input type="checkbox"/>	Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:21	present	
<input type="checkbox"/>	Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:22	present	
<input type="checkbox"/>	Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:23	present	
<input type="checkbox"/>	Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:24	present	
<input type="checkbox"/>	Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:25	present	
<input type="checkbox"/>	Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI: 26	present	
<input type="checkbox"/>	Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:27	present	
<input type="checkbox"/>	Resistance to: lettuce mosaic virus (<i>LMV</i>) Strain Ls 1	absent	
<input type="checkbox"/>	Resistance to: <i>Nasonovia ribisnigri</i> biotype Nr:0	present	

Characteristics Additional to the Descriptor/TG		
Organ/Plant Part: Context	‘Emmagio’	‘Eztela’
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:29	absent	
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:30	present	
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:31	present	

Prior Applications and Sales:

Country	Year	Status	Name Applied
EU	2015	Granted	‘Emmagio’
The Netherlands	2014	Granted	‘Emmagio’

Nil Prior Sales

Description: **John Oates**, Merimbula, NSW.

Details of Application		
Application Number	2018/135	
Variety Name	'AGC03'	
Genus Species	<i>Medicago sativa</i>	
Common Name	Lucerne	
Synonym	Nil	
Accepted Date	22 May 2018	
Applicant	Alpha Group Consulting Pty Ltd, Keith, SA	
Agent	N/A	
Qualified Person	James De Barro	
Details of Comparative Trial		
Location	Keith, South Australia	
Descriptor	UPOV TG/6/5	
Period	2018-2019	
Conditions	Soil type was sand over limestone. Variety and comparators were sown in June 2017 and established under seasonal rainfall. Irrigation commenced in November 2017. Trial was sub surface irrigated using underground water with salinity >9000ppm.	
Trial Design	Variety and comparators were sown at 10cm spacings in parallel rows 1 m apart. Each row was divided into replicates of 20 plants.	
Measurements	Measurements were taken of flowering timing, height at full flower, flower colour, pod set and natural height after the first equinox following seeding.	
RHS Chart - edition	N/A	
Origin and Breeding		
<p>Open pollination: In September 2008 a selection of 6-year old FG9T97 plants were taken from a commercial irrigated seed production field and transplanted to a trial site in Keith, South Australia. Selection was based on crown size and regrowth after grazing. Seed from selected transplants was hand harvested in March 2009. Criteria for selection was plant height with short and tall mature plants being selected. 160 seeds of each of the tall and short groups were hand seeded in June 2009 into a 12m² drip irrigated area at Keith. Plants in each group were permitted to open pollinate within their group. Seed was hand harvested from each group in March 2010 from specific plants of interest with the selection criteria being height at maturity and pod set. The two defined groups - short and tall - were again created. In June 2010 seed from the tall group was hand seeded into 2 x 60m drip line irrigated rows. The two rows were permitted to polycross in an open pollinated process over the summer of 2010/11. Seed was hand harvested in March 2011 from plants exhibiting desirable traits of height, activity, visual forage and pod set. A hand harvest/hand seeding process was repeated annually between 2011-2014 selecting for traits of interest. Each year undesirable plants were physically removed prior to pollination. Breeder: James De Barro, Alpha Group Consulting Pty Ltd, Keith, SA.</p>		
Choice of Comparators Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge		
Organ/Plant Part	Context	State of Expression in Group of Varieties
Plant	tendency to grow during winter	dormancy rating 10
Plant	growth habit in autumn of the first year	erect

Most Similar Varieties of Common Knowledge identified (VCK)	
Name	Comments
'Seed Force 10'	dormancy rating 10
'SARDI 10 Series 2'	dormancy rating 10
'Alfamaster 10'	dormancy rating 10

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with X.

Organ/Plant Part: Context	'AGC03'	'Alfamaster 10'	'Seed Force 10'	'SARDI 10 Series 2'
<input type="checkbox"/> Plant: growth habit in autumn of the first year	erect	erect	erect	erect
<input type="checkbox"/> *Plant: natural height 2 weeks after the first autumn equinox following sowing	tall	tall	tall	tall
<input type="checkbox"/> *Plant: natural height 6 weeks after the first autumn equinox following sowing	tall	medium to tall	tall	tall
<input type="checkbox"/> *Time of beginning of flowering	early	medium	medium	early
<input type="checkbox"/> *Flower: frequency of plants with very dark blue violet flowers	absent or very low	absent or very low	absent or very low	absent or very low
<input type="checkbox"/> *Flower: frequency of plants with variegated flowers	low	very low to low	very low to low	absent or very low
<input type="checkbox"/> *Flower: frequency of plants with cream, white or yellow flowers	absent or very low	very low to low	absent or very low	absent or very low
<input type="checkbox"/> *Stem: length of the longest stem at full flowering	long	long	long	long
<input type="checkbox"/> *Plant: tendency to grow during winter	dormancy rating 10	dormancy rating 10	dormancy rating 10	dormancy rating 10
<input type="checkbox"/> Resistance to: <i>Ditylenchus dipsaci</i>	medium	-	-	-
<input checked="" type="checkbox"/> Resistance to: <i>Colletotrichum trifolii</i>	low	-	medium to high	high
<input type="checkbox"/> Resistance to: <i>Phytophthora medicaginis</i>	high	-	medium to high	high
<input type="checkbox"/> Resistance to: <i>Acyrtosiphon kondoi</i>	medium	-	low to medium	medium to high
<input type="checkbox"/> Resistance to: <i>Therioaphis maculata</i>	high	-	low to medium	medium to high

Statistical Table

Organ/Plant Part: Context	'AGC03'	'Alfamaster 10'	'Seed Force 10'	'SARDI 10 Series 2'
<input checked="" type="checkbox"/> Time of beginning of flowering (days)				
Mean	32.07	35.63	37.48	34.85
Std. Deviation	4.42	7.16	8.40	6.07
LSD/sig	3.04	P≤0.01	P≤0.01	ns

<input checked="" type="checkbox"/> Stem: pods per stem				
Mean	50.70	22.23	27.21	46.59
Std. Deviation	18.60	7.62	10.51	20.90
LSD/sig	7.18	P≤0.01	P≤0.01	ns
<input type="checkbox"/> Stem: seeds per pod				
Mean	4.18	3.90	4.00	3.85
Std. Deviation	0.41	0.35	0.26	0.28
LSD/sig	0.15	P≤0.01	P≤0.01	P≤0.01
<input type="checkbox"/> Plant: natural height 2 weeks after the first equinox following sowing (cm)				
Mean	40.70	37.40	38.90	38.70
Std. Deviation	4.82	7.33	8.55	7.09
LSD/sig	6.26	ns	ns	ns
<input checked="" type="checkbox"/> Plant: natural height 6 weeks after the first equinox following sowing (cm)				
Mean	40.65	37.00	37.50	38.40
Std. Deviation	3.31	4.79	3.75	4.26
LSD/sig	3.41	P≤0.01	ns	ns
<input type="checkbox"/> Stem: length of the longest stem at full flowering (cm)				
Mean	65.48	62.27	61.42	61.57
Std. Deviation	10.80	11.37	10.42	12.30
LSD/sig	5.38	ns	ns	ns

Prior Applications and Sales

Nil.

Description: **James De Barro**, Keith, SA.

Details of Application		
Application Number	2018/134	
Variety Name	'AGC02'	
Genus Species	<i>Medicago sativa</i>	
Common Name	Lucerne	
Synonym	Nil	
Accepted Date	22 May 2018	
Applicant	Alpha Group Consulting Pty Ltd, Keith, SA	
Agent	N/A	
Qualified Person	James De Barro	
Details of Comparative Trial		
Location	Keith, South Australia	
Descriptor	UPOV TG/6/5	
Period	2018-2019	
Conditions	Soil type was sand over limestone. Variety and comparators were sown in June 2018 and established under seasonal rainfall. Irrigation commenced in November 2018. Trial was sub surface irrigated using underground water with salinity >9000ppm.	
Trial Design	Variety and comparators were sown at 10cm spacing in parallel rows 1 m apart. Each row was divided into replicates of 20 plants.	
Measurements	Measurements were taken of flowering timing, height at full flower, flower colour, pod set and natural height after the first equinox following seeding.	
RHS Chart - edition	N/A	
Origin and Breeding		
<p>Open pollination: In September 2008 a selection of 6-year old FG9T97 plants were taken from a commercial irrigated seed production field and transplanted to a trial site in Keith, South Australia. Selection was based on crown size and regrowth after grazing. Seed from selected transplants was hand harvested in March 2009. Criteria for selection was plant height with short and tall mature plants being selected. 160 seeds of each of the tall and short groups were hand seeded in June 2009 into a 12m² drip irrigated area at Keith. Plants in each group were permitted to open pollinate within their group. Seed was hand harvested from each group in March 2010 from specific plants of interest with the selection criteria being height at maturity and pod set. The two defined groups - short and tall - were again created. In June 2010 seed from the short group was hand seeded into 2 x 60m drip line irrigated rows. The two rows were permitted to polycross in an open pollinated process over the summer of 2010/11. Seed was hand harvested in March 2011 from plants exhibiting desirable traits of height, activity, visual forage and pod set. A hand harvest/hand seeding process was repeated annually between 2011-2014 selecting for traits of interest. Each year undesirable plants were physically removed prior to pollination. Breeder: James De Barro, Alpha Group Consulting Pty Ltd, Keith, SA.</p>		
Choice of Comparators Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge		
Organ/Plant Part	Context	State of Expression in Group of Varieties
Plant	tendency to grow during winter	dormancy rating 8
Plant	growth habit in autumn of the first year	semi-erect

Most Similar Varieties of Common Knowledge identified (VCK)	
Name	Comments
'Eureka'	dormancy rating 8
'Hallmark'	dormancy rating 8
'Aquarius'	dormancy rating 8
'Magna 804FQ'	dormancy rating 8
'Stirling'	dormancy rating 8

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with X.

Organ/Plant Part: Context	'AGC02'	'Aquarius'	'Eureka'	'Hallmark'	'Magna 804FQ'	'Stirling'
<input type="checkbox"/> Plant: growth habit in autumn of the first year	semi erect	semi erect				
<input type="checkbox"/> *Plant: natural height 2 weeks after the first autumn equinox following sowing	medium	medium	medium	medium	medium	short to medium
<input type="checkbox"/> *Plant: natural height 6 weeks after the first autumn equinox following sowing	medium	medium	short to medium	short to medium	medium	medium
<input checked="" type="checkbox"/> *Time of beginning of flowering	early	medium to late	early to medium	medium	early	early
<input type="checkbox"/> *Flower: frequency of plants with very dark blue violet flowers	absent or very low	absent or very low				
<input type="checkbox"/> *Flower: frequency of plants with variegated flowers	absent or very low	very low to low	very low to low	absent or very low	very low to low	absent or very low
<input type="checkbox"/> *Flower: frequency of plants with cream, white or yellow flowers	absent or very low	absent or very low				
<input type="checkbox"/> *Stem: length of the longest stem at full flowering	medium to long	medium	short to medium	medium	medium	medium to long
<input type="checkbox"/> *Plant: tendency to grow during winter	dormancy rating 8	dormancy rating 8				
<input type="checkbox"/> Resistance to: <i>Ditylenchus dipsaci</i>	medium	high	-	-	-	low

<input type="checkbox"/> Resistance to: <i>Colletotrichum trifolii</i>	very low	very low	-	-	-	low
<input type="checkbox"/> Resistance to: <i>Phytophthora medicaginis</i>	high	very high	-	-	-	high
<input type="checkbox"/> Resistance to: <i>Acyrtosiphon kondoi</i>	high	-	-	-	-	high to very high
<input type="checkbox"/> Resistance to: <i>Therioaphis maculata</i>	medium	-	-	-	-	-

Characteristics Additional to the Descriptor/TG

Organ/Plant Part: Context	'AGC02'	'Aquarius'	'Eureka'	'Hallmark'	'Magna 804FQ'	'Stirling'
<input type="checkbox"/> Resistance to: <i>Clavibacter michiganensis</i> subsp. <i>insidiosus</i>	resistant	-	-	-	-	resistant

Statistical Table

Organ/Plant Part: Context	'AGC02'	'Aquarius'	'Eureka'	'Hallmark'	'Magna 804FQ'	'Stirling'
<input checked="" type="checkbox"/> Plant: pods per stem						
Mean	36.53	50.48	46.57	44.47	43.33	41.78
Std. Deviation	7.85	37.30	31.71	30.49	21.84	8.24
LSD/sig	12.25	P≤0.01	ns	ns	ns	ns
<input type="checkbox"/> Stem: seeds per pod						
Mean	5.80	3.18	3.46	3.17	3.76	6.12
Std. Deviation	0.85	0.38	0.57	0.60	0.28	0.51
LSD/sig	0.26	P≤0.01	P≤0.01	P≤0.01	P≤0.01	P≤0.01
<input checked="" type="checkbox"/> Time of beginning of flowering (days)						
Mean	34.00	43.20	37.45	38.95	35.85	34.62
Std. Deviation	6.14	8.65	8.87	8.95	7.86	5.71
LSD/sig	3.54	P≤0.01	ns	P≤0.01	ns	ns
<input checked="" type="checkbox"/> Stem: length of the longest stem at full flowering (cm)						
Mean	64.27	56.60	52.90	51.53	58.40	61.33
Std. Deviation	8.59	14.20	13.70	12.73	10.53	9.43
LSD/sig	5.31	P≤0.01	P≤0.01	P≤0.01	P≤0.01	ns
<input checked="" type="checkbox"/> Plant: natural height 2 weeks after the first equinox following sowing (cm)						
Mean	32.45	34.50	30.55	27.80	34.85	25.75
Std. Deviation	2.76	6.43	7.14	8.26	4.74	4.80
LSD/sig	4.91	ns	ns	ns	ns	P≤0.01
<input checked="" type="checkbox"/> Plant: natural height 6 weeks after the first equinox following sowing (cm)						
Mean	34.25	34.75	28.20	30.10	32.75	35.10
Std. Deviation	2.17	5.00	3.79	6.65	2.47	4.49
LSD/sig	3.74	ns	P≤0.01	P≤0.01	ns	ns

Prior Applications and Sales

Nil.

Description: **James De Barro**, Keith, SA.

Details of Application	
Application Number	2017/279
Variety Name	'MIV1-G'
Genus Species	<i>Macadamia integrifolia</i>
Common Name	Macadamia
Synonym	
Accepted Date	18 Dec 2017
Applicant	State of Queensland, Dutton Park, QLD 4102, Australia
Agent	
Qualified Person	Dougal Russell
Details of Comparative Trial	
Location	Bundaberg Region, specifically Decortes Road, Welcome Creek
Descriptor	TG/111/4
Period	2008-2018
Conditions	Trees were propagated by grafting and planted into macadamia regional variety trial on the 17th of March, 2008. The trial site was prepared and managed under usual macadamia farm practice, ie. deep ripping at planting, under tree micro sprinkler irrigation, fertilising and regular herbicides, pest and disease monitoring and control.
Trial Design	The trial design was a randomised block with at least one replicate in each block, six blocks in total of 30 genotypes. Nine rows of 20 trees.
Measurements	Each year the trial site is harvested off the ground five times at intervals of 6 weeks with harvests 4 and 5 harvested together. At harvest five trees are stripped. Scions are grafted onto two rootstocks, Beaumont cuttings and H2 seedling. In 2018 PBR data was collected on vegetative and reproductive traits as per the UPOV guidelines.
RHS Chart - edition	
Origin and Breeding	
Controlled pollination: Cameron McConchie from the CSIRO Macadamia Improvement and Conservation Project planned macadamia crosses that bagged closed racemes on the macadamia variety 'Daddow' to exclude insects in Spring 1996. Racemes opened in the bag and fertilised with pollen from a pollen tube collected from 'HAES 246'. Pollen was collected from bagged racemes of 'HAES 246' using either a glass or plastic tube rubbed over the open florets when racemes were open. The tube with 'HAES 246' pollen was used in the same manner to fertilise florets on the 'Daddow', then rebagged to exclude insects. Nuts were collected when mature the following year, germinated in sand trays and grown in a shadehouse until planting. Seedlings were planted at the Bundaberg Research Facility in 1998. BQBRS 14-93 was selected by Craig Hardner from the CSIRO after 8 years of evaluation using 4 years of Nut in Shell (NIS) yield data. The superior clones from the 1.1 Breeding populations were propagated via grafting and planted by the Queensland Department of Agriculture and Fisheries (DAF) in 2008 in randomised, replicated Regional Variety Trials (RVTs) from Mackay, QLD, in the north to	

Macksville, NSW, in the south. DAF data analysis using Best Linear Unbiased Predictions of NIS, kernel yield and tree measurements across RVT sites selected elite clones for commercialisation after a further 8 years. Breeders: Cameron McConchie, Griffith Business School, Griffith University, Queensland, and Craig Hardner, Queensland Alliance for Agriculture and Food Innovation, University of Queensland, St Lucia, Queensland.

Choice of Comparators Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge

Organ/Plant Part	Context	State of Expression in Group of Varieties
Branch	number of leaves per whorl	three
Leaf	petiole	present
Flower	colour	white
Shell	size	medium
Shell	texture of surface	smooth
Kernel	micropyle	closed

Most Similar Varieties of Common Knowledge identified (VCK)

Name	Comments
'HAES 816'	A high yielding cultivar bred by the Hawaiian Agriculture Experiment Station (HAES). It is grown commercially in Australia.

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with a tick.

Organ/Plant Part: Context	'MIV1-G'	'HAES 816'
<input type="checkbox"/> Tree: growth habit	upright to spreading	upright to spreading
<input type="checkbox"/> Tree: height	medium to tall	medium to tall
<input checked="" type="checkbox"/> Tree: angle of primary branches	acute	intermediate
<input type="checkbox"/> Tree: density of foliage	medium	sparse to medium
<input checked="" type="checkbox"/> Stem: texture of surface	medium	rough
<input type="checkbox"/> Branch: number of leaves per whorl	three	three
<input type="checkbox"/> Leaf: petiole	present	present
<input checked="" type="checkbox"/> Petiole: length	medium	long
<input type="checkbox"/> Leaf: conspicuousness of secondary veins	weak	weak
<input type="checkbox"/> Leaf blade: length	medium to long	medium to long
<input type="checkbox"/> Leaf blade: width	medium	narrow to medium

<input type="checkbox"/>	Leaf blade: shape	oblanceolate	oblanceolate
<input type="checkbox"/>	Leaf blade: tip	mucronate	mucronate
<input type="checkbox"/>	Leaf blade: shape of apex excluding tip	rounded	rounded
<input type="checkbox"/>	Leaf blade: shape of base	acute	acute
<input checked="" type="checkbox"/>	Leaf blade: undulation of margin	medium	weak
<input type="checkbox"/>	Leaf blade: depth of incisions of margin	medium	medium
<input checked="" type="checkbox"/>	Leaf blade: number of spines on margin	medium	absent or very few
<input checked="" type="checkbox"/>	Inflorescence: length	very short to short	long to very long
<input type="checkbox"/>	Inflorescence: colour	white	white
<input checked="" type="checkbox"/>	Husk: size of neck	absent or small	medium
<input checked="" type="checkbox"/>	Husk: size of apical point	small	large
<input checked="" type="checkbox"/>	Husk: thickness of pericarp	thin	medium
<input type="checkbox"/>	Shell: size	medium	medium
<input type="checkbox"/>	Shell: shape	circular	circular
<input type="checkbox"/>	Shell: texture of surface	smooth	smooth
<input type="checkbox"/>	Shell: thickness	thin	thin
<input checked="" type="checkbox"/>	Shell: conspicuousness of suture	weak	strong
<input type="checkbox"/>	Kernel: size	medium to large	medium to large
<input checked="" type="checkbox"/>	Kernel: colour	white	yellowish white
<input type="checkbox"/>	Kernel: micropyle	closed	closed
<input type="checkbox"/>	Kernel: length	medium	medium to long
<input type="checkbox"/>	Kernel: width	medium	medium to broad

Characteristics Additional to the Descriptor/TG		
Organ/Plant Part: Context	'MIV1-G'	'HAES 816'
<input checked="" type="checkbox"/> Tree: Nut Drop Pattern	mid to late	early to mid

Statistical Table		
Organ/Plant Part: Context	'MIV1-G'	'HAES 816'
<input checked="" type="checkbox"/> Flower: length (mm)		
Mean	142.80	256.20

Std. Deviation	18.37	32.35
LSD/sig	20.03	P≤0.01
<input type="checkbox"/> Leaf: Petiole length (mm)		
Mean	9.87	12.33
Std. Deviation	1.46	2.59
LSD/sig	0.002	P≤0.01

Prior Applications and Sales:

No prior sale and applications.

Description: **Dougal Russell**, Department of Agriculture and Fisheries, Nambour, QLD 4560, Australia.

Details of Application	
Application Number	2017/278
Variety Name	'MIV1-R'
Genus Species	<i>Macadamia integrifolia</i>
Common Name	Macadamia
Synonym	
Accepted Date	18 Dec 2017
Applicant	State of Queensland, Dutton Park, QLD 4102, Australia
Agent	
Qualified Person	Dougal Russell
Details of Comparative Trial	
Location	Bundaberg Region, specifically Decortes Road, Welcome Creek
Descriptor	TG/111/4
Period	2008-2018
Conditions	Trees were propagated by grafting and planted into macadamia regional variety trial on the 17th of March, 2008. The trial site was prepared and managed under usual macadamia farm practice, ie. deep ripping at planting, under tree micro sprinkler irrigation, fertilising and regular herbicides, pest and disease monitoring and control.
Trial Design	The trial design was a randomised block with at least one replicate in each block, six blocks in total of 30 genotypes. Nine rows of 20 trees.
Measurements	Each year the trial site is harvested off the ground five times at intervals of 6 weeks with harvests 4 and 5 harvested together. At harvest five trees are stripped. Scions are grafted onto two rootstocks, Beaumont cuttings and H2 seedling. In 2018 PBR data was collected on vegetative and reproductive traits as per the UPOV guidelines.
RHS Chart - edition	
Origin and Breeding	
Controlled pollination: Cameron McConchie from the CSIRO Macadamia Improvement and Conservation Project planned macadamia crosses that bagged closed racemes on the macadamia variety HAES 842 to exclude insects in Spring 1996. Racemes opened in the bag and were fertilised with pollen from a pollen tube collected from Daddow. Pollen was collected from bagged racemes of Daddow using either a glass or plastic tube rubbed over the open florets when racemes were open. The tube with Daddow pollen was used in the same manner to fertilise florets on the Haes 842, then rebagged to exclude insects. Nuts were collected when mature the following year, germinated in sand trays and grown in a shadehouse until planting. Seedlings were planted at the Bundaberg Research Facility in 1998. BQBRs 13-115 was selected by Craig Hardner from the CSIRO after 8 years of evaluation using 4 years of Nut in Shell (NIS) yield data. The superior clones from the 1.1 Breeding populations were propagated via grafting and planted by the Queensland Department of Agriculture and Fisheries (DAF) in 2008 in randomised, replicated Regional Variety Trials (RVTs) from Mackay, QLD, in the north to Macksville, NSW, in the south. DAF data analysis using Best Linear Unbiased Predictions of	

NIS, kernel yield and tree measurements across RVT sites selected elite clones for commercialisation after a further 8 years. Breeders: Cameron McConchie, Griffith Business School, Griffith University, Queensland, and Craig Hardner, Queensland Alliance for Agriculture and Food Innovation, University of Queensland, St Lucia, Queensland.

Choice of Comparators Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge

Organ/Plant Part	Context	State of Expression in Group of Varieties
Leaf	petiole	present
Inflorescence	colour	white
Husk	thickness of pericarp	medium
Shell	texture of surface	smooth
Branch	number of leaves per whorl	three
Kernel	micropyle	closed

Most Similar Varieties of Common Knowledge identified (VCK)

Name	Comments
'HAES 816'	A high yielding cultivar bred by the Hawaiian Agriculture Experiment Station (HAES). It is grown commercially in Australia.
'A16'	A precocious, high yielding cultivar bred by Hidden Valley Plantations, Beerwah Australia and grown commercially in Australia. It was one of the first macadamia cultivars granted PBR.

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with a tick.

Organ/Plant Part: Context	'MIV1-R'	'A16'	'HAES 816'
<input type="checkbox"/> Tree: growth habit	spreading	upright to spreading	upright to spreading
<input type="checkbox"/> Tree: height	medium	short	medium to tall
<input type="checkbox"/> Tree: angle of primary branches	intermediate	intermediate	intermediate
<input checked="" type="checkbox"/> Tree: density of foliage	dense	medium	sparse to medium
<input type="checkbox"/> Stem: texture of surface	rough	smooth	rough
<input type="checkbox"/> Branch: number of leaves per whorl	three	three	three
<input type="checkbox"/> Leaf: petiole	present	present	present
<input type="checkbox"/> Petiole: length	long	short	long
<input type="checkbox"/> Leaf: conspicuousness of secondary veins	weak	medium	medium

<input checked="" type="checkbox"/> Leaf blade: length	long	short to medium	medium to long
<input type="checkbox"/> Leaf blade: width	narrow	medium	narrow to medium
<input checked="" type="checkbox"/> Leaf blade: shape	oblong	oblanceolate	oblanceolate
<input checked="" type="checkbox"/> Leaf blade: tip	apiculate	mucronate	mucronate
<input checked="" type="checkbox"/> Leaf blade: shape of apex excluding tip	acute	obtuse	obtuse
<input checked="" type="checkbox"/> Leaf blade: shape of base	obtuse	acute	acute
<input checked="" type="checkbox"/> Leaf blade: undulation of margin	strong	very weak	medium
<input type="checkbox"/> Leaf blade: depth of incisions of margin	medium	shallow	medium
<input checked="" type="checkbox"/> Leaf blade: number of spines on margin	many to very many	few	absent or very few
<input type="checkbox"/> Young leaf blade: colour	green	green	green
<input type="checkbox"/> Leaf blade: intensity of colour on upper side	medium	medium	light
<input checked="" type="checkbox"/> Inflorescence: length	short to medium	long	long to very long
<input type="checkbox"/> Inflorescence: density of flowers	dense	dense	medium
<input type="checkbox"/> Inflorescence: colour	white	white	white
<input type="checkbox"/> Husk: size of neck	medium	absent or small	medium
<input type="checkbox"/> Husk: size of apical point	medium	large	medium
<input type="checkbox"/> Husk: thickness of pericarp	medium	medium	medium
<input type="checkbox"/> Shell: size	medium	medium	medium
<input type="checkbox"/> Shell: shape	circular	ovate	circular
<input type="checkbox"/> Shell: texture of surface	smooth	smooth	smooth
<input checked="" type="checkbox"/> Shell: thickness	medium	thin	thin
<input type="checkbox"/> Shell: conspicuousness of suture	weak	strong	medium
<input type="checkbox"/> Kernel: size	medium to large	medium to large	large to very large
<input type="checkbox"/> Kernel: colour	white	white	yellowish white
<input type="checkbox"/> Kernel: micropyle	closed	closed	closed
<input type="checkbox"/> Kernel: length	medium to long	medium to long	medium to long
<input type="checkbox"/> Kernel: width	medium to broad	medium	medium to broad

Characteristics Additional to the Descriptor/TG			
Organ/Plant Part: Context	'MIV1-R'	'A16'	'HAES 816'
<input checked="" type="checkbox"/> Tree: nut drop pattern	mid to late	late	early to mid
<input checked="" type="checkbox"/> Husk: apical point in relation to stalk	offset	not offset	not offset

Statistical Table			
Organ/Plant Part: Context	'MIV1-R'	'A16'	'HAES 816'
<input checked="" type="checkbox"/> Inflorescence: length (mm)			
Mean	166.90	211.30	254.50
Std. Deviation	21.20	26.90	32.65
LSD/sig	14.77	P≤0.01	P≤0.01

Prior Applications and Sales:

No prior applications and sale.

Description: **Dougal Russell**, Department of Agriculture and Fisheries, Nambour, QLD 4560, Australia.

Details of Application	
Application Number	2017/280
Variety Name	'MIV1-P'
Genus Species	<i>Macadamia integrifolia</i>
Common Name	Macadamia
Synonym	
Accepted Date	04 Jan 2018
Applicant	State of Queensland, Dutton Park, QLD 4102, Australia
Agent	
Qualified Person	Dougal Russell
Details of Comparative Trial	
Location	Bundaberg Region, specifically Decortes Road, Welcome Creek
Descriptor	TG/111/4
Period	2008-2018
Conditions	Trees were nursery propagated by grafting and planted into a macadamia regional variety trial on the 17th of March, 2008. The trial site was prepared and managed under usual macadamia farm practice, ie. deep ripping at planting, under tree micro-sprinkler irrigation, fertilising and regular herbicides, pest and disease monitoring and control.
Trial Design	Trial design is a randomised block, 6 blocks in total of 30 genotypes. Nine rows of 20 plants.
Measurements	Each year the trial site is harvested off the ground five times at intervals of six weeks with harvests 4 and 5 harvested together. At harvest five trees are stripped. Scions are grafted onto two rootstocks, Beaumont cuttings and H2 seedling. In 2018 PBR data was collected on vegetative and reproductive traits as per the UPOV guidelines
RHS Chart - edition	
Origin and Breeding	
Controlled pollination: Cameron McConchie from the CSIRO Macadamia Improvement and Conservation Project planned macadamia crosses that bagged racemes on an A16 tree to exclude insects in Spring 1996. Racemes opened in the bag and were fertilised with pollen from a pollen tube collected from HAES 814. Pollen was collected from bagged racemes using either a glass or plastic tube rubbed over the open florets when racemes were open. The tube with HAES 814 pollen was used in the same manner to fertilise florets on the A16, then rebagged to exclude insects. Nuts were collected when mature the following year, germinated in sand trays and grown in a shadehouse until planting. Seedlings were planted at the Bundaberg Research Facility in 1998. BQBRS98-14-25 was selected by Dr Craig Hardner from the CSIRO after 8 years of evaluation using 4 years of Nut in Shell (NIS) yield data. The superior clones from the 1.1 Breeding populations were propagated via grafting and planted by the Queensland Department of Agriculture and Fisheries (DAF) in 2008 in randomised, replicated Regional Variety Trials	

(RVTs) from Mackay, QLD, in the north to Macksville, NSW, in the south. DAF data analysis using Best Linear Unbiased Predictions of NIS, kernel yield and tree measurements across RVT sites selected elite clones for commercialization after a further 8 years. Breeders: Cameron McConchie, Griffith Business School, Griffith University, Queensland, and Craig Hardner, Queensland Alliance for Agriculture and Food Innovation, University of Queensland, St Lucia, Queensland.

Choice of Comparators Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge

Organ/Plant Part	Context	State of Expression in Group of Varieties
Branch	number of leaves per whorl	three
Leaf	petiole	present
Leaf	young leaf blade colour	green
Flower	colour	white
Shell	size	medium
Shell	texture of surface	smooth
Kernel	micropyle	closed

Most Similar Varieties of Common Knowledge identified (VCK)

Name	Comments
'A16'	A high yielding late variety bred by Hidden Valley Plantations, Beerwah, QLD. It is grown commercially in Australia.

Varieties of Common Knowledge identified and subsequently excluded

Variety	Distinguishing Characteristics		State of Expression in Candidate Variety	State of Expression in Comparator Variety	Comments
'HAES 816'	Plant	maturity	very late	early-mid	

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with a tick.

Organ/Plant Part: Context	'MIV1-P'	'A16'
<input type="checkbox"/> Tree: growth habit	upright to spreading	upright to spreading
<input type="checkbox"/> Tree: height	short	short
<input type="checkbox"/> Tree: angle of primary branches	intermediate	intermediate
<input type="checkbox"/> Tree: density of foliage	medium to dense	medium
<input type="checkbox"/> Stem: texture of surface	smooth	smooth

<input type="checkbox"/>	Branch: number of leaves per whorl	three	three
<input type="checkbox"/>	Leaf: petiole	present	present
<input checked="" type="checkbox"/>	Petiole: length	medium	short
<input checked="" type="checkbox"/>	Leaf: conspicuousness of secondary veins	weak	medium
<input checked="" type="checkbox"/>	Leaf blade: length	long	short to medium
<input checked="" type="checkbox"/>	Leaf blade: width	broad	medium
<input checked="" type="checkbox"/>	Leaf blade: shape	elliptic	oblanceolate
<input type="checkbox"/>	Leaf blade: tip	mucronate	mucronate
<input type="checkbox"/>	Leaf blade: shape of apex excluding tip	obtuse	obtuse
<input type="checkbox"/>	Leaf blade: shape of base	obtuse	acute
<input checked="" type="checkbox"/>	Leaf blade: undulation of margin	medium	very weak
<input checked="" type="checkbox"/>	Leaf blade: depth of incisions of margin	medium	shallow
<input checked="" type="checkbox"/>	Leaf blade: number of spines on margin	medium	few
<input type="checkbox"/>	Young leaf blade: colour	green	green
<input checked="" type="checkbox"/>	Leaf blade: intensity of colour on upper side	dark	medium
<input checked="" type="checkbox"/>	Inflorescence: length	long to very long	long
<input type="checkbox"/>	Inflorescence: density of flowers	dense	dense
<input type="checkbox"/>	Inflorescence: colour	white	white
<input type="checkbox"/>	Husk: size of neck	absent or small	absent or small
<input checked="" type="checkbox"/>	Husk: size of apical point	medium	large
<input type="checkbox"/>	Husk: thickness of pericarp	medium	medium
<input type="checkbox"/>	Shell: size	medium	medium
<input type="checkbox"/>	Shell: shape	circular	ovate
<input type="checkbox"/>	Shell: texture of surface	smooth	smooth
<input checked="" type="checkbox"/>	Shell: thickness	medium	thin
<input checked="" type="checkbox"/>	Shell: conspicuousness of suture	medium	strong
<input type="checkbox"/>	Kernel: size	medium to large	medium to large
<input checked="" type="checkbox"/>	Kernel: colour	yellowish white	white
<input type="checkbox"/>	Kernel: micropyle	closed	closed
<input type="checkbox"/>	Kernel: length	medium to long	medium to long
<input type="checkbox"/>	Kernel: width	medium	medium

Characteristics Additional to the Descriptor/TG		
Organ/Plant Part: Context	‘MIV1-P’	‘A16’
<input checked="" type="checkbox"/> Tree: nut drop pattern	very late	late

<input checked="" type="checkbox"/> Husk: apical point in relation to stalk	offset	not offset
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Statistical Table		
Organ/Plant Part: Context	'MIV1-P'	'A16'
<input checked="" type="checkbox"/> Leaf: length (mm)		
Mean	165.40	126.40
Std. Deviation	22.10	17.01
LSD/sig	20.87	P≤0.01
<input checked="" type="checkbox"/> Leaf: petiole length (mm)		
Mean	10.33	7.75
Std. Deviation	2.13	1.10
LSD/sig	1.54	P≤0.01
<input checked="" type="checkbox"/> Leaf: width (mm)		
Mean	66.86	55.67
Std. Deviation	8.38	6.28
LSD/sig	7.48	P≤0.01

Prior Applications and Sales:

No prior applications and sale.

Description: **Dougal Russell**, Department of Agriculture and Fisheries, Nambour, QLD 4560, Australia.

Details of Application	
Application Number	2017/281
Variety Name	'MIV1-J'
Genus Species	<i>Macadamia integrifolia</i>
Common Name	Macadamia
Synonym	
Accepted Date	20 Dec 2017
Applicant	State of Queensland, Dutton Park, QLD 4102, Australia
Agent	
Qualified Person	Dougal Russell
Details of Comparative Trial	
Location	Bundaberg Region, specifically Decortes Road, Welcome Creek
Descriptor	
Period	2008-2018
Conditions	Trees were propagated by grafting and planted into regional variety trials on the 17th of March 2008. The trial site was prepared and managed under usual macadamia farm practice, ie. deep ripping at planting, under-tree microsprinkler irrigation, fertilising and regular herbicides, pest and disease monitoring and control.
Trial Design	The trial design was a randomised block with at least one replicate in each block, six blocks in total of 30 genotypes, nine rows of 20 trees.
Measurements	Each year the trial site is harvested from the ground five times at intervals of 6 weeks with harvests four and five harvested together. At harvest five trees are stripped. Scions are grafted onto two rootstocks, Beaumont cuttings and H2 seedling. In 2018 PBR data was collected on vegetative and reproductive traits as per UPOV guidelines.
RHS Chart - edition	
Origin and Breeding	
Controlled pollination: Cameron McConchie from the CSIRO Macadamia Improvement and Conservation Project planned macadamia crosses that bagged closed racemes on an 'A16' tree to exclude insects in Spring 1996. Racemes opened in the bag and were fertilised with pollen from a pollen tube collected from 'HAES 781'. Pollen was collected from bagged racemes using either a glass or plastic tube rubbed over the open florets when racemes were open. The tube with HAES 781 pollen was used in the same manner to fertilise florets on the A16, then rebagged to exclude insects. Nuts were collected when mature the following year, germinated in sand trays and grown in a shadehouse until planting. Seedlings were planted at the Bundaberg Research Facility in 1998. BQBR5 6-79 was selected by Dr Craig Hardner from the CSIRO after 8 years of evaluation using 4 years of Nut in Shell (NIS) yield data. The superior clones from the 1.1 Breeding populations were propagated via grafting and planted by Queensland Department of Agriculture and Fisheries (DAF) in 2008 in randomised, replicated Regional Variety Trials (RVTs) from Mackay, QLD, in the north to Macksville, NSW, in the south. DAF data analysis using Best Linear Unbiased Predictions of NIS, kernel yield and tree measurements across RVT	

sites selected elite clones for commercialisation after a further 8 years. Breeders: Cameron McConchie, Griffith Business School, Griffith University, Queensland, and Craig Hardner, Queensland Alliance for Agriculture and Food Innovation, University of Queensland, St Lucia, Queensland.

Choice of Comparators Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge

Organ/Plant Part	Context	State of Expression in Group of Varieties
Leaf	petiole	present
Shell	texture of surface	smooth
Inflorescence	colour	white
Branch	number of leaves per whorl	three
Kernel	micorpyle	closed

Most Similar Varieties of Common Knowledge identified (VCK)

Name	Comments
'HAES 816'	A high yielding cultivar bred by the Hawaiian Agricultural Experiment station (HAES). It is grown commercially in Australia.
'A16'	A precocious, high yielding cultivar bred by Hiddnen Valley Plantations and grown commercially in Australia. It was one of the first cultivars granted PBR

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with a tick.

Organ/Plant Part: Context	'MIV1-J'	'A16'	'HAES 816'
<input type="checkbox"/> Tree: growth habit	upright	upright to spreading	upright to spreading
<input checked="" type="checkbox"/> Tree: height	tall	short	medium to tall
<input checked="" type="checkbox"/> Tree: angle of primary branches	acute	intermediate	intermediate
<input type="checkbox"/> Tree: density of foliage	sparse to medium	medium	sparse to medium
<input type="checkbox"/> Stem: texture of surface	medium	smooth	rough
<input type="checkbox"/> Branch: number of leaves per whorl	three	three	three
<input type="checkbox"/> Leaf: petiole	present	present	present
<input type="checkbox"/> Petiole: length	medium	short	medium
<input type="checkbox"/> Leaf: conspicuousness of secondary veins	medium	weak	weak
<input type="checkbox"/> Leaf blade: length	short to medium	short to medium	medium to long
<input checked="" type="checkbox"/> Leaf blade: width	broad	medium	narrow to

			medium
<input type="checkbox"/> Leaf blade: shape	obovate	oblanceolate	oblanceolate
<input type="checkbox"/> Leaf blade: tip	mucronate	mucronate	mucronate
<input type="checkbox"/> Leaf blade: shape of apex excluding tip	rounded	obtuse	rounded
<input type="checkbox"/> Leaf blade: shape of base	acute	acute	acute
<input type="checkbox"/> Leaf blade: undulation of margin	weak	very weak	medium
<input type="checkbox"/> Leaf blade: depth of incisions of margin	shallow	shallow	medium
<input type="checkbox"/> Leaf blade: number of spines on margin	few	few	absent or very few
<input type="checkbox"/> Young leaf blade: colour	green	green	green
<input type="checkbox"/> Leaf blade: intensity of colour on upper side	dark	medium	light
<input type="checkbox"/> Inflorescence: length	medium to long	long	long to very long
<input type="checkbox"/> Inflorescence: colour	white	white	white
<input type="checkbox"/> Husk: size of neck	absent or small	absent or small	medium
<input type="checkbox"/> Husk: size of apical point	medium	large	medium
<input type="checkbox"/> Husk: thickness of pericarp	medium	medium	medium
<input type="checkbox"/> Shell: size	large	medium	medium
<input type="checkbox"/> Shell: shape	circular	ovate	circular
<input type="checkbox"/> Shell: texture of surface	smooth	smooth	smooth
<input type="checkbox"/> Shell: thickness	thin to medium	thin	thin
<input type="checkbox"/> Shell: conspicuousness of suture	weak	strong	medium
<input checked="" type="checkbox"/> Kernel: size	very large	medium to large	large to very large
<input type="checkbox"/> Kernel: colour	yellowish white	white	yellowish white
<input type="checkbox"/> Kernel: micropyle	closed	closed	closed
<input checked="" type="checkbox"/> Kernel: length	long	medium to long	medium to long
<input checked="" type="checkbox"/> Kernel: width	broad	medium	medium to broad

Characteristics Additional to the Descriptor/TG			
Organ/Plant Part: Context	‘MIV1-J’	‘A16’	‘HAES 816’
<input checked="" type="checkbox"/> Tree: nut drop pattern	mid to late	late	early to mid

Statistical Table			
Organ/Plant Part: Context	'MIV1-J'	'A16'	'HAES 816'
<input checked="" type="checkbox"/> Nut-in-shell: weight (g)			
Mean	9.15	5.49	6.86
Std. Deviation	1.66	1.21	1.45
LSD/sig	0.608	P≤0.01	P≤0.01
<input checked="" type="checkbox"/> Kernel: length (mm)			
Mean	20.11	17.55	18.86
Std. Deviation	1.53	1.86	1.57
LSD/sig	0.681	P≤0.01	P≤0.01
<input checked="" type="checkbox"/> Kernel: width (mm)			
Mean	22.42	18.79	20.24
Std. Deviation	2.22	1.86	1.77
LSD/sig	0.813	P≤0.01	P≤0.01

Prior Applications and Sales:

No prior applications and sale.

Description: **Dougal Russell**, Department of Agriculture and Fisheries, Nambour, QLD 4560, Australia.

Details of Application	
Application Number	2017/087
Variety Name	'GZ-006'
Genus Species	<i>Zoysia matrella</i>
Common Name	Manila Grass
Accepted Date	26 Apr 2017
Applicant	GeneGro Pty Ltd, Alexandra Hills, QLD
Qualified Person	Dr Donald S. Loch
Details of Comparative Trial	
Location	Birkdale, QLD, Australia (Latitude 27°30'S, longitude 153°14'E, elevation 18 masl)
Descriptor	PBR ZOYS
Period	27 May 2017 – 24 Apr 2018
Conditions	Plugs of vegetative sod (c. 80 x 80 mm) planted into a red volcanic (krasnozem or ferrosol) soil on 27 May 2017; 662 kg/ha of blended fertiliser (N:P:K:S = 15.1:4.4:11.5:13.6) applied at planting on 27 May 2017 to give 100 kg N, 29 kg P, 76 kg K, and 90 kg S per hectare; weed control by pendimethalin (Stomp 440) applied before planting on 18 May 2017; post-planting broadleaf weed control with 2,4-D (Kendon 2,4-D Amine 625) as required to control bellvine (<i>Ipomoea plebeia</i>) and other broadleaf weeds; supplementary trickle irrigation applied as required to maintain unstressed growth.
Trial Design	30 plants of each of 2 <i>Zoysia matrella</i> cultivars ('GZ-006', 'G-10') arranged in 10 randomised blocks with 3 plants per plot in a single row along a single trickle irrigation line; 1.0 m between plants, 1.5 m between rows.
Measurements	Observations of flowering behaviour ongoing throughout the trial. Maximum spread measured on 1 Feb 2018 (250 days after field planting) and plant height measured on 3 Feb 2018 (252 days after field planting). Stolon characteristics at 4th visible node and internode measured on 3-7 Feb 2018. Measurements on the 4th fully expanded leaf on vegetative tillers made on 3 Mar 2018. Fertile tiller characteristics (culms, 2nd tiller internode, flag and 3rd leaves, inflorescences) measured 17-24 Apr 2018. One measurement per plant made for all attributes. Analyses of variance (ANOVAs) conducted with Genstat Release 12; differences significant at the 1% level quantified using Fisher's protected LSDs.
RHS Chart - edition	2007 (5th edition)
Origin and Breeding	
Clonal selection: 'GZ-006' came from a breeding population of 24 <i>Zoysia matrella</i> seedlings generated by the breeder at Sheldon (QLD) in 2003. Individually, the seedlings in this population showed considerable variation in leaf texture, turf colour, rate of lateral spread, inflorescence development, and size and visibility of	

inflorescences in the unmown sward. 'GZ-006' was short-listed for further assessment based on its short inconspicuous inflorescences, fine mid-green leaves, and good rate of lateral spread. Following observations at Sheldon and Alexandra Hills (QLD) in pots comparing it with current cultivars and a range of other experimental lines, 'GZ-006' was expanded into field plantings at Rochedale (QLD) in 2009 and Boyland (QLD) in 2011. 'GZ-006' was selected primarily for the low visibility of its short inflorescences which enhances its high turf quality, together with its bright mid-green colour, fine leaf texture, turf density and quality under mowing, and high shade tolerance. Breeder: Dr Donald S. Loch (GeneGro Pty Ltd, Alexandra Hills, QLD).

Choice of Comparators Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge

Organ/Plant Part	Context	State of Expression in Group of Varieties
Leaf	length	short
Leaf	width	narrow
Leaf	colour	mid-yellow-green

Most Similar Varieties of Common Knowledge identified (VCK)

Name	Comments
'G-10'	Another candidate <i>Zoysia matrella</i> variety (application no. 2015/158)

Varieties of Common Knowledge identified and subsequently excluded

Variety	Distinguishing Characteristics		State of Expression in Candidate Variety	State of Expression in Comparator Variety	Comments
'Facet'	Leaf	length	short	very short	U.S. Plant Patent 10636 granted 6 Oct 1998. Australian application no. 2001/200; granted 08 Aug 2001
'G-4'	Leaf	colour	mid-yellow-green	dark green	Another candidate <i>Zoysia matrella</i> variety (application no. 2014/073)
'A-1'	Leaf	length	short	long	Australian application no. 2008/091; granted 16 Dec 2008
'A-1'	Leaf	width	narrow	broad	
'GZ-022'	Leaf	length	short	long	
'GZ-022'	Leaf	width	narrow	broad	Another candidate <i>Zoysia matrella</i> variety (application no. 2017/088)
'Cavalier'	Leaf	length	short	very long	U.S. Plant Patent

					10778 granted 2 Feb 1999. Australian application no. 2001/ 018; granted 16 Mar 2001
'Cavalier'	Leaf	width	narrow	broad-very broad	

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with a tick.

Organ/Plant Part: Context	'GZ-006'	'G-10'
<input checked="" type="checkbox"/> Plant: height	medium	short
<input checked="" type="checkbox"/> Plant: width	broad	medium
<input type="checkbox"/> Plant: density	very dense	very dense
<input type="checkbox"/> Stolon: nodes	compound	compound
<input type="checkbox"/> Stolon: number of subtending leaves (compound nodes only)	three	three
<input type="checkbox"/> Stolon: number of branches	very many	very many
<input type="checkbox"/> Stolon: length of internode	very short	very short
<input checked="" type="checkbox"/> Stolon : width of internode	narrow	very narrow
<input checked="" type="checkbox"/> Stolon: colour where exposed to the sun (RHS)	183A	N79A
<input type="checkbox"/> Stolon: anthocyanin coloration of leaf sheath	absent or very weak	absent or very weak
<input type="checkbox"/> Stolon: length of outer leaf sheath	very short	very short
<input type="checkbox"/> Stolon: hairiness of leaf sheath	absent	absent
<input type="checkbox"/> Culm: length	very short to short	very short to short
<input checked="" type="checkbox"/> Culm: width	very narrow	narrow
<input type="checkbox"/> Culm: node pubescence	absent	absent
<input type="checkbox"/> Culm: stem pubescence	absent	absent
<input checked="" type="checkbox"/> Culm: flag leaf sheath length	very short	short
<input type="checkbox"/> Culm: flag leaf blade length	very short	very short to short
<input type="checkbox"/> Culm: flag leaf blade width	very narrow	very narrow
<input type="checkbox"/> Culm: flag leaf blade shape	linear triangular	linear triangular
<input type="checkbox"/> Culm: leaf sheath length (3rd leaf fertile tiller)	very short to short	very short
<input checked="" type="checkbox"/> Culm: leaf blade length (3rd leaf fertile tiller)	short	very short

<input checked="" type="checkbox"/>	Culm: leaf blade width (3rd leaf fertile tiller)	very narrow	narrow
<input type="checkbox"/>	Culm: leaf sheath length (vegetative tiller)	very short	very short to short
<input checked="" type="checkbox"/>	Culm: leaf blade length (vegetative tiller)	short to medium	short
<input checked="" type="checkbox"/>	Culm: leaf blade width (vegetative tiller)	very narrow	narrow
<input type="checkbox"/>	Culm: leaf blade shape (vegetative tiller)	linear	linear
<input type="checkbox"/>	Leaf: leaf blade shape of apex	narrow acute	narrow acute
<input type="checkbox"/>	Leaf: colour (RHS)	146A	146A
<input type="checkbox"/>	Leaf: leaf sheath presence of hairs	absent	absent
<input type="checkbox"/>	Leaf: leaf blade presence of hairs upper side	absent	absent
<input type="checkbox"/>	Leaf: leaf blade presence of hairs lower side	absent	absent
<input type="checkbox"/>	Leaf: leaf blade margin	smooth	smooth
<input type="checkbox"/>	Leaf: ligule	fringe of hairs	fringe of hairs
<input checked="" type="checkbox"/>	Peduncle: length	very short	short
<input type="checkbox"/>	Peduncle: width	very narrow	very narrow
<input type="checkbox"/>	Inflorescence: spikelet density	sparse to medium	sparse to medium
<input checked="" type="checkbox"/>	Inflorescence: length	very short	very short
<input checked="" type="checkbox"/>	Inflorescence: number of spikelets	very few	few
<input type="checkbox"/>	Spikelet: stigma colour	white	white
<input type="checkbox"/>	Spikelet: presence of awn	absent	absent
<input type="checkbox"/>	Flower: time of flowering	Apr-Oct	Apr-Oct

Characteristics Additional to the Descriptor/TG

Organ/Plant Part: Context	'GZ-006'	'G-10'
<input type="checkbox"/> Leaf: leaf blade vernation	rolled	rolled
<input checked="" type="checkbox"/> Flower: start of flowering	week beginning April 15	week beginning April 1

Statistical Table

Organ/Plant Part: Context	'GZ-006'	'G-10'
<input checked="" type="checkbox"/> Plant: maximum height of sward 252 days after planting (mm)		
Mean	103.20 mm	87.03 mm
Std. Deviation	19.06	25.51
LSD/sig	15.12	P≤0.01
<input checked="" type="checkbox"/> Plant: maximum diameter of lateral spread 250 days after planting (cm)		
Mean	119.73 cm	103.26 cm

Std. Deviation	15.33	15.39
LSD/sig	15.42	P≤0.01
<input type="checkbox"/> Stolon: total number of branches on nodes 2-6		
Mean	17.47	16.70
Std. Deviation	4.01	4.46
LSD/sig	3.40	ns
<input type="checkbox"/> Stolon: length of internode #4 (mm)		
Mean	11.75	11.77
Std. Deviation	1.37	1.42
LSD/sig	1.20	ns
<input checked="" type="checkbox"/> Stolon: diameter of internode #4 (mm)		
Mean	1.20	1.10
Std. Deviation	0.07	0.10
LSD/sig	0.08	P≤0.01
<input type="checkbox"/> Stolon: length of outer leaf sheath at node #4 (mm)		
Mean	8.52	7.98
Std. Deviation	1.19	1.07
LSD/sig	1.03	ns
<input type="checkbox"/> Vegetative tiller: length of sheath on 4th leaf (mm)		
Mean	13.37	14.10
Std. Deviation	2.35	2.73
LSD/sig	2.22	ns
<input type="checkbox"/> Vegetative tiller: length of blade on 4th leaf (mm)		
Mean	49.45	44.82
Std. Deviation	9.30	10.39
LSD/sig	8.24	ns
<input checked="" type="checkbox"/> Vegetative tiller: width of blade on 4th leaf (mm)		
Mean	1.11	1.30
Std. Deviation	0.11	0.14
LSD/sig	0.11	P≤0.01
<input checked="" type="checkbox"/> Vegetative tiller: length:width ratio of blade on 4th leaf		
Mean	45.02	34.76
Std. Deviation	9.80	8.66
LSD/sig	7.76	P≤0.01
<input type="checkbox"/> Fertile tiller: length (mm)		
Mean	91.03	91.60
Std. Deviation	14.02	14.86
LSD/sig	8.18	ns
<input type="checkbox"/> Fertile tiller: length of internode #2 (mm)		
Mean	13.22	12.37
Std. Deviation	5.26	5.54
LSD/sig	2.78	ns

<input checked="" type="checkbox"/> Fertile tiller: diameter of internode #2 (mm)		
Mean	0.35	0.37
Std. Deviation	0.04	0.03
LSD/sig	0.02	P≤0.01
<input checked="" type="checkbox"/> Fertile tiller: length of sheath on flag leaf (mm)		
Mean	14.75	17.72
Std. Deviation	1.91	3.51
LSD/sig	1.99	P≤0.01
<input type="checkbox"/> Fertile tiller: length of flag leaf blade (mm)		
Mean	2.33	1.82
Std. Deviation	1.50	1.28
LSD/sig	0.88	ns
<input type="checkbox"/> Fertile tiller: length of sheath on 3rd leaf (mm)		
Mean	15.12	13.42
Std. Deviation	3.70	3.22
LSD/sig	1.94	ns
<input checked="" type="checkbox"/> Fertile tiller: length of blade on 3rd leaf (mm)		
Mean	32.93	28.33
Std. Deviation	5.38	6.66
LSD/sig	3.05	P≤0.01
<input checked="" type="checkbox"/> Fertile tiller: width of blade on 3rdmm leaf (mm)		
Mean	1.28	1.38
Std. Deviation	0.15	0.16
LSD/sig	0.06	P≤0.01
<input checked="" type="checkbox"/> Fertile tiller: length:width ratio of blade on 3rd leaf		
Mean	26.00	20.65
Std. Deviation	4.57	5.17
LSD/sig	2.52	P≤0.01
<input checked="" type="checkbox"/> Peduncle: length (mm)		
Mean	14.89	17.88
Std. Deviation	3.63	4.52
LSD/sig	2.79	P≤0.01
<input type="checkbox"/> Peduncle: diameter (mm)		
Mean	0.38	0.37
Std. Deviation	0.05	0.05
LSD/sig	0.03	ns
<input checked="" type="checkbox"/> Inflorescence: length (mm)		
Mean	11.20	13.17
Std. Deviation	1.15	1.18
LSD/sig	0.86	P≤0.01
<input checked="" type="checkbox"/> Inflorescence: number of spikelets		
Mean	10.23	12.00

Std. Deviation	1.41	1.20
LSD/sig	0.92	P≤0.01
<input type="checkbox"/> Inflorescence: number of spikelets per cm		
Mean	9.13	9.14
Std. Deviation	0.76	0.85
LSD/sig	0.61	ns

Prior Applications and Sales:

Nil

Description: **D.S. Loch** (Alexandra Hills, QLD) & **C.M. Zorin** (Birkdale, QLD)

Details of Application	
Application Number	2017/088
Variety Name	'GZ-022'
Genus Species	<i>Zoysia matrella</i>
Common Name	Manila Grass
Accepted Date	24 Apr 2017
Applicant	GeneGro Pty Ltd, Alexandra Hills, QLD
Qualified Person	Dr Donald S. Loch
Details of Comparative Trial	
Location	Birkdale, QLD, Australia (Latitude 27°30'S, longitude 153°14'E, elevation 18 masl)
Descriptor	PBR ZOYS
Period	7 Feb 2015 – 13 Nov 2015
Conditions	Vegetative plugs established in 95 x 95 mm pots from Dec 2014; planted into a red volcanic (krasnozem or ferrosol) soil on 7 Feb 2015; 662 kg/ha of blended fertiliser (N:P:K:S = 15.1:4.4:11.5:13.6) applied after planting on 8 Feb 2016 to give 100 kg N, 29 kg P, 76 kg K, and 90 kg S per hectare; weed control by pendimethalin (Rifle 440) applied at planting on 9 Feb 2015; post-planting broadleaf weed control with 2,4-D (Kendon 2,4-D Amine 625) on 10 Jul 2015, flazasulfuron (Katana) on 31 Jul 2015, and 2,4-D + fluroxypyr (Starane Advanced) on 8 Aug 2015; supplementary trickle irrigation applied as required to maintain unstressed growth.
Trial Design	30 plants of each of 3 <i>Zoysia matrella</i> cultivars ('GZ-022', 'A-1', 'Cavalier') plus 3 additional <i>Z. matrella</i> cultivars ('G-4', 'G-10', 'Facet') and <i>Z. japonica</i> x <i>Z. matrella</i> 'ZT-11' not reported arranged in 6 randomised blocks with 5 plants per plot in a single row along a single trickle irrigation line; 1.0 m between plants, 1.5 m between rows.
Measurements	Maximum spread measured on 6 Oct 2015 (241 days after field planting) and plant height measured on 12 Oct 2015 (247 days after field planting). Measurements on the 4th fully expanded leaf on vegetative tillers made on 3-8 Nov 2015. Fertile tiller characteristics (culms, flag and 4th leaves, stems, inflorescences) measured 3-8 Nov 2015. Stolon characteristics at 4th visible node and internode measured on 13 Nov 2015. One measurement per plant made for all attributes. Analyses of variance (ANOVAs) conducted with Genstat Release 12; differences significant at the 1% level quantified using Fisher's protected LSDs.
RHS Chart - edition	2007 (5th edition)
Origin and Breeding	
Clonal selection: 'GZ-022' was discovered as a dark green, finer-textured plant growing among 'ZT-11' on the breeder's property at Sheldon (QLD) in 2006. Following observations at Sheldon and Alexandra Hills (QLD) in pots comparing it with current cultivars and a range of other experimental lines, 'GZ-022' was expanded	

into field plots at Boyland (QLD) in 2011 and later at Birkdale (QLD) and Sydney (NSW). 'GZ-022' was selected for release based on its dark-green colour, medium-fine leaf texture, and turf quality under mowing over 6 years (2011-16), together with its high shade tolerance as shown by its ability to maintain sward density under greatly reduced light levels. Breeder: Dr Donald S. Loch (GeneGro Pty Ltd, Alexandra Hills, QLD).

Choice of Comparators Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge					
Organ/Plant Part		Context			
Leaf		length		long to very long	
Leaf		width		broad to very broad	
Most Similar Varieties of Common Knowledge identified (VCK)					
Name			Comments		
'A-1'			Australian application no. 2008/091; granted 16 Dec 2008		
'Cavalier'			U.S. Plant Patent 10778 granted 2 Feb 1999. Australian application no. 2001/018; granted 16 Mar 2001		
Varieties of Common Knowledge identified and subsequently excluded					
Variety	Distinguishing Characteristics		State of Expression in Candidate Variety	State of Expression in Comparator Variety	Comments
'Facet'	Leaf	length	long	very short	U.S. Plant Patent 10636 granted 6 Oct 1998. Australian application no. 2001/200; granted 08 Aug 2001
'Facet'	Leaf	width	broad	narrow	
'G-4'	Leaf	length	long	short	Another candidate <i>Zoysia matrella</i> variety (application no. 2014/073)
'G-4'	Leaf	width	broad	very narrow	
'G-10'	Leaf	length	long	short	Another candidate <i>Zoysia matrella</i> variety (application no. 2015/158)
'G-10'	Leaf	width	broad	narrow	

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with a tick.

Organ/Plant Part: Context	'GZ-022'	'A-1'	'Cavalier'
<input checked="" type="checkbox"/> Plant: height	medium to tall	medium to tall	very tall

<input checked="" type="checkbox"/>	Plant: width	medium	medium to broad	very broad
<input type="checkbox"/>	Plant: density	dense	dense	dense
<input type="checkbox"/>	Stolon: nodes	compound	compound	compound
<input type="checkbox"/>	Stolon: number of subtending leaves (compound nodes only)	three	three	three
<input type="checkbox"/>	Stolon: number of branches	medium to many	medium to many	many
<input checked="" type="checkbox"/>	Stolon: length of internode	short to medium	medium	medium to long
<input type="checkbox"/>	Stolon : width of internode	narrow to medium	narrow to medium	narrow to medium
<input type="checkbox"/>	Stolon: colour where exposed to the sun (RHS)	N79A	darker than N79A	N79A
<input type="checkbox"/>	Stolon: anthocyanin coloration of leaf sheath	absent or very weak	absent or very weak	absent or very weak
<input checked="" type="checkbox"/>	Stolon: length of outer leaf sheath	medium	medium	short
<input type="checkbox"/>	Stolon: hairiness of leaf sheath	absent	absent	absent
<input checked="" type="checkbox"/>	Culm: length	medium	long	very long
<input type="checkbox"/>	Culm: width	medium	narrow to medium	narrow to medium
<input type="checkbox"/>	Culm: node pubescence	absent	absent	absent
<input type="checkbox"/>	Culm: stem pubescence	absent	absent	absent
<input type="checkbox"/>	Culm: flag leaf sheath length	short to medium	medium	short to medium
<input type="checkbox"/>	Culm: flag leaf blade length	short	short to medium	very short to short
<input type="checkbox"/>	Culm: flag leaf blade width	very narrow	very narrow	very narrow
<input type="checkbox"/>	Culm: flag leaf blade shape	linear triangular	linear triangular	linear triangular
<input checked="" type="checkbox"/>	Culm: leaf sheath length (3rd leaf fertile tiller)	medium	short	long to very long
<input checked="" type="checkbox"/>	Culm: leaf blade length (3rd leaf fertile tiller)	medium to long	medium	long to very long
<input type="checkbox"/>	Culm: leaf blade width (3rd leaf fertile tiller)	broad	medium to broad	broad to very broad
<input checked="" type="checkbox"/>	Culm: leaf sheath length (vegetative tiller)	medium	short	long to very long
<input checked="" type="checkbox"/>	Culm: leaf blade length (vegetative tiller)	medium	medium	long
<input checked="" type="checkbox"/>	Culm: leaf blade width (vegetative tiller)	medium	medium	broad

<input type="checkbox"/>	Culm: leaf blade shape (vegetative tiller)	linear	linear	linear
<input type="checkbox"/>	Leaf: leaf blade shape of apex	narrow acute	narrow acute	narrow acute
<input type="checkbox"/>	Leaf: colour (RHS)	137A	137A	137C
<input type="checkbox"/>	Leaf: leaf sheath presence of hairs	absent	absent	absent
<input type="checkbox"/>	Leaf: leaf blade presence of hairs upper side	absent	absent	absent
<input type="checkbox"/>	Leaf: leaf blade presence of hairs lower side	absent	absent	absent
<input type="checkbox"/>	Leaf: leaf blade margin	smooth	smooth	smooth
<input type="checkbox"/>	Leaf: ligule	fringe of hairs	fringe of hairs	fringe of hairs
<input checked="" type="checkbox"/>	Peduncle: length	medium	medium	long
<input checked="" type="checkbox"/>	Peduncle: width	narrow to medium	medium	broad
<input type="checkbox"/>	Inflorescence: spikelet density	sparse to medium	sparse to medium	sparse to medium
<input type="checkbox"/>	Inflorescence: length	short to medium	short	medium
<input type="checkbox"/>	Inflorescence: number of spikelets	few to medium	few	medium
<input type="checkbox"/>	Spikelet: stigma colour	white	white	white
<input type="checkbox"/>	Spikelet: presence of awn	absent	absent	absent
<input type="checkbox"/>	Flower: time of flowering	Apr-Oct	Apr-Oct	Apr-Oct

Characteristics Additional to the Descriptor/TG				
Organ/Plant Part: Context	'GZ-022'	'A-1'	'Cavalier'	
<input type="checkbox"/>	Leaf: leaf blade vernation	rolled	rolled	rolled
Statistical Table				
Organ/Plant Part: Context	'GZ-022'	'A-1'	'Cavalier'	
<input type="checkbox"/>	Fertile tiller: diameter of internode #4 (mm)			
Mean	0.54	0.47	0.48	
Std. Deviation	0.09	0.10	0.12	
LSD/sig	0.07	ns	ns	
<input type="checkbox"/>	Fertile tiller: length of sheath on flag leaf (mm)			
Mean	21.57	22.83	21.07	
Std. Deviation	3.28	4.59	4.16	
LSD/sig	2.49	ns	ns	
<input checked="" type="checkbox"/>	Plant: maximum height of sward 241 days after planting (mm)			
Mean	171.00	163.03	220.73	

Std. Deviation	20.01	13.20	16.10
LSD/sig	17.00	ns	P≤0.01
<input checked="" type="checkbox"/> Plant: maximum diameter of lateral spread 247 days after planting (cm)			
Mean	156.38	161.97	192.93
Std. Deviation	18.03	23.23	22.59
LSD/sig	14.00	ns	P≤0.01
<input type="checkbox"/> Stolon: total number of branches on nodes 2-6			
Mean	9.20	10.17	11.53
Std. Deviation	2.62	2.94	2.58
LSD/sig	3.17	ns	ns
<input checked="" type="checkbox"/> Stolon: length of internode #4 (mm)			
Mean	26.57	27.97	32.33
Std. Deviation	2.94	3.86	5.31
LSD/sig	4.60	ns	P≤0.01
<input type="checkbox"/> Stolon: diameter of internode #4 (mm)			
Mean	1.39	1.39	1.36
Std. Deviation	0.13	0.14	0.11
LSD/sig	0.10	ns	ns
<input checked="" type="checkbox"/> Stolon: length of outer leaf sheath at node #4 (mm)			
Mean	12.07	12.27	10.53
Std. Deviation	1.20	1.41	1.41
LSD/sig	1.52	ns	P≤0.01
<input checked="" type="checkbox"/> Vegetative tiller: length of sheath on 4th leaf (mm)			
Mean	15.90	12.66	23.81
Std. Deviation	3.99	3.34	4.14
LSD/sig	2.13	P≤0.01	P≤0.01
<input checked="" type="checkbox"/> Vegetative tiller: length of blade on 4th leaf (mm)			
Mean	47.28	48.76	70.35
Std. Deviation	8.50	7.30	10.13
LSD/sig	6.56	ns	P≤0.01
<input checked="" type="checkbox"/> Vegetative tiller: width of blade on 4th leaf (mm)			
Mean	1.43	1.44	1.71
Std. Deviation	0.22	0.24	0.34
LSD/sig	0.21	ns	P≤0.01
<input checked="" type="checkbox"/> Vegetative tiller: length:width ratio of blade on 4th leaf			
Mean	33.42	34.44	42.29
Std. Deviation	5.91	6.94	8.22
LSD/sig	6.44	ns	P≤0.01
<input checked="" type="checkbox"/> Fertile tiller: length (mm)			
Mean	69.50	81.40	106.57
Std. Deviation	8.29	14.58	12.93
LSD/sig	11.66	P≤0.01	P≤0.01

<input checked="" type="checkbox"/> Fertile tiller: length of internode #4 (mm)			
Mean	8.90	8.03	22.17
Std. Deviation	2.82	3.40	8.02
LSD/sig	3.40	ns	P≤0.01
<input type="checkbox"/> Fertile tiller: length of flag leaf blade (mm)			
Mean	2.70	3.17	2.10
Std. Deviation	1.26	1.37	1.18
LSD/sig	1.05	ns	ns
<input checked="" type="checkbox"/> Fertile tiller: length of sheath on 4th leaf (mm)			
Mean	14.77	11.80	23.43
Std. Deviation	3.72	3.31	6.43
LSD/sig	2.29	P≤0.01	P≤0.01
<input checked="" type="checkbox"/> Fertile tiller: length of blade on 4th leaf (mm)			
Mean	48.17	45.50	69.10
Std. Deviation	9.02	10.03	9.38
LSD/sig	5.15	ns	P≤0.01
<input checked="" type="checkbox"/> Fertile tiller: width of blade on 4th leaf (mm)			
Mean	1.48	1.36	1.67
Std. Deviation	0.27	0.20	0.39
LSD/sig	0.22	ns	P≤0.01
<input checked="" type="checkbox"/> Fertile tiller: length:width ratio of blade on 4th leaf			
Mean	33.60	34.13	42.99
Std. Deviation	8.24	8.22	10.05
LSD/sig	9.03	ns	P≤0.01
<input checked="" type="checkbox"/> Peduncle: length (mm)			
Mean	44.97	40.93	58.17
Std. Deviation	8.17	10.17	10.94
LSD/sig	6.95	ns	P≤0.01
<input checked="" type="checkbox"/> Peduncle: diameter (mm)			
Mean	0.33	0.37	0.44
Std. Deviation	0.09	0.08	0.08
LSD/sig	0.06	ns	P≤0.01
<input type="checkbox"/> Inflorescence: length (mm)			
Mean	14.87	14.07	15.60
Std. Deviation	1.68	1.82	2.57
LSD/sig	1.11	ns	ns
<input type="checkbox"/> Inflorescence: number of spikelets			
Mean	13.13	12.60	14.10
Std. Deviation	1.78	2.18	2.88
LSD/sig	1.22	ns	ns
<input type="checkbox"/> Inflorescence: number of spikelets per cm			
Mean	8.85	8.93	9.01

Std. Deviation	0.81	0.76	0.81
LSD/sig	0.56	ns	ns

Prior Applications and Sales:

Nil

Description: **D.S. Loch** (Alexandra Hills, QLD) & **C.M. Zorin** (Birkdale, QLD)

Details of Application				
Application Number	2010/122			
Variety Name	'LCS1'			
Genus Species	<i>Lomandra</i>			
Common Name	Mat Rush			
Synonym	Frosty Top			
Accepted Date	14 Dec 2010			
Applicant	TC Australia Pty Ltd, Skye, VIC			
Agent	Longview Horticulture, Hammond Road, Longwarry, VIC			
Qualified Person	Mark Lunghusen			
Details of Comparative Trial				
Location	Longwarry, VIC			
Descriptor	Lomandra TG/287/1			
Period	Winter - Spring 2019			
Conditions	Plants were grown outside in commercially supplied pine bark and coir based potting media. Plants were fertilised with slow release fertiliser and overhead watered as required.			
Trial Design	10 plants in block design			
Measurements	Taken from middle third of stem			
RHS Chart - edition	Fifth Edition			
Origin and Breeding				
Selection from seedling: a seedling with the listed characteristics was observed and selected from a batch of seedlings germinated from seed collection from the breeder's property. It was divided and grown on to determine distinctness, uniformity and stability. Breeder was Joseph Murray, Longwarry, VIC.				
Choice of Comparators Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge				
Organ/Plant Part	Context	State of Expression in Group of Varieties		
Leaf blade	width	narrow		
Leaf	main colour	greyed green		
Leaf	type of apex	entire		
Most Similar Varieties of Common Knowledge identified (VCK)				
Name	Comments			
'Mist'				
'Seascape'				
'Merlom Ruby'				
'Silver Grace'				
'Wingarra Sir 5'				
Varieties of Common Knowledge identified and subsequently excluded				
Variety	Distinguishing Characteristics	State of Expression in Candidate Variety	State of Expression in Comparator Variety	Comments
	Organ/Plant Part Context			
'Wingarra Sir 5'	Leaf main colour of upper side	RHS 189 A	RHS N137C	

'Wingarra Sir 5'	Plant	habit	semi-upright to spreading	upright	
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Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with a tick.

Organ/Plant Part: Context	'LCS1'	'Mist'	'Merlom Ruby'	'Seascape'	'Silver Grace'
<input type="checkbox"/> Plant: habit	semi upright to spreading	semi upright to spreading	Semi-upright	semi upright	semi upright to spreading
<input checked="" type="checkbox"/> Plant: height of foliage	short to medium	short to medium	short	short	very short to short
<input checked="" type="checkbox"/> Plant: density of foliage	dense	dense	medium	dense	sparse
<input type="checkbox"/> Leaf: attitude of upper third	drooping	drooping	semi-erect	drooping	drooping
<input type="checkbox"/> Leaf blade: length	medium to long	medium to long	medium	medium to long	short to medium
<input type="checkbox"/> Leaf blade: width	narrow	narrow	narrow	narrow	narrow
<input type="checkbox"/> Leaf: profile in cross section	strongly concave	strongly concave	strongly concave	strongly concave	strongly concave
<input type="checkbox"/> Leaf: type of apex	entire	entire	entire	entire	entire
<input type="checkbox"/> Leaf: texture	smooth	smooth	smooth	smooth	smooth
<input type="checkbox"/> Leaf: main colour of upper side	RHS 189A	RHS 189A	RHS 189A	RHS 189A	RHS 189A
<input type="checkbox"/> Leaf: glossiness of upper side	medium	medium	medium	medium	medium
<input type="checkbox"/> Leaf: pliability	strong	strong	strong	strong	strong
<input checked="" type="checkbox"/> Basal sheath: shredding of margin	medium to strong	medium to strong	medium to strong	medium to strong	absent or very weak
<input type="checkbox"/> Basal sheath: intensity of brown colour	dark	dark	dark	dark	dark
<input type="checkbox"/> Inflorescence: position in relation to foliage	below	below	below	below	below
<input type="checkbox"/> Inflorescence: number of branches	absent or very few	absent or very few	few	few	few
<input checked="" type="checkbox"/> Inflorescence: length of flowering part	medium	very short	very short to short	very short	very short to short
<input type="checkbox"/> Peduncle: length	very short	very short	very short	medium	very short

<input type="checkbox"/>	Peduncle: colour	red brown	red brown	red brown	red brown	red brown
<input checked="" type="checkbox"/>	Bract: length	short	short to medium	medium	very short to short	short
<input type="checkbox"/>	Calyx: colour	grey purple	grey purple	grey purple	grey purple	grey purple

Characteristics Additional to the Descriptor/TG					
Organ/Plant Part: Context	‘LCS1’	‘Mist’	‘Merlom Ruby’	‘Seascape’	‘Silver Grace’
<input checked="" type="checkbox"/> Inflorescence: number of flowers per per inflorescence	many	few	few	medium to many	few to medium
<input checked="" type="checkbox"/> Basal Sheath: extent of colour along stem	medium	long	very short	short	short

Prior Applications and Sales:

Nil

First sold in the Australia in June 2009.

Description: **Mark Lunghusen**, Australian Horticultural Services Pty Ltd, Wonga Park, VIC.

Details of Application	
Application Number	2011/093
Variety Name	'Mist'
Genus Species	<i>Lomandra</i>
Common Name	Mat Rush
Accepted Date	14 Jul 2011
Applicant	Ian Shimmen, Mt Evelyn, VIC, 3796
Qualified Person	Mark Lunghusen

Details of Comparative Trial

Location	Mt Evelyn, Melbourne, VIC
Descriptor	<i>Lomandra</i> TG/287/1
Period	Winter - Spring 2019
Conditions	Plants were grown outside in commercially supplied pine bark and coir based potting media. Plants were fertilised with slow release fertiliser and overhead watered as required.
Trial Design	10 plants in block design
Measurements	Taken from middle third of stem
RHS Chart - edition	2007

Origin and Breeding

Open pollination followed by seedling selection: a seedling with the listed characteristics was observed and selected from a batch of seedlings germinated from seed collection from the breeder's property. It was divided and grown on to determine distinctness, uniformity and stability. Breeder was Ian Shimmen, Mt Evelyn, Melbourne, VIC

Choice of Comparators Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge

Organ/Plant Part	Context	State of Expression in Group of Varieties
Leaf blade	width	narrow
Leaf	main colour	greyed green
Leaf	type of apex	entire

Most Similar Varieties of Common Knowledge identified (VCK)

Name	Comments
'LCS1' (Frosty Top)	
'Seascape'	
'Merlom Ruby'	
'Silver Grace'	
'Wingarra Sir 5'	

Varieties of Common Knowledge identified and subsequently excluded

Variety	Distinguishing Characteristics		State of Expression in Candidate Variety	State of Expression in Comparator Variety	Comments
	Organ/Plant Part	Context			
'Stormy Seas'	Plant	habit	semi-upright	drooping	
'Stormy Seas'	Plant	density	dense	sparse-medium	
'Wingarra Sir 5'	Leaf	main colour of upper side	RHS 189 A	RHS N137C	
'Wingarra Sir 5'	Plant	habit	semi-upright to spreading	upright	

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with x

Organ/Plant Part: Context	'Mist'	'LCS1'	'Merlom Ruby'	'Seascape'	'Silver Grace'
<input type="checkbox"/> Plant: habit	semi upright to spreading	semi upright to spreading	semi-upright	semi upright	semi upright to spreading
<input checked="" type="checkbox"/> Plant: height of foliage	short to medium	short to medium	short	short	very short to short
<input checked="" type="checkbox"/> Plant: density of foliage	dense	dense	medium	dense	sparse
<input type="checkbox"/> Leaf: attitude of upper third	drooping	drooping	semi-erect	drooping	drooping
<input type="checkbox"/> Leaf blade: length	medium to long	medium to long	medium	medium to long	short to medium
<input type="checkbox"/> Leaf blade: width	narrow	narrow	narrow	narrow	narrow
<input type="checkbox"/> Leaf: profile in cross section	strongly concave	strongly concave	strongly concave	strongly concave	strongly concave
<input type="checkbox"/> Leaf: type of apex	entire	entire	entire	entire	entire
<input type="checkbox"/> Leaf: texture	smooth	smooth	smooth	smooth	smooth
<input type="checkbox"/> Leaf: main colour of upper side	RHS 189A	RHS 189A	RHS 189A	RHS 189A	RHS 189A
<input type="checkbox"/> Leaf: glossiness of upper side	medium	medium	medium	medium	medium
<input type="checkbox"/> Leaf: pliability	strong	strong	strong	strong	strong
<input checked="" type="checkbox"/> Basal sheath: shredding of margin	medium to strong	medium to strong	medium to strong	medium to strong	absent or very weak
<input type="checkbox"/> Basal sheath: intensity of brown colour	dark	dark	dark	dark	dark
<input type="checkbox"/> Inflorescence: position in relation to foliage	below	below	below	below	below
<input checked="" type="checkbox"/> Inflorescence: number of branches	absent or very few	absent or very few	few	few	few
<input checked="" type="checkbox"/> Inflorescence: length of flowering part	very short	medium	very short to short	short to medium	short to medium
<input type="checkbox"/> Peduncle: length	very short	very short	very short	medium	very short
<input type="checkbox"/> Peduncle: colour	red brown	red brown	red brown	red brown	red brown
<input checked="" type="checkbox"/> Bract: length	short to medium	short	medium	very short to short	short
<input type="checkbox"/> Calyx: colour	grey purple	grey purple	grey purple	grey purple	grey purple

Characteristics Additional to the Descriptor/TG

Organ/Plant Part: Context	'Mist'	'LCS1'	'Merlom Ruby'	'Seascape'	'Silver Grace'
<input checked="" type="checkbox"/> Inflorescence: number of flowers per inflorescence	few	many	few	medium to many	few to medium
<input checked="" type="checkbox"/> Basal Sheath: extent of colour along stem	long	medium	very short	short	short

Prior Applications : Nil

First sold in Australia in March 2011.

Description: **Mark Lunghusen**, Wonga Park, Melbourne, VIC

Details of Application				
Application Number	2017/051			
Variety Name	'LCP1020'			
Genus Species	<i>Lomandra</i>			
Common Name	Mat Rush			
Accepted Date	15 Jan 2020			
Applicant	Ian Shimmen, Mount Evelyn, VIC			
Qualified Person	Mark Lunghusen			
Details of Comparative Trial				
Location	Mt Evelyn, Melbourne, VIC			
Descriptor	<i>Lomandra</i> TG/287/1			
Period	Winter - Spring 2019			
Conditions	Plants were grown outside in commercially supplied pinebark and coir based potting media. Plants were fertilised with slow release fertiliser and overhead watered as required.			
Trial Design	10 plants in block design			
Measurements	Taken from middle third of stem			
RHS Chart - edition	2007			
Origin and Breeding				
Open pollination followed by seedling selection: a seedling with the listed characteristics was observed and selected from a batch of seedlings germinated from seed collection from the breeder's property. It was divided and grown on to determine distinctness, uniformity and stability. Breeder was Ian Shimmen, Mt Evelyn, VIC.				
Choice of Comparators Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge				
Organ/Plant Part	Context	State of Expression in Group of Varieties		
Plant	habit	semi-upright to spreading		
Leaf blade	width	very narrow to narrow		
Leaf	type of apex	entire		
Leaf	main colour	green		
Most Similar Varieties of Common Knowledge identified (VCK)				
Name		Comments		
'Lime Wave'				
'Greenscape'				
'LCS5' (Lime Devine)				
Varieties of Common Knowledge identified and subsequently excluded				
Variety	Distinguishing Characteristics	State of Expression in Candidate Variety	State of Expression in Comparator Variety	Comments
	Organ/Plant Part			
	Context			
'Green Cascade'	Plant	height	short	medium
'Green Cascade'	Plant	width	medium	broad

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with a tick.

Organ/Plant Part: Context	'LCP1020'	'Greenscape'	'LCS5'	'Lime Wave'
<input type="checkbox"/> Plant: habit	spreading	spreading	semi upright	semi upright
<input checked="" type="checkbox"/> Plant: height of foliage	short	very short	short	short to medium
<input checked="" type="checkbox"/> Plant: density of foliage	medium	sparse	medium	medium
<input type="checkbox"/> Leaf: attitude of upper third	semi-erect to drooping	drooping	semi-erect	semi-erect
<input checked="" type="checkbox"/> Leaf blade: length	medium	short	medium	medium
<input type="checkbox"/> Leaf blade: width	narrow	very narrow to narrow	narrow	narrow
<input type="checkbox"/> Leaf: profile in cross section	moderately concave	moderately concave	moderately concave	moderately concave
<input type="checkbox"/> Leaf: type of apex	entire	entire	entire	entire
<input type="checkbox"/> Leaf: texture	smooth	smooth	smooth	smooth
<input checked="" type="checkbox"/> Leaf: glaucosity of upper side	very weak	weak to medium	very weak	very weak
<input type="checkbox"/> Leaf: main colour of upper side	RHS 137B	RHS 137A	RHS 137B	RHS 137A
<input type="checkbox"/> Leaf: glossiness of upper side	absent or weak	medium	absent or weak	absent or weak
<input type="checkbox"/> Leaf: pliability	strong	strong	strong	strong
<input checked="" type="checkbox"/> Basal sheath: shredding of margin	absent or very weak	medium to strong	weak to medium	medium
<input type="checkbox"/> Basal sheath: intensity of brown colour	light	dark	medium	light
<input type="checkbox"/> Inflorescence: position in relation to foliage	below	below	below	below
<input type="checkbox"/> Inflorescence: number of branches	absent or very few	absent or very few	absent or very few	absent or very few
<input type="checkbox"/> Inflorescence: length of flowering part	short	short	short	short
<input checked="" type="checkbox"/> Peduncle: length	medium	very short to short	medium	medium to long
<input checked="" type="checkbox"/> Peduncle: colour	yellow green	red brown	green	green
<input type="checkbox"/> Bract: length	short	very short	short	short
<input checked="" type="checkbox"/> Calyx: colour	yellow green	grey purple	yellow green	yellow green

Characteristics Additional to the Descriptor/TG

Organ/Plant Part: Context	'LCP1020'	'Greenscape'	'LCS5'	'Lime Wave'
<input checked="" type="checkbox"/> Plant: time of flowering	medium	early	late	medium to late
<input checked="" type="checkbox"/> Plant: stiffness	very weak	very weak	weak	weak to medium

<input checked="" type="checkbox"/> Inflorescence: number of flowers per inflorescence	many	many	very few	few
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Prior Applications: Nil

First sold in Australia in May 2016.

Description: **Mark Lunghusen**, Wonga Park, Melbourne, VIC.

Details of Application		
Application Number	2011/220	
Variety Name	'LCS5'	
Genus Species	<i>Lomandra hybrid</i>	
Common Name	Matt Rush	
Synonym	Nil	
Accepted Date	15 Nov 2011	
Applicant	TC Australia Pty Ltd, Skye, VIC	
Agent	N/A	
Qualified Person	Mark Lunghusen	
Details of Comparative Trial		
Location	Longwarry, VIC	
Descriptor	Lomandra TG/287/1	
Period	Winter - Spring 2019	
Conditions	Plants were grown outside in commercially supplied pine bark and coir based potting media. Plants were fertilised with slow release fertiliser and overhead watered as required.	
Trial Design	10 plants in block design	
Measurements	Taken from middle third of stem	
RHS Chart - edition	2007	
Origin and Breeding		
<p>Open pollination followed by seedling selection: At the applicant's property a number of commercially raised <i>Lomandra confertifolia</i> ssp <i>leptostachys</i> x <i>L. cylindrica</i> seedlings were grown during spring / summer 2007/08. Two plants were isolated as they exhibited varying, distinctive growth, foliage and flowering characteristics from the rest of the rest of the crop. The plants were then grown on to maturity and were reevaluated. These initial selections were then divided, and a further generation grown to maturity before a final selection was made in June 2009 for one of the selections because of the following criteria: "Growth habit (strongly weeping vs. ascending, arched). Foliage colour (fresh green vs dark green) and Flower length (long slender, weeping vs. shorter, less weeping). The variety has since been initiated into tissue culture and all subsequent generations have been uniform and stable. Breeder Joseph Murray, Longwarry, VIC.</p>		
Choice of Comparators Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge		
Organ/Plant Part	Context	State of Expression in Group of Varieties
Plant	habit	semi-upright to spreading
Leaf blade	width	very narrow to narrow
Leaf	main colour	green
Leaf	type of apex	entire

Most Similar Varieties of Common Knowledge identified (VCK)	
Name	Comments
'LCP1020' (Misty Green)	
'Lime Wave'	
'Greenscape'	

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with a tick.

Organ/Plant Part: Context	'LCS5'	'Greenscape'	'Lime Wave'	'LCP1020'
<input type="checkbox"/> Plant: habit	semi upright	spreading	semi upright	spreading
<input checked="" type="checkbox"/> Plant: height of foliage	short	very short	short to medium	short
<input checked="" type="checkbox"/> Plant: density of foliage	medium	sparse	medium	medium
<input type="checkbox"/> Leaf: attitude of upper third	semi-erect	drooping	semi-erect	semi-erect to drooping
<input checked="" type="checkbox"/> Leaf blade: length	medium	short	medium	narrow
<input type="checkbox"/> Leaf blade: width	narrow	very narrow to narrow	narrow	narrow
<input type="checkbox"/> Leaf: profile in cross section	moderately concave	moderately concave	moderately concave	moderately concave
<input type="checkbox"/> Leaf: type of apex	entire	entire	entire	entire
<input type="checkbox"/> Leaf: texture	smooth	smooth	smooth	smooth
<input checked="" type="checkbox"/> Leaf: glaucosity of upper side	very weak	weak to medium	very weak	very weak
<input type="checkbox"/> Leaf: main colour of upper side	RHS 137B	RHS 137A	RHS 137A	RHS 137B
<input type="checkbox"/> Leaf: glossiness of upper side	absent or weak	medium	absent or weak	absent or weak
<input type="checkbox"/> Leaf: pliability	strong	strong	strong	strong
<input checked="" type="checkbox"/> Basal sheath: shredding of margin	weak to medium	medium to strong	medium	absent or very weak
<input type="checkbox"/> Basal sheath: intensity of brown colour	medium	dark	light	light
<input type="checkbox"/> Inflorescence: position in relation to foliage	below	below	below	below
<input type="checkbox"/> Inflorescence: number of branches	absent or very few	absent or very few	absent or very few	absent or very few
<input type="checkbox"/> Inflorescence: length of	short	short	short	short

flowering part				
<input checked="" type="checkbox"/> Peduncle: length	medium	very short to short	medium to long	medium
<input checked="" type="checkbox"/> Peduncle: colour	green	red brown	green	yellow green
<input type="checkbox"/> Bract: length	short	very short	short	short
<input checked="" type="checkbox"/> Calyx: colour	yellow green	grey purple	yellow green	yellow green

Characteristics Additional to the Descriptor/TG				
Organ/Plant Part: Context	'LCS5'	'Greenscape'	'Lime Wave'	'LCP1020'
<input checked="" type="checkbox"/> Inflorescence: number of of flowers per inflorescence	very few	many	few	many
<input checked="" type="checkbox"/> Plant: time of flowering	late	early	medium to late	medium
<input checked="" type="checkbox"/> Plant: stiffness	weak	very weak	weak to medium	very weak

Prior Applications and Sales:

Nil

First sold in the Australia in Oct: 2010.

Description: **Mark Lunghusen**, Australian Horticultural Services Pty Ltd, Wonga Park, VIC.

Details of Application				
Application Number	2014/248			
Variety Name	'LM600'			
Genus Species	<i>Lomandra</i> hybrid			
Common Name	Matt Rush			
Accepted Date	29 Apr 2015			
Applicant	Ozbreed Pty Limited, Clarendon NSW			
Qualified Person	John Oates			
Details of Comparative Trial				
Location	Clarendon NSW			
Descriptor	TG/287/1			
Period	Oct 2017 to June 2019			
Conditions	Plants growing in commercial potting mix in 300mm plastic pots; overhead watering as required; nil overhead shelter.			
Trial Design	Plants arranged in randomized pattern.			
Measurements	As per UPOV Technical guidelines.			
RHS Chart - edition	Sixth edition (2015)			
Origin and Breeding				
<p>Controlled breeding program: In 2010 a number of fine leafed <i>Lomandra</i> selections were grown in close proximity to each other as: A fine leaf breeding line (A) was grown next to a number of <i>Lomandra</i>, including 'LM300'. Seed was collected from Line (A) in late spring early summer 2010. this seed was germinated in early 2011; 7 fine leaf plants were selected and grown on. In September 2011 one selection was made showing a finer leaf and more compact growth. The selection was divided, in early 2012, into five plants. One plant was sent for Tissue Culture initiation. The other four were grown on in 90mm pots. All plants were subsequently put through two generations of vegetative subdivision. These divisions and the TC derived plants all were uniform and stable for the selected characters and nil off-types have been observed over six generations of division. Breeder: Todd Layt, Ozbreed Pty Ltd, Clarendon NSW</p>				
Choice of Comparators Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge				
Organ/Plant Part	Context	State of Expression in Group of Varieties		
Leaf blade	width	narrow		
Plant	height of foliage	short to medium		
Most Similar Varieties of Common Knowledge identified (VCK)				
Name	Comments			
'Little Tuffy'				
Varieties of Common Knowledge identified and subsequently excluded				
Variety	Distinguishing Characteristics	State of Expression in Candidate Variety	State of Expression in Comparator Variety	Comments
'Fine n Dandy'	Plant height	short to medium	medium to tall	

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with X.

Organ/Plant Part: Context	'LM600'	'Little Tuffy'
<input checked="" type="checkbox"/> Plant: habit	spreading	semi upright
<input type="checkbox"/> Plant: height of foliage	short to medium	short to medium
<input checked="" type="checkbox"/> Plant: density of foliage	dense	medium
<input checked="" type="checkbox"/> Leaf: attitude of upper third	drooping	erect
<input type="checkbox"/> Leaf blade: length	medium to long	medium
<input type="checkbox"/> Leaf blade: width	narrow	narrow
<input type="checkbox"/> Leaf: profile in cross section	moderately concave	moderately concave
<input type="checkbox"/> Leaf: type of apex	toothed	toothed
<input type="checkbox"/> Leaf: length of middle tooth	medium	medium
<input type="checkbox"/> Leaf: texture	smooth	smooth
<input type="checkbox"/> Leaf: glaucosity of upper side	very weak	weak to medium
<input checked="" type="checkbox"/> Leaf: main colour of upper side	143A-C	137A
<input type="checkbox"/> Leaf: glossiness of upper side	absent or weak	medium
<input type="checkbox"/> Leaf: pliability	strong	strong
<input checked="" type="checkbox"/> Basal sheath: shredding of margin	strong	very weak to weak
<input type="checkbox"/> Basal sheath: intensity of brown colour	light	light
<input type="checkbox"/> Inflorescence: position in relation to foliage	below	below
<input type="checkbox"/> Inflorescence: number of branches	few	medium
<input type="checkbox"/> Inflorescence: length of flowering part	medium	medium
<input checked="" type="checkbox"/> Peduncle: length	long	short
<input type="checkbox"/> Peduncle: colour	yellow green	brown
<input type="checkbox"/> Bract: length	medium	medium to long
<input type="checkbox"/> Calyx: colour	yellow green	orange brown

Prior Applications and Sales:

Nil

Description: **John Oates**, Merimbula NSW

Details of Application		
Application Number	2016/246	
Variety Name	'MXPBCN'	
Genus Species	<i>Magnolia hybrid</i>	
Common Name	Michelia	
Synonym	Pink Bouquet	
Accepted Date	15 May 2017	
Applicant	Coolwyn Nurseries Pty Ltd, Monbulk, VIC.	
Agent	N/A	
Qualified Person	Christopher Prescott	
Details of Comparative Trial		
Location	Vika Ave, Monbulk Victoria	
Descriptor	PBR MAGN Magnolia	
Period	October 2017 to September 2019	
Conditions	The trial was set at a wholesale Nursery that specialises in this Genus amongst others in Monbulk Victoria. Plants of the candidate and plants of the comparators were generated by cuttings and potted eventually into 200mm pots in a pine bark mix that contained slow release fertiliser. Watering and disease management were maintained as part of a commercial Nursery enterprise. Examination took place when the first available flowers presented on the candidate on second year old plants.	
Trial Design	10 plants of each variety were randomly selected from a larger population and arranged into varietal blocks.	
Measurements	Measurements were taken at random by both me as QP and an examiner from the PBR office.	
RHS Chart - edition	2007	
Origin and Breeding		
Controlled pollination: Pollen from 'Bubbles' placed onto flowers of 'Scented Pearl' (maternal parent) in Spring 2007. The seed was harvested in Autumn 2008 and sown in Spring 2008. First observations were made in Spring 2010 of approximately 150 seedlings. MXPBCN was selected Spring 2010. All work was carried out by, or under the supervision of Leo Koelewyn at a nursery on Victoria Avenue, Monbulk, Victoria. Breeder: Leo Koelewyn, Coolwyn Nurseries Pty Ltd, Monbulk, VIC.		
Choice of Comparators Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge		
Organ/Plant Part	Context	State of Expression in Group of Varieties
Plant	seasonality	evergreen
Plant	type	tree
Plant	growth type	upright
Leaf	length of blade	short to medium

Petal	main colour on lower side	pink		
Most Similar Varieties of Common Knowledge identified (VCK)				
Name	Comments			
'MXPPCN'				
'MicJur01'				
Varieties of Common Knowledge identified and subsequently excluded				
Variety	Distinguishing Characteristics	State of Expression in Candidate Variety	State of Expression in Comparator Variety	Comments
'Bubbles'	Leaf length of blade	short to medium	long	
'Scented Pearl'	Petal main colour of lower side	pink	white	

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with a tick.

Organ/Plant Part: Context	MXPBCN	MicJur01	MXPPCN
<input type="checkbox"/> Plant: seasonality	evergreen	evergreen	evergreen
<input type="checkbox"/> Plant: type	tree	tree	tree
<input type="checkbox"/> Plant: growth habit	upright	upright	upright
<input type="checkbox"/> Leaf: length of blade	short to medium	medium	short
<input type="checkbox"/> Leaf: width of blade	narrow	medium to broad	narrow to medium
<input type="checkbox"/> Leaf: main colour upper side	medium green to dark green	medium green	medium green to dark green
<input checked="" type="checkbox"/> Leaf: main colour lower side	dark green	medium green	medium green
<input type="checkbox"/> Flower: diameter	small	medium	very small to small
<input type="checkbox"/> Flower: shape (lateral view)	cup	cup	cup
<input type="checkbox"/> Petal: length	medium to long	long	medium
<input checked="" type="checkbox"/> Petal: width	broad	medium	medium
<input type="checkbox"/> Petal: width in relation to length	very small (1/3) to small (1/2)	small (1/2)	small (1/2)
<input type="checkbox"/> Petal: main colour mid zone upper side (RHS colour chart)	155A	N155D	N155B
<input type="checkbox"/> Petal: main colour mid zone lower side (RHS colour chart)	70B	70C	70B

<input type="checkbox"/> Petal: main colour margin upper side (RHS colour chart)	71A	71A	71A
<input type="checkbox"/> Petal: main colour margin lower side (RHS colour chart)	71A	71A	71A
<input type="checkbox"/> Filament: colour	pink	yellow	pink
<input type="checkbox"/> Flower: number of petals	few to medium	medium	few
<input type="checkbox"/> Time of: beginning of flowering	medium	medium	medium

Characteristics Additional to the Descriptor/TG			
Organ/Plant Part: Context	MXPBCN	MicJur01	MXPPCN
<input checked="" type="checkbox"/> Leaf: main colour lower side (RHS colour chart)	138A	146B to 146C	146B
<input checked="" type="checkbox"/> Young leaf: main colour upper surface (RHS colour chart)	139A	146A	147A
<input checked="" type="checkbox"/> Leaf: undulation	medium	weak	very weak
<input checked="" type="checkbox"/> Leaf: apex	acuminate	acute	acute
<input type="checkbox"/> Leaf: shape of base	acuminate	obtuse	acuminate
<input type="checkbox"/> Style: colour	green	green	yellow
<input type="checkbox"/> Anther: colour	pink	brown	pink
<input type="checkbox"/> Leaf: brownish hairs on under side	absent or very weak	absent or very weak	weak
<input type="checkbox"/> Flower bud: size	small to medium	small to medium	small
<input checked="" type="checkbox"/> Petal: shape	obovate	elliptic	elliptic
<input checked="" type="checkbox"/> Flower: main colour	pinkish white	pink	purple
<input type="checkbox"/> Flower: fragrance	weak	medium	weak to medium
<input type="checkbox"/> Leaf: glossiness of upper side	strong	medium	strong
<input type="checkbox"/> Leaf: shape of blade	lanceolate	obovate	lanceolate
<input type="checkbox"/> Flower: bud colour	bronze	bronze	bronze

Prior Applications and Sales:

Nil

Description: **Christopher Prescott**, Prescott Roses Pty Ltd, Berwick, VIC.

Details of Application	
Application Number	2019/062
Variety Name	'ALLOWAY'
Genus Species	<i>Arachis hypogaea</i>
Common Name	Peanut
Synonym	Nil
Accepted Date	07 May 2019
Applicant	Peanut Company of Australia Ltd, Kingaroy, QLD, Grains Research and Development Corporation, Barton, ACT and The State of Queensland through the Department of Agriculture and Fisheries, Brisbane, QLD.
Agent	N/A
Qualified Person	Graeme Wright
Details of Comparative Trial	
Location	A trial was conducted at the Bundaberg Research Station Bundaberg, QLD
Descriptor	Peanut (<i>Arachis hypogaea</i>) UPOV TG 93/3
Period	December 2018 - May 2019
Conditions	The trial at Qld Dept Agriculture and Fisheries Bundaberg Research Station, Kalkie Qld was conducted under standard management practices using full irrigation, non-limiting fertiliser and insect and foliar disease control.
Trial Design	120 plants of each of 5 cultivars (Alloway G1 - generation harvested in 2017; Alloway G2 - generation harvested in 2018; Holt; Wheeler; Kairi) in a Randomised Block Design with 4 replicates planted in 1 x 5m rows at Bundaberg Research Station.
Measurements	Physical characteristics, pod yield and grade measured and analysed. Mature pods/kernels harvested from each plot on ~ 11 May 2019. Pod and kernel widths and lengths (50 measurements of pods/kernels per plot) determined. Analysis of variance (ANOVA) on data to be conducted with Genstat Release 10.
RHS Chart - edition	N/A
Origin and Breeding	
Controlled pollination: D304-17-p148-12 is a F2:4 line derived from a 3-way cross of 'Holt' with 'D280 F1' (made from a cross of Holt x D147-p8-6). 'Holt' (PBR Application No: 2003/317) was a high oleic, runner variety, released by the University of Florida, while D280 was a F1 plant derived from a cross of Holt x D147-p6-8, a hi oleic, foliar disease tolerant breeding line developed by the QDAF-GRDC peanut breeding program. The (D304) cross was made in 2006-07 and F1 seed grown out in a winter field nursery at a farmer's field near Gordonvale in North Queensland in 2007. In the following summer (2007/08) in a field block at the QDAF Kingaroy Research Station some single F2 plant selections were made on the basis of pod and kernel characteristics. F3 seed from those single plants was then planted as F2:3 rows on a field block at the QDAF Kingaroy Research Station in 2008/09. These	

rows were then further selected on the basis of high pod and kernel yield, high kernel % and pod and kernel characteristics. Subsequently, F2:4 single plants were grown out in a field block at the at the QDAF Bundaberg Research Station in S. Qld summer of 2009/10 under a limited fungicide spray program, and F4:5 selections made for superior leaf spot and leaf rust tolerance, along with superior kernel yield and grade characters. A 2 site F4:5 preliminary yield test was subsequently grown at the QDAF Kingaroy and Bundaberg Research Stations in S. Qld in the summer of 20010/11. The line was then tested over the following 7 years (2012 – 2018) in full season maturity regional variety evaluation trials and found to have superior kernel yield, grade out and Peanut Kernel Shrivell (PKS) tolerance compared to Holt and other full season maturity checks. Breeder: Dr Graeme Wright, Peanut Company of Australia Ltd, Kingaroy, QLD.

Choice of Comparators Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge		
Organ/Plant Part	Context	State of Expression in Group of Varieties
Plant	time of maturity	late
Kernel	oleic acid content	high
Kernel	main colour of testa	brownish pink
Most Similar Varieties of Common Knowledge identified (VCK)		
Name	Comments	
'Holt'	High oleic acid runner type	
'Wheeler'	High oleic acid Virginia type	
'Kairi'	High oleic acid runner type	

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with a tick.

Organ/Plant Part: Context	'ALLOWAY'	'Holt'	'Kairi'	'Wheeler'
<input type="checkbox"/> Plant: growth habit	semi erect	prostrate	semi erect	semi erect
<input type="checkbox"/> Plant: density	dense	dense	dense	dense
<input type="checkbox"/> Stem: anthocyanin colouration	absent or weak	absent or weak	absent or weak	absent or weak
<input type="checkbox"/> Main stem: presence of flowers	absent	absent	absent	absent
<input type="checkbox"/> Leaf: intensity of green colour	medium	medium	dark	medium
<input type="checkbox"/> Leaflet: length	medium	medium	medium	medium
<input type="checkbox"/> Leaflet: position of broadest part	at middle	at middle	at middle	at middle
<input type="checkbox"/> Leaflet: shape of apex	retuse	retuse	retuse	retuse
<input type="checkbox"/> Primary branch: flowering pattern	sequential	sequential	sequential	sequential
<input checked="" type="checkbox"/> Pod: constrictions	weak	medium	weak	absent or very weak
<input checked="" type="checkbox"/> Pod: reticulation of surface	medium	medium	strong	weak
<input type="checkbox"/> Pod: number of kernels	two	two	two	two

<input type="checkbox"/> Kernel: main colour of testa	brownish pink	brownish pink	brownish pink	brownish pink
<input type="checkbox"/> Kernel: presence of secondary colour of testa	absent	absent	absent	absent
<input checked="" type="checkbox"/> Kernel: 100 kernel wt	medium	medium	high	high
<input type="checkbox"/> Pod: thickness of shell	thin	thin	medium	medium
<input type="checkbox"/> Plant: time of maturity	late	late	late	late

Characteristics Additional to the Descriptor/TG

Organ/Plant Part: Context	'ALLOWAY'	'Holt'	'Kairi'	'Wheeler'
<input checked="" type="checkbox"/> Kernel: width	broad	medium	medium	medium

Statistical Table

Organ/Plant Part: Context	'ALLOWAY'	'Holt'	'Kairi'	'Wheeler'
<input checked="" type="checkbox"/> Kernel: length (mm)				
Mean	16.30	16.30	19.50	19.20
Std. Deviation	0.06	0.33	0.45	0.59
LSD/sig	0.93	ns	P≤0.01	P≤0.01
<input checked="" type="checkbox"/> Kernel: width (mm)				
Mean	11.10	10.10	10.10	10.10
Std. Deviation	0.12	0.20	0.10	0.18
LSD/sig	0.36	P≤0.01	P≤0.01	P≤0.01
<input checked="" type="checkbox"/> Kernel: 100 kernel wt (g)				
Mean	75.40	67.10	81.00	78.10
Std. Deviation	2.75	3.70	3.21	3.30
LSD/sig	4.56	P≤0.01	P≤0.01	ns

Prior applications and Sales:

Nil

Description: **Graeme Wright**, Kingaroy, QLD.

Details of Application	
Application Number	2014/251
Variety Name	'Bute'
Genus Species	<i>Solanum tuberosum</i>
Common Name	Potato
Synonym	
Accepted Date	01 May 2015
Applicant	Caithness Potatoes Holding BV, UK, London, UK
Agent	South Australian Seeds Pty Ltd, Virginia, SA
Qualified Person	John Fennell
Details of Comparative Trial	
Location	Nildottie SA
Descriptor	Potato (<i>Solanum tuberosum</i>) TG/23/6
Period	November 2018 to August 2019
Conditions	Seed tubers of both candidate and comparator varieties were planted in a field trial at Nildottie, South Australia on 19 November 2018 and grown according to normal commercial practice.
Trial Design	Block of 60 plants of the candidate variety placed adjacent to 60 plants of the comparator.
Measurements	Observations of plant, leaf and flower characteristics made on 16 January 2019. Tubers harvested in May 2019 and tuber records taken on 8 May 2019. Lightsprout data recorded on 20 August 2019.
RHS Chart - edition	
Origin and Breeding	
Controlled pollination: The variety 'Harmony' was pollinated by breeding line '17AVN01' in the Old Fargie Potato Breeding Company Ltd. potato breeding program at Glenfarg, Perth, Scotland, UK in 2005. The first four selection trials were done at Glenfarg and subsequent selection trials occurred at several locations in Scotland with the main selection criteria being marketable yield, maturity time, tuber appearance, disease resistances, cooking quality and storability. 'Bute' was commercially released in 2013. Breeder: Old Fargie Potato Breeding Company Ltd, Glenfarg, UK.	

Choice of Comparators Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge		
Organ/Plant Part	Context	State of Expression in Group of Varieties
Lightsprout	shape	conical
Tuber	shape	short oval to oval
Tuber	skin colour	light beige to yellow
Tuber	flesh colour	white to cream

Flower	colour	pink
Most Similar Varieties of Common Knowledge identified (VCK)		
Name	Comments	
‘Valor’		

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with a tick.		
Organ/Plant Part: Context	‘Bute’	‘Valor’
<input checked="" type="checkbox"/> Lightsprout: size	very small to small	medium
<input type="checkbox"/> *Lightsprout: shape	conical	conical
<input checked="" type="checkbox"/> *Lightsprout: intensity of anthocyanin colouration	weak	strong
<input type="checkbox"/> *Lightsprout: proportion of blue in anthocyanin colouration of base	absent or low	absent or low
<input checked="" type="checkbox"/> *Lightsprout: pubescence of base	weak	medium to strong
<input type="checkbox"/> Lightsprout: size of tip in relation to base	medium	large
<input type="checkbox"/> Lightsprout: habit of tip	open	open
<input type="checkbox"/> Lightsprout: anthocyanin colouration of tip	medium	medium
<input type="checkbox"/> Lightsprout: pubescence of tip	weak to medium	strong
<input type="checkbox"/> *Lightsprout: number of root tips	few	medium to many
<input type="checkbox"/> Lightsprout: length of lateral shoots	short	medium
<input type="checkbox"/> Plant: foliage structure	intermediate type	intermediate type
<input type="checkbox"/> *Plant: growth habit	semi-upright	upright to semi-upright
<input type="checkbox"/> *Stem: anthocyanin colouration	weak	weak
<input type="checkbox"/> Leaf: outline size	medium	medium
<input type="checkbox"/> Leaf: openness	closed	closed to intermediate
<input type="checkbox"/> Leaf: presence of secondary leaflets	strong	medium to strong
<input checked="" type="checkbox"/> Leaf: green colour	medium to dark	light
<input type="checkbox"/> Leaf: anthocyanin colouration on midrib of upper side	weak	absent or very weak
<input type="checkbox"/> Second pair of lateral leaflets: size	medium	small to medium
<input type="checkbox"/> Second pair of lateral leaflets: width in	medium	medium

relation to length		
<input type="checkbox"/> Terminal and lateral leaflets: frequency of coalescence	absent or very low	low
<input type="checkbox"/> Leaflet: waviness of margin	medium	medium
<input checked="" type="checkbox"/> Leaflet: depth of veins	deep	medium
<input checked="" type="checkbox"/> Leaflet: glossiness of the upperside	medium	dull
<input type="checkbox"/> Leaflet: pubescence of blade at apical rosette	present	present
<input type="checkbox"/> Plant: height	medium	medium
<input type="checkbox"/> *Plant: frequency of flowers	medium to high	medium
<input type="checkbox"/> Inflorescence: size	medium to large	medium to large
<input type="checkbox"/> Flower corolla: size	medium	large
<input type="checkbox"/> *Flower corolla: intensity of anthocyanin colouration on inner side	strong	medium to strong
<input type="checkbox"/> *Flower corolla: proportion of blue in anthocyanin colouration on inner side	absent or low	absent or low
<input type="checkbox"/> *Flower corolla: extent of anthocyanin colouration on inner side	medium	medium
<input type="checkbox"/> *Plant: time of maturity	medium	medium to late
<input type="checkbox"/> *Tuber: shape	oval	short-oval
<input type="checkbox"/> Tuber: depth of eyes	medium	shallow
<input type="checkbox"/> *Tuber: colour of skin	light beige	yellow
<input type="checkbox"/> *Tuber: colour of base of eye	white	yellow
<input type="checkbox"/> *Tuber: colour of flesh	white	cream
<input type="checkbox"/> Tuber: anthocyanin colouration of skin in reaction to light (light beige and yellow skinned varieties only)	absent or very weak	absent or very weak

Characteristics Additional to the Descriptor/TG		
Organ/Plant Part: Context	'Bute'	'Valor'
<input checked="" type="checkbox"/> Tuber: dormancy	long	medium
<input type="checkbox"/> Stem: thickness	thick	thick
<input checked="" type="checkbox"/> Tuber: skin smoothness	smooth	medium

<input type="checkbox"/> stem: wings	small	small
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Prior Applications and Sales:

First sold in UK on 1st Nov 2013

Country	Year	Status	Name Applied
UK	2013	Granted	'Bute'

Description: **John Fennell**, Littlehampton, SA 5250

Details of Application	
Application Number	2018/314
Variety Name	'NSW1'
Genus Species	<i>Raphanus sativus</i>
Common Name	Radish
Synonym	
Accepted Date	30 Jan 2019
Applicant	Norwest Seed Ltd, Ashburton, New Zealand
Agent	Pasture Genetics Ltd, Wingfield, SA 5013
Qualified Person	Ross Downes
Details of Comparative Trial	
Location	Wingfield, South Australia
Descriptor	TG/63/7-TG/64/7 Rev. Corr.
Period	winter/spring 2018 and 2019
Conditions	irrigated when necessary
Trial Design	randomised block with two replications, 100 plants per replicate
Measurements	20 November 2018 and 4 November 2019
RHS Chart - edition	
Origin and Breeding	
<p>Controlled pollination: 'Lunch', the maternal parent was bud pollinated with pollen from 'Defender' at Lincoln University, NZ in 2012. All breeding work was conducted in glasshouse and field in Canterbury. There were three cycles of selection for late maturity, lateral rooting bulb and bulb predominantly above ground. In sequential plantings, selected plants were pollinated by 'Defender'. For three generations single plant selections were transferred to insect-proof cages and randomly pollinated by bees. After the third cycle seed from selected plants was bulked and transferred to Norwest Seed Ltd for seed increase in isolation. The variety 'NSW1' has been in its present form for four generations. Breeders: Adrian Russell, Plant Research (NZ) Ltd, Templeton, Christchurch, New Zealand.</p>	

Choice of Comparators Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge		
Organ/Plant Part	Context	State of Expression in Group of Varieties
Plant	ploidy	diploid
Plant	harvest maturity	N type (> 60 days)
Radish	length	medium
Leaf blade	number of lobes	medium
Plant	growth cycle	annual
Most Similar Varieties of Common Knowledge identified (VCK)		
Name	Comments	

'Lunch'	
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Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with a tick.		
Organ/Plant Part: Context	'NSW1'	'Lunch'
<input type="checkbox"/> Plant: ploidy	diploid	diploid
<input type="checkbox"/> *Leaf: attitude	erect	erect
<input type="checkbox"/> *Leaf: length	medium	medium
<input type="checkbox"/> Leaf blade: shape of apex	rounded	rounded
<input checked="" type="checkbox"/> Leaf blade: colour	medium green	light green
<input type="checkbox"/> *Leaf blade: number of lobes	medium	medium
<input type="checkbox"/> Leaf blade: depth of incisions of margin	deep	deep
<input type="checkbox"/> Petiole: anthocyanin colouration	weak	weak
<input type="checkbox"/> *Radish: length	short	short
<input checked="" type="checkbox"/> Radish: diameter	large	medium
<input checked="" type="checkbox"/> *Radish: shape	ovate	oblong
<input type="checkbox"/> Radish: shape of shoulder	rounded	truncate
<input type="checkbox"/> Radish: shape of apex	acute	acute
<input type="checkbox"/> *Radish: number of colours of skin (excluding non thickened root)	one	
<input type="checkbox"/> *Radish: colour of skin of stem end	medium green	light green
<input type="checkbox"/> *Non-thickened root: colour	white	white
<input type="checkbox"/> Radish: main colour of flesh	opaque white	opaque white
<input checked="" type="checkbox"/> *Time of: harvest maturity	late	early
<input type="checkbox"/> Radish: tendency to become pithy	strong	strong

Characteristics Additional to the Descriptor/TG		
Organ/Plant Part: Context	'NSW1'	'Lunch'
<input checked="" type="checkbox"/> radish: position in soil	deep	shallow
<input type="checkbox"/> Plant: growth cycle	annual	annual

Prior Applications and Sales:

First sold in Australia on 24th April 2018

Country	Year	Status	Name Applied
New Zealand	2017	pendingd	'NSW1'

Description: **Ross Downes**, Innovative Plant Breeders, Moruya, NSW

Details of Application		
Application Number	2015/351	
Variety Name	'Pallaton'	
Genus Species	<i>Raphanus × Brassica</i>	
Common Name	Raphnobrassica	
Accepted Date	15 Mar 2016	
Applicant	Forage Innovations Limited, Christchurch, New Zealand	
Agent	A J Park, Sydney, NSW	
Qualified Person	James Sewell	
Details of Comparative Trial		
Overseas Testing Authority	New Zealand Plant Variety Rights Office	
Overseas Data Reference Number	CRM018 Grant no. 32956	
Location	Centralised PVR Trials, Lincoln, Christchurch, New Zealand	
Descriptor	TG/36/6	
Period	2015-16 & 2016-17	
Measurements	As according UPOV test guide line	
RHS Chart - edition		
Origin and Breeding		
Controlled pollination:		
2003 - Field selected for reduced bolting and high forage yield		
2004 - Field selected for reduced bolting, tall high yielding plants and self pollination		
2005 - Self pollination in the glasshouse in isolation		
2006 - Field selected for multiple grazing and plant persistence under heavy grazing		
2007 - Self pollination in the glasshouse in isolation		
2008 - Field selection for clubroot tolerance and later flowering/reduced bolting		
2009 - Mass pollination in isolation cage (6059.30)		
2010 - 6059.30 replicated plot trials throughout New Zealand		
2011 - 6059.30 reselected for high forage yield from multiple grazing and later flowering and reduced bolting and replicated plot trials throughout NZ and Australia. (30.7.B)		
2012 - Self pollination in the glasshouse and replicated plot trials throughout NZ and Australia (30.7.B)		
2013 - Reselected for later flowering and reduced bolting, in vitro screened for clubroot tolerance for three strains of clubroot and screened for water use efficiency and replicated plot trials throughout NZ and Australia.(30.7.B)		
2014 - Pre nucleus seed production in isolation cage and replicated plot trials throughout NZ and Australia		
Choice of Comparators Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge		
Organ/Plant Part	Context	State of Expression in Group of Varieties
Plant	ploidy	diploid
Leaf	lobes	present

Most Similar Varieties of Common Knowledge identified (VCK)	
Name	Comments
'Colano'	parent

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with X.

Organ/Plant Part: Context	'Pallaton'	'Colano'
<input type="checkbox"/> *Leaf: green colour	medium to dark	
<input type="checkbox"/> *Leaf: lobes	present	
<input type="checkbox"/> *Leaf: number of lobes	medium	
<input type="checkbox"/> *Leaf: dentation of margin	medium	
<input type="checkbox"/> Leaf: length	medium	
<input type="checkbox"/> Leaf: width	medium	
<input type="checkbox"/> Leaf: length of petiole (varieties with lobed leaves only)	medium	
<input checked="" type="checkbox"/> *Time of: flowering	late	early
<input type="checkbox"/> *Flower: colour of petals	white	
<input type="checkbox"/> Flower: length of petals	medium to long	
<input type="checkbox"/> Flower: width of petals	medium to broad	
<input type="checkbox"/> Production of: pollen	present	
<input type="checkbox"/> Plant: height	medium	
<input type="checkbox"/> *Plant: total length including side branches	medium	
<input type="checkbox"/> Siliqua: length	medium	
<input type="checkbox"/> Siliqua: length of beak	medium	
<input type="checkbox"/> Siliqua: length of peduncle	medium	

Characteristics Additional to the Descriptor/TG		
Organ/Plant Part: Context	'Pallaton'	'Colano'
<input type="checkbox"/> Plant: Ploidy	diploid	
<input type="checkbox"/> Root: colour	white	
<input type="checkbox"/> Leaf blade: density of curling	low to medium	
<input type="checkbox"/> Leaf: Presence of anthocyanin	present	
<input type="checkbox"/> Leaf: Intensity of anthocyanin	weak	
<input type="checkbox"/> Leaf: Extent of anthocyanin	very small	
<input type="checkbox"/> Petiole: Anthocyanin colouration	present	

Prior Applications and Sales:

Country	Year	Status	Name Applied
New Zealand	2015	Granted	'Pallaton'

Nil prior sales.

Description: **James Sewell**, Ballarat, VIC.

Details of Application				
Application Number	2014/109			
Variety Name	'Dolomia Plus'			
Genus Species	<i>Rubus idaeus</i>			
Common Name	Raspberry			
Synonym	Nil			
Accepted Date	18 Jul 2014			
Applicant	Sant'Orsola S.C.A. Trento, Italy.			
Agent	Plant Varieties Australia Limited, Silvan, VIC.			
Qualified Person	Charlotte Brunt			
Details of Comparative Trial				
Location	Mount Evelyn, VIC.			
Descriptor	Raspberry (<i>Rubus idaeus</i>) TG/43/7			
Period	2016-18			
Conditions	The trial was grown in Mount Evelyn under ambient Victorian conditions			
Trial Design	Standard orchard plantings			
Measurements	In accordance with UPOV technical guidelines			
RHS Chart - edition	N/A			
Origin and Breeding				
Controlled pollination: The new variety "Dolomia Plus" was obtained from the cross by the controlled pollination of Tulameen and Polka in 2004. It was selected as an elite cultivar in 2005 and has been tested since 2007. The characteristics of the new cultivar have been found stable and have been transmitted without change through succeeding asexual propagations. Breeder: Marco Giacomelli and Alessandra Viliotti, Sant'Orsola S.C.A. Trento, Italy.				
Choice of Comparators Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge				
Organ/Plant Part	Context	State of Expression in Group of Varieties		
Plant	habit	semi-upright		
Spines	presence	present		
Spines	length	medium		
Fruit	colour	medium red		
Most Similar Varieties of Common Knowledge identified (VCK)				
Name		Comments		
'Erika'				
Varieties of Common Knowledge identified and subsequently excluded				
Variety	Distinguishing Characteristics	State of Expression in Candidate Variety	State of Expression in Comparator Variety	Comments
'Polka'	Fruit colour	medium red	dark red	

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with a tick.

Organ/Plant Part: Context	'Dolomia Plus'	'Erika'
<input type="checkbox"/> Plant: habit	semi-upright	semi-upright
<input type="checkbox"/> *Plant: number of current season's canes	medium	medium
<input checked="" type="checkbox"/> *Very young shoot: anthocyanin colouration of apex during rapid growth	present	absent
<input type="checkbox"/> *Very young shoot: intensity of anthocyanin colouration of apex during rapid growth	very weak	
<input type="checkbox"/> Current season's cane: bloom	strong	very strong
<input checked="" type="checkbox"/> Current season's cane: anthocyanin colouration	medium	weak
<input type="checkbox"/> Current season's cane: length of internode	medium	medium
<input type="checkbox"/> Current season's cane: length of vegetative bud	short to medium	short to medium
<input type="checkbox"/> *Current season's cane: length (varieties which fruit on current season's cane in autumn)	long to very long	long to very long
<input type="checkbox"/> *Spines: presence	present	present
<input checked="" type="checkbox"/> *Spines: density (varieties with spines present only)	medium	sparse
<input type="checkbox"/> Spines: size of base (varieties with spines present only)	large	medium
<input type="checkbox"/> Spines: length (varieties with spines present only)	medium	medium
<input checked="" type="checkbox"/> Spines: colour (varieties with spines present only)	brownish purple	purplish brown
<input type="checkbox"/> *Leaf: green colour of upper side	medium to dark	dark
<input type="checkbox"/> *Leaf: predominant number of leaflets	three	equally three and five
<input type="checkbox"/> Leaf: profile of leaflets in cross section	concave	concave
<input type="checkbox"/> *Leaf: rugosity	medium to strong	medium
<input type="checkbox"/> Leaf: relative position of lateral leaflets	overlapping	touching
<input type="checkbox"/> Terminal leaflet: length	long	long
<input type="checkbox"/> Terminal leaflet: width	broad to very broad	very broad
<input type="checkbox"/> Pedicel: number of spines	few to medium	few to medium
<input type="checkbox"/> *Peduncle: presence of anthocyanin colouration	present	present
<input type="checkbox"/> *Peduncle: intensity of anthocyanin colouration	weak to medium	
<input checked="" type="checkbox"/> Flower: size	medium	large
<input checked="" type="checkbox"/> *Fruit: length	long	medium
<input type="checkbox"/> *Fruit: width	medium	medium

<input type="checkbox"/> *Fruit: ratio length/width	medium	medium
<input type="checkbox"/> *Fruit: general shape in lateral view	conical	conical
<input type="checkbox"/> Fruit: size of single drupe	medium	medium
<input type="checkbox"/> *Fruit: colour	medium red	medium red
<input type="checkbox"/> Fruit: glossiness	medium	weak to medium
<input checked="" type="checkbox"/> *Fruit: firmness	medium to firm	soft to medium
<input type="checkbox"/> Fruit: adherence to plug	weak to medium	weak to medium
<input type="checkbox"/> *Fruit: main bearing type	both previous year's cone in summer & current year's cone in autumn	both previous year's cone in summer & current year's cone in autumn
<input checked="" type="checkbox"/> *Time of: cane emergence (varieties which fruit on current year's cane in autumn)	medium	late
<input checked="" type="checkbox"/> *Time of: beginning of flowering on current season's cane (varieties which fruit on current year's cane in autumn)	early	late to very late
<input checked="" type="checkbox"/> *Time of: beginning of fruit ripening on current year's cane (varieties which fruit on current year's cane in autumn)	early	late to very late
<input checked="" type="checkbox"/> Length of: fruiting period on current year's cane (varieties which fruit on current year's cane in autumn)	long	very long

Characteristics Additional to the Descriptor/TG		
Organ/Plant Part: Context	'Dolomia Plus'	'Erika'
<input checked="" type="checkbox"/> Plant: vigour	medium	very strong

Prior Applications and Sales:

Country	Year	Status	Name Applied
EU	2012	Granted	'Dolomia Plus'
USA	2013	Granted	'Dolomia Plus'

Description: **Charlotte Brunt**, YV Fresh, Mount Evelyn, VIC.

Details of Application		
Application Number	2018/052	
Variety Name	'MB007'	
Genus Species	<i>Vaccinium</i> hybrid	
Common Name	Southern Highbush Blueberry	
Accepted Date	17 Apr 2018	
Applicant	Dr Gavin Porter, North Lakes QLD	
Agent	Australian Nurserymen's Fruit Improvement Company (ANFIC) Ltd, Kallangur QLD	
Qualified Person	Dr Gavin Porter	
Details of Comparative Trial		
Location	Ravensbourne, Queensland	
Descriptor	TG/137/4	
Period	2018-2019	
Conditions	There were no significant conditions which affected this trial.	
Trial Design	10 plants of both variety and comparator were planted in 30L bags in a large trial block of blueberries. All cultural practices were done as per the commercial plants.	
Measurements	Measurements were taken from 5 of the 10 plants for both the variety and comparator.	
RHS Chart - edition	5 th edition	
Origin and Breeding		
Controlled pollination: Seed parent 'MB002' and pollen parent 'MB014' in 2014 at North Lakes, QLD. Seed parent characterised by upright bush type, early season flowering with medium sized fruit. Pollen parent characterised by spreading growth habit with medium sized, mid-season maturing fruit. Seed from seed parent, 'MB002', gave approximately 300 plants. First fruiting of these seedlings occurred in 2016 with assessment of fruit and growth habits further evaluated. Further assessment in 2017 resulted in a seedling selection named 'MB007', which showed desirable traits. Further testing including vegetation propagation has occurred from 2016-2018 and lead to the conclusion of 'MB007' to be a distinct and suitable commercial variety for the retail trade. Breeder: Dr Gavin Porter		
Choice of Comparators Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge		
Organ/Plant Part	Context	State of Expression in Group of Varieties
Time of	vegetative budburst	very early
Time of	beginning of fruit ripening on current years shoot(varieties which fruit on one year old and current seasons shoots)	very early

Most Similar Varieties of Common Knowledge identified (VCK)				
Name		Comments		
'EB8-30'				
Varieties of Common Knowledge identified and subsequently excluded				
Variety	Distinguishing Characteristics	State of Expression in Candidate Variety	State of Expression in Comparator Variety	Comments
'Sharpeblue'	Plant height	short to medium	medium to tall	

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with X.

Organ/Plant Part: Context	'MB007'	'EB8-30'
<input type="checkbox"/> *Plant: vigour	medium to strong	medium
<input checked="" type="checkbox"/> *Plant: growth habit	semi-upright	intermediate
<input type="checkbox"/> One-year-old shoot: colour	green	green
<input type="checkbox"/> One-year-old shoot: length of internode	medium to long	short
<input type="checkbox"/> *Leaf: length	medium	medium
<input type="checkbox"/> Leaf: width	narrow	narrow to medium
<input type="checkbox"/> Leaf: ratio length/width	medium	medium to large
<input checked="" type="checkbox"/> *Leaf: shape	elliptic	ovate
<input type="checkbox"/> Leaf: colour of upper side	green	green
<input type="checkbox"/> *Leaf: intensity of green colour on upper side (varieties with green leaf colour only)	medium to dark	medium to dark
<input type="checkbox"/> *Leaf: margin	entire	entire
<input type="checkbox"/> Flower bud: anthocyanin colouration	very weak	very weak
<input type="checkbox"/> Inflorescence: length	short to medium	short to medium
<input type="checkbox"/> Flower: shape of corolla	urceolate	urceolate
<input type="checkbox"/> *Flower: size of corolla tube	small to medium	small
<input type="checkbox"/> *Flower: anthocyanin colouration of corolla tube	very weak to weak	very weak to weak
<input type="checkbox"/> Flower: ridges on corolla tube	present	present
<input checked="" type="checkbox"/> Fruit cluster: density	medium to dense	sparse
<input type="checkbox"/> *Unripe fruit: intensity of green colour	medium	medium
<input checked="" type="checkbox"/> *Fruit: size	medium to large	small to medium
<input type="checkbox"/> *Fruit: shape in longitudinal section	oblate	oblate
<input type="checkbox"/> Fruit: attitude of sepals	erect	erect
<input type="checkbox"/> Fruit: type of sepals	straight	straight
<input type="checkbox"/> Fruit: diameter of calyx basin	small to medium	small
<input type="checkbox"/> Fruit: depth of calyx basin	shallow	shallow

<input type="checkbox"/> *Fruit: intensity of bloom	strong	strong
<input type="checkbox"/> *Fruit: colour of skin	dark blue	dark blue
<input type="checkbox"/> Fruit: firmness	medium to firm	firm
<input type="checkbox"/> *Fruit: sweetness	high	high
<input type="checkbox"/> *Fruit: acidity	low	low
<input type="checkbox"/> *Plant: fruiting type	on one-year-old and current season's shoots	on one-year-old and current season's shoots
<input type="checkbox"/> *Time of: vegetative bud burst	very early	very early
<input type="checkbox"/> *Time of: beginning of flowering on one-year-old shoot	very early	very early
<input type="checkbox"/> *Time of: beginning of flowering on current year's shoot (varieties which fruit on one-year-old and current season's shoots only)	very early	very early
<input type="checkbox"/> *Time of: beginning of fruit ripening on one-year-old shoot	very early	very early
<input type="checkbox"/> *Time of: beginning of fruit ripening on current year's shoot (varieties which fruit on one-year-old and current season's shoots)	very early	very early

Characteristics Additional to the Descriptor/TG		
Organ/Plant Part: Context	'MB007'	'EB8-30'
<input checked="" type="checkbox"/> Plant: height	short to medium	very short

Prior Applications and Sales:

Nil

Description: **Dr Gavin Porter**, North Lakes, QLD

Details of Application		
Application Number	2013/227	
Variety Name	'Senros'	
Genus Species	<i>Lavandula pedunculata</i>	
Common Name	Spanish Lavender	
Accepted Date	11 Oct 2013	
Applicant	The Paradise Seed Company Pty. Ltd., Kariiong, NSW	
Qualified Person	Mark Lunghusen	
Details of Comparative Trial		
Location	Wonga Park, VIC	
Descriptor	TG/194/1	
Period	Spring - Summer 2018	
Conditions	Plants were grown outside in commercially supplied pinebark and coir based potting media. Plants were fertilised with slow release fertiliser and overhead watered as required.	
Trial Design	10 plants in block design	
Measurements	Taken from middle third of stem	
RHS Chart - edition	Fifth Edition	
Origin and Breeding		
Controlled pollination followed by seedling selection: In August 2007, a selected in-house form of <i>Lavandula pedunculata</i> (breeder ref PED02) was cross pollinated with pollen from <i>Lavandula rosea</i> . Seed from this cross was collected in November 2007 and sown immediately. There were 10 resultant F1 seedlings which were planted out into field beds in Jan 2008 and grown to flowering maturity. F2 seed was collected from selection #1160 from within this population and sown in August 2008. Approximately 200 seedlings germinated and were raised to flowering in 140mm pots between Jan 2009 & Sep 2009. In Sept 2009, 'Senros' was selected from this F2 population as a new variety based on plant habit & floral characteristics. 'Senros' has been propagated via cuttings for at least 4 generations and has proven to be uniform and stable for all characteristics. Breeder: Mr John Robb, Kulnura, NSW, Australia.		
Choice of Comparators Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge		
Organ/Plant Part	Context	State of Expression in Group of Varieties
Plant	habit	upright
Plant	size	small
Leaf	incisions of margin	absent
Spike	presence of infertile bracts	present
Most Similar Varieties of Common Knowledge identified (VCK)		
Name	Comments	
'Bee Pretty'		
'The Princess'		
'Love Heart'		
'Bee Romantic'		
'Bella Rose'		

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with a tick.

Organ/Plant Part: Context	‘Senros’	‘Bee Pretty’	‘Bee Romantique’	‘Bella Rose’	‘Love Heart’	‘The Princess’
<input type="checkbox"/> *Plant: growth habit	upright	upright	upright	upright	upright	upright
<input type="checkbox"/> *Plant: size	small	small	small	small	small	small
<input checked="" type="checkbox"/> Plant: intensity of green colour of foliage	medium	light	light to medium	medium	light to medium	medium to dark
<input checked="" type="checkbox"/> Plant: intensity of grey tinge of foliage	medium	medium	medium	medium	medium	strong
<input type="checkbox"/> *Plant: attitude of outer flowering stems	erect	erect	erect	erect	erect	erect
<input checked="" type="checkbox"/> *Plant: density	medium to dense	medium to dense	medium to dense	medium to dense	medium to dense	dense to very dense
<input type="checkbox"/> *Leaf: incisions of margin	absent	absent	absent	absent	absent	absent
<input checked="" type="checkbox"/> Flowering stem: length	short to medium	short to medium	short to medium	short to medium	short to medium	medium to long
<input checked="" type="checkbox"/> Flowering stem: thickness at middle third	thin to medium	thin to medium	thin to medium	thin to medium	thin to medium	very thin to thin
<input checked="" type="checkbox"/> *Flowering stem: intensity of green colour	light to medium	light to medium	light to medium	light to medium	light to medium	medium to dark
<input type="checkbox"/> Flowering stem: rigidity of basal part (Lavandula section only)	medium	medium	medium	medium	medium	medium
<input type="checkbox"/> *Flowering stem: lateral branching	present	present	present	present	present	present
<input type="checkbox"/> Flowering stem: number of lateral branches	medium	medium	medium	medium	medium	medium
<input checked="" type="checkbox"/> *Spike: maximum width	medium to broad	medium	narrow to medium	medium	medium	very narrow to narrow
<input checked="" type="checkbox"/> *Spike: total length	medium to long	short to medium	medium	short	short to medium	short
<input type="checkbox"/> *Spike: shape	cylindrical	cylindrical	cylindrical	cylindrical	cylindrical	cylindrical
<input type="checkbox"/> Spike: number of flowers	medium to many	medium to many	medium to many	medium to many	medium to many	medium to many
<input checked="" type="checkbox"/> Spike: width of fertile bracts	medium to broad	medium	medium	very narrow to narrow	medium	very narrow to narrow
<input checked="" type="checkbox"/> *Spike: main colour of fertile bracts (Stoechas and Pterostoechas sections only)	red purple	red purple	red purple	red purple	green	green
<input type="checkbox"/> Spike: presence of bracteole (Lavandula section only)	always present	always present	always present	always present	always present	always present

<input type="checkbox"/> *Spike: presence of infertile bracts	present	present	present	present	present	present
<input type="checkbox"/> *Spike: length of infertile bracts (Stoechas section only)	short to medium	short to medium	short to medium	very short to short	short to medium	short to medium
<input checked="" type="checkbox"/> *Spike: shape of infertile bracts (Stoechas section only)	elliptic	oblanceolate	oblanceolate	elliptic	oblanceolate	elliptic
<input checked="" type="checkbox"/> *Spike: main colour of infertile bracts (Stoechas section only) (RHS colour chart)	72B	N78A	72B	N78D	72B	72B
<input checked="" type="checkbox"/> Spike: undulation of margin of infertile bracts (Stoechas section only)	medium to strong	medium to strong	medium to strong	medium to strong	strong to very strong	medium to strong
<input type="checkbox"/> *Flower: colour of calyx	greenish	greenish	greenish	greenish	greenish	greenish
<input type="checkbox"/> Flower: pubescence of calyx	medium	medium	medium	medium	medium	medium
<input type="checkbox"/> *Corolla: colour	purple	purple	purple	purple	purple	purple

Characteristics Additional to the Descriptor/TG

Organ/Plant Part: Context	'Senros'	'Bee Pretty'	'Bee Romantic'	'Bella Rose'	'Love Heart'	'The Princess'
<input type="checkbox"/> Leaf: length	medium to long	long	medium	medium to long	long	medium
<input checked="" type="checkbox"/> Leaf: width	medium	narrow to medium	medium to broad	narrow to medium	broad	broad

Prior Applications and Sales:

First sold in Australia, Oct 2010

Description: **Mark Lunghusen**, Wonga Park VIC

Details of Application		
Application Number	2017/240	
Variety Name	'Senpin'	
Genus Species	<i>Lavandula pedunculata</i>	
Common Name	Spanish Lavender	
Accepted Date	20 Dec 2017	
Applicant	The Paradise Seed Company Pty Limited, Kariiong NSW	
Qualified Person	Mark Lunghusen	
Details of Comparative Trial		
Location	Wonga Park, VIC	
Descriptor	Lavandula TG/194/1-Rev	
Period	Autumn to Spring 2019	
Conditions	Plants were grown outside in commercially supplied pinebark and coir based potting media. Plants were fertilised with slow release fertiliser and overhead watered as required.	
Trial Design	10 plants in block design	
Measurements	Taken from middle third of stem	
RHS Chart - edition	Fifth Edition	
Origin and Breeding		
<p>Controlled pollination followed by seedling selection: A selected in house variety of <i>Lavandula pedunculata</i> (breeder ref PED02) was cross pollinated with pollen from <i>Lavandula pedunculata rosea</i>. Seed from this cross was collected in November 2007 and sown immediately. There were 10 resultant seedlings which were planted out into open field beds in January 2008 and grown to flowering maturity. Selection #1160 was identified from within this population as a potential parent variety. Selection #1160 was self-pollinated in August 2008, the resultant seed produced approximately 200 seedlings which were raised to flowering in 14cm pots between January & September 2009. 'Senpin' was selected from this population as a new variety based on plant habit and floral characteristics. 'Senpin' has been propagated for at least 4 generations and has been proven to be stable and uniform.</p>		
Choice of Comparators Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge		
Organ/Plant Part	Context	State of Expression in Group of Varieties
Plant	growth habit	upright to bushy
Plant	size	medium
Leaf	incisions of margin	absent
Flowering stem	lateral branching above foliage	present
Spike	presence of infertile bracts	present
Spike	main colour of infertile bracts	light purple
Most Similar Varieties of Common Knowledge identified (VCK)		
Name	Comments	
'Frill Pink'		

'Sensation Rose'	

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with X.

Organ/Plant Part: Context	'Senpin'	'Frill Pink'	'Sensation Rose'
<input type="checkbox"/> *Plant: growth habit	upright	bushy	upright
<input type="checkbox"/> *Plant: size	medium	medium	medium
<input checked="" type="checkbox"/> Plant: intensity of green colour of foliage	light	medium	dark
<input checked="" type="checkbox"/> Plant: intensity of grey tinge of foliage	medium	absent or very weak	weak
<input type="checkbox"/> *Plant: attitude of outer flowering stems	erect	semi-erect	semi-erect
<input type="checkbox"/> *Plant: density	medium	dense	medium
<input type="checkbox"/> *Leaf: incisions of margin	absent	absent	absent
<input checked="" type="checkbox"/> Flowering stem: length	medium	very short	short
<input checked="" type="checkbox"/> Flowering stem: thickness at middle third	thin to medium	thick to very thick	thin to medium
<input type="checkbox"/> *Flowering stem: intensity of green colour	light to medium	light to medium	light to medium
<input checked="" type="checkbox"/> Flowering stem: intensity of pubescence (Stoechas and Pterostoechas sections only)	weak	very weak	medium to strong
<input type="checkbox"/> *Flowering stem: lateral branching	present	present	present
<input type="checkbox"/> Flowering stem: number of lateral branches	many	many	many
<input checked="" type="checkbox"/> *Flowering stem: length of longest lateral branch above foliage	short to medium	medium to long	short to medium
<input type="checkbox"/> *Spike: maximum width	narrow to medium	narrow to medium	narrow to medium
<input type="checkbox"/> *Spike: total length	short	short	short
<input type="checkbox"/> *Spike: shape	cylindrical	cylindrical	cylindrical
<input type="checkbox"/> Spike: number of flowers	many	many	many
<input type="checkbox"/> Spike: width of fertile bracts	medium	medium	medium
<input type="checkbox"/> *Spike: main colour of fertile bracts (Stoechas and Pterostoechas sections only)	violet	red purple	red purple
<input type="checkbox"/> *Spike: presence of infertile bracts	present	present	present
<input checked="" type="checkbox"/> *Spike: length of infertile bracts (Stoechas section only)	short to medium	very short to short	short to medium
<input type="checkbox"/> *Spike: shape of infertile bracts (Stoechas section only)	elliptic	elliptic	oblong
<input checked="" type="checkbox"/> *Spike: main colour of infertile bracts (Stoechas section only) (RHS colour chart)	RHS 84C	RHS N80C	RHS N80B
<input checked="" type="checkbox"/> Spike: undulation of margin of infertile bracts (Stoechas section only)	weak to medium	medium	strong

<input checked="" type="checkbox"/> *Flower: colour of calyx	purplish	greenish	greenish
<input type="checkbox"/> Flower: pubescence of calyx	strong	strong	strong
<input type="checkbox"/> *Corolla: colour	violet	purple	purple
<input type="checkbox"/> Time of: beginning of flowering	medium	medium to late	medium to late

Prior Applications and Sales:

Nil

Description: **Mark Lunghusen**, Wonga Park VIC

Details of Application				
Application Number	2015/347			
Variety Name	'Muru'			
Genus Species	<i>Lomandra longifolia</i>			
Common Name	Spiny Headed Mat Rush			
Accepted Date	01 Feb 2016			
Applicant	Muru Mittaggar, Penrith, NSW			
Agent	Ozbreed Pty Ltd, Clarendon NSW			
Qualified Person	John Oates			
Details of Comparative Trial				
Location	Clarendon NSW 2756			
Descriptor	TG/287/1			
Period	Oct 2017 to June 2019			
Conditions	Plants growing in commercial potting mix in 300mm plastic pots; overhead watering as required; nil overhead shelter			
Trial Design	Plants arranged in randomized pattern			
Measurements	As per UPOV technical guidelines			
RHS Chart - edition	Sixth Edition (2015)			
Origin and Breeding				
Seedling selection: During a commercial build-up of seedling nursery stock, in February 2010, a unique pale variegated seedling was observed. The seedling was isolated and grown on; in April 2011 vegetative cuttings were produced; the resultant plants were tested for hardiness and stability of the unique characters. The selection was named 'Muru'; it has proven to be stable over at least five generations of reproduction; it is a strong growing variegated form of the species. Breeder: Deborah Tindery, Penrith South, NSW.				
Choice of Comparators Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge				
Organ/Plant Part	Context	State of Expression in Group of Varieties		
Plant	density of foliage	dense		
Leaf	secondary colour upper side	gr. 2: yellow green		
Leaf	glaucosity of upper side	very weak		
Most Similar Varieties of Common Knowledge identified (VCK)				
Name	Comments			
'NPW3'				
Varieties of Common Knowledge identified and subsequently excluded				
Variety	Distinguishing Characteristics	State of Expression in Candidate Variety	State of Expression in Comparator Variety	Comments
'Sungold'	Leaf width	narrow	broad	

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with X.

Organ/Plant Part: Context	'Muru'	'NPW3'
<input checked="" type="checkbox"/> Plant: habit	semi upright	upright
<input type="checkbox"/> Plant: height of foliage	short to medium	medium
<input type="checkbox"/> Plant: density of foliage	dense	dense
<input checked="" type="checkbox"/> Leaf: attitude of upper third	drooping	semi-erect
<input type="checkbox"/> Leaf blade: length	long	long
<input checked="" type="checkbox"/> Leaf blade: width	narrow	very narrow
<input type="checkbox"/> Leaf: profile in cross section	moderately concave	moderately concave
<input type="checkbox"/> Leaf: type of apex	toothed	toothed
<input checked="" type="checkbox"/> Leaf: length of middle tooth	medium to long	short to medium
<input type="checkbox"/> Leaf: texture	medium	medium
<input type="checkbox"/> Leaf: glaucosity of upper side	very weak	very weak
<input type="checkbox"/> Leaf: main colour of upper side	NN137B	137A
<input type="checkbox"/> Leaf: secondary colour of upper side	154D	154D
<input type="checkbox"/> Leaf: glossiness of upper side	medium	medium
<input type="checkbox"/> Leaf: pliability	strong	strong
<input type="checkbox"/> Basal sheath: shredding of margin	absent or very weak	absent or very weak
<input type="checkbox"/> Basal sheath: intensity of brown colour	light	light
<input type="checkbox"/> Inflorescence: position in relation to foliage	level	below
<input type="checkbox"/> Inflorescence: number of branches	few	very few to few
<input checked="" type="checkbox"/> Inflorescence: length of flowering part	long	short
<input checked="" type="checkbox"/> Peduncle: length	long	very short to short
<input checked="" type="checkbox"/> Peduncle: colour	yellow green	brown
<input checked="" type="checkbox"/> Bract: length	medium to long	short to medium
<input type="checkbox"/> Calyx: colour	white	white

Prior Applications and Sales:

Nil

Description: **John Oates**, Merimbula NSW

Details of Application		
Application Number	2012/085	
Variety Name	'Fine 'n Dandy'	
Genus Species	<i>Lomandra</i>	
Common Name	Spiny Headed Mat Rush	
Synonym	Nil	
Accepted Date	17 May 2012	
Applicant	Mansfields Austrafloora Holdings Pty Ltd, Carrum Downs, VIC	
Agent	N/A	
Qualified Person	Mark Lunghusen	
Details of Comparative Trial		
Location	Carrum Downs, VIC	
Descriptor	Lomandra TG/287/1	
Period	Winter - Spring 2019	
Conditions	Plants were grown outside in commercially supplied pinebark and coir based potting media. Plants were fertilised with slow release fertiliser and overhead watered as required.	
Trial Design	10 plants in block design	
Measurements	Taken from middle third of stem	
RHS Chart - edition	Fifth Edition	
Origin and Breeding		
Open pollination followed by seedling selection: a seedling with the listed characteristics was observed and selected from a batch of seedlings germinated from seed collection from the breeder's property. It was divided and grown on to determine distinctness, uniformity and stability. Breeder: Daniel Mansfield, Skye, VIC.		
Choice of Comparators Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge		
Organ/Plant Part	Context	State of Expression in Group of Varieties
Plant	habit	semi upright to spreading
Leaf	main colour	green
Leaf	type of apex	toothed
Most Similar Varieties of Common Knowledge identified (VCK)		
Name	Comments	
'Katrinus'		
'Katrinus Delux'		
'Nyalla'		
<i>L. Longifolia</i>	Common form	

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with a tick.

Organ/Plant Part: Context	'Fine 'n Dandy'	'Katrinus'	'Katrinus Delux'	<i>L. Longifolia</i>	'Nyalla'
<input type="checkbox"/> Plant: habit	semi upright	semi upright to spreading	semi upright	semi upright	semi upright
<input type="checkbox"/> Plant: height of foliage	tall	tall	tall	tall	tall
<input type="checkbox"/> Plant: density of foliage	dense to very dense	dense	dense	dense	dense
<input type="checkbox"/> Leaf: attitude of upper third	semi-erect	semi-erect to drooping	semi-erect	semi-erect	semi-erect
<input type="checkbox"/> Leaf blade: length	long	long	long	long	long
<input checked="" type="checkbox"/> Leaf blade: width	medium to broad	very broad	broad	very broad	medium
<input type="checkbox"/> Leaf: profile in cross section	strongly concave	strongly concave	moderately concave	strongly concave	strongly concave
<input type="checkbox"/> Leaf: type of apex	toothed	toothed	toothed	toothed	toothed
<input checked="" type="checkbox"/> Leaf: length of middle tooth	medium	long	medium	medium to long	long
<input type="checkbox"/> Leaf: texture	smooth	smooth	smooth	smooth	smooth
<input checked="" type="checkbox"/> Leaf: glaucosity of upper side	weak to medium	weak	very weak	medium	medium to strong
<input type="checkbox"/> Leaf: main colour of upper side	RHS N138A	RHS 146A	RHS 146A	RHS 147B	RHS N137A
<input type="checkbox"/> Leaf: glossiness of upper side	medium	medium	medium	medium	medium
<input type="checkbox"/> Leaf: pliability	strong	strong	strong	strong	strong
<input checked="" type="checkbox"/> Basal sheath: shredding of margin	weak to medium	medium to strong	absent or very weak	weak	medium
<input type="checkbox"/> Basal sheath: intensity of brown colour	medium	dark	medium	light	light
<input type="checkbox"/> Inflorescence: position in relation to foliage	below	below	below	below	below
<input type="checkbox"/> Inflorescence: number of branches	medium	medium	medium	medium	medium
<input checked="" type="checkbox"/> Inflorescence: length of flowering part	long to very long	medium to long	long to very long	medium	medium
<input type="checkbox"/> Peduncle: length	medium	short	short	short	medium

<input checked="" type="checkbox"/>	Peduncle: colour	red brown	yellow green	yellow green	yellow green	green
<input checked="" type="checkbox"/>	Bract: length	medium	medium	very long	long	short
<input type="checkbox"/>	Calyx: colour	grey purple	-	-	-	orange brown

Prior Applications and Sales:

Nil

First sold in the Australia in Oct: 2011.

Description: **Mark Lughusen**, Australian Horticultural Services Pty Ltd, Wonga Park, VIC.

Details of Application	
Application Number	2018/139
Variety Name	'JCU-Vs1'
Genus Species	<i>Stylosanthes viscosa</i>
Common Name	Sticky Stylo
Synonym	Nil
Accepted Date	22 May 2018
Applicant	James Cook University, Townsville, QLD
Agent	Agrimix Pastures Pty Ltd, Virginia, QLD
Qualified Person	Dr Donald S. Loch
Details of Comparative Trial	
Location	Birkdale, QLD, Australia (Latitude 27°30'S, longitude 153°14'E, elevation 18 masl)
Descriptor	National Descriptor for Stylosanthes (PBR STYL)
Period	11 Nov 2017 – 29 Mar 2019
Conditions	Seeds sown in 40 x 40 mm tubes (thinned to one seedling per tube); watered with a slurry of Stylo rhizobium inoculant (CB82) on 8 Dec 2017. Seedlings planted out into a red volcanic (krasnozem or ferrosol) soil on 28 Mar 2018; weed control by pendimethalin (Rifle 440) applied pre-planting on 18 Mar 2018; 313 kg/ha of blended fertiliser (N:P:K:S = 12.8:14.2:11.9:6.4) applied after planting on 30 Mar 2018 to give 40 kg N, 44 kg P, 37 kg K, and 20 kg S per hectare; supplementary trickle irrigation applied as required to maintain unstressed growth. Seedlings sprayed with azoxystrobin (Amistar SC 250 Fungicide) on 2, 9 & 24 Dec 2017 to control damping off disease; sprayed with azoxystrobin + iprodione (Rovral Liquid Fungicide) on 3 & 13 Sep 2018 to control Botrytis blight (<i>Botrytis</i> sp.) following sampling on 15 Aug 2018 and diagnosis by Grow Help Australia.
Trial Design	30 plants of each of 3 cultivars and accessions ('JCU-Vs1', CPI 33931, CPI 34904) plus a second generation of 'JCU-Vs1' arranged in 6 randomised blocks with 5 plants per plot in a single row along trickle irrigation lines; 0.5 m between plants in each plot and 1.0 m between plots in each row; 1.5 m between rows on trickle irrigation lines.
Measurements	Plant height and vigour rated (1-9) on 7 Feb 2019. Measurements of height and width of each individual plant completed on 15 Feb 2019. Measurements of leaf characteristics (5 leaves per plot) made from 27-29 Mar 2019. Analyses of variance (ANOVAs) conducted with Genstat Release 12; differences significant at the 1% level quantified using Fisher's protected LSDs.
RHS Chart - edition	2007 (5th edition)

Origin and Breeding
 Plant selection: 'JCU-Vs1' is derived from plants selected from a naturalised population of *Stylosanthes viscosa* discovered in March 2013 growing on the lower slopes of Mt Stuart (Townsville, QLD). It has since been grown for seed increase at James Cook University (Townsville) and at DAF's Walkamin Research Station. This seed was then used to sow small plot trials for evaluation at James Cook University (Townsville), "Fletcherview" (Charters Towers), "Four Mile" (Major Creek), "Peronne" (Hughenden), St Lawrence, and Gin Gin in Queensland. Plants of 'JCU-Vs1' have a hummock-like growth habit, produce good seed yields, and retain green leaf well into the northern dry season, thus providing valuable biomass and protein at a time of year when companion grasses are typically protein deficient. Under grazing, 'JCU-Vs1' is persistent and palatable to livestock. Breeder: Chris Gardiner (James Cook University, Townsville, QLD).

Choice of Comparators Characteristics used for grouping varieties to identify the most similar Varieties of Common Knowledge

Organ/Plant Part	Context	State of Expression in Group of Varieties
Stem	length of internode	short
Stem	diameter of internode	narrow to medium

Most Similar Varieties of Common Knowledge identified (VCK)

Name	Comments
CPI 33931	<i>Stylosanthes viscosa</i> accession grown in some historic pasture plant evaluation trials
CPI 34904	<i>Stylosanthes viscosa</i> accession widely grown in historic pasture plant evaluation trials

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with X.

Organ/Plant Part: Context	'JCU-Vs1'	'CPI 33931'	'CPI 34904'
<input checked="" type="checkbox"/> Plant: growth habit	medium to semi-spreading	semi-spreading	semi-spreading to spreading
<input checked="" type="checkbox"/> Plant: vigour	medium to strong	strong	weak
<input checked="" type="checkbox"/> Plant: height	short to medium	short to medium	very short to short
<input checked="" type="checkbox"/> Plant: width	wide to very wide	wide to very wide	medium to wide
<input type="checkbox"/> Plant: number of branches	many	many to very many	many
<input type="checkbox"/> Plant: density of branches	dense	dense to very dense	dense
<input type="checkbox"/> Stem: degree of hairiness (pubescence)	medium to strong	medium to strong	medium to strong
<input type="checkbox"/> Stem: viscid (sticky) hairs	very strong	very strong	very strong
<input type="checkbox"/> Stem: length of internode	short	short	short
<input type="checkbox"/> Stem: diameter of internode	narrow to medium	narrow to medium	narrow to medium

<input checked="" type="checkbox"/> Leaf: length of central trifoliate leaflet	medium to long	short	short to medium
<input type="checkbox"/> Leaf: width of central trifoliate leaflet	medium	medium	medium
<input checked="" type="checkbox"/> Leaf: length: width ratio of central trifoliate leaflet	medium to large	small	small to medium
<input checked="" type="checkbox"/> Leaf: length of petiole	medium to long	short	medium to long
<input type="checkbox"/> Leaf: viscid (sticky) petioles and stipule sheath	very strong	very strong	very strong
<input checked="" type="checkbox"/> Leaf: anthocyanin colouration at base of leaf sheath	weak	absent or very weak	absent or very weak
<input checked="" type="checkbox"/> Leaf: shape of central trifoliate leaflet	lanceolate	ovate	ovate to lanceolate
<input checked="" type="checkbox"/> Leaf: shape of leaflet apex	acute	bluntly pointed	acute
<input checked="" type="checkbox"/> Leaf: prominence of veins on leaflets	medium	very weak	medium
<input type="checkbox"/> Leaf: colour of upper surface (RHS)	138A	137B	137B
<input type="checkbox"/> Inflorescence: viscid (sticky)	very strong	very strong	very strong
<input checked="" type="checkbox"/> Disease susceptibility: presence of botrytis blight	absent or very weak	strong	absent or very weak

Statistical Table

Organ/Plant Part: Context	'JCU-Vs1'	'CPI 33931'	'CPI 34904'
<input checked="" type="checkbox"/> Plant: vigour (1 = very weak, 9 = very strong)			
Mean	6.50	6.83	2.83
Std. Deviation	0.55	0.75	0.75
LSD/sig	1.53	ns	P≤0.01
<input checked="" type="checkbox"/> Plant: growth habit (1 = erect, 9 = spreading)			
Mean	6.33	6.83	8.00
Std. Deviation	0.52	0.41	0.00
LSD/sig	0.74	ns	P≤0.01
<input checked="" type="checkbox"/> Plant: height (cm)			
Mean	30.37	31.07	22.45
Std. Deviation	3.76	5.41	2.99
LSD/sig	4.22	ns	P≤0.01
<input type="checkbox"/> Plant: width (cm)			
Mean	95.50	100.33	90.90
Std. Deviation	11.29	15.08	11.35
LSD/sig	8.59	ns	ns
<input checked="" type="checkbox"/> Plant: height: width ratio			
Mean	0.32	0.31	0.25
Std. Deviation	0.05	0.06	0.03
LSD/sig	0.04	ns	P≤0.01

<input checked="" type="checkbox"/> Leaf: length of sheath (mm)			
Mean	6.33	7.53	6.60
Std. Deviation	0.65	0.41	0.56
LSD/sig	0.60	P≤0.01	ns
<input checked="" type="checkbox"/> Leaf: length of trifoliolate petiole (mm)			
Mean	8.95	5.98	9.35
Std. Deviation	1.45	0.60	1.57
LSD/sig	1.51	P≤0.01	ns
<input checked="" type="checkbox"/> Leaf: length of central leaflet (mm)			
Mean	18.63	16.01	16.68
Std. Deviation	1.59	0.94	1.73
LSD/sig	1.67	P≤0.01	P≤0.01
<input type="checkbox"/> Leaf: width of central leaflet (mm)			
Mean	7.81	8.08	8.03
Std. Deviation	0.81	0.42	0.78
LSD/sig	0.63	ns	ns
<input checked="" type="checkbox"/> Leaf: length: width ratio of central leaflet			
Mean	2.40	1.99	2.08
Std. Deviation	0.21	0.14	0.17
LSD/sig	0.14	P≤0.01	P≤0.01
<input checked="" type="checkbox"/> Leaf: length of petiole on central leaflet (mm)			
Mean	3.42	2.27	3.35
Std. Deviation	0.45	0.37	0.58
LSD/sig	0.54	P≤0.01	ns
<input type="checkbox"/> Leaf: length of basal leaflet (mm)			
Mean	15.22	14.54	15.10
Std. Deviation	1.29	0.85	1.74
LSD/sig	1.73	ns	ns
<input type="checkbox"/> Leaf: width of basal leaflet (mm)			
Mean	6.16	6.46	6.13
Std. Deviation	0.51	0.37	0.63
LSD/sig	0.52	ns	ns
<input checked="" type="checkbox"/> Leaf: length: width ratio of basal leaflet			
Mean	2.48	2.26	2.47
Std. Deviation	0.23	0.13	0.24
LSD/sig	0.19	P≤0.01	ns

Prior Applications and Sales

Nil.

Description: D.S. Loch (Alexandra Hills, QLD) & C.M. Zorin (Birkdale, QLD)

Details of Application	
Application Number	2018/342
Variety Name	'DrisStrawFiftyNine'
Genus Species	<i>Fragaria</i> × <i>ananassa</i>
Common Name	Strawberry
Accepted Date	20 Dec 2018
Applicant	Driscoll's, Inc., Watsonville, California, USA
Agent	AJ Park, Sydney, NSW
Qualified Person	Jennifer Moisander

Details of Comparative Trial

Location	Driscoll's Australian certified Testing Centre, Palmwoods, Australia
Descriptor	Strawberry (<i>Fragaria</i> × <i>ananassa</i>) UPOV TG/22/10
Period	June to October 2019
Conditions	Asexual propagation of plant, then grown in field under standard strawberry production guidelines.
Trial Design	Plants of this variety 'DrisStawFiftyNine' were compared with 'DrisStrawTwo' in randomised block design
Measurements	Measurements and observations were taken from fruiting 4-6 month old randomly selected plants in field
RHS Chart - edition	2015

Origin and Breeding

Controlled pollination: This new variety 'DrisStrawFiftyNine' originated as a single plant selection from cross pollination between a proprietary female parent - UUK 116-003 (unpatented) and the proprietary male parent - UUK 167-027 (unpatented). 'DrisStrawFiftyNine' was asexually propagated and underwent testing for five years before transfer to Australia, and has been found to retain its distinctive characteristics. Breeders: Katalin Monika Pakozdi; Carlos D. Fear; Alessandra Lillo; all employees of Driscoll's, Inc. Watsonville, California USA.

Choice of Comparators Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge

Organ/Plant Part	Context	State of Expression in Group of Varieties
Fruit	shape	conical
Petal	colour of upper side	white
Fruit	colour	medium red

Most Similar Varieties of Common Knowledge identified (VCK)

Name	Comments
'DrisStrawTwo'	

Varieties of Common Knowledge identified and subsequently excluded					
Variety	Distinguishing Characteristics		State of Expression in Candidate Variety	State of Expression in Comparator Variety	Comments
	Organ/Plant Part	Context			
'DrisStrawThirtyFive'	Plant	type of bearing	fully remontant	not remontant	

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with a tick.

Organ/Plant Part: Context	'DrisStrawFiftyNine'	'DrisStrawTwo'
<input type="checkbox"/> *Plant: growth habit	semi-upright	spreading
<input type="checkbox"/> Plant: density of foliage	medium	medium to dense
<input type="checkbox"/> Plant: vigour	medium	medium
<input type="checkbox"/> *Plant: position of inflorescence in relation to foliage	above	above
<input type="checkbox"/> *Plant: number of stolons	medium	medium
<input checked="" type="checkbox"/> Stolon: anthocyanin colouration	absent or very weak	strong
<input type="checkbox"/> Stolon: density of pubescence	sparse	sparse
<input type="checkbox"/> Leaf: size	small to medium	medium to large
<input type="checkbox"/> Leaf: colour of upper side	blue green	dark green
<input type="checkbox"/> *Leaf: blistering	absent or weak	strong
<input type="checkbox"/> *Leaf: glossiness	medium	medium
<input type="checkbox"/> Leaf: variegation	absent	absent
<input type="checkbox"/> *Terminal leaflet: length in relation to width	moderately longer	equal
<input type="checkbox"/> *Terminal leaflet: shape of base	obtuse	rounded
<input type="checkbox"/> Terminal leaflet: margin	crenate	serrate
<input type="checkbox"/> Terminal leaflet: shape in cross section	concave	straight
<input type="checkbox"/> Petiole: length	long	long
<input type="checkbox"/> Petiole: attitude of hairs	horizontal	horizontal
<input type="checkbox"/> Stipule: anthocyanin colouration	absent or very weak	
<input type="checkbox"/> Inflorescence: number of flowers	many	
<input type="checkbox"/> Pedicel: attitude of hairs	upwards	
<input type="checkbox"/> Flower: diameter	medium	medium
<input type="checkbox"/> *Flower: arrangement of petals	overlapping	overlapping
<input type="checkbox"/> *Flower: size of calyx in relation to corolla	larger	larger

<input type="checkbox"/>	*Flower: stamen	present	present
<input type="checkbox"/>	Petal: length in relation to width	moderately longer	equal
<input type="checkbox"/>	*Petal: colour of upper side	white	white
<input type="checkbox"/>	*Fruit: length in relation to width	moderately longer	much longer
<input type="checkbox"/>	*Fruit: size	large	large
<input type="checkbox"/>	*Fruit: shape	conical	conical
<input type="checkbox"/>	Fruit: difference in shape of terminal and other fruits	none or very slight	moderate
<input type="checkbox"/>	*Fruit: colour	medium red	medium red
<input type="checkbox"/>	Fruit: evenness of colour	even or very slightly uneven	even or very slightly uneven
<input checked="" type="checkbox"/>	Fruit: glossiness	medium	strong
<input type="checkbox"/>	Fruit: evenness of surface	even or very slightly uneven	
<input checked="" type="checkbox"/>	Fruit: width of band without achenes	absent or very narrow	medium
<input type="checkbox"/>	*Fruit: position of achenes	level with surface	level with surface
<input type="checkbox"/>	Fruit: position of calyx attachment	level with fruit	raised
<input type="checkbox"/>	Fruit: attitude of sepals	upwards	outwards
<input type="checkbox"/>	Fruit: diameter of calyx in relation to diameter of fruit	much larger	slightly larger
<input type="checkbox"/>	Fruit: adherence of calyx	medium	medium
<input type="checkbox"/>	Fruit: firmness	medium	firm
<input type="checkbox"/>	Fruit: colour of flesh (excluding core)	light red	orange red
<input type="checkbox"/>	Fruit: colour of core	light red	
<input type="checkbox"/>	Fruit: cavity	absent or small	absent or small
<input type="checkbox"/>	*Time of: beginning of flowering	medium	
<input type="checkbox"/>	Time of: beginning of fruit ripening	medium	medium
<input type="checkbox"/>	*Type of: bearing	fully remontant	day neutral

Prior Applications and Sales:

Country	Year	Status	Name Applied
Canada	2018	Applied	'DrisStrawFiftyNine'
EU	2018	Applied	'DrisStrawFiftyNine'
Mexico	2018	Applied	'DrisStrawFiftyNine'
New Zealand	2018	Applied	'DrisStrawFiftyNine'
South Africa	2018	Applied	'DrisStrawFiftyNine'
Ukraine	2018	Applied	'DrisStrawFiftyNine'
USA	2018	Granted	'DrisStrawFiftyNine'

First sold in the UK in July 2007.

Description: **Jennifer Moisaner**, Palmwood, QLD

Details of Application		
Application Number	2018/001	
Variety Name	'Yotsuboshi'	
Genus Species	<i>Fragaria X ananassa</i>	
Common Name	Strawberry	
Synonym	Nil	
Accepted Date	17 Apr 2018	
Applicant	Miyoshi & Co., Ltd,	
Agent	Berry Sensation Pty Ltd, Notting Hill, VIC	
Qualified Person	Leslie Mitchell	
Details of Comparative Trial		
Location	Shady Creek, Victoria	
Descriptor	TG/22/10 Rev.	
Period	June to Nov 2019	
Conditions	Seeds of 'Yotsuboshi' were germinated and grown in jiffy pots at Shady Creek, Victoria. Comparators 'MYAG-2AD' and 'Tochiotome' were propagated vegetatively into jiffy pots. When all plants were at the same stage these were planted into grow bags and managed hydroponically under glass house conditions. All plants were managed as a commercial crop.	
Trial Design	Un-randomised block 40 plants per variety.	
Measurements	As per TG/22/10	
RHS Chart - edition	RHS colour chart; 6th Edition; 2015.	
Origin and Breeding		
Controlled pollination: In September 2009, crosses were completed between 160 parent lines to produce 1317 F1 hybrids at the Mei prefecture research station, Japan. One cross, between the patented variety 'Miebohon 1 gou', owned by the Mei prefecture, Japan, and breeding line 'A8S4-147' owned by Kagawa prefecture, Japan was coded 'Kitou 23' for further development. 22 lines (including 'Kitou 23') were selected for further evaluation in 2010-11. From these selections three lines showed particularly desirable characteristics and were then evaluated at four different fields located in Mei, Kagawa and Chiba prefectures and at the National Agriculture and Food Research Station at Tsukuba, in 2011-12. From these selections 'Keitou 23' exhibited outstanding characteristics and was further evaluated in 2012-13. These evaluations confirmed the earlier observations and the variety was named 'Yotsuboshi'. Successive generations have been propagated through hybrid seed production methods and have shown the variety to remain stable and true to form. Breeders: Toshiaki Mori, Junna Kohori, Hatsuyoshi Kitamura, Takumi Inoguchi, Ichiro Kata, Masami Ishikawa, Fumi Maeda, Kazuyoshi Sone.		
Choice of Comparators Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge		
Organ/Plant Part	Context	State of Expression in Group of Varieties
Plant	habit	upright semi-upright
Fruit	size	medium to large / medium

Fruit	shape	conical
Fruit	time to maturity	medium / medium to late
Most Similar Varieties of Common Knowledge identified (VCK)		
Name	Comments	
'MYAG-2AD'		
'Tochiotome'		

Varieties of Common Knowledge identified and subsequently excluded					
Variety	Distinguishing Characteristics		State of Expression in Candidate Variety	State of Expression in Comparator Variety	Comments
'Chiba F1 Gou'	Fruit	shape	conical	ovoid	
'Kaworino'	Fruit	colour	red	orange	

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with a tick.

Organ/Plant Part: Context	'Yotsuboshi'	'MYAG-2AD'	'Tochiotome'
<input type="checkbox"/> *Plant: growth habit	upright	upright	semi-upright
<input type="checkbox"/> Plant: density of foliage	medium to dense	medium to dense	medium
<input type="checkbox"/> Plant: vigour	strong	strong	medium to strong
<input type="checkbox"/> *Plant: position of inflorescence in relation to foliage	same level	same level	above
<input type="checkbox"/> *Plant: number of stolons	many to very many	medium to many	medium to many
<input checked="" type="checkbox"/> Stolon: anthocyanin colouration	very weak to weak	medium	very weak to weak
<input type="checkbox"/> Stolon: density of pubescence	medium	sparse	sparse
<input checked="" type="checkbox"/> Leaf: size	large	very large	large to very large
<input type="checkbox"/> Leaf: colour of upper side	light green	medium green	medium green
<input type="checkbox"/> *Leaf: blistering	absent or weak	absent or weak	absent or weak
<input checked="" type="checkbox"/> *Leaf: glossiness	medium	strong	absent or weak
<input type="checkbox"/> Leaf: variegation	absent	absent	absent
<input type="checkbox"/> *Terminal leaflet:: length in relation to width	moderately longer	moderately longer	much longer
<input type="checkbox"/> *Terminal leaflet: shape of base	acute	obtuse	acute
<input type="checkbox"/> Terminal leaflet: margin	serrate to crenate	serrate to crenate	serrate to crenate
<input type="checkbox"/> Terminal leaflet: shape in cross section	concave	concave	concave
<input checked="" type="checkbox"/> Petiole: length	long	medium	short to medium
<input type="checkbox"/> Petiole: attitude of hairs	horizontal	slightly outwards	slightly outwards

<input checked="" type="checkbox"/> Stipule: anthocyanin colouration	very weak to weak	weak	absent or very weak
<input type="checkbox"/> Inflorescence: number of flowers	few	few	few
<input type="checkbox"/> Pedicel: attitude of hairs	slightly outwards	slightly outwards	horizontal
<input type="checkbox"/> Flower: diameter	small to medium	small to medium	medium
<input type="checkbox"/> *Flower: arrangement of petals	overlapping	touching	touching
<input type="checkbox"/> *Flower: size of calyx in relation to corolla	smaller	same size	same size
<input type="checkbox"/> *Flower: stamen	present	present	present
<input type="checkbox"/> Petal: length in relation to width	equal	moderately shorter	moderately longer
<input type="checkbox"/> *Petal: colour of upper side	white	white	white
<input type="checkbox"/> *Fruit: length in relation to width	moderately longer	much longer	moderately longer
<input type="checkbox"/> *Fruit: size	medium	medium to large	medium to large
<input type="checkbox"/> *Fruit: shape	conical	conical	conical
<input type="checkbox"/> Fruit: difference in shape of terminal and other fruits	slight	slight	very slight to slight
<input type="checkbox"/> *Fruit: colour	medium red	dark red	medium red
<input type="checkbox"/> Fruit: evenness of colour	even or very slightly uneven	even or very slightly uneven	even or very slightly uneven
<input type="checkbox"/> Fruit: glossiness	medium	strong	strong
<input type="checkbox"/> Fruit: evenness of surface	even or very slightly uneven	even or very slightly uneven	even or very slightly uneven
<input type="checkbox"/> Fruit: width of band without achenes	very narrow to narrow	very narrow to narrow	absent or very narrow
<input type="checkbox"/> *Fruit: position of achenes	level with surface	below surface	below surface
<input type="checkbox"/> Fruit: position of calyx attachment	level with fruit	level with fruit	level with fruit
<input type="checkbox"/> Fruit: attitude of sepals	outwards	outwards	outwards
<input type="checkbox"/> Fruit: diameter of calyx in relation to diameter of fruit	same size	slightly smaller	slightly larger
<input type="checkbox"/> Fruit: adherence of calyx	strong	strong to very strong	strong
<input type="checkbox"/> Fruit: firmness	medium to firm	medium to firm	medium
<input checked="" type="checkbox"/> Fruit: colour of flesh (excluding core)	light red	orange red	light pink
<input type="checkbox"/> Fruit: colour of core	white	light red	white
<input type="checkbox"/> Fruit: cavity	absent or small	medium	medium
<input type="checkbox"/> *Time of: beginning of flowering	medium	medium	medium to late
<input type="checkbox"/> Time of: beginning of fruit ripening	medium	medium	medium to late
<input checked="" type="checkbox"/> *Type of: bearing	day neutral	day neutral	partially remontan

Characteristics Additional to the Descriptor/TG			
Organ/Plant Part: Context	'Yotsuboshi'	'MYAG-2AD'	'Tochiotome'
<input checked="" type="checkbox"/> Petiole: density of hairs	medium	large	medium
Statistical Table			
Organ/Plant Part: Context	'Yotsuboshi'	'MYAG-2AD'	'Tochiotome'
<input checked="" type="checkbox"/> Petiole: length (mm)			
Mean	26.50	22.70	20.00
Std. Deviation	2.72	2.88	2.64
LSD/sig	1.85	P≤0.01	P≤0.01

Prior Applications and Sales:

Country	Year	Status	Name Applied
JP	2014	Granted	'Yotsuboshi'
NZ	2018	Granted	'Yotsuboshi'

First sold in Japan April 2014.

Description: **Leslie Mitchell**, Eurofins Agrosience Services, Shepparton VIC 3630.

Details of Application		
Application Number	2017/291	
Variety Name	'DrisStrawFiftySix'	
Genus Species	<i>Fragaria × ananassa</i>	
Common Name	Strawberry	
Accepted Date	01 Nov 2017	
Applicant	Driscoll's, Inc. , Watsonville, California, USA	
Agent	AJ Park, Canberra, ACT	
Qualified Person	Jennifer Moisander	
Details of Comparative Trial		
Location	Driscoll's Australian certified Testing Centre, Palmwoods, Australia	
Descriptor	Strawberry (<i>Fragaria × ananassa</i>) UPOV TG/22/10	
Period	June to October 2019	
Conditions	Asexual propagation of plant, then grown in field under standard strawberry production guidelines	
Trial Design	Plants of this variety 'DrisStrawFiftySix' were compared with 'DrisStrawFortyFour' in a randomised block design	
Measurements	Measurements and observations were taken from the fruiting 4-6 months old randomly selected plants in field.	
RHS Chart - edition	2015	
Origin and Breeding		
Controlled pollination: This new variety 'DrisStrawFiftySix' originated as a single plant selection from the cross pollination between a proprietary female parent '516Q53' (unpatented) and the proprietary male parent 'DrisStrawTwenty' in Ventura County California in November 2009. After 6 years of successful propagation and testing is retained its distinctive characteristics and was transferred to Australia. Breeders: Michael D.Ferguson, Renae R. Robertson, Philip J. Stewart; All Employees of Driscolls INC. Watsonville California, USA.		
Choice of Comparators Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge		
Organ/Plant Part	Context	State of Expression in Group of Varieties
Plant	growth habit	semi-upright
Petal	colour of upper side	white
Leaf	size	medium
Petiole	length	medium
Fruit	colour	medium red
Most Similar Varieties of Common Knowledge identified (VCK)		
Name	Comments	
'DrisStrawFortyFour'		

Varieties of Common Knowledge identified and subsequently excluded					
Variety	Distinguishing Characteristics		State of Expression in Candidate Variety	State of Expression in Comparator Variety	Comments
	Organ/Plant Part	Context			
'DrisStrawTwentyOne'	Plant	time of: beginning of fruit ripening	medium	late	
DrisStrawThirtyOne	Plant	habit	semi-upright	flat globose	

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with a tick.

Organ/Plant Part: Context	'DrisStrawFiftySix'	'DrisStrawFortyFour'
<input type="checkbox"/> *Plant: growth habit	semi-upright	semi-upright
<input type="checkbox"/> Plant: density of foliage	sparse	medium to dense
<input type="checkbox"/> Plant: vigour	medium	very strong
<input type="checkbox"/> *Plant: position of inflorescence in relation to foliage	same level	above
<input checked="" type="checkbox"/> *Plant: number of stolons	few	many
<input type="checkbox"/> Stolon: anthocyanin colouration	absent or very weak	-
<input type="checkbox"/> Stolon: density of pubescence	sparse	-
<input type="checkbox"/> Leaf: size	medium	medium
<input type="checkbox"/> Leaf: colour of upper side	dark green	medium green
<input type="checkbox"/> *Leaf: blistering	medium	absent or weak
<input type="checkbox"/> *Leaf: glossiness	absent or weak	medium
<input type="checkbox"/> Leaf: variegation	absent	absent
<input type="checkbox"/> *Terminal leaflet:: length in relation to width	equal	equal
<input type="checkbox"/> *Terminal leaflet: shape of base	rounded	rounded
<input type="checkbox"/> Terminal leaflet: margin	serrate	crenate
<input type="checkbox"/> Terminal leaflet: shape in cross section	concave	concave
<input type="checkbox"/> Petiole: length	medium	medium
<input type="checkbox"/> Petiole: attitude of hairs	slightly outwards	horizontal
<input type="checkbox"/> Stipule: anthocyanin colouration	weak	strong to very strong
<input type="checkbox"/> Inflorescence: number of flowers	many	medium
<input type="checkbox"/> Pedicel: attitude of hairs	upwards	horizontal
<input type="checkbox"/> Flower: diameter	medium	medium

<input type="checkbox"/>	*Flower: arrangement of petals	touching	free
<input type="checkbox"/>	*Flower: size of calyx in relation to corolla	larger	same size
<input type="checkbox"/>	*Flower: stamen	present	present
<input type="checkbox"/>	Petal: length in relation to width	moderately shorter	equal
<input type="checkbox"/>	*Petal: colour of upper side	white	white
<input type="checkbox"/>	*Fruit: length in relation to width	moderately shorter	equal
<input checked="" type="checkbox"/>	*Fruit: size	medium	small
<input type="checkbox"/>	*Fruit: shape	cylindrical	conical
<input type="checkbox"/>	Fruit: difference in shape of terminal and other fruits	slight	slight
<input type="checkbox"/>	*Fruit: colour	medium red	medium red
<input type="checkbox"/>	Fruit: evenness of colour	even or very slightly uneven	even or very slightly uneven
<input checked="" type="checkbox"/>	Fruit: glossiness	medium	strong
<input type="checkbox"/>	Fruit: evenness of surface	slightly uneven	even or very slightly uneven
<input type="checkbox"/>	Fruit: width of band without achenes	absent or very narrow	narrow
<input type="checkbox"/>	*Fruit: position of achenes	below surface	level with surface
<input type="checkbox"/>	Fruit: position of calyx attachment	inserted	level with fruit
<input type="checkbox"/>	Fruit: attitude of sepals	upwards	upwards
<input type="checkbox"/>	Fruit: diameter of calyx in relation to diameter of fruit	slightly larger	slightly larger
<input checked="" type="checkbox"/>	Fruit: adherence of calyx	strong	very strong
<input type="checkbox"/>	Fruit: firmness	very firm	firm
<input type="checkbox"/>	Fruit: colour of flesh (excluding core)	whitish	light red
<input type="checkbox"/>	Fruit: colour of core	light red	light red
<input type="checkbox"/>	Fruit: cavity	absent or small	absent or small
<input type="checkbox"/>	*Time of: beginning of flowering	early	early
<input type="checkbox"/>	Time of: beginning of fruit ripening	medium	early
<input type="checkbox"/>	*Type of: bearing	fully remontant	day neutral

Prior Applications and Sales:

Country	Year	Status	Name Applied
Canada	2017	Applied	'DrisStrawFiftySix'

EU	2017	Applied	'DrisStrawFiftySix'
Mexico	2017	Granted	'DrisStrawFiftySix'
New Zealand	2017	Applied	'DrisStrawFiftySix'
South Africa	2017	Applied	'DrisStrawFiftySix'
Ukraine	2017	Applied	'DrisStrawFiftySix'
USA	2017	Granted	'DrisStrawFiftySix'

First sold in the USA in October 2016.

Description: **Jennifer Moisanter**, Palmwood, QLD.

Details of Application		
Application Number	2017/287	
Variety Name	'DrisStrawFiftyTwo'	
Genus Species	<i>Fragaria xananassa</i>	
Common Name	Strawberry	
Accepted Date	25 Oct 2017	
Applicant	Driscoll's, Inc.	
Agent	AJ Park, Level 9 Nishi, 2 Phillip Law Street, Canberra, ACT, 2601	
Qualified Person	Jennifer Moisander	
Details of Comparative Trial		
Location	Driscoll's Australian certified Testing Centre, Palmwoods, Australia	
Descriptor	Strawberry (<i>Fragaria</i> × <i>anassa</i>) UPOV TG/22/10	
Period	June to October 2019	
Conditions	Asexual propagation of plant, then grown in field under standard strawberry production guidelines.	
Trial Design	Plants of this variety 'DrisStrawFiftyTwo' were compared with 'DrisStrawForty' in a randomised block design.	
Measurements	Measurements and observations were taken from fruiting 4-6 month old nonrandom selected plants in field	
RHS Chart - edition	2015	
Origin and Breeding		
Controlled pollination: This new variety 'DrisStrawFiftyTwo' originated as a single plant selection from cross pollination between a proprietary female parent, 9S123 (unpatented) and the proprietary male parent ,140R374 (unpatented) in Hillsborough Country Florida in February of 2012. After 5 years of successful propagation and testing it retained its distinctive characteristics and was transfer to Australia. Breeders :Esther Kibbe;Philip J. Stewart; Both employees of Driscoll's INC Watsonville California USA.		
Choice of Comparators Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge		
Organ/Plant Part	Context	State of Expression in Group of Varieties
Plant	growth habit	spreading
Fruit	shape	conical
Petal	colour of upper side	white
Leaf	size	small
Plant	type of Bearing	not remontant
Most Similar Varieties of Common Knowledge identified (VCK)		
Name	Comments	
'DrisStrawForty'		

Varieties of Common Knowledge identified and subsequently excluded					
Variety	Distinguishing Characteristics Organ/Plant Part Context		State of Expression in Candidate Variety	State of Expression in Comparator Variety	Comments
'DrisStrawTwelve'	Fruit	colour	medium red	dark red	

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with a tick.

Organ/Plant Part: Context	'DrisStrawFiftyTwo'	'DrisStrawForty'
<input type="checkbox"/> *Plant: growth habit	spreading	spreading
<input type="checkbox"/> Plant: density of foliage	medium	medium
<input type="checkbox"/> Plant: vigour	weak	strong
<input type="checkbox"/> *Plant: position of inflorescence in relation to foliage	above	above
<input type="checkbox"/> Leaf: size	small	small
<input type="checkbox"/> Leaf: colour of upper side	medium green	dark green
<input type="checkbox"/> *Leaf: blistering	medium	medium
<input type="checkbox"/> *Leaf: glossiness	strong	strong
<input type="checkbox"/> Leaf: variegation	absent	absent
<input type="checkbox"/> *Terminal leaflet:: length in relation to width	equal	moderately longer
<input type="checkbox"/> *Terminal leaflet: shape of base	rounded	rounded
<input type="checkbox"/> Terminal leaflet: margin	crenate	crenate
<input type="checkbox"/> Terminal leaflet: shape in cross section	concave	concave
<input checked="" type="checkbox"/> Petiole: length	short	medium
<input type="checkbox"/> Petiole: attitude of hairs	upwards	horizontal
<input type="checkbox"/> Stipule: anthocyanin colouration	absent or very weak	absent or very weak
<input checked="" type="checkbox"/> Inflorescence: number of flowers	few	many
<input type="checkbox"/> Pedicel: attitude of hairs	horizontal	upwards
<input type="checkbox"/> Flower: diameter	large	large
<input type="checkbox"/> *Flower: arrangement of petals	overlapping	overlapping
<input type="checkbox"/> *Flower: stamen	present	present
<input type="checkbox"/> Petal: length in relation to width	equal	moderately shorter
<input type="checkbox"/> *Petal: colour of upper side	white	white
<input type="checkbox"/> *Fruit: length in relation to width	moderately longer	moderately longer

<input type="checkbox"/>	*Fruit: size	medium	medium
<input type="checkbox"/>	*Fruit: shape	conical	conical
<input type="checkbox"/>	Fruit: difference in shape of terminal and other fruits	none or very slight	none or very slight
<input type="checkbox"/>	*Fruit: colour	orange red	dark red
<input type="checkbox"/>	*Fruit: position of achenes	above surface	level with surface
<input type="checkbox"/>	Fruit: position of calyx attachment	level with fruit	level with fruit
<input type="checkbox"/>	Fruit: adherence of calyx	medium	strong
<input checked="" type="checkbox"/>	Fruit: colour of flesh (excluding core)	orange red	dark red
<input type="checkbox"/>	Fruit: colour of core	light red	light red
<input type="checkbox"/>	Fruit: cavity	absent or small	medium
<input type="checkbox"/>	*Time of: beginning of flowering	early	medium
<input checked="" type="checkbox"/>	Time of: beginning of fruit ripening	early	medium
<input type="checkbox"/>	*Type of: bearing	not remontant	not remontant

Prior Applications and Sales:

Country	Year	Status	Name Applied
Canada	2017	Applied	'DrisStrawFiftyTwo'
EU	2017	Applied	'DrisStrawFiftyTwo'
Mexico	2017	Granted	'DrisStrawFiftyTwo'
New Zealand	2017	Applied	'DrisStrawFiftyTwo'
South Africa	2017	Applied	'DrisStrawFiftyTwo'
Ukraine	2017	Applied	'DrisStrawFiftyTwo'
USA	2017	Granted	'DrisStrawFiftyTwo'

Prior Sales: Nil

Description: **Jennifer Moisander**, Palmwood, QLD.

Details of Application		
Application Number	2018/061	
Variety Name	'IFG Cher-one'	
Genus Species	<i>Prunus avium</i>	
Common Name	Sweet Cherry	
Synonym	Nil	
Accepted Date	18 Apr 2018	
Applicant	International Fruit Genetics, LLC, Bakersfield, CA, USA.	
Agent	Eurofins Agrosience Services, Shepparton VIC.	
Qualified Person	Leslie Mitchell	
Details of Comparative Trial		
Location	Lachlan River Road, Hillston NSW	
Descriptor	Sweet cherry (<i>Prunus avium</i>) TG/35/7	
Period	Assessments completed September to November 2019	
Conditions	Four year old trees growing in small adjacent evaluation blocks of more than 50 trees on 'Colt' rootstock.	
Trial Design	Large block un-randomised	
Measurements	As per TG/35/7	
RHS Chart - edition	RHS Colour chart, 6th edition 2015.	
Origin and Breeding		
<p>Open pollination: The new and distinct sweet cherry tree described and claimed, originated from open pollinated seeds collected in May 2001, from a sweet cherry tree designated as '10-1' growing in a commercial orchard of the 'Brooks' variety (U.S. Plant Patent No. 6,676) near Delano, Kern County, California. The seeds were stratified, germinated and the resulting seedlings were planted in a field locate near Delano, Kern County, California in April 2002. The present variety of sweet cherry tree was selected as a single plant in May 2005 and was first asexually propagated in January 2006 by grafting onto a tree of 'Belle de Planchoury' (not patented), itself being grafted on <i>Prunus mahalab</i> rootstock. It was subsequently propagated directly onto <i>Prunus mahalab</i> rootstock by chip budding in April 2007. These propagules were found to reproduce true-to-type by asexual propagation. All propagation was done near Delano, Kern County, California. Breeder: David W Cain Bakersfield, CA, USA.</p>		
Choice of Comparators Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge		
Organ/Plant Part	Context	State of Expression in Group of Varieties
Fruit	size	medium to large
Fruit	colour of skin	dark red
Fruit	time to beginning of fruit ripening	early/ early to medium
Most Similar Varieties of Common Knowledge identified (VCK)		
Name	Comments	
'Brooks'		

Varieties of Common Knowledge identified and subsequently excluded					
Variety	Distinguishing Characteristics		State of Expression in Candidate Variety	State of Expression in Comparator Variety	Comments
'Tulare'	Fruit	ripening	earlier	later	

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with a tick.

Organ/Plant Part: Context	'IFG Cher-one'	'Brooks'
<input checked="" type="checkbox"/> Tree: vigour	strong to very strong	weak
<input checked="" type="checkbox"/> *Tree: habit	spreading	semi-upright
<input checked="" type="checkbox"/> *Tree: branching	strong	medium
<input checked="" type="checkbox"/> One-year-old shoot: number of lenticels	few	medium
<input type="checkbox"/> One-year-old shoot: thickness	medium to thick	medium
<input type="checkbox"/> Leaf blade: length	long to very long	long to very long
<input type="checkbox"/> Leaf blade: width	broad to very broad	broad to very broad
<input type="checkbox"/> *Leaf blade: ratio length/width	medium	medium
<input type="checkbox"/> Leaf blade: intensity of green colour of upper side	light to medium	dark
<input checked="" type="checkbox"/> *Leaf: length of petiole	medium	long to very long
<input type="checkbox"/> Leaf: ratio length of blade/length of petiole	large to very large	large to very large
<input type="checkbox"/> *Leaf: presence of nectaries	present	present
<input checked="" type="checkbox"/> Nectaries: colour	orange yellow	greenish yellow
<input type="checkbox"/> Flower: diameter	large to very large	large
<input type="checkbox"/> Flower: shape of petal	medium obovate	medium obovate
<input type="checkbox"/> Flower: arrangement of petals	overlapping	overlapping
<input type="checkbox"/> *Fruit: size	medium to large	medium to large
<input checked="" type="checkbox"/> *Fruit: shape	reniform	oblate
<input checked="" type="checkbox"/> Fruit: pistil end	flat	depressed
<input checked="" type="checkbox"/> Fruit: suture	absent or very weakly conspicuous	strongly conspicuous
<input type="checkbox"/> *Fruit: length of stalk	short	short
<input type="checkbox"/> Fruit: thickness of stalk	medium	medium
<input type="checkbox"/> *Fruit: colour of skin	dark red	dark red
<input type="checkbox"/> Fruit: thickness of skin	intermediate	thick

<input checked="" type="checkbox"/> *Fruit: colour of flesh	dark red	pink
<input type="checkbox"/> Fruit: colour of juice	red	red
<input type="checkbox"/> *Fruit: firmness	medium	medium to firm
<input type="checkbox"/> Fruit: acidity	medium	medium
<input type="checkbox"/> Fruit: sweetness	medium	medium to high
<input type="checkbox"/> *Stone: size	medium	medium
<input type="checkbox"/> *Stone: shape in ventral view	broad elliptic	medium elliptic
<input type="checkbox"/> *Time of: beginning of flowering	medium	early to medium
<input type="checkbox"/> *Time of: beginning of fruit ripening	early	early to medium

Characteristics Additional to the Descriptor/TG

Organ/Plant Part: Context	'IFG Cher-one'	'Brooks'
<input checked="" type="checkbox"/> Petiole: anthocyanin colouration	strong	medium to high
<input checked="" type="checkbox"/> Leaf: glossiness	strong	absent or weak

Prior Applications and Sales:

Country	Year	Status	Name Applied
USA	2017	Granted	'IFG-Cher-one'

Description: **Leslie Mitchell**, Eurofins Agrosience Services, Shepparton VIC 3630.

Details of Application		
Application Number	2018/059	
Variety Name	'IFG Cher-three'	
Genus Species	<i>Prunus avium</i>	
Common Name	Sweet Cherry	
Synonym	Nil	
Accepted Date	06 Jun 2018	
Applicant	International Fruit Genetics, LLC, Bakersfield, CA, USA.	
Agent	Eurofins Agrosience Services, Shepparton VIC.	
Qualified Person	Leslie Mitchell	
Details of Comparative Trial		
Location	Lachlan River Road, Hillston NSW 2675	
Descriptor	Sweet Cherry (<i>Prunus avium</i>) TG/35/7	
Period	Assessments completed September to November 2019	
Conditions	Four year old trees growing in small adjacent evaluation blocks of more than 50 trees on 'Colt' rootstock.	
Trial Design	Large block un-randomised	
Measurements	As per TG/35/7	
RHS Chart - edition	RHS Colour chart, 6th edition 2015.	
Origin and Breeding		
<p>Open pollination: The new and distinct sweet cherry tree described and claimed originated from open pollinated seeds from fruits of an early ripening breeding line coded R5T15A, located in a commercial orchard near Bakersfield, Kern County, California. Seeds were collected in May 2001, stratified, germinated and the resulting seedlings planted in a field, near Delano, Kern County, California in April 2002. The present variety of sweet cherry tree was selected as a single plant in May 2005 and was first asexually propagated in January 2006 by grafting onto <i>Prunus mahalab</i> rootstock. This propagule was found to reproduce true-to-type by asexual propagation. All propagation was done near Delano, Kern County, California. Breeder; David W Cain Bakersfield, CA, USA.</p>		
Choice of Comparators Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge		
Organ/Plant Part	Context	State of Expression in Group of Varieties
Fruit	size	medium to large
Fruit	colour	dark red
Fruit	time to beginning of fruit ripening	early/early to medium
Most Similar Varieties of Common Knowledge identified (VCK)		
Name	Comments	
'Brooks'		

Varieties of Common Knowledge identified and subsequently excluded					
Variety	Distinguishing Characteristics		State of Expression in Candidate Variety	State of Expression in Comparator Variety	Comments
'Tulare'	Fruit	ripening	earlier	later	

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with a tick.

Organ/Plant Part: Context	'IFG Cher-three'	'Brooks'
<input checked="" type="checkbox"/> Tree: vigour	medium	weak
<input checked="" type="checkbox"/> *Tree: habit	spreading	semi-upright
<input type="checkbox"/> *Tree: branching	medium	medium
<input checked="" type="checkbox"/> One-year-old shoot: number of lenticels	few	medium
<input type="checkbox"/> One-year-old shoot: thickness	thin to medium	medium
<input checked="" type="checkbox"/> Leaf blade: length	medium	long to very long
<input checked="" type="checkbox"/> Leaf blade: width	narrow to medium	broad to very broad
<input checked="" type="checkbox"/> Leaf blade: intensity of green colour of upper side	medium	dark
<input checked="" type="checkbox"/> *Leaf: length of petiole	short to medium	long to very long
<input checked="" type="checkbox"/> Leaf: ratio length of blade/length of petiole	medium to large	large to very large
<input type="checkbox"/> *Leaf: presence of nectaries	present	present
<input checked="" type="checkbox"/> Nectaries: colour	light red	greenish yellow
<input type="checkbox"/> Flower: diameter	medium to large	large
<input type="checkbox"/> Flower: shape of petal	medium obovate	medium obovate
<input type="checkbox"/> Flower: arrangement of petals	overlapping	overlapping
<input type="checkbox"/> *Fruit: size	medium to large	medium to large
<input checked="" type="checkbox"/> *Fruit: shape	reinform	oblate
<input type="checkbox"/> Fruit: pistil end	flat	depressed
<input checked="" type="checkbox"/> Fruit: suture	absent or very weakly conspicuous	strongly conspicuous
<input checked="" type="checkbox"/> *Fruit: length of stalk	long	short
<input type="checkbox"/> Fruit: thickness of stalk	medium	medium
<input type="checkbox"/> *Fruit: colour of skin	dark red	dark red
<input type="checkbox"/> Fruit: thickness of skin	intermediate	thick
<input checked="" type="checkbox"/> *Fruit: colour of flesh	dark red	pink
<input checked="" type="checkbox"/> Fruit: colour of juice	purple	red
<input checked="" type="checkbox"/> *Fruit: firmness	very firm	medium to firm

<input type="checkbox"/>	Fruit: acidity	medium	medium
<input type="checkbox"/>	Fruit: sweetness	medium to high	medium to high
<input type="checkbox"/>	*Stone: size	small to medium	medium
<input type="checkbox"/>	*Stone: shape in ventral view	medium elliptic	medium elliptic
<input type="checkbox"/>	*Time of: beginning of flowering	early	early to medium
<input type="checkbox"/>	*Time of: beginning of fruit ripening	early	early to medium

Characteristics Additional to the Descriptor/TG

Organ/Plant Part: Context	'IFG Cher-three'	'Brooks'
<input checked="" type="checkbox"/> Leaf: glossiness	strong	absent or weak

Prior Applications and Sales:

Country	Year	Status	Name Applied
USA	2017	Granted	'IFG-Cher-three'

Description: **Leslie Mitchell**, Eurofins Agrosience Services, Shepparton VIC 3630.

Details of Application		
Application Number	2018/058	
Variety Name	'IFG Cher-four'	
Genus Species	<i>Prunus avium</i>	
Common Name	Sweet Cherry	
Synonym	Nil	
Accepted Date	06 Jun 2018	
Applicant	International Fruit Genetics, LLC, Bakersfield, CA, USA.	
Agent	Eurofins Agrosience Services, Shepparton VIC.	
Qualified Person	Leslie Mitchell	
Details of Comparative Trial		
Location	Lachlan River Road, Hillston NSW	
Descriptor	Sweet cherry (<i>Prunus avium</i>) TG/35/7	
Period	Assessments completed September to November 2019	
Conditions	Four year old trees growing in small evaluation blocks	
Trial Design	Large block un-randomised	
Measurements	As per TG/35/7	
RHS Chart - edition	RHS Colour chart, 6th edition 2015.	
Origin and Breeding		
<p>Open pollination: The new and distinct sweet cherry tree described and claimed originated from open pollinated seeds from fruits of an early ripening breeding line coded R5T15A, located in a commercial orchard near Bakersfield, Kern County, California. Seeds were collected in May 2001, stratified, germinated and the resulting seedlings planted in a field, near Delano, Kern County, California in April 2002. The present variety of sweet cherry tree was selected as a single plant in May 2005 and was first asexually propagated in January 2006 by grafting onto <i>Prunus mahalab</i> rootstock. These propagules were found to reproduce true-to-type by asexual propagation. All propagation was done near Delano, Kern County, California. Breeder: David W Cain, Bakersfield, CA, USA.</p>		
Choice of Comparators Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge		
Organ/Plant Part	Context	State of Expression in Group of Varieties
Fruit	colour of skin	yellow / yellow with blush
Fruit	firmness	Firm / medium to firm
Most Similar Varieties of Common Knowledge identified (VCK)		
Name	Comments	
'Ranier'		

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with a tick.

Organ/Plant Part: Context	'IFG Cher-four'	'Ranier'
<input checked="" type="checkbox"/> Tree: vigour	weak to medium	medium to strong
<input checked="" type="checkbox"/> *Tree: habit	spreading	upright
<input type="checkbox"/> Leaf blade: length	medium to long	long
<input checked="" type="checkbox"/> Leaf blade: width	medium	broad
<input type="checkbox"/> *Leaf blade: ratio length/width	medium	medium
<input type="checkbox"/> Leaf blade: intensity of green colour of upper side	medium	medium to dark
<input type="checkbox"/> *Leaf: presence of nectaries	present	present
<input type="checkbox"/> Flower: diameter	large	medium to large
<input type="checkbox"/> *Fruit: size	large to very large	medium to large
<input type="checkbox"/> *Fruit: shape	oblate	reniform
<input type="checkbox"/> Fruit: thickness of stalk	medium	medium
<input type="checkbox"/> *Fruit: colour of skin	yellow with blush	yellow
<input type="checkbox"/> *Fruit: colour of flesh	yellow	yellow
<input type="checkbox"/> *Fruit: firmness	medium to firm	firm
<input type="checkbox"/> Fruit: acidity	medium	medium
<input checked="" type="checkbox"/> Fruit: sweetness	high	medium
<input checked="" type="checkbox"/> *Stone: shape in ventral view	medium elliptic	circular
<input checked="" type="checkbox"/> *Time of: beginning of flowering	very early	medium
<input checked="" type="checkbox"/> *Time of: beginning of fruit ripening	early	medium

Prior Applications and Sales:

Country	Year	Status	Name Applied
USA	2017	Granted	'IFG Cher-four'

Description: **Leslie Mitchell**, Eurofins Agrosience Services, Shepparton VIC 3630.

Details of Application		
Application Number	2018/336	
Variety Name	'Seclusion'	
Genus Species	<i>Leptospermum hybrid</i>	
Common Name	Tea Tree	
Accepted Date	21 Dec 2018	
Applicant	Peter James Ollerenshaw, Bywong NSW	
Agent	Robert Dunstone, Wright, ACT	
Qualified Person	Robert Dunstone	
Details of Comparative Trial		
Location	Bywong Nursery, 159 Millynn Rd Bywong	
Descriptor	TG/211/1 Tea Tree (<i>Leptospermum</i>)	
Period	10/10/2018 to 19/11/2019	
Conditions	Twelve plants of each variety were grown in 20cm pots filled with a pine bark based compost supplemented with a slow release pelleted fertiliser. The plants were grown in a greenhouse under natural light and watered by an automatic system. No stress was observed.	
Trial Design	Randomised	
Measurements	Nil	
RHS Chart - edition	1988	
Origin and Breeding		
Cross pollination: A cross between <i>Leptospermum lanigeran</i> and <i>Leptospermum</i> 'Rhiannon' was made on 27/11/1997. Twenty seven seedlings were successfully established and grown on until flowering. 'Seclusion' was selected and propagated from cuttings for 6 generations. Breeder: Peter Ollerenshaw		
Choice of Comparators Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge		
Organ/Plant Part	Context	State of Expression in Group of Varieties
Plant	height	medium to tall
Flower	colour	purple/violet
Plant	habit	upright
Most Similar Varieties of Common Knowledge identified (VCK)		
Name	Comments	
'Aphrodite'	tall, upright plant with purple flowers	

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with a tick.

Organ/Plant Part: Context	'Seclusion'	'Aphrodite'
<input type="checkbox"/> Plant: growth habit	upright	upright
<input type="checkbox"/> Plant: height	tall	medium
<input type="checkbox"/> Plant: attitude of branches	semi-erect	semi-erect
<input type="checkbox"/> Plant: curvature of branches at distal end	straight	straight
<input type="checkbox"/> Plant: width	narrow	narrow
<input type="checkbox"/> Young shoot: main colour	purple	purple
<input type="checkbox"/> Young shoot: hairiness	medium	absent or weak
<input type="checkbox"/> *Young leaf: main colour	grey green	yellow green
<input type="checkbox"/> Leaf blade: attitude in relation to stem	oblique	oblique
<input type="checkbox"/> *Leaf blade: length	short	medium
<input type="checkbox"/> *Leaf blade: width	medium	medium
<input type="checkbox"/> Leaf blade: shape	elliptic	elliptic
<input type="checkbox"/> Leaf blade: profile in cross section	flat	flat
<input type="checkbox"/> Leaf blade: shape of apex	acute	acute
<input type="checkbox"/> *Leaf blade: variegation	absent	absent
<input type="checkbox"/> Leaf blade: main colour of upper side	grey green	yellow green
<input type="checkbox"/> Leaf blade: glossiness of upper side	weak	medium
<input type="checkbox"/> Leaf blade: hairiness on lower side	absent or weak	medium
<input type="checkbox"/> Flower bud: hairiness	medium	absent or weak
<input type="checkbox"/> Flower bud: predominant colour	white	white
<input type="checkbox"/> *Flower: number of whorls of petals	one	one
<input checked="" type="checkbox"/> Flower: arrangement of petals	touching	free
<input type="checkbox"/> Flower: number of fertile stamens	many	many
<input type="checkbox"/> Flower: diameter	medium	medium
<input type="checkbox"/> Flower: diameter of disc in relation to diameter of flower	one third to two thirds	one third to two thirds
<input type="checkbox"/> Disc: colour	medium green	yellow green
<input type="checkbox"/> Sepal: length in relation to length of petal	one third to two thirds	one third to two thirds
<input type="checkbox"/> Sepal: shape of apex	acute	acute
<input type="checkbox"/> Sepal: predominant colour	yellow green	yellow green
<input type="checkbox"/> Sepal: hairiness	strong	weak
<input type="checkbox"/> Petal: ratio length/width	broader than long	broader than long
<input type="checkbox"/> Petal: number of colour on upper side	one	one
<input type="checkbox"/> Petal: colour change after first opening	absent	absent
<input type="checkbox"/> Petal: main colour at first opening (RHS colour chart)	violet 87C	Red Purple 61C

<input type="checkbox"/> Petal: undulation of margin	very weak	weak
<input checked="" type="checkbox"/> Petal: main colour two weeks after first opening (RHS colour chart)	violet 87C	Red Purple 61C
<input type="checkbox"/> Disc: main colour two weeks after first opening	greenish	greenish
<input type="checkbox"/> Stamen: length of fertile stamen in relation to length of petal	up to half as long	more than half as long but less than equal
<input type="checkbox"/> Filaments: main colour	white	white
<input type="checkbox"/> Time of: beginning of flowering	early	medium

Characteristics Additional to the Descriptor/TG		
Organ/Plant Part: Context	'Seclusion'	'Aphrodite'
<input type="checkbox"/> Young Leaf : colour	grey green 191A	yellow green 144A
<input checked="" type="checkbox"/> Leaf Blade: colour	grey green 191A	yellow green 144A

Prior Applications and Sales:

First sold in Australia, Nov 2018

Description: **Robert Dunstone**, Wright, ACT

Details of Application		
Application Number	2019/021	
Variety Name	'SOLABOLL'	
Genus Species	<i>Solanum lycopersicum</i>	
Common Name	Tomato	
Synonym	Nil	
Accepted Date	27 Feb 2019	
Applicant	Nunhems B.V., Haelen, The Netherlands	
Agent	Shelston IP, Sydney, NSW	
Qualified Person	Ean Blackwell	
Details of Comparative Trial		
Overseas Testing Authority	Naktuinbouw, The Netherlands	
Overseas Data Reference Number	TMT3202	
Location	Naktuinbouw, ROELOFARENDSVEEN, The Netherlands	
Descriptor	TP/44/4	
Period	2018	
Measurements	In accordance with TP/44/4	
RHS Chart - edition	N/A	
Origin and Breeding		
Controlled pollination: Observations were first made at The Netherlands, Napoleonsweg 152, 6083 AB Nunhem. The present variety was developed from proprietary breeding lines via several generations of selfings of the parent lines followed by a hybrid cross.		
Choice of Comparators Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge		
Organ/Plant Part	Context	State of Expression in Group of Varieties
Plant	growth type	indeterminate
Peduncle	abscission layer	present
Fruit	green shoulder (before maturity)	absent
Fruit	green stripes (before maturity)	absent
Fruit	size	large
Fruit	shape in longitudinal section	oblate
Fruit	number of locules	four, five or six
Fruit	colour at maturity	red
Plant	Resistance to <i>Meloidogyne incognita</i>	susceptible
Plant	Resistance to <i>Verticillium sp.</i> (Vs and Vd) race 0	present
Plant	Resistance to <i>Fusarium oxysporum</i> f. sp: <i>lycopersici</i> , race 0 (ex 1)	present

Plant	Resistance to <i>Fusarium oxysporum</i> f. sp. <i>lycopersici</i> , race 1 (ex 2)	present
Plant	Resistance to <i>Tomato Mosaic Virus</i> (ToMV), strain 0	present
Plant	Resistance to <i>Tomato Spotted Wilt Virus</i> (TSWV), race 0	absent

Most Similar Varieties of Common Knowledge identified (VCK)

Name	Comments
'Listell'	

Varieties of Common Knowledge identified and subsequently excluded

Variety	Distinguishing Characteristics	State of Expression in Candidate Variety	State of Expression in Comparator Variety	Comments
'Merlice'	Peduncle abscission layer	present	absent	
'Kanavaro'	Leaf length	medium to long	short to medium	

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with a tick.

Organ/Plant Part: Context	'SOLABOLL'	'Listell'
<input type="checkbox"/> Seedling: anthocyanin colouration of hypocotyl (seed-propagated varieties only)	present	
<input type="checkbox"/> *Plant: growth type	indeterminate	
<input type="checkbox"/> Stem: anthocyanin colouration	absent or very weak	
<input type="checkbox"/> Stem: length of internode (varieties with plant growth type indeterminate only)	medium to long	
<input type="checkbox"/> Plant: height (varieties with plant growth type indeterminate only)	medium to long	
<input type="checkbox"/> *Leaf: attitude	horizontal to semi-drooping	
<input type="checkbox"/> Leaf: length	medium to long	
<input type="checkbox"/> Leaf: width	medium to broad	
<input type="checkbox"/> *Leaf: type of blade	bipinnate	
<input type="checkbox"/> Leaf: size of leaflets	medium to large	
<input checked="" type="checkbox"/> Leaf: intensity of green colour	dark	medium
<input type="checkbox"/> Leaf: glossiness	weak	
<input type="checkbox"/> Leaf: blistering	weak to medium	
<input type="checkbox"/> Leaf: attitude of petiole of leaflet in relation to main axis	semi-erect	

<input type="checkbox"/> Inflorescence: type	mainly uniparous	
<input type="checkbox"/> *Flower: colour	yellow	
<input type="checkbox"/> Flower: pubescence of style	present	
<input type="checkbox"/> *Peduncle: abscission layer	present	
<input type="checkbox"/> *Pedicel: length (varieties with peduncle abscission layer present only)	medium	
<input type="checkbox"/> *Fruit: green shoulder (before maturity)	absent	
<input type="checkbox"/> *Fruit: intensity of green colour excluding shoulder (before maturity)	light	
<input type="checkbox"/> Fruit: green stripes (before maturity)	absent	
<input type="checkbox"/> *Fruit: size	large	
<input type="checkbox"/> *Fruit: ratio length/diameter	moderately compressed	
<input type="checkbox"/> *Fruit: shape in longitudinal section	oblate	
<input type="checkbox"/> *Fruit: ribbing at peduncle end	weak	
<input type="checkbox"/> Fruit: depression at peduncle end	weak to medium	
<input type="checkbox"/> Fruit: size of peduncle scar	medium to large	
<input type="checkbox"/> Fruit: size of blossom scar	medium	
<input type="checkbox"/> Fruit: shape at blossom end	indented to flat	
<input type="checkbox"/> Fruit: diameter of core in cross section in relation to total diameter	large	
<input type="checkbox"/> Fruit: thickness of pericarp	thick to very thick	
<input type="checkbox"/> *Fruit: number of locules	four, five or six	
<input type="checkbox"/> *Fruit: colour (at maturity)	red	
<input type="checkbox"/> *Fruit: colour of flesh (at maturity)	red	
<input type="checkbox"/> Fruit: glossiness of skin	medium	
<input type="checkbox"/> *Fruit: firmness	firm to very firm	
<input type="checkbox"/> Time of: flowering	medium	
<input type="checkbox"/> *Time of: maturity	late to very late	
<input type="checkbox"/> *Resistance to: <i>Meloidogyne incognita</i> (Mi)	susceptible	
<input type="checkbox"/> *Resistance to: <i>Verticillium sp.</i> (Va and Vd) - Race 0	present	
<input type="checkbox"/> Resistance to: <i>Fusarium oxysporum</i> f. sp. <i>lycopersici</i> (Fol) - Race 0 (ex 1)	present	

<input type="checkbox"/> Resistance to: <i>Fusarium oxysporum</i> f. sp. <i>lycopersici</i> (Fol) - Race 1 (ex 2)	present	
<input type="checkbox"/> Resistance to: <i>Fusarium oxysporum</i> f. sp. <i>lycopersici</i> (Fol) - Race 2 (ex 3)	absent	
<input type="checkbox"/> Resistance to: <i>Fusarium oxysporum</i> f. sp. <i>radicis lycopersici</i> (Forl)	present	
<input type="checkbox"/> Resistance to: <i>Fulvia fulva</i> (Ff) (ex <i>Cladosporium fulvum</i>) - Race 0	present	
<input type="checkbox"/> Resistance to: <i>Fulvia fulva</i> (Ff) (ex <i>Cladosporium fulvum</i>) - Group A	present	
<input type="checkbox"/> Resistance to: <i>Fulvia fulva</i> (Ff) (ex <i>Cladosporium fulvum</i>) - Group B	present	
<input type="checkbox"/> Resistance to: <i>Fulvia fulva</i> (Ff) (ex <i>Cladosporium fulvum</i>) - Group C	present	
<input type="checkbox"/> Resistance to: <i>Fulvia fulva</i> (Ff) (ex <i>Cladosporium fulvum</i>) - Group D	present	
<input type="checkbox"/> Resistance to: <i>Fulvia fulva</i> (Ff) (ex <i>Cladosporium fulvum</i>) - Group E	present	
<input type="checkbox"/> Resistance to: <i>Tomato Mosaic Virus</i> (ToMV) - Strain 0	present	
<input type="checkbox"/> Resistance to: <i>Tomato Mosaic Virus</i> (ToMV) - Strain 1	present	
<input type="checkbox"/> Resistance to: <i>Tomato Mosaic Virus</i> (ToMV) - Strain 2	present	
<input type="checkbox"/> Resistance to: <i>Phytophthora infestans</i> (Pi)	absent	
<input type="checkbox"/> Resistance to: <i>Tomato Yellow Leaf Curl Virus</i> (TYLCV)	absent	
<input type="checkbox"/> Resistance to: <i>Tomato Spotted Wilt Virus</i> (TSWV) - Race 0	absent	
<input type="checkbox"/> Resistance to: <i>Oidium neolycopersici</i> (On) (ex <i>Oidium lycopersicum</i> (Ol))	present	

Prior Applications and Sales:

Country	Year	Status	Name Applied
EU	2017	Granted	'SOLABOLL'
Russia	2019	Applied	'SOLABOLL'
The Netherland	2017	Granted	'SOLABOLL'

First sold in Belgium in July 2018.

Description: **Ean Blackwell**, ShelstonIP, Sydney, NSW.

Details of Application	
Application Number	2019/106
Variety Name	'Catapult'
Genus Species	<i>Triticum aestivum</i>
Common Name	Wheat
Synonym	Nil
Accepted Date	18 Jul 2019
Applicant	Australian Grain Technologies Pty Ltd, Roseworthy, SA
Agent	N/A
Qualified Person	Andrew Cecil
Details of Comparative Trial	
Location	Roseworthy, South Australia
Descriptor	UPOV TG/3/12
Period	2019
Conditions	A comparative trial was sown on the Roseworthy Campus of the University of Adelaide. In the previous year the trial area carried a Lentil crop which was harvested for grain. Pre-seeding herbicides Sakura (118g/ha), Roundup Ultra (1.5 l/ha), Sharpen (20 g/ha), Avadex (2.0 l/ha) and Hasten (1l/100l) together with an insecticide Lemat (120 ml/ha) were applied prior to seeding. The trial was sown on 14th May 2019 and 90kg MAP + 2.5% zinc fertiliser was applied with the seed. The season was generally favourable for growth of the crop and of weeds and disease. The trial was sprayed post emergence on 2nd July with Velocity (670mls), Axial (200mls), Lontrel (40mls) and Adigor (500mls/100L) to control weeds. On the 11 th of July and the 16 th of August 20 units of liquid N fertiliser was applied. The trial was sprayed to control fungal pathogens on 21 st July using Aviator Xtra @ 500mls. The season finished early with limited spring rainfall. The trial was harvested on 12 th November 2019.
Trial Design	Randomised block design of 3 blocks and 24 entries consisting of comparators and potential candidates. Sown in 24 ranges of 3 plots wide, block 1 being in ranges 1 to 8 and so on. Plots were 1.25m wide (5 rows) and 3.2m long. There were approximately 1000 plants per plot. Qualitative characters were recorded for every replicate at the appropriate growth stage.
Measurements	Quantitative characters were measured on 10 randomly sampled plants from each replicate, the samples being taken at the appropriate growth stage or after maturity. Statistical analyses were completed using "R" software.
RHS Chart - edition	N/A

Origin and Breeding
Controlled pollination: A cross was made between the two parents ‘Mace’ and ‘Corack’ in early 2009 resulting in the population coded CO9054 with pedigree (CORACK/MACE). The F ₁ seed was grown during winter 2009 in the field at Roseworthy (SA) and the F ₂ population was grown over summer 2009/2010 at Roseworthy (SA), with limited selection for plant type. In 2010 F ₃ head selections were individually sown as head hill plots at Roseworthy (SA) and 54 individuals were identified (based on plant type, maturity and stripe rust). In 2011 these lines entered AGT's agronomic, disease and quality testing network across; Western Australia, South Australia, Victoria, New South Wales and Queensland. In 2013 a selection was taken from CO9054-B025 and named RAC2484. In 2018 RAC2484 entered the National Variety Trials (NVT) across; South Australia, Victoria and New South Wales. Seed purification began in 2016 and this seed was used for trials in 2018 and as the source for commercial seed multiplication. Breeders: Dr James Edwards, Dr Adam Norman and Dr Haydn Kuchel, Australian Grain Technologies Pty Ltd, 20 Leitch Rd Roseworthy SA 5371.

Choice of Comparators Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge

Organ/Plant Part	Context	State of Expression in Group of Varieties
Plant	growth habit	erect to semi erect
Plant	frequency of recurved leaves	low to medium
Flag Leaf	anthocyanin colouration of auricles	absent to weak
Flag Leaf	glaucosity of sheath	weak to medium
Flag Leaf	glaucosity of blade	weak
Straw	pith in cross section	thin
Ear	awn and scurs	awns present
Seasonal	type	spring

Most Similar Varieties of Common Knowledge identified (VCK)

Name	Comments
‘Mace’	matches all grouping characteristics
‘Cutlass’	matches all grouping characteristics
‘Scepter’	matches all grouping characteristics
‘Longreach Trojan’	matches all grouping characteristics

Varieties of Common Knowledge identified and subsequently excluded

Variety	Distinguishing Characteristics		State of Expression in Candidate Variety	State of Expression in Comparator Variety	Comments
‘Corack’	Plant	maturity	medium to late	early	excluded from side by side comparison
	Plant	boron toxicity	tolerant	intolerant	
‘Wyalkatchem’	Plant	height	medium	short	excluded from side by side comparison
‘Magenta’	Flag leaf	anthocyanin colouration	absent	strong	excluded from side by side comparison

		of auricle			
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Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with X.

Organ/Plant Part: Context	'Catapult'	'Cutlass'	'Longreach Trojan'	'Mace'	'Scepter'
<input type="checkbox"/> Seed: colour	white	white	white	white	white
<input type="checkbox"/> *Plant: growth habit	semi erect	erect to semi erect	erect to semi erect	erect to semi erect	erect to semi erect
<input type="checkbox"/> Plant: frequency of plants with recurved flag leaves	low to medium	low to medium	low to medium	low to medium	low to medium
<input type="checkbox"/> Flag leaf: anthocyanin colouration of auricles	absent or weak	absent or weak	absent or weak	absent or weak	absent or weak
<input type="checkbox"/> *Flag leaf: glaucosity of sheath	weak to medium	medium to strong	weak to medium	weak to medium	weak to medium
<input type="checkbox"/> Flag leaf: glaucosity of blade	weak	weak	weak	weak	weak
<input type="checkbox"/> *Ear: glaucosity	weak to medium	medium to strong	weak to medium	weak	weak
<input type="checkbox"/> Culm: glaucosity of neck	weak to medium	medium to strong	weak to medium	weak to medium	weak to medium
<input type="checkbox"/> *Lower glume: hairiness on external surface	absent	absent	absent	absent	absent
<input type="checkbox"/> *Straw: pith in cross section	thin	thin	thin	thin	thin
<input type="checkbox"/> *Ear: density	lax to medium	lax	lax to medium	lax to medium	lax to medium
<input type="checkbox"/> *Ear: scurs or awns	awns present	awns present	awns present	awns present	awns present
<input type="checkbox"/> *Ear: length of scurs or awns	medium	medium to long	short to medium	short to medium	short to medium
<input type="checkbox"/> *Ear: colour	white	white	white	white	white
<input type="checkbox"/> Ear: shape in profile	tapering	parallel sided	tapering	parallel sided	tapering
<input type="checkbox"/> Lower glume: shoulder width	narrow	narrow	narrow to medium	medium	narrow
<input type="checkbox"/> Lower glume: shoulder shape	horizontal to slightly elevated	slightly elevated	horizontal to slightly elevated	horizontal	slightly elevated
<input checked="" type="checkbox"/> Lower glume: length of beak	medium	long	long	long	long
<input type="checkbox"/> *Lower glume: shape of beak	straight to slightly curved	slightly curved	straight	slightly curved	slightly curved
<input type="checkbox"/> Lower glume: area of hairiness on internal surface	very small	very small	very small	very small	very small
<input type="checkbox"/> *Seasonal: type	spring type	spring type	spring type	spring type	spring type

Characteristics Additional to the Descriptor/TG					
Organ/Plant Part: Context	‘Catapult’	‘Cutlass’	‘Longreach Trojan’	‘Mace’	‘Scepter’
<input checked="" type="checkbox"/> Flag Leaf: Leaf rust (Lr) pathotype 104-1,3,4,6,7,8,9,12 + Lr37	susceptible	resistant	moderately resistant	moderately susceptible to susceptible	moderately susceptible to susceptible
Statistical Table					
Organ/Plant Part: Context					
<input checked="" type="checkbox"/> Ear: length (mm)					
Mean	86.20	94.90	102.50	87.90	87.15
Std. Deviation	2.30	3.40	9.05	1.13	0.49
LSD/sig	12.58	ns	P≤0.01	ns	ns
<input checked="" type="checkbox"/> Plant: days to heading (Julian days)					
Mean	252.50	254.66	250.00	244.00	246.66
Std. Deviation	0.57	1.52	2.00	1.00	1.15
LSD/sig	2.78	ns	ns	P≤0.01	P≤0.01
<input type="checkbox"/> Plant: height (cm)					
Mean	75.40	75.10	74.75	78.10	79.40
Std. Deviation	1.20	0.14 cm	3.32	0.40	1.27
LSD/sig	6.32	ns	ns	ns	ns

Prior Applications and Sale

Nil.

Description: **Andrew Cecil**, Australian Grain Technologies Pty Ltd, Roseworthy, SA.

GRANTS:

Bidens ferulifolia

BIDENS

‘SUNBIDEVB 4’^Φ

Application No: 2017/318

Applicant: **Suntory Flowers Limited**

Certificate No: 6233 Expiry Date: 10/12/2039.

Agent: **Oasis Horticulture Pty Limited**, Yellow Rock, NSW.

Callistemon viminalis

BOTTLEBRUSH

‘Little Caroline’^Φ

Application No: 2009/045

Applicant: **Terence Charles Keogh**

Certificate No: 6217 Expiry Date: 8/11/2039.

Callistemon viminalis

BOTTLEBRUSH

‘Little Silver’^Φ

Application No: 2008/248

Applicant: **Terence Charles Keogh**

Certificate No: 6220 Expiry Date: 19/11/2039.

Cannabis sativa

MEDICINAL CANNABIS

‘CannBio-2’^Φ

Application No: 2017/253

Applicant: **Agriculture Victoria Services Pty Ltd**

Certificate No: 6213 Expiry Date: 22/10/2039.

Cannabis sativa

MEDICINAL CANNABIS

‘CannBio-3’^ϕ

Application No: 2017/254

Applicant: **Agriculture Victoria Services Pty Ltd**

Certificate No: 6214 Expiry Date: 22/10/2039.

Cannabis sativa

MEDICINAL CANNABIS

‘CannBio-4’^ϕ

Application No: 2017/255

Applicant: **Agriculture Victoria Services Pty Ltd**

Certificate No: 6215 Expiry Date: 22/10/2039.

Chamelaucium hybrid

WAXFLOWER

‘Dawn Pearl’^ϕ

Application No: 2017/223

Applicant: **Botanic Gardens and Parks Authority**

Certificate No: 6216 Expiry Date: 5/11/2039.

Agent: **Goldsash Corporation Pty Ltd**, Malvern, VIC.

Erysimum hybrid

WALLFLOWER

‘Inerywipar’^ϕ

Application No: 2015/187

Applicant: **Innovaplant Zierpflanzen GmbH & Co KG**

Certificate No: 6226 Expiry Date: 3/12/2039.

Agent: **Haars Nursery Pty Ltd**, Somerville, VIC.

Euphorbia pulcherrima

POINSETTIA

‘Bonpoiakani’^ϕ

Application No: 2017/132

Applicant: **Bonza Botanicals Pty Limited**

Certificate No: 6234 Expiry Date: 10/12/2039.

Agent: **Oasis Horticulture Pty Limited**, Yellow Rock, NSW.

Lomandra hystrix

SPINY HEADED MAT RUSH

‘WN002’^ϕ

Application No: 2006/277

Applicant: **Deborah Roberts**

Certificate No: 6218 Expiry Date: 14/11/2039.

Malus domestica

APPLE

‘Lady In Red’^ϕ

Application No: 2008/108

Applicant: **Sunglo Varieties Limited**

Certificate No: 6227 Expiry Date: 3/12/2044.

Agent: **Australian Nurserymans Fruit Improvement Company (ANFIC)**, Kallangur, QLD.

Malus domestica

APPLE

‘WA 2’^ϕ

Application No: 2014/126

Applicant: **Washington State University Office of Commercialization**

Certificate No: 6219 Expiry Date: 14/11/2039.

Agent: **Grahams Factree**, Hoddles Creek, VIC.

Oryza sativa

RICE

‘Shinnosuke’^ϕ

Application No: 2018/085

Applicant: **Niigata Prefecture**

Certificate No: 6207 Expiry Date: 17/10/2039.

Agent: **IP Solved (ANZ) Pty. Ltd.**, Royal Exchange, NSW.

Prunus persica

PEACH

‘Plantnet-Sunset1’^ϕ

Application No: 2009/065

Applicant: **Florida Foundation Seed Producers, Inc.**

Certificate No: 6229 Expiry Date: 9/12/2044.

Agent: **Australian Nurserymen's Fruit Improvement Company Limited**, Kallangur, QLD.

Prunus persica

PEACH

‘Plantnet-Sunset2’^ϕ

Application No: 2009/066

Applicant: **Florida Foundation Seed Producers, Inc.**

Certificate No: 6230 Expiry Date: 9/12/2044.

Agent: **Australian Nurserymen's Fruit Improvement Company Limited**, Kallangur, QLD.

Prunus persica

PEACH

‘Supechseventeen’^ϕ syn Supech17^ϕ

Application No: 2012/060

Applicant: **Sun World International LLC**

Certificate No: 6235 Expiry Date: 13/12/2044.

Agent: **Corrs Chambers Westgarth Lawyers**, Melbourne, VIC.

Prunus persica

PEACH

‘Supechsixteen’^ϕ syn Supech16^ϕ

Application No: 2012/059

Applicant: **Sun World International LLC**

Certificate No: 6236 Expiry Date: 16/12/2044.

Agent: **Corrs Chambers Westgarth Lawyers**, Melbourne, VIC.

Rosa hybrid

ROSE

‘GRAflr’^Φ

Application No: 2018/056

Applicant: **John C. Gray, Sylvia E. Gray**

Certificate No: 6232 Expiry Date: 9/12/2039.

Rosa hybrid

ROSE

‘GRAosr’^Φ

Application No: 2018/055

Applicant: **John C. Gray, Sylvia E. Gray**

Certificate No: 6231 Expiry Date: 9/12/2039.

Saccharum hybrid

SUGARCANE

‘SRA12’^Φ

Application No: 2018/251

Applicant: **Sugar Research Australia**

Certificate No: 6212 Expiry Date: 21/10/2039.

Saccharum hybrid

SUGARCANE

‘SRA13’^Φ

Application No: 2018/250

Applicant: **Sugar Research Australia**

Certificate No: 6211 Expiry Date: 21/10/2039.

Saccharum hybrid

SUGARCANE

‘SRA14’^Φ

Application No: 2018/249

Applicant: **Sugar Research Australia**

Certificate No: 6210 Expiry Date: 21/10/2039.

Saccharum hybrid

SUGARCANE

‘SRA15’^ϕ

Application No: 2018/247

Applicant: **Sugar Research Australia**

Certificate No: 6209 Expiry Date: 21/10/2039.

Solanum tuberosum

POTATO

‘Ivory Russet’^ϕ

Application No: 2012/026

Applicant: **IPR B.V.**

Certificate No: 6221 Expiry Date: 19/11/2039.

Agent: **Forth Farm Investments Pty Ltd**, Forth, TAS.

Triticum aestivum

WHEAT

‘EG Jet’^ϕ syn EDGE06-025b-03^ϕ

Application No: 2018/295

Applicant: **Edstar Genetics Pty Ltd**

Certificate No: 6204 Expiry Date: 10/10/2039.

Agent: **Elders Rural Services Australia Ltd**, Melbourne, VIC.

Triticum aestivum

WHEAT

‘LG Cobalt’^ϕ

Application No: 2018/096

Applicant: **Limagrain Europe s.a.**

Certificate No: 6205 Expiry Date: 11/10/2039.

Agent: **Elders Rural Services**, Melbourne, VIC.

Triticum aestivum

WHEAT

'LG-Gold'^ϕ ϕ

Application No: 2018/294

Applicant: **Limagrain Europe s.a.**

Certificate No: 6203 Expiry Date: 10/10/2039.

Agent: **Elders Rural Services**, Melbourne, VIC.

Triticum aestivum

WHEAT

'Murasaki'^ϕ

Application No: 2018/283

Applicant: **The University of Sydney**

Certificate No: 6202 Expiry Date: 9/10/2039.

Triticum aestivum

WHEAT

'Purpura'^ϕ

Application No: 2018/282

Applicant: **The University of Sydney**

Certificate No: 6201 Expiry Date: 9/10/2039.

Triticum aestivum

WHEAT

'Tenfour'^ϕ **syn LG Tenfour**^ϕ

Application No: 2018/094

Applicant: **Limagrain Europe s.a.**

Certificate No: 6208 Expiry Date: 17/10/2039.

Agent: **Elders Rural Services**, Melbourne, VIC.

Triticum aestivum

WHEAT

'Tungsten'^ϕ **syn EDGE06-034-14**^ϕ

Application No: 2017/075

Applicant: **Edstar Genetics Pty Ltd**

Certificate No: 6206 Expiry Date: 17/10/2039.

Agent: **Elders Limited**, Melbourne, VIC.

Vitis vinifera

GRAPE VINE

'IFG Fourteen'^ϕ

Application No: 2014/010

Applicant: **International Fruit Genetics LLC**

Certificate No: 6240 Expiry Date: 23/12/2044.

Agent: **Darron Saltzman**, Brighton North, VIC.

Vitis vinifera

GRAPE VINE

'IFG Nine'^ϕ

Application No: 2013/030

Applicant: **International Fruit Genetics LLC**

Certificate No: 6238 Expiry Date: 23/12/2044.

Agent: **Darron Saltzman**, Brighton North, VIC.

Vitis vinifera

GRAPE VINE

'IFG Six'^ϕ

Application No: 2013/163

Applicant: **International Fruit Genetics LLC**

Certificate No: 6239 Expiry Date: 23/12/2044.

Agent: **Darron Saltzman**, Brighton North, VIC.

Vitis vinifera

GRAPE VINE

'IFG Three'^ϕ

Application No: 2013/029

Applicant: **International Fruit Genetics LLC**

Certificate No: 6237 Expiry Date: 23/12/2044.

Agent: **Darron Saltzman**, Brighton North, VIC.

xTriticosecale .

TRITICALE

‘Kokoda’^Φ

Application No: 2018/329

Applicant: **The University of Sydney, Grains Research and Development Corporation**

Certificate No: 6222 Expiry Date: 20/11/2039.

Agent: **Shelston IP Pty Ltd**, Sydney, NSW.*xTriticosecale* .

TRITICALE

‘Normandy’^Φ

Application No: 2018/330

Applicant: **The University of Sydney, Grains Research and Development Corporation**

Certificate No: 6223 Expiry Date: 21/11/2039.

Agent: **Shelston IP Pty Ltd**, Sydney, NSW.*Zelkova serrata*

JAPANESE ELM

‘Goldenflame’^Φ

Application No: 2011/247

Applicant: **Vic John Ciccolella**

Certificate No: 6228 Expiry Date: 5/12/2044.

Agent: **Fleming's Nurseries**, Monbulk, VIC.*Zoysia matrella*

MANILA GRASS, ZOYSIA GRASS, KOREAN GRASS, SIGLAP GRASS

‘G-10’^Φ

Application No: 2015/158

Applicant: **GeneGro Pty Ltd**

Certificate No: 6225 Expiry Date: 2/12/2039.

Zoysia matrella

MANILA GRASS, ZOYSIA GRASS, KOREAN GRASS, SIGLAP GRASS

‘G-4’^Φ

Application No: 2014/073

Applicant: **GeneGro Pty Ltd**

Certificate No: 6224 Expiry Date: 2/12/2039.

Assignment of Rights

App. No.	Genus	Species	Variety	Common Name	Changed From	Changed To
2016/081	Malus	domestica	SQ 159	Apple	Stichting Wageningen Research - Wageningen Plant Research	Fresh Forward Holding B.V.
2007/085	Banksia	spinulosa	Bush candles	Hairpin banksia	Bushland Flora	Ian Shimmen
2014/162	Agonis	flexuosa	AG001	Willow Myrtle	Bushland Flora	Ian Shimmen
2013/235	Acacia	fimbriata	AF001	Fringed Wattle	Bushland Flora Vic. Pty Ltd	Ian Shimmen
2018/368	Acacia	floribunda	ACF008		Bushland Flora Pty Ltd	Ian Shimmen
2016/324	Grevillea	hybrid	GR12001	Grevillea	Bushland Flora Pty Ltd	Ian Shimmen
2011/092	Westringia	glabra	WG001	Violet Westringia	Bushland Flora	Ian Shimmen
2011/265	Lomandra	confertifolia ssp pallida	LCP001	Matt Rush	Bushland Flora	Ian Shimmen
2013/238	Callistemon	viminalis	CS003	Bottlebrush	Bushland Flora Vic. Pty Ltd	Ian Shimmen
2014/163	Callistemon	saligrus	CS004	White Bottlebrush	Bushland Flora	Ian Shimmen
2015/100	Lomandra	confertifolia ssp pallida	LLP002	Matt Rush	Bushland Flora	Ian Shimmen
2011/093	Lomandra	confertifolia ssp rubignosa	Mist	Matt Rush	Bushland Flora	Ian Shimmen
2013/236	Correa	alba	CR001	Correa	Bushland Flora Vic.	Ian Shimmen
2013/237	Callistemon	viminalis	CS002	Bottlebrush	Bushland Flora Vic.	Ian Shimmen
2016/293	Grevillea	hybrid	GR13019	Grevillea	Bushland Flora Pty Ltd	Ian Shimmen

2017/051	Lomandra	confertifolia ssp rubignosa	LCP1020	Matt Rush	Bushland Flora Pty Ltd	Ian Shimmen
2014/054	Grevillea	rhyolitica x victoriae	GR001	Grevillea	Bushland Flora Vic. Pty Ltd	Ian Shimmen

Change of Applicant's Name

App. No.	<i>Genus</i>	<i>Species</i>	Variety	Common Name	Changed From	Changed To
2017/094	Rubus	idaeus	Versai	Raspberry	SCEA Marionnet	Marionnet SAS
2019/193	Saccharum	hybrid	SRA24	Sugarcane	Sugar Research Australia	Sugar Research Australia; Wilmar Sugar Pty Ltd

Change/Nomination of Agent

App. No.	Genus	Species	Variety	Changed From	Changed To
2011/013	Phaseolus	vulgaris	Cabot	Clause Pacific (Henderson Seeds Group Pty Ltd Trading as Clause Pacific)	HM.Clause Pacific
2012/188	Phaseolus	vulgaris	Bowie	Clause Pacific (Henderson Seeds Group Pty Ltd Trading as Clause Pacific)	HM.Clause Pacific
2012/189	Phaseolus	vulgaris	Barron	Clause Pacific (Henderson Seeds Group Pty Ltd Trading as Clause Pacific)	HM.Clause Pacific
2012/190	Phaseolus	vulgaris	Wyatt	Clause Pacific (Henderson Seeds Group Pty Ltd Trading as Clause Pacific)	HM.Clause Pacific
2012/174	Lactuca	sativa	Vintage- Crop	Clause Pacific (Henderson Seeds Group Pty Ltd Trading as Clause Pacific)	HM.Clause Pacific
2012/176	Lactuca	sativa	Carabine	Clause Pacific (Henderson Seeds Group Pty Ltd Trading as Clause Pacific)	HM.Clause Pacific
2013/029	Vitis	vinifera	IFG Three	Alison MacGregor	Darron Saltzman
2013/030	Vitis	vinifera	IFG Nine	Alison MacGregor	Darron Saltzman
2013/163	Vitis	vinifera	IFG Six	Alison MacGregor	Darron Saltzman
2014/010	Vitis	vinifera	IFG Fourteen	Alison MacGregor	Darron Saltzman
2013/158	Vitis	vinifera	IFG 31-077	Alison MacGregor	Darron Saltzman
2013/159	Vitis	vinifera	IFG 104-253	Alison MacGregor	Darron Saltzman
2013/161	Vitis	vinifera	IFG Four	Alison MacGregor	Darron Saltzman
2013/162	Vitis	vinifera	IFG Five	Alison MacGregor	Darron Saltzman
2013/165	Vitis	vinifera	IFG Eight	Alison MacGregor	Darron Saltzman
2014/008	Vitis	vinifera	IFG-Ten	Alison MacGregor	Darron Saltzman
2014/009	Vitis	interspecific hybrid	IFG Twelve	Alison MacGregor	Darron Saltzman
2014/011	Vitis	vinifera	IFG Eleven	Alison MacGregor	Darron Saltzman
2014/013	Vitis	vinifera	IFG Thirteen	Alison MacGregor	Darron Saltzman

Denomination Changed

Application No.	<i>Genus</i>	<i>Species</i>	Common Name	Changed From	Changed To
2014/319	Festuca	arundinacea	Tall Fescue	Barnaby	Fortune
2019/195	Saccharum	hybrid	Sugarcane	WSRA18	SRAW18
2019/020	Solanum	lycopersicum	Tomato	SMARTKISHY	PULSION
2019/213	Hordeum	vulgare	Barley	IGB1705T	Maximus
2019/193	Saccharum	hybrid	Sugarcane	SRA24	WSRA24

Synonym Changed/Added

App. No.	<i>Genus</i>	<i>Species</i>	Variety	Common Name	Synonym Changed From	Synonym Changed To
2019/213	Hordeum	vulgare	Maximus	Barley		IGB1705T

Application Withdrawn

The following varieties are no longer under PBR provisional protection:

App. No.	Genus	Species	Common Name	Variety
2015/235	Mussaenda	erythrophylla	Flag Bush	Capricorn Georgia
2017/220	Westringia	hybrid	Coastal Rosemary	Smokescreen Purple
2018/286	Westringia	hybrid	Coastal Rosemary	Smokescreen Mauve
2015/259	Fragaria	xananassa	Strawberry	SSL93
2017/013	Spathiphyllum	hybrid	Peace Lily	S-48
2018/083	Cucumis	sativus	Cucumber	SQUDO
2009/080	Cordyline	australis	Cordyline	LND05
2018/355	Rosa	hybrid	Rose	GRA151213
2014/264	Templetonia	retusa	Cockies Tongue	FlatGL
2014/265	Westringia	dampieri	Stiff Westringia	FlatdampGL
2016/187	Westringia	dampieri	Stiff Westringia	DamprostGL
2015/086	Fragaria	x ananassa	Strawberry	DrisStrawFortyTwo
2017/058	Rubus	allegheniensis	Allegheny blackberry	DrisBlackSixteen
2018/233	Rubus		Blackberry	DrisBlackSeventeen
2017/086	Rubus	idaeus	Raspberry	DrisRaspNine
2018/298	Fragaria	x ananassa	Strawberry	DRISSTRAWSIXTYONE
2018/326	Fragaria	x ananassa	Strawberry	DrisStrawSixtyThree

REJECTED:

The following application is rejected under section 30(3) of the *Plant Breeder's Rights Act, 1994* and is not protected by PBR:

Senecio articulatus x rowleyanus

SENECIO

'SEO10'

Application No: 2019/076 Rejected: 22/11/2019

Applicant: **James Lucas.**

Grants Surrendered

App. No.	Genus	Species	Variety	Synonym	Common Name
2011/140	Hordeum	vulgare	Navigator		Barley
2006/092	Hordeum	vulgare	Flagship		Barley
2000/151	Triticum	aestivum	Kukri		Wheat
2002/067	Hordeum	vulgare	SLOOP SA		Barley
2002/024	Triticum	aestivum	Pugsley		Wheat
2007/231	Imperata	cylindrica	ICL200		Blady Grass
2015/232	Rosa	hybrid	IntTess04		Rose
2015/233	Rosa	hybrid	IntTess01		Rose
2008/033	Alstroemeria	hybrid	Konratus		Peruvian Lily
2000/174	Fragaria	xananassa	QHI Earliblush		Strawberry
2000/178	Leptospermum	hybrid	Martin		Tea Tree
2014/019	Schlumbergera	truncata	Fireball		Christmas Cactus
2013/156	Hordeum	vulgare	Charger		Barley
2007/303	Triticum	aestivum	EGA Bounty		Wheat
2007/101	Actinidia	chinensis	Y368		Kiwifruit
2008/151	Actinidia	chinensis	Z487		Kiwifruit
2013/203	Corymbia	citriodora	COR81		Lemon Scented Gum
2018/326	Fragaria	x ananassa	DrisStrawSixtyThree		Strawberry
2006/257	Triticum	aestivum	Binnu		Wheat
2008/180	Dianella	prunina	DPV308		Flax Lily
2004/276	Erysimum	asperum	Walfrasun		Perennial Wallflower
2011/079	Alstroemeria	hybrid	Konglacier		Peruvian Lily

Grants Expired

The following varieties are no longer under PBR protection:

App. No.	Genus	Species	Common Name	Variety
1998/041	Avena	sativa	Oats	BASS
1997/071	Fragaria	xananassa	Strawberry	ALINTA
1997/069	Fragaria	xananassa	Strawberry	LOWANNA
1998/187	Solanum	tuberosum	Potato	SMITH'S COMET
1998/127	Agapanthus	orientalis	Agapanthus	BLACK PANTHA
1998/177	Triticum	aestivum	Wheat	Brennan
1997/320	Lolium	perenne	Perennial Ryegrass	AVALON
1994/230	Lilium	hybrid	Lily	Siberia
1998/140	Lupinus	angustifolius	Narrow-Leafed Lupin	Tanjil
1996/037	<i>Medicago</i>	<i>sativa</i>	Lucerne	GRASSLANDS KAITUNA
1996/148	Alstroemeria	hybrid	Peruvian Lily	VIRGINIA
1995/304	Trifolium	alexandrinum	Berseem Clover	Elite II

Grants Revoked

The following varieties are no longer under PBR protection

App No.	Genus	Species	Variety	Synonym	Common Name
2005/003	Lactuca	sativa	Veredes		Lettuce
2014/310	Solanum	tuberosum	Intercept		Tomato
2014/031	Solanum	tuberosum	Top Cat		Potato
2008/038	Solanum	tuberosum	SASSY		Potato
2008/039	Solanum	tuberosum	APOLLINE		Potato
2008/150	Solanum	tuberosum	Dinky		Potato
2007/292	Solanum	tuberosum	Horizon		Potato
2000/175	Leptospermum	hybrid	Emily NAO		Tea tree
2000/176	Leptospermum	hybrid	FlatwaxDarkGL		Tea tree
2000/177	Leptospermum	hybrid	Joy		Tea tree
2010/175	Pisum	sativum	CRC-Walana		Field Pea
2005/213	Solanum	tuberosum	Mayan		Potato
1998/088	Schlumbergera	truncata	White Fantasy		Christmas Cactus
2008/005	Anthurium	andraeanum	ANTHEFAQYR	White Champion	Flamingo Flower
2008/007	Anthurium	andraeanum	ANTHURWAP	Sumi	Flamingo Flower
2008/009	Anthurium	andraeanum	ANTHOLYL	Turenza	Flamingo Flower
2008/012	Anthurium	andraeanum	ANTHOLODOJ	Royal Champion	Flamingo Flower
2013/069	Delosperma	cooperi	Jewel of Desert Topaz		Cooper's Ice Plant
2012/083	Kalanchoe	thrysiflora	Fantastic		Kalanchoe
2003/088	Vitis	vinifera	Regal Seedless		Grape Vine
1992/136	Buchloe	dactyloides	Oasis		Buffalo Grass



Australian Government
IP Australia

Appendices

The appendices to *Plant Varieties Journal* (**Vol. 32 Issue 4**) are listed below:

- [Home](#)
- [Appendix 1 - Index of Accredited Consultant 'Qualified Persons'](#)
- [Appendix 2 - Index of Accredited Non-Consultant 'Qualified Persons'](#)
- [Appendix 3 - Centralised Testing Centres](#)
- [Appendix 4 - Register of Plant Varieties](#)

APPENDIX 1 - INDEX OF ACCREDITED CONSULTANT 'QUALIFIED PERSONS'

The following link <https://www.ipaustralia.gov.au/tools-resources/qualified-persons-directory> is the directory of consultant QPs

Appendix 2 - Index of Accredited Non-Consultant Qualified Persons

LAST NAME	CONTACT NAME
Ahmad	Maqbool
Andrews	Samantha
Ansari	Omid
Bartley	Megan
Berryman	Pamela
Box	Amanda
Brown	Emma
Brunt	Charlotte
Buchanan	Peter
Bunker	John
Cameron	Nick
Campbell	David
Cecil	Andrew
Chesher	Wayne
Clayton-Greene	Kevin
Clingeffer	Peter
Cogan	Noel
Collins	David
Connolly	Karen
Costin	Russell
Coventry	Stewart
Cowling	Wallace
Culvenor	Richard
Davey	Timothy
De Barro	James
Dewar	Matthew
Dilag	Calixto
Downe	Graeme
Eyles	Gary
Fitzgibbon	John
Flattery-O'Brien	Jacinta
Fleming	Rebecca
Gaudion	Jenny
Gillies	Leanne
Gonzalez	Moises
Graetz	Darren
Gray	John
Gunther	Tom
Harmer	Martin
Hobson	Kristy
Hoppo	Suzanne
Howie	Jake
Hussein	Shafiya
Jewell	Larry
Jobling	Philip Norman
Jupp	Noel
Kaehne	Ian
Katz	Mark
Kebblewhite	Tony

Kemp	Stuart
Kretschmar	Tobias
Lacey	Kevin
Laker	Richard
Leddin	Anthony
Lee	Jodie
Lee Chang	Kim
Lewis	Hartley
Lewthwaite	Stephen
Lowe	Russell
March	Timothy
Materne	Michael
Matic	Rade
Matthews	Michael
Moisander	Jennifer
Moody	David
Myors	Philip
Neal	Jodi
Newman	Allen
O'Leary	Finbarr
Pandey	Babu
Paul	Jeff
Peck	David
Pegg	Amelia
Pidgeon	Mark
Pike	Elise
Pike	David
Porter	Gavin
Pressler	Craig
Rankin	Grant
Rayner	Kenneth
Real	Daniel
Roake	Jeremy
Russell	Dougal
Sanewski	Garth
Schreuders	Harry
Senior	Michael
Shoaib	Mirza
Shunmugam	Arun
Smith	Chris
Smith	Leigh
Smith	Malcolm
Snell	Peter
Snelling	Cath
Song	Leonard
Sounness	Janine
Stewart	Anthony
Stiller	Warwick
Tabah	David
Todd	Peter
Turner	Janice

Turpin	Susanna
Walker	Carol
Watson	David
Wei	Xianming
Williams	Michelle
Wilson	Stephen
Winter	Bruce
Wirthensohn	Michelle
Wright	Graeme

APPENDIX 3

CENTRALISED TESTING CENTRES

Under Plant Breeder's Rights Regulations introduced in 1996, establishments may be officially authorised by the PBR office to conduct test growings. An authorised establishment will be known as Centralised Test Centre (CTC).

Usually, the implementation of PBR in Australia relies on a 'breeder testing' system in which the applicant, in conjunction with a nominated Qualified Person (QP), establishes, conducts and reports a comparative trial. More often than not, trials by several breeders are being conducted concurrently at different sites. This makes valid comparisons difficult and often results in costly duplication.

While the current system is and will remain satisfactory, other optional testing methods are available which adds flexibility to the PBR process.

Centralised Testing is one such optional system. It is based upon the authorisation of private or public establishments to test one or more genera of plants. Applicants can choose to submit their varieties for testing by a CTC or continue to do the test themselves. Remember, using a CTC to test your variety is voluntary.

The use of CTCs recognises the advantages of testing a larger number of candidate varieties (with a larger number of comparators) in a single comprehensive trial. Not only is there an increase in scientific rigour but also there are substantial economies of scale and commensurate cost savings. A CTC will establish, conduct and report each trial on behalf of the applicant.

The PBR office has amended its fees so that cost savings can be passed to applicants who choose to test their varieties in a CTC. Accordingly, when 5 or more candidate varieties of the same genus are tested simultaneously, each will qualify for the CTC examination fee of \$920. This is a saving of more than 40% over the normal fee of \$1610.

Trials containing less than 5 candidate varieties capable of being examined simultaneously will not be considered as Centralised test trials regardless of the authorisation of the facility. Candidate varieties in non-qualifying small trials will not qualify for CTC reduction of examination fees.

Establishments wishing to be authorised as a CTC may apply in writing to the PBR office outlining their claims against the selection criteria. Initially, only one CTC will be authorised for each genus. Exemptions to this rule can be claimed due to special circumstances, industry needs and quarantine regulations. Authorisations will be reviewed periodically and may be withdrawn at any time if considered no longer suitable, inactive or the listed Qualified Person(s) are no longer accredited. The onus is on the CTC establishment to contact the PBR Office if their authorisation details change. If authorisation is withdrawn then a new application will be necessary if re-authorisation is required.

Authorisation of CTCs is not aimed solely at large research institutions. Smaller establishments with appropriate facilities and experience can also apply for CTC status. There is no cost for authorisation as a CTC.

REQUESTS FOR AUTHORISATION ASA 'CENTRALISED TESTING CENTRE'

Establishments interested in gaining authorisation as a Centralised Testing Centre should apply in writing addressing each of the Conditions and Selection Criteria outlined below.

Conditions and Selection Criteria

To be authorised as a CTC, the following conditions and criteria will need to be met:

Appropriate facilities

While in part determined by the genera being tested, all establishments must have facilities that allow the conduct and completion of moderate to large-scale scientific experiments without undue environmental influences. Again dependent on genera, a range of complementary testing and propagation facilities (e.g. outdoor, glasshouse, shadehouse, tissue culture stations) is desirable.

Experienced staff

Adequately trained staff, and access to appropriately accredited Qualified Persons, with a history of successful PVR/PBR applications will need to be available for all stages of the trial from planting to the presentation of the

trial the relevant UPOV protocols, technical guideline or national descriptor for the genus should be followed. Where necessary the establishment and conduct of the trial can be discussed with the PBR office.

Industry support

Details of requests for authorisation as a CTC will be published as pending in the Plant Varieties Journal for a period of 3 months. If no adverse comments are received after this period it will be assumed that there are no particular concerns in the industry regarding the authorisation. Evidence of industry support can be supplied in support and may be required if any adverse comments are received.

Long-term storage of genetic material

Applicants nominate where their material is to be maintained prior to grant. However, depending upon the genus, a CTC may be in a position to collect and maintain, at minimal cost, genetic resources of vegetatively propagated species as a source of comparative varieties. Applicants indicating a willingness to act as a national genetic resource centre in perpetuity will be favoured.

Contract testing for 3rd Parties

Unless exempted in writing by the PBR office operators of a CTC must be prepared to test varieties submitted by a third party.

Relationship between CTC and 3rd Parties

A formal arrangement between the CTC and any third party including fees for service will need to be prepared and signed before the commencement of the trial. It will include among other things: how the plant material will be delivered (e.g. date, stage of development plant, condition etc); allow the applicant and/or their agent and QP access to the site during normal working hours; and release the use of all trial data to the owners of the varieties included in the trial.

One trial at a time

Unless exempted in writing by the PBR office, all candidates and comparators should be tested in a single trial.

One CTC per genus

Normally only one CTC per state will be authorised to test a genus. Special circumstances may exist (such as environmental factors or quarantine) to allow more than one CTC per genus, though a special case will need to be made to the PBR office.

Authorised Centralised Test Centres (CTCs)

Following publication of requests for accreditation and ensuing public comment, the following organisations/individuals are authorised to act as CTCs. Any special conditions are also listed.

Name	Location	Approved Genera	Facilities	Name of QP	Date of accreditation	Next review date
Bureau of Sugar Experiment Stations	Cairns, Tully, Ingham, Ayr, Mackay, Bundaberg, Brisbane, QLD	<i>Saccharum</i>	Field, glasshouse, tissue culture, pathology	G Piperidis	30/06/1997	1/08/2019
Protected Plant Promotions	Macquarie Fields, NSW	New Guinea Impatiens including <i>Impatiens hawkeri</i> and its hybrids	Glasshouse	I. Paananen	30/09/1998	1/08/2019
Protected Plant Promotions	Macquarie Fields, NSW	Verbena	Glasshouse	I. Paananen	31/12/1998	1/08/2019
Paradise Plants	Kulnura, NSW	<i>Camellia</i> , <i>Lavandula</i> , <i>Osmanthus</i> , <i>Ceratopetalum</i>	Field, glasshouse, shadehouse, irrigation, tissue culture lab	J Robb	31/12/1998	1/08/2019
Prescott Roses	Berwick, VIC	<i>Rosa</i>	Field, controlled environment greenhouses	C Prescott	31/12/1998	1/08/2019
Paradise Plants	Kulnura, NSW	<i>Limonium</i> ,	Field, glasshouse,	J. Robb	30/06/2000	1/08/2019

		<i>Raphiolepis</i> <i>Eriostemon</i> <i>Lonicera</i> , <i>Jasminum</i>	shadehouse, irrigation, tissue culture lab			
Turf Australiat	Cleveland,QLD	<i>Cynodon</i> , <i>Zoysia</i> and other selected warm season- season turf and amenity species	Field,glasshouse, irrigation, tissue culture lab	M. Roche	30/09/2000	1/08/2019
Buchanan's Nursery	Hodgsonvale, QLD	<i>Prunus</i>	Outdoorfacilities including a collection of 90 varieties of common knowledge.	P. Buchanan	31/12/2004	1/08/2019
Ramm Botanicals	Kangy Angy, NSW	<i>Anigozanthos</i>	Tissueculture, environment controlled greenhouse; extensiveoutdoor andshadehouse areas.	Megan Bartley	10/02/2012	1/08/2019
Solan Pty Ltd	WaikerieSA	<i>Solanum</i> <i>tuberosum</i>	Tissueculture, plasticcovered nursery, refrigerated storage;experience withcomparator growingtrials	J. Fennell	10/01/2013	1/08/2019
GeneGro Pty and V & CM Zorin	Birkdale, QLD	<i>Desmanthus</i>	Irrigated field trial areas; laboratory and related equipment; access to dryers and heated glasshouse.	D. Loch, M. Zorin	22/07/2014	1/08/2019
TahuneFields Nursery	Huon Valley Southern Tasmania	PomeFruit	Comprehensive equipmentand facilities for large scalepropagation, growing, conditioning, storage,marketing andtransport	G. Brown	12/03/2015	1/08/2019
Agronico TechnologyPty Ltd	Leith, TAS	<i>Solanum</i> <i>tuberosum</i>	Access to tissue culture storage and minituber production facilities (VICSPA accredited),for storing and multiplying varieties in preparationfor testing.	Stewart McKay, James Hills	7/4/2016	1/08/2019
G Crumpton & Sons & Co Pty Ltd	Crawford, QLD	<i>Duboisia</i>	Comprehensive growing facilities	D. Loch	13/12/2016	13/12/2019

GeneGro Pty Ltd	Birkdale, QLD	<i>Lablab purpureus</i> <i>Zoysia</i> spp.	Irrigated field trial areas; laboratory and related equipment; access to dryers and heated glasshouse.	D. Loch, M. Zorin	13/12/2016	13/12/2019
Driscolls Australia Pty Ltd	Palmwoods, QLD	<i>Fragaria</i> spp., <i>Vaccinium</i> spp., <i>Rubus</i> spp.	Irrigated field trial areas, laboratory facilities, glasshouse	M. Zorin	13/12/2016	13/12/2019
Aussie Winners Pty Ltd	Redland Bay, QLD	<i>Fuchsia</i>	Comprehensive growing facilities	I. Paananen	28/02/2017	28/02/2020
GrapeCo Pty Ltd	South Merbein, VIC	<i>Vitis vinifera</i> (Table Grape only)	Drip irrigation. Cool rooms are being installed.	A. MacGregor	28/02/2017	28/02/2020
Schreurs Australia Pty Ltd	Leppington, NSW	<i>Rosa</i>	Comprehensive growing facilities	I. Paananen	26/4/2017	26/4/2020
Australian Horticultural Services	Wonga Park, VIC	<i>Lavandula</i>	Indoor growing areas, Outdoor growing areas	M. Lunghusen	19/12/2018	19/12/2020
ChrysoFlowers	Skye, VIC	<i>Chrysanthemum</i>	Controlled environment glasshouse	C. Prescott	12/6/2019	12/6/2021

The following application(s) are pending:

Name	Location	Genera applied for	Facilities	Name of QP
Haar's Nursery	Somerville, VIC	<i>Erysimum</i> , <i>Impatiens</i> ** <i>Nemesia</i>	Propagation greenhouses; indoor and outdoor growing areas	M. Lunghusen

** = Please note that these organisations have been requested to submit a special case based on technical reasons and other grounds to allow an additional CTCs to be accredited for the genera in question. Accordingly, publication of their pending application does not infer that any decision regarding accreditation has been made at this time.

Comments (for or against) either the continued accreditation of a CTC or applications to become a CTC are invited. Written comments are confidential and should be addressed to:

Chief of PBR
Plant Breeder's Rights Office
IP Australia
PO Box 200
Woden, ACT 2606

Closing date for comment: 3 months from the date of this publication

APPENDIX 4

REGISTER OF PLANT VARIETIES

The Register of Plant Varieties contains the legal description of varieties granted Plant Breeder's Rights. These details are freely accessible from the [PBR search website](#). A copy of an entry in the Register may be purchased by contacting pbr@ipaustralia.gov.au.



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