



Newsletter

The Source for Information on Plant Royalties

Volume 16, #4 - January 2005

Illegitimate Seed Sales Stopped

November 24, 2004. The Canadian Plant Technology Agency (CPTA) announces that Parkland Agri Services of Didsbury Alta has agreed to pay two breeding companies for Parkland's sale of common seed grown from varieties protected by Plant Breeders Rights. The owners of those rights, SeCan Association and Proven Seed, share in damage awards approaching \$200,000 and have obtained Parkland's agreement not to repeat the illicit sales practices.

The settlement is a result of negotiations to resolve civil lawsuits filed by Proven and SeCan upon CPTA's discovery of Parkland's practice of selling common seed grown from protected varieties without authorization.

SeCan General Manager Larry White is pleased with the result. "SeCan members support the need to generate income from seed sales in order to effectively fund the plant breeding organizations we represent. Cases like this demonstrate that we will support our members' legitimate sales efforts by ensuring that all sales of our varieties are made by authorized distributors who

compensate the breeders for these innovative varieties."

"We invest a lot of time and money into the development of new seed varieties, to increase the returns to the western Canadian producer," said Neil Arbuckle, Business Manager of Proven Seed. "We are committed to having our innovative varieties sold legally and in a way that supports the continued investment into the development of new products to meet farmer's ongoing needs."

The CPTA is a non-profit agency working to support innovation in the seed industry. Unfortunately some of this work involves the coordination of activities such as this civil action.

"A small but potentially damaging group of seed sellers continues to think they can have the best of both worlds - new seed technology without paying the plant breeding costs. Their free-ride mentality ends up hurting both producers and seed developers." stated Lorne Hadley Executive Director of the CPTA.



Malus 'LOLLIZAM' Lollipop® from Lake County Nursery inc.

Originated by Yoder Brothers, Inc. and assigned to Royalty Administration International:

'DEEP PRESIDIO' Dark pink, decorative. Eight weeks. CPBRAAF, USPPP.

'GOLDEN GATE' Yellow, incurve decorative. Eight weeks. CPBRAAF, USPPP.

'MISTIQUE' Dark pink, single daisy. Seven weeks. CPBRAAF, USPPP.

'ROCKPORT' Purple/pink, single daisy. Eight weeks. CPBRAAF, USPPP.

'SUNNY OLYMPIA' Yellow, decorative. Eight weeks. CPBRAAF, USPPP.

'VINELAND' Coral pink, decorative, spider spoon, Eight weeks. CPBRAAF, USPPP.

'YELLOW GRACELAND' Yellow, anemone. Eight weeks. CPBRAAF, USPPP.

'YUKON' White, incurve, decorative. Eight weeks. CPBRAAF, USPPP.

Originated by Chrysanthemum Breeders Association N.V.:

Cachi Improved™ 'CACHI DARK' Yellow with greyed red center, anemone. Eight weeks. USPPP# 12,517, EECBPR# 8,814.

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New Plants

Here is the latest crop of new plants registered with COPF. Rights information is coded:

- CPBR = Canadian Plant Breeders' Right
- CPBRAAF = Canadian Plant Breeders' Right Applied For
- USPP = United States Plant Patent
- USPPP = United States Plant Patent Pending
- GBPBRAF = Great Britain Plant Breeders' Right Applied For
- EEC PBR = European Economic Community Plant Breeders' Right
- EEC PBRAF = European Economic Community Plant Breeders' Right Applied For
- SWPBRAF = Swiss Plant Breeders' Right Applied For

FLORAL CROPS

Bracteantha

Originated by Selecta Klemm GmbH & Co. KG:

Mohave™ Basket Yellow 'KLEBA04075' Yellow. EECPBRAF.

Mohave™ Golden Yellow 'KLEBA04076' Golden yellow. EECPBRAF.

Mohave Grande™ Autumn Bronze 'KLEBA04086' Bronze orange. EECPBRAF.

Mohave Grande™ Dark Rose 'KLEBA04077' Dark rose. EECPBRAF.

Mohave™ Lemon 'KLEBA04088' Lemon yellow. EECPBRAF.

Mohave™ Strawberries n' Cream 'KLEBA04350' Creamy yellow red. EECPBRAF.

Calibrachoa

Originated by J. + H. Westhoff and assigned to Deutsche Saatgutgesellschaft mbH Berlin:

Celebration® Apricot 'WESCAAP' Apricot yellow with red veins.

Celebration® Fire 'WESCAFIRE' Yellow with red purple splashes.

Celebration® Magnolia 'WESCAMANGNO' Light pink with purple ring.

Celebration® Malva 'WESCAMALVE' Light pink with violet ring.

Celebration® Purple Veined 'WESCAPURVE' Light purple with dark veins.

Celebration® Raspberry 'WESCARASP' Purple with light veins.

Celebration® Salmon 'WESCASAL' Red purple with dark ring.

Celebration® Sun Variegated 'WESCASUNVAR' Yellow with red spots.

Chrysanthemum -pot mums

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Access to the Gene Pool

Environment Canada recently held a meeting about Access and Benefit Sharing of Genetic Resources. The purpose of the meeting was to start sorting out Canada's position on the subject. An international treaty will be developed, as set out by the United Nations' Convention on Biological Diversity. It aims to work towards "fair and equitable sharing of the benefits arising out of the utilization of genetic resources". The Convention defines genetic resources as "any material - of plant, animal, microbial or other origin containing functional units of heredity - that has actual or potential value".

This process is of tremendous importance to plant breeders for two reasons. This policy will affect access to plants and the circumstances under which breeders share their plants may need to be better defined. It also affects producers whose use of spontaneous sports which occur in their production may be restricted.

As Managing Director of COPF, I attended this workshop on behalf of members. This discussion is very much in the early stages, and is primarily being considered only by researchers, policy analysts and lawyers. It's my recommendation to Environment Canada to include more commercial breeders in all future discussions. COPF members outside of Canada should check with policy setters in their own countries.

Peggy Walsh Craig

Dues Notice

Annual membership dues notices are coming to your mailbox or inbox during the first week of January. The fee is Canadian \$75 and is due February 14. Timely payment will prevent you from receiving a reminder phone call and keep your membership in good standing.

Royalty Rate Changes

David Austin Roses announces the following rate increases effective for rose propagation starting January 1, 2005 (licensees were notified earlier):

Category 1

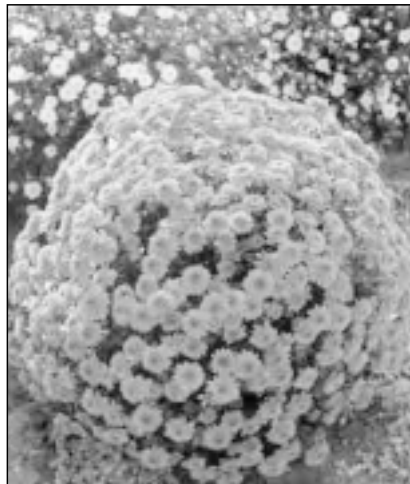
	Tree	Roses
Bushes Sold	1.57	2.10
Viable Bud Count	1.25	1.68
Own Root	0.94	1.26

Category 2

	Tree	Roses
Bushes Sold	1.04	1.38
Viable Bud Count	0.83	1.11
Own Root	0.62	0.83

Category 3

	Tree	Roses
Bushes Sold	0.52	0.70
Viable Bud Count	0.41	0.55
Own Root	0.31	0.42



Chrysanthemum 'DELPHIRES' Delphi™
from Chrysanthemum Breeders
Association N.V.

New Members

Mme. Edith Frigon Grover
La Ferme Grover
Laval, QC

Mr. Bill Lekx
Lekx Greenhouse
Gananoque, ON

Mr. William Blyleven
Maple Greenhouses
Lowbanks, ON

Mme. Lyse Gaudreault Povolo
Les Serres Povolo
St-Marc-des Carrières, QC

Mr. John Hotchkiss
Riverbend Farms (Ontario) Ltd.
Aylmer, ON

COPF NEWS is published quarterly by the
Canadian Ornamental Plant Foundation.
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Isaac VanGeest -----Central Greenhouses
Eric Voogt -----Westcan Greenhouses

VIEWS EXPRESSED HEREIN REPRESENT
THE AUTHOR'S OPINION AND
NOT NECESSARILY THOSE OF COPF.

New Plants continued

Cupido™ 'CUPIDORES' Red, decorative. USPP# 12,901.

Delphi™ 'DELPHIRES' Red purple, decorative. USPP# 12,478.

Helios™ 'ARES' Greyed orange with yellow center, daisy. USPP# 11,850.

'HERMES' Red purple with dark center, decorative. USPP# 11,717.

'ROBSON' Red with grey red center, anemone. Seven weeks. USPP# 12,667.

'TETON' Yellow with a green center, anemone. Seven weeks. USPP# 12,957.

Chrysanthemum -cut mums

Originated by Chrysanthemum Breeders Association N.V.:

'RED REFOCUS' Red with a green center, daisy. Eight weeks. USPP# 11,664.

'REFOCUS' Red purple with green center, daisy. Eight weeks. USPP# 11,621, EECPBRAF.

'RELINDA YELLOW' Yellow with green center, anemone. Eight weeks. USPP# 12,493.

'REMCO' Red purple, anemone, Eight weeks. USPP# 11,642.

'REMCO YELLOW' Yellow orange with greyed red center, anemone. Eight weeks. USPP #11,644, EECBPR# 3,707.

'WHITE REFOCUS' White with a green center, daisy. Eight weeks. USPP# 11,675.

Convolvulus

Originated by Selecta Klemm GmbH & Co. KG.
Upright Blue 'KLECS04208' Lavender blue. EECPBRAF.

Dianthus

Originated by Selecta Klemm GmbH & Co. KG:
Dancing Queen™ Lilac Rose 'KLEN03059' EECPBRAF.

Dancing Queen™ Purple 'KLEN04049' Purple violet. EECPBRAF.

Originated by Flavio Sapia and assigned to Selecta Klemm GmbH & Co. KG:

SuperTrouper™ Light Pink 'PEGGY' EECPBRAF.
SuperTrouper™ Lilac on Purple 'HOBBIT' EECPBRAF.

Originated by Westselect and assigned to Selecta Klemm GmbH & Co. KG:

SuperTrouper™ Purple 'DIMPLE' NLPBR# 18,419, EECPBRAF.

Diascia

Originated by Selecta Klemm GmbH & Co. KG:
Picadilly Appleblossom 'KLEDI04015' White and pink. SWPBRAF, EECPBRAF.

Picadilly Pink 'KLEDI04016' EECPBRAF.

Picadilly Salmon 'KLEDI04017' SWPBRAF, EECPBRAF.

Picadilly Scarlet 'KLEDI04018' EECPBRAF.

Gaura

Originated by Selecta Klemm GmbH & Co. KG:
Fountain™ Compact Pink 'KLEAU04262' Light pink. EECPBRAF.

Fountain™ White 'KLEAU04264' EECPBRAF.

Heliotropium

Originated by Selecta Klemm GmbH & Co. KG:
Compact Marino evol. 'KLEHE04204' Violet blue. EECPBRAF.

Impatiens

Originated by Selecta Klemm GmbH & Co. KG:
ColorPower® Cerise Frost evol. 'KLEI04077' Blue red with light center. EECPBRAF.

ColorPower® Cherry Red 'KLEI04076' Blue red. EECPBRAF.

ColorPower Deep Orange evol. 'KLEI04075' EECPBRAF.

ColorPower® Lilac evol. 'KLEI04078' Purple. EECPBRAF.

ColorPower® Salmon Pink evol. 'KLEI04074' EECPBRAF.

Mandevilla

Originated by Wanda Repp and assigned to Lake Area Nursery, Inc.:

'COTTON CANDY' Light pink, compact growth. USPPP.

Originated by John Gray and assigned to Lake Area Nursery, Inc.:

'PINK VELVET' Pink, compact growth. USPP# 15,064.

Nemesia

Originated by Jimmy Jones and assigned to PlantHaven, Inc.:

'CANDY GIRL' Purple-pink, compact with unusual



Bracteantha 'KLEBA04350' Mohave™
Strawberries n' Cream
from Selecta Klemm GmbH & Co. KG

purple hues. USPP# 14,730.

Originated Selecta Klemm GmbH & Co. KG:

Elph Blue evol. 'KLENE04148' EECPBRAF.

Elph Dark Blue 'KLENE04146' EECPBRAF.

Elph White 'KLENE04077' White with pink flush. EECPBRAF.

Elph White evol. 'KLENE04147' EECPBRAF.

Osteospermum

Originated by Selecta Klemm GmbH & Co. KG:

FlowerPower™ Ivory 'KLEO04107' Light cream. EECPBRAF.

FlowerPower™ Purple Red 'KLEO04113' Purple. EECPBRAF.

Pelargonium

Originated by Penn State Research Foundation and assigned to Oglevee Ltd:

'ELEGANCE SILVER' White with violet eye. CPBRA, USPPP, EECPBRAF.

Originated by Selecta Klemm GmbH & Co. KG:

Hollywood Boulevard 'KLEP04135' Dark pink. EECPBRAF.

Moonlight™ Dark Salmon 'KLEUGUDO' Salmon orange. USPPP, EECPBRAF.

Piccolino™ Red 'KLEORED' EECPBRAF.

Royal Magenta 'KLEP04115' EECPBRAF.

Royal Purple Red 'KLEP04113' EECPBRAF.

Sunrise® Brilliant Cerise 'KLEP02073' Cerise salmon. EECPBRAF, SWPBRAF.

Sunrise® Dark Salmon evol. 'KLEP04134' EECPBRAF, SWPBRAF.

Sunrise® Light Lavender evol. 'KLEP04132' EECPBRAF.

Sunrise® Orange 'KLETARINE' EECPBRAF.

Petunia

Originated by Selecta Klemm GmbH & Co. KG:

Charming® Lavender 'KLECO4104' EECPBRAF.

Charming® Lemon 'KLECO4107' EECPBRAF.

Charming® Lilac Vein 'KELCO4103' EECPBRAF.

Charming® Pink & White 'KLECO4105' EECPBRAF.

Charming® Purple 'KLECO4100' EECPBRAF.

Famous Light Blue 'KLECO2061' EECPBRAF.

Originated by J. + H. Westhoff and assigned to Deutsche Saatgutgesellschaft mbH Berlin:

Sylvana Blue 'WESPEVIO' Violet blue.

Sylvana Calimero Maria 'WESPECAMARIA' Purple with a white margin and dark veins.

Sylvana Calimero Patio Blue 'WESPECAPATIO' Violet blue.

Sylvana Real Red 'WESPEREALRE'.

Sylvana Softrose Variegated 'WESPESOVA' White pink.

Sylvana White 'WESPEWHITE'.

Verbena

Originated by Nuflora and assigned to Selecta Klemm GmbH & Co. KG:

Fuego Pink 'KLEVE04334' SWPBRAF, EECPBRAF.

Fuego Red 'KLEVE04337' SWPBRAF, EECPBRAF.

Lascar Blue 'KLEVE03328' USPPP.

Lascar Dark Blue 'KLEVE04341' SWPBRAF, EECPBRAF.

Lascar Dark Violet+Eye 'KLEVE03342' EECPBRAF.

Lascar Hot Rose 'KLEVE03321' Magenta. USPPP, EECPBRAF.

Lascar Lavender 'KLEVE03329' EECPBRAF.

Lascar Light Pink 'KLEVE04343' EECPBRAF.

Lascar Red 'KLEVE03330' EECPBRAF.

Lascar Violet 'KLEVE03327' USPPP, EECPBRAF.

Lascar White 'KLEVE03340' EECPBRAF.

NURSERY CROPS

PERENNIALS

Agapanthus

Originated by Ron Allensen of Monarch Landing Nursery:

'CANADIAN BLUE DIAMOND' Two toned blue. Medium sized, vigorous. Hardy from zone 5 to 6.

'LUMINOUS LIZ' Soft blue/mauve with darker edge. Repeat bloomer. Hardy from zone 5 to 6.

'Ajuga 'BLACK SCALLOP' Originated by Mike Tristram and assigned to PlantHaven, Inc. Dark violet blue blooms on black leaves. Dense and compact. Resistant to powdery mildew. Hardy to zone 6. USPPP.

'Athyrium 'PEWTER LACE' Originated by Dan Heims of Terra Nova Nurseries, Inc. Characterized by the pewter tone to the leaves. Colouring persists from new growth to maturity. Hardy from zone 5 to 8. USPPP, EECPBRAF.

'Campanula 'ROYAL WAVE' Originated by Harini Kolipara and assigned to Terra Nova Nurseries, Inc. Violet blue blooms. Round mounding habit. Hardy from zone 5 to 9. USPPP, EECPBRAF.

'Delphinium 'DELFT BLUE' Originated by Cornelis

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PBR Granted

GENUS	CULTIVAR	TRADENAME	CERTIFICATE	COMPANY	AGENT
african daisy - see <i>Arctotis</i>					
<i>Ageratum x hybrida</i>	Agetis	Artist Alto Blue	1974	Syngenta Seeds B.V.	BioFlora Inc.
<i>Angelonia hybrida</i>	Anblauzwei	Angelface Blue	1921	Elsner pac Jungpflanzen	BioFlora Inc.
<i>Angelonia hybrida</i>	Anstern	Angelface Blue Bicolor	1923	Elsner pac Jungpflanzen	BioFlora Inc.
<i>Angelonia hybrida</i>	Anwhit	Angelface White	1922	Elsner pac Jungpflanzen	BioFlora Inc.
<i>Antirrhinum majus</i>	Balumrest	Luminaire™ Harvest Red	1899	Ball Horticultural Company	BioFlora Inc.
<i>Antirrhinum majus</i>	Balumred	Luminaire™ Red	1898	Ball Horticultural Company	BioFlora Inc.
<i>Antirrhinum majus</i>	Balumwhitim	Luminare™ White Improved	1900	Ball Horticultural Company	BioFlora Inc.
apple - see <i>Malus</i>					
<i>Arctotis x hybrida</i>	Archnah	Pumpkin Pie	1918	NuFlora International Pty. Ltd.	BioFlora Inc.
<i>Arctotis x hybrida</i>	Archley	Sun Spot	1919	NuFlora International Pty. Ltd.	BioFlora Inc.
<i>Argyranthemum frutescens</i>	Dansun		1997	"Paul Ecke Ranch, Inc."	Variety Rights Management
bacopa - see <i>Sutera</i>					
<i>Begonia elatior hybridae</i>	Beman Rot	Solenia Red	1917	Benary Samenzucht GmbH	Norseco Inc.
<i>Bidens ferulifolia</i>	Bidtis 1	Solaire	1969	Syngenta Seeds B.V.	BioFlora Inc.
<i>Bidens ferulifolia</i>	Bidantis	Solaire Golden	1970	Syngenta Seeds B.V.	BioFlora Inc.
<i>Calibrachoa species</i>	Cal Bule	Callie Blue	1962	Goldsmith Seeds, Inc.	BioFlora Inc.
<i>Calibrachoa species</i>	Cal Darblu	Callie Dark Blue	1963	Goldsmith Seeds, Inc.	BioFlora Inc.
<i>Calibrachoa species</i>	Cal Ivory	Callie Ivory	1957	Goldsmith Seeds, Inc.	BioFlora Inc.
<i>Calibrachoa species</i>	Cal Laver	Callie Lavender	1964	Goldsmith Seeds, Inc.	BioFlora Inc.
<i>Calibrachoa species</i>	Cal Litelaver	Callie Light Lavender	1965	Goldsmith Seeds, Inc.	BioFlora Inc.
<i>Calibrachoa species</i>	Cal Pink	Callie Pink	1958	Goldsmith Seeds, Inc.	BioFlora Inc.
<i>Calibrachoa species</i>	Cal Pur	Callie Purple	1966	Goldsmith Seeds, Inc.	BioFlora Inc.
<i>Calibrachoa species</i>	Cal Rose	Callie Rose	1959	Goldsmith Seeds, Inc.	BioFlora Inc.
<i>Calibrachoa species</i>	Cal White	Callie White	1960	Goldsmith Seeds, Inc.	BioFlora Inc.
<i>Calibrachoa species</i>	Cal Yel	Callie Yellow	1961	Goldsmith Seeds, Inc.	BioFlora Inc.
<i>Calibrachoa species</i>	Sunbel-Apu	Million Bells Peach	2010	Suntary Flowers Limited	Fetherstonhaugh & Co.
<i>Calibrachoa species</i>	KLECO20259	MiniFamous™ Dark Violet	2000	Klemm, Nils	BioFlora Inc.
<i>Calibrachoa species</i>	KLECO2072	Minifamous™ Red	2002	Klemm, Nils	BioFlora Inc.
<i>Calibrachoa species</i>	Illumination Blue	Starlette Blue	1998	Kirin Brewery Company, Limited & Tokita Seed Co., Ltd.	BioFlora Inc.
<i>Calibrachoa species</i>	Illumination Rose	Starlette Rose	1999	Kirin Brewery Company, Limited & Tokita Seed Co., Ltd.	BioFlora Inc.
<i>Calibrachoa species</i>	USCALI51	Superbells Blue	1931	PLANT 21 LLC	BioFlora Inc.
<i>Calibrachoa species</i>	USCALI47	Superbells Coral Pink	1929	PLANT 21 LLC	BioFlora Inc.
<i>Calibrachoa species</i>	USCALI11	Superbells Pink	1927	PLANT 21 LLC	BioFlora Inc.
<i>Calibrachoa species</i>	USCALI48	Superbells Pink Kiss	1930	PLANT 21 LLC	BioFlora Inc.
<i>Calibrachoa species</i>	USCALI28	Superbells Red	1928	PLANT 21 LLC	BioFlora Inc.
<i>Calibrachoa species</i>	USCALI6	Superbells White	1926	PLANT 21 LLC	BioFlora Inc.
<i>Calibrachoa species</i>	KLECO2060	Sweetheart Lavender	2001	Klemm, Nils	BioFlora Inc.
<i>Clematis species</i>	POULala	Alabast	1990	Poulsen Roser International & Raymond J. Evison Ltd.	Braman Barbacki Moreau
<i>Clematis species</i>	Evithree	Anna Louise	1986	Poulsen Roser International & Raymond J. Evison Ltd.	Braman Barbacki Moreau
<i>Clematis species</i>	Evitwo	Arctic Queen	1987	Poulsen Roser International & Raymond J. Evison Ltd.	Braman Barbacki Moreau
<i>Clematis species</i>	Evirin	Blue Moon	1993	Poulsen Roser International & Raymond J. Evison Ltd.	Braman Barbacki Moreau
<i>Clematis species</i>	Evista	Evening Star	1994	Poulsen Roser International & Raymond J. Evison Ltd.	Braman Barbacki Moreau
<i>Clematis species</i>	Evijohill	Josephine	1992	Poulsen Roser International & Raymond J. Evison Ltd.	Braman Barbacki Moreau
<i>Clematis species</i>	Evifive	Liberation	1989	Poulsen Roser International & Raymond J. Evison Ltd.	Braman Barbacki Moreau
<i>Clematis species</i>	Evione	Sugar Candy	1988	Poulsen Roser International & Raymond J. Evison Ltd.	Braman Barbacki Moreau
<i>Clematis species</i>	POULvo	Vino	1991	Poulsen Roser International & Raymond J. Evison Ltd.	Braman Barbacki Moreau
coleus - see <i>Solenostemon</i>					
<i>Diascia barberae</i>	Diastina	Flying Colors Apricot	1971	Syngenta Seeds B.V.	BioFlora Inc.
<i>Diascia barberae</i>	Diastonia	Flying Colors Red	1972	Syngenta Seeds B.V.	BioFlora Inc.
<i>Diascia x hybrida</i>	Heccharm	Little Charmer	2008	Harrison, Hector	Nordic Nurseries Ltd.
<i>Diascia x hybrida</i>	Hecrace	Red Ace	2009	Harrison, Hector	Nordic Nurseries Ltd.
<i>Diascia x hybrida</i>	Balwhisalim	Whisper™ Salmon Red Improved	1896	Ball Horticultural Company	BioFlora Inc.

PBR Granted

GENUS	CULTIVAR	TRADENAME	CERTIFICATE	COMPANY	AGENT
<i>Euphorbia pulcherrima</i>	Early Joy		2022	Oglevee Ltd.	Schenck Farms & Greenhouses
<i>Euphorbia pulcherrima</i>	Red Angel		2023	Oglevee Ltd.	Schenck Farms & Greenhouses
<i>Euphorbia pulcherrima</i>	Fismars	Mars	1857	Florfis AG	Westcan Greenhouses Limited
<i>Euphorbia pulcherrima</i>	Fisolymp	Olympia	1859	Florfis AG	Westcan Greenhouses Limited
<i>Euphorbia pulcherrima</i>	Fiselfi Pink	Pink Elf	1860	Florfis AG	Westcan Greenhouses Limited
<i>Euphorbia pulcherrima</i>	Fismarble Silver	Silverstar Marble	1856	Florfis AG	Westcan Greenhouses Limited
<i>Euphorbia pulcherrima</i>	Fiswhite Silver	Silverstar White	1858	Florfis AG	Westcan Greenhouses Limited
geranium - see <i>Pelargonium</i>					
<i>Impatiens hawkeri</i>	Balcelpink	Celebration Pink	1906	Ball Horticultural Company	BioFlora Inc.
<i>Impatiens hawkeri</i>	Balceltrop	Celebration Tropical Peach	1907	Ball Horticultural Company	BioFlora Inc.
<i>Impatiens hawkeri</i>	Balcebapst	Celebrette Apricot Star	1902	Ball Horticultural Company	BioFlora Inc.
<i>Impatiens hawkeri</i>	Balcebrapi	Celebrette Grape Crush Improved	1905	Ball Horticultural Company	BioFlora Inc.
<i>Impatiens hawkeri</i>	Balceborst	Celebrette Orchid Star	1903	Ball Horticultural Company	BioFlora Inc.
<i>Impatiens hawkeri</i>	Balcebscapi	Celebrette Scarlet Improved	1904	Ball Horticultural Company	BioFlora Inc.
<i>Impatiens hawkeri</i>	Balcebstar	Celebrette Strawberry Star	1901	Ball Horticultural Company	BioFlora Inc.
<i>Impatiens hawkeri</i>	Balfaforg	Fanfare™ Orange	1908	Ball Horticultural Company	BioFlora Inc.
<i>Impatiens hawkeri</i>	Fisnics Lil	Sonic Lilac	1876	Florfis AG	Westcan Greenhouses Limited
<i>Impatiens hawkeri</i>	Fisnics Redgold	Sonic Red on Gold	1872	Florfis AG	Westcan Greenhouses Limited
<i>Impatiens hawkeri</i>	Fisnics Burgsweet	Sonic Sweet Burgundy	1874	Florfis AG	Westcan Greenhouses Limited
<i>Impatiens hawkeri</i>	Fisnics Sweet Red	Sonic Sweet Red	1867	Florfis AG	Westcan Greenhouses Limited
<i>Impatiens hawkeri</i>	Fisnics Zorred	Sonic Zorro Red	1868	Florfis AG	Westcan Greenhouses Limited
<i>Impatiens hawkeri</i>	Fisupnic Burgy	Super Sonic Burgundy	1875	Florfis AG	Westcan Greenhouses Limited
<i>Impatiens hawkeri</i>	Fisupnic Flame	Super Sonic Flame	1871	Florfis AG	Westcan Greenhouses Limited
<i>Impatiens hawkeri</i>	Fisupnic Hotpink	Super Sonic Hot Pink 2004	1869	Florfis AG	Westcan Greenhouses Limited
<i>Impatiens hawkeri</i>	Fisupnic Lipink	Super Sonic Light Pink	1873	Florfis AG	Westcan Greenhouses Limited
<i>Impatiens hawkeri</i>	Fisupnic Mapink	Super Sonic Pastel Pink 2004	1880	Florfis AG	Westcan Greenhouses Limited
<i>Impatiens hawkeri</i>	Fisupnic Pinkeye	Super Sonic Pink	1879	Florfis AG	Westcan Greenhouses Limited
<i>Impatiens hawkeri</i>	Fisupnic Tallred	Super Sonic Red 2004	1870	Florfis AG	Westcan Greenhouses Limited
<i>Impatiens hawkeri</i>	Fisupnic Chersweet	Super Sonic Sweet Cherry	1877	Florfis AG	Westcan Greenhouses Limited
<i>Impatiens hawkeri</i>	Fisupnic Violeye	Super Sonic Violet Ice	1878	Florfis AG	Westcan Greenhouses Limited
<i>Impatiens hybrida</i>	Fisvision	Vision Yellow	1866	Florfis AG	Westcan Greenhouses Limited
<i>Impatiens walleriana</i>	Balolepep	Fiesta™ Ole Peppermint	1910	Ball Horticultural Company	BioFlora Inc.
<i>Impatiens walleriana</i>	Balfiespray	Fiesta™ Sparkler Cherry	1909	Ball Horticultural Company	BioFlora Inc.
<i>Lamium maculatum</i>	Dellam	Golden Anniversary	2013	R. Delamore Ltd.	BioFlora Inc.
<i>Lobelia erinus</i>	Lobantis		1977	Syngenta Seeds B.V.	BioFlora Inc.
<i>Lobelia erinus</i>	Lobeto		1976	Syngenta Seeds B.V.	BioFlora Inc.
<i>Lobelia hybrida</i>	Lobetis		1975	Syngenta Seeds B.V.	BioFlora Inc.
<i>Malus domestica</i>	Sclearly		2015	Horticultural & Food Research Institute of New Zealand Ltd.	Smart & Biggar
<i>Malus domestica</i>	Scired		2014	Horticultural & Food Research Institute of New Zealand Ltd.	Smart & Biggar
<i>Malus species</i>	V1		1863	University of Guelph	
<i>Malus species</i>	V2		1862	University of Guelph	
<i>Malus species</i>	V3		1861	University of Guelph	
<i>Nemesia hybrida</i>	Balarropi	Aromatica™ Rose Pink	1895	Ball Horticultural Company	BioFlora Inc.
<i>Nemesia hybrida</i>	Innkablue	Karoo Blue	1940	InnovaPlant GmbH & Co. KG	BioFlora Inc.
<i>Nemesia hybrida</i>	Innapink	Safari Pink	1939	InnovaPlant GmbH & Co. KG	BioFlora Inc.
<i>Nemesia hybrida</i>	N0069BLAU	Safari Plum	1941	InnovaPlant GmbH & Co. KG	BioFlora Inc.
<i>Osteospermum species</i>	Aknik	Cape Daisy Nasinga Pink	1916	Paul Ecke Ranch, Inc.	Variety Rights Management
pear - see <i>Pyrus</i>					
<i>Pelargonium hortorum</i>	Patriot Bright Red		2020	Oglevee Ltd.	Schenck Farms & Greenhouses
<i>Pelargonium hortorum</i>	Patriot Salmon		2021	Oglevee Ltd.	Schenck Farms & Greenhouses
<i>Pelargonium hortorum</i>	Fisaqua	Aquarello	1887	Florfis AG	Westcan Greenhouses Limited
<i>Pelargonium hortorum</i>	Fisvita	Dolce Vita	1888	Florfis AG	Westcan Greenhouses Limited
<i>Pelargonium hortorum</i>	Fiworewhi	Fireworks Red-White Bicolor	1920	Elsner pac Jungpflanzen	BioFlora Inc.
<i>Pelargonium hortorum</i>	Fisrodark	Rocky Mountain Dark Red	1892	Florfis AG	Westcan Greenhouses Limited
<i>Pelargonium hortorum</i>	Fisrohot	Rocky Mountain Hot Pink	1894	Florfis AG	Westcan Greenhouses Limited
<i>Pelargonium hortorum</i>	Fisrolav	Rocky Mountain Lavender	1893	Florfis AG	Westcan Greenhouses Limited
<i>Pelargonium hortorum</i>	Fisrolisa	Rocky Mountain Light Salmon	1883	Florfis AG	Westcan Greenhouses Limited
<i>Pelargonium hortorum</i>	Fip 469	Rocky Mountain Rose 04	1891	Florfis AG	Westcan Greenhouses Limited
<i>Pelargonium hortorum</i>	Fisromon	Rocky Mountain Salmon	1889	Florfis AG	Westcan Greenhouses Limited
<i>Pelargonium hortorum</i>	Fisrosalm	Rocky Mountain Salmon Rose	1890	Florfis AG	Westcan Greenhouses Limited
<i>Pelargonium peltatum</i>	Free Burg Two	Freestyle Burgundy II	1967	Goldsmith Seeds, Inc.	BioFlora Inc.
<i>Pelargonium peltatum</i>	Free Pink Two	Freestyle Pink II	1968	Goldsmith Seeds, Inc.	BioFlora Inc.
<i>Pelargonium peltatum</i>	Fisblipur	Purple Blizzard 04	1884	Florfis AG	Westcan Greenhouses Limited

PBR Granted

GENUS	CULTIVAR	TRADENAME	CERTIFICATE	COMPANY	AGENT
<i>Pelargonium peltatum</i>	Fisdream	Purple Dream	1885	Florfis AG	Westcan Greenhouses Limited
<i>Pelargonium peltatum</i>	KLEP02060	Royal™ Light Pink	2003	Klemm, Nils	BioFlora Inc.
<i>Pelargonium x hortorum x P. peltatum</i>	Fip 202	Reggae Bright Red	1886	Florfis AG	Westcan Greenhouses Limited
<i>Petunia hybrida</i>	KLEC02038	Famous Lavender Pink	2004	Klemm, Nils	BioFlora Inc.
<i>Petunia hybrida</i>	Jam Bluin	Jamboree Blue Vein	1953	Goldsmith Seeds, Inc.	BioFlora Inc.
<i>Petunia hybrida</i>	Jam Burg	Jamboree Burgundy	1950	Goldsmith Seeds, Inc.	BioFlora Inc.
<i>Petunia hybrida</i>	Jam Hopink	Jamboree Hot Pink	1951	Goldsmith Seeds, Inc.	BioFlora Inc.
<i>Petunia hybrida</i>	Jam Laver	Jamboree Lavender	1952	Goldsmith Seeds, Inc.	BioFlora Inc.
<i>Petunia hybrida</i>	Jam Scarl	Jamboree Scarlet	1955	Goldsmith Seeds, Inc.	BioFlora Inc.
<i>Petunia hybrida</i>	Jam White	Jamboree White	1954	Goldsmith Seeds, Inc.	BioFlora Inc.
<i>Petunia hybrida</i>	Reflec Pur	Reflections Purple	1949	Goldsmith Seeds, Inc.	BioFlora Inc.
<i>Petunia hybrida</i>	USTUNI153	Supertunia Giant Pink	1934	PLANT 21 LLC	BioFlora Inc.
<i>Petunia hybrida</i>	USTUNI218	Supertunia Mini Blue	1936	PLANT 21 LLC	BioFlora Inc.
<i>Petunia hybrida</i>	Mediopimo	Supertunia Mini Bright Pink	1932	PLANT 21 LLC	BioFlora Inc.
<i>Petunia hybrida</i>	USTUNI76	Supertunia Mini Pastel Pink	1933	PLANT 21 LLC	BioFlora Inc.
<i>Petunia hybrida</i>	USTUNI207	Supertunia Mini Rose Veined	1935	PLANT 21 LLC	BioFlora Inc.
<i>Petunia hybrida</i>	USTUNI223	Supertunia Red	1937	PLANT 21 LLC	BioFlora Inc.
<i>Petunia hybrida</i>	Whip Ablos	Whispers Apple Blossom	1942	Goldsmith Seeds, Inc.	BioFlora Inc.
<i>Petunia hybrida</i>	Whip Blurose	Whispers Blue Rose	1943	Goldsmith Seeds, Inc.	BioFlora Inc.
<i>Petunia hybrida</i>	Whip Burg	Whispers Burgundy	1944	Goldsmith Seeds, Inc.	BioFlora Inc.
<i>Petunia hybrida</i>	Whip Darsal	Whispers Dark Salmon II	1956	Goldsmith Seeds, Inc.	BioFlora Inc.
<i>Petunia hybrida</i>	Whip Lityel	Whispers Light Yellow	1945	Goldsmith Seeds, Inc.	BioFlora Inc.
<i>Petunia hybrida</i>	Whip Rose	Whispers Rose	1946	Goldsmith Seeds, Inc.	BioFlora Inc.
<i>Petunia hybrida</i>	Whip Scarl	Whispers Scarlet	1947	Goldsmith Seeds, Inc.	BioFlora Inc.
<i>Petunia hybrida</i>	Whip White	Whispers White	1948	Goldsmith Seeds, Inc.	BioFlora Inc.
<i>poinssetia - see Euphorbia</i>					
<i>Pyrus communis</i>	Concorde		1914	Somersby Treefruit	okanagan Plant Improvement Co. Ltd.
<i>Rosa hybrida</i>	Noalesa	Yellow Flower Carpet	1915	Noack, Reinhard	Pan American Nursery Products Inc.
<i>Rosa species</i>	POULra010	Blush Parade®	1981	Poulsen Roser A/S	Braman Barbacki Moreau
<i>Rosa species</i>	POULra015	Denise Parade®	1985	Poulsen Roser A/S	Braman Barbacki Moreau
<i>Rosa species</i>	POULra014	Julie Parade®	1984	Poulsen Roser A/S	Braman Barbacki Moreau
<i>Rosa species</i>	POULover	Rosenholm	1980	Poulsen Roser A/S	Braman Barbacki Moreau
<i>Rosa species</i>	POULac002	Royal Palace®	1982	Poulsen Roser A/S	Braman Barbacki Moreau
<i>Rosa species</i>	POULbrido	True Love	1983	Poulsen Roser A/S	Braman Barbacki Moreau
<i>Sanvitalia hybrida</i>	Dittsun	Sunbini	1995	Dittmar, Hugo	Nordic Nurseries Ltd.
<i>Sanvitalia speciosa</i>	Santanis		1979	Syngenta Seeds B.V.	BioFlora Inc.
<i>Sanvitalia speciosa</i>	Santasol		1978	Syngenta Seeds B.V.	BioFlora Inc.
<i>snapdragon - see Antirrhinum</i>					
<i>Solenostemon scutellarioides</i>	Sedona		1855	Four Star Greenhouse Inc.	BioFlora Inc.
<i>Solenostemon scutellarioides</i>	Plum Good	Trailing Plum	1996	Paul Ecke Ranch, Inc.	Variety Rights Management
<i>Sutera cordata</i>	Balabwhiti	Abunda™ White Improved	1897	Ball Horticultural Company	BioFlora Inc.
<i>Sutera cordata</i>	Suttis 98	Cabana	1973	Syngenta Seeds B.V.	BioFlora Inc.
<i>Sutera cordata</i>	Mogoto	Glacier Blue	1938	InnovaPlant GmbH & Co. KG	BioFlora Inc.
<i>Sutera cordata</i>	Gicomwhi14	Suteranova Compact White	1924	PLANT 21 LLC	Nordic Nurseries Ltd.
<i>Sutera cordata</i>	Giwhisto12	Suteranova White	1925	PLANT 21 LLC	Nordic Nurseries Ltd.



Verbascum 'PLUM SMOKEY'
from Terra Nova Nurseries Inc.

New Plants continued

Rietvink and assigned to Darwin Plants.
Uniquely patterned, blue and white stripes. Hardy
from zone 5 to 7. USPP# 14,705, EECBPBR#
13,807.

Dianthus

Originated by John Whetman and assigned to
PlantHaven, Inc:

'SHOOTING STAR' Inflorescent purple blooms.
Compact habit. Floriferous with attractive narrow
foliage. Hardy to zone 3. USPPP.

'SISKIN CLOCK' Tall, fine, blue-green foliage with
showy white and rose bi-coloured blooms.
Hardy to zone 6. USPP# 14,377, EECBPRAF.

Echinacea

Originated by Harini Kolipara and assigned to
Terra Nova Nurseries, Inc.:

'FRAGRANT ANGEL' White blooms with strong
upright stems. Good vigor. Hardy from zone 4 to
9. USPPP, EECBPRAF.

'LITTLE GIANT' Double, large red purple blooms.
Vigorous dwarf habit. Hardy from zone 4 to 9.
USPPP, EECBPRAF.

Originated by J. M. van Winsen and assigned to
Darwin Plants:

'RAZZMATAZZ' Fully double, large purple/pink
blooms with a pom-pom inflorescence. Very
unusual. Hardy from zone 3 to 8. USPP# 13,894,
EECBPBR# 11,936.

Eupatorium dubium 'LITTLE JOE' Originated by
Angela Palmer and assigned to The Conard-Pyle
Co. Small purple blooms. Similar characteristics to
the native species, but has a much more compact
habit. Hardy from zone 4 to 8. USPPP.

Euphorbia 'MINI MARTINI' Originated by M.

continued on page 8

PBR Applied For

GENUS	CULTIVAR	TRADENAME	COMPANY	AGENT
<i>Acer species</i>	MUNN 001		Munn, Carl	Cassan Maclean
<i>Agastache mexicana</i>	Kiegabi		Kieft Bloemzaden B.V.	Variety Rights Management
<i>Agastache mexicana</i>	Kiegador		Kieft Bloemzaden B.V.	Variety Rights Management
<i>Agastache mexicana</i>	Kiegapur		Kieft Bloemzaden B.V.	Variety Rights Management
<i>Ageratum x hybrida</i>	Agalib		Syngenta Seeds B.V.	BioFlora Inc.
<i>Ageratum x hybrida</i>	Agapel		Syngenta Seeds B.V.	BioFlora Inc.
<i>Ageratum x hybrida</i>	Agbic		Syngenta Seeds B.V.	BioFlora Inc.
<i>Ageratum x hybrida</i>	Agrosamtis	Artist®Baseo Rose	Syngenta Seeds B.V.	BioFlora Inc.
apple - see <i>Malus</i>				
<i>Argyranthemum frutescens</i>	Argydupea	Mollmba®Duplo Pearl	Syngenta Seeds B.V.	BioFlora Inc.
<i>Argyranthemum frutescens</i>	Argydowitis	Mollmba®Duplo White	Syngenta Seeds B.V.	BioFlora Inc.
<i>Argyranthemum frutescens</i>	Argymonwi	Mollmba®Monroe White	Syngenta Seeds B.V.	BioFlora Inc.
<i>Argyranthemum frutescens</i>	Arg Whit	Sassy White	Goldsmith Seeds, Inc.	BioFlora Inc.
<i>bacopa</i> - see <i>Sutera</i>				
<i>Calibrachoa species</i>	A4065-1		Kieft Bloemzaden B.V.	Variety Rights Management
<i>Calibrachoa species</i>	A4071-1		Kieft Bloemzaden B.V.	Variety Rights Management
<i>Coreopsis rosea</i>	Heavens Gate		Sunny Border Nurseries Inc.	Variety Rights Management
cranberry - see <i>Vaccinium</i>				
<i>Dahlia species</i>	Kiedahred		Kieft Bloemzaden B.V.	Variety Rights Management
<i>Dianthus species</i>	Devon Xera		Whetman Pinks Ltd.	Variety Rights Management
<i>Diascia barberae</i>	Diaspetis		Syngenta Seeds B.V.	BioFlora Inc.
<i>Diascia barberae</i>	Diaspritwo	Flying Colors™ Upright Apricot Improved	Syngenta Seeds B.V.	BioFlora Inc.
<i>Diascia barberae</i>	Diasroroc	Flying Colours® Roccoco	Syngenta Seeds B.V.	BioFlora Inc.
<i>Fuchsia x hybrida</i>	A2568-1		Kieft Bloemzaden B.V.	Variety Rights Management
<i>Gaura lindheimeri</i>	Gaudwwhi	Geyser® White	Syngenta Seeds B.V.	BioFlora Inc.
<i>Gaura lindheimeri</i>	Gautalwhi	Geyser® White	Syngenta Seeds B.V.	BioFlora Inc.
geranium - see <i>Pelargonium</i>				
<i>Hydrangea species</i>	HBA901		Hydrangea Breeders Association b.v.	BioFlora Inc.
<i>Impatiens hawkeri</i>	Ingbicisawi		Syngenta Seeds B.V.	BioFlora Inc.
<i>Impatiens hawkeri</i>	Ingborg		Syngenta Seeds B.V.	BioFlora Inc.
<i>Impatiens hawkeri</i>	Ingbiol		Syngenta Seeds B.V.	BioFlora Inc.
<i>Impatiens hawkeri</i>	Ingbwit		Syngenta Seeds B.V.	BioFlora Inc.
<i>Impatiens hawkeri</i>	Ingbila		Syngenta Seeds B.V.	BioFlora Inc.
<i>Impatiens hawkeri</i>	Ingmage		Syngenta Seeds B.V.	BioFlora Inc.
<i>Impatiens hawkeri</i>	Ingorch		Syngenta Seeds B.V.	BioFlora Inc.
<i>Impatiens hawkeri</i>	Ingpiibu		Syngenta Seeds B.V.	BioFlora Inc.
<i>Impatiens hawkeri</i>	Ingscar		Syngenta Seeds B.V.	BioFlora Inc.
<i>Impatiens hawkeri</i>	Ingscartwo		Syngenta Seeds B.V.	BioFlora Inc.
<i>Impatiens hawkeri</i>	Ingwhit		Syngenta Seeds B.V.	BioFlora Inc.
<i>Impatiens hawkeri</i>	Ingwweye		Syngenta Seeds B.V.	BioFlora Inc.
<i>Impatiens walleriana</i>	Immibicor		Syngenta Seeds B.V.	BioFlora Inc.
<i>Impatiens walleriana</i>	Immichero		Syngenta Seeds B.V.	BioFlora Inc.
<i>Impatiens walleriana</i>	Immicora		Syngenta Seeds B.V.	BioFlora Inc.
<i>Impatiens walleriana</i>	Immipink		Syngenta Seeds B.V.	BioFlora Inc.
<i>Impatiens walleriana</i>	Immired		Syngenta Seeds B.V.	BioFlora Inc.
<i>Impatiens walleriana</i>	Immiviol		Syngenta Seeds B.V.	BioFlora Inc.
<i>Impatiens walleriana</i>	Imtralave		Syngenta Seeds B.V.	BioFlora Inc.
<i>Impatiens walleriana</i>	Imtralila		Syngenta Seeds B.V.	BioFlora Inc.
<i>Impatiens walleriana</i>	Imtraoran		Syngenta Seeds B.V.	BioFlora Inc.
<i>Impatiens walleriana</i>	Imtrapiblu		Syngenta Seeds B.V.	BioFlora Inc.
<i>Impatiens walleriana</i>	Imtrared		Syngenta Seeds B.V.	BioFlora Inc.
<i>Impatiens walleriana</i>	Imtrarose		Syngenta Seeds B.V.	BioFlora Inc.
<i>Impatiens walleriana</i>	Imtrasalm		Syngenta Seeds B.V.	BioFlora Inc.
<i>Impatiens walleriana</i>	Imtrawhit		Syngenta Seeds B.V.	BioFlora Inc.
<i>Kalanchoe blossfeldiana</i>	Mount Rushmore		AB Breeding B.V.	BioFlora Inc.
<i>Kalanchoe blossfeldiana</i>	Red Wood		AB Breeding B.V.	BioFlora Inc.
<i>Kalanchoe blossfeldiana</i>	White Sands		AB Breeding B.V.	BioFlora Inc.
<i>Kalanchoe blossfeldiana</i>	Yosemite		AB Breeding B.V.	BioFlora Inc.
<i>Kalanchoe blossfeldiana</i>	Zion		AB Breeding B.V.	BioFlora Inc.
<i>Leucanthemum x superbum</i>	Kiedai		Kieft Bloemzaden B.V.	Variety Rights Management
<i>Lobelia erinus</i>	Butterfly Blue		Kieft Bloemzaden B.V.	Variety Rights Management
<i>Lobelia erinus</i>	Loblilac	Laguna®Trailing Lilac	Syngenta Seeds B.V.	BioFlora Inc.
<i>Malus domestica</i>	SJCA38R6A74		Agriculture & Agri-Food Canada, St.-Jean-sur-Richelieu	
<i>Nemesia fruticans</i>	Nemhabar	Impressario® Blue	Syngenta Seeds B.V.	BioFlora Inc.

PBR Applied For

GENUS	CULTIVAR	TRADENAME	COMPANY	AGENT
<i>Nemesia fruticans</i>	Nemhswhi	Impressario® Blue	Syngenta Seeds B.V.	BioFlora Inc.
<i>Nemesia fruticans</i>	Nemhrpur	Impressario® Purple	Syngenta Seeds B.V.	BioFlora Inc.
<i>Osteospermum ecklonis</i>	99101		Kieft Bloemzaden B.V.	Variety Rights Management
<i>Osteospermum ecklonis</i>	99115		Kieft Bloemzaden B.V.	Variety Rights Management
<i>Osteospermum ecklonis</i>	99119		Kieft Bloemzaden B.V.	Variety Rights Management
<i>Osteospermum ecklonis</i>	Osjamlipur	Jamboana®Light Purple Impr.	Syngenta Seeds B.V.	BioFlora Inc.
<i>Osteospermum ecklonis</i>	Osjamwhit	Jamboana®White Impr.	Syngenta Seeds B.V.	BioFlora Inc.
<i>Pelargonium x domesticum</i>	Elegance Silver		Penn State Research Foundation	Schenck Farms & Greenhouses
<i>Petunia hybrida</i>	MP205		NuFlora International Pty. Ltd.	Variety Rights Management
<i>Petunia hybrida</i>	MP209		NuFlora International Pty. Ltd.	Variety Rights Management
<i>Petunia hybrida</i>	MP221		NuFlora International Pty. Ltd.	Variety Rights Management
<i>Petunia hybrida</i>	MPD2		NuFlora International Pty. Ltd.	Variety Rights Management
<i>Petunia hybrida</i>	MPD5		NuFlora International Pty. Ltd.	Variety Rights Management
<i>Petunia hybrida</i>	Petspebl	Sanguna®Atomic Blue	Syngenta Seeds B.V.	BioFlora Inc.
<i>Petunia hybrida</i>	Petgrabl	Sanguna®Blue	Syngenta Seeds B.V.	BioFlora Inc.
<i>Petunia hybrida</i>	Petlavgr	Sanguna®Lavender	Syngenta Seeds B.V.	BioFlora Inc.
<i>Petunia hybrida</i>	Petlawe	Sanguna®Lavender Vein	Syngenta Seeds B.V.	BioFlora Inc.
<i>Petunia hybrida</i>	Petpur	Sanguna®Purple	Syngenta Seeds B.V.	BioFlora Inc.
<i>Petunia hybrida</i>	Petrowhi	Sanguna®Rose	Syngenta Seeds B.V.	BioFlora Inc.
<i>Petunia hybrida</i>	Petrosve	Sanguna®Rose Vein	Syngenta Seeds B.V.	BioFlora Inc.
<i>Petunia hybrida</i>	Petwiblv	Sanguna®Silver Blue Vein	Syngenta Seeds B.V.	BioFlora Inc.
<i>Petunia hybrida</i>	Petwiblvgr	Sanguna®White Blue Vein	Syngenta Seeds B.V.	BioFlora Inc.
<i>Petunia hybrida</i>	Sunraspberry	Surfinia Raspberry Dream	Suntory Flowers Ltd. and Keisei Rose Nurseries Inc.	Fetherstonhaugh & Co.
<i>Petunia hybrida</i>	Sunmilk	Surfinia Royal Milk Tea	Suntory Flowers Ltd. and Keisei Rose Nurseries Inc.	Fetherstonhaugh & Co.
<i>Phlox drummondii</i>	Sunphlochebu		Suntory Flowers Limited	BioFlora Inc.
<i>Phlox drummondii</i>	Sunphloho		Suntory Flowers Limited	BioFlora Inc.
<i>Phlox drummondii</i>	Sunphlore		Suntory Flowers Limited	BioFlora Inc.
<i>Rosa species</i>	Poulcot003	Bay Cottage®	Poulsen Roser A/S	Braman Barbacki Moreau
<i>Rosa species</i>	Poulcot004	Grove Cottage®	Poulsen Roser A/S	Braman Barbacki Moreau
<i>Rosa species</i>	Poulcot008	Hill Cottage®	Poulsen Roser A/S	Braman Barbacki Moreau
<i>Rosa species</i>	Poulcot006	Lake Cottage®	Poulsen Roser A/S	Braman Barbacki Moreau
<i>Rosa species</i>	Poulcot001	Meadow Cottage®	Poulsen Roser A/S	Braman Barbacki Moreau
<i>Salvia nemorosa</i>	Salsyll	Oceana®Blue	Syngenta Seeds B.V.	BioFlora Inc.
<i>Scaevola aemula</i>	Scablhatis	Whirlwind®Blue	Syngenta Seeds B.V.	BioFlora Inc.
<i>Scoparia hybrid</i>	Suntutuki	Little Tutu	Suntory Flowers Limited	BioFlora Inc.
<i>Sutera diffusa</i>	Sutcabl		Syngenta Seeds B.V.	BioFlora Inc.
<i>Sutera diffusa</i>	Sutcatrwhi		Syngenta Seeds B.V.	BioFlora Inc.
<i>Sutera diffusa</i>	Sutharis	Cabana™ Trailing Lavender	Syngenta Seeds B.V.	BioFlora Inc.
<i>Vaccinium macrocarpon</i>	Hyred		Wisconsin Alumni Research Foundation	Torys LLP
<i>Verbena x hybrida</i>	Amarena	Babylon® Red	Syngenta Seeds B.V.	BioFlora Inc.
<i>Verbena x hybrida</i>	Darkeyena	Babylon® Dark Blue with Eye	Syngenta Seeds B.V.	BioFlora Inc.
<i>Verbena x hybrida</i>	Liliena	Babylon® Lilac with Eye	Syngenta Seeds B.V.	BioFlora Inc.
<i>Verbena x hybrida</i>	Lilrosena	Tukana® Lilac Rose	Syngenta Seeds B.V.	BioFlora Inc.
<i>Verbena x hybrida</i>	Pulena	Tukana® Purple	Syngenta Seeds B.V.	BioFlora Inc.

A. van Kesteren and assigned to Darwin Plants. Light green disc shaped bracts with red center. Hardy from zone 4 to 8. USPP# 14,579, EECPBRAF.

Geranium 'JOLLY BEE' Originated by M. van Noort and assigned to Darwin Plants: Massive, blue, cupped shaped blooms with large white centers. Very floriferous and robust. Hardy from zone 4 to 8. USPP# 12,148, EECBPR# 10,484.

Heuchera Originated by Santa Barbara Botanic Garden and assigned to PlantHaven, Inc.:

'CANYON BELLE' Dwarf mounding habit, floriferous, powerful rich red blooms. Hardy to zone 4. USPP# 13,413.

'CANYON DUET' Dwarf mounding habit. Floriferous bi-coloured white and pink blooms. Hardy to zone 4. USPP# 13,280.

'CANYON MELODY' Dwarf mounding habit. Floriferous bi-coloured white and medium pink blooms. Hardy to zone 4. USPP# 13,276.

Originated by Gary Gossett and assigned to Terra Nova Nurseries, Inc.:

'CITY LIGHTS' Medium sized, cream coloured blooms on dark, shiny foliage. Compact habit. Hardy to zone 4. USPP# 13,276.

Originated by Janet Egger and assigned to Terra Nova Nurseries, Inc.:

'GYPSY DANCER' Extremely floriferous, light pink blooms. Silver/green veined foliage. Vigorous, compact habit. Hardy to zone 4. USPP# 13,276.

'LIME RICKEY' Lime green, wavy foliage with small white blooms. Hardy to zone 4. USPP# 13,276.

'MARMALADE' Russet to amber wavy foliage with small greenish white blooms. Excellent vigor.

Hardy to zone 4. USPP# 13,276, EECPBRAF.

Heucherella

Originated by Gary Gossett and assigned to Terra Nova Nurseries, Inc.:

'BIRTHDAY CAKE' Creamy yellow white blooms with chocolate, ruffled foliage. Mounding habit. Hardy to zone 5. USPP# 13,276, EECPBRAF.

'PARTY TIME' Prolific, warm pink blooms. Maple shaped foliage has slight white veil and darkened veins. Excellent vigor. Hardy to zone 5. USPP# 13,276, EECPBRAF.

Kniphofia 'ARIEL'S MAGIC' Originated by Ron Allensen of Monarch Landing Nursery. Bright orange yellow opening to golden yellow. Hardy to zone 6.

Leucanthemum 'SUNNY SIDE UP' Originated by M. van Noort. and assigned to Darwin Plants. Short and sturdy with large white blooms with a

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PBR Changes

PBR Applications Withdrawn

Calibrachoa Goldsmith Seeds, Inc., U.S.A. with BioFlora Inc. acting as their agent for **C.** 'Cal Sunre' Callie Sunrise.

Impatiens Florfis AG, Switzerland with Westcan Greenhouses Ltd. acting as their agent for **I.** 'Fisnics Redice' Sonic Scarlet Ice.

Malus University of Guelph, Canada for **M.** 'V5' and **M.** 'V6'.

Otacanthus John Bodger and Sons Company, U.S.A. with Variety Rights Management acting as their agent for **O.** 'Boddeepblu' Caribbean Blue.

Pelargonium Goldsmith Seeds, Inc. with BioFlora Inc. acting as their agent for **P.** 'Amri Conred' Americana Confetti Red.

Rosa Poulsen Roser A/S, Denmark with Braman Barbacki Moreau acting as their agent for **R.** 'POULhi009' Cinderella Hit®, **R.** 'POULra003' Flair Parade®, **R.** 'POULchris' Imperial Palace®, **R.** 'POULty001' Inca Party®, **R.** 'Pouldron', **R.** 'Poulpar032' and **R.** 'POULsiv' Silva Hit®.

PBR Applications Abandoned

Chrysanthemum Regents of the University of Minnesota, U.S.A. with Bradford Greenhouse Ltd. acting as their agent for **C.** '92-321-19', **C.** '92-333-2', **C.** '95-105-6', **C.** '95-157-6', **C.** '95-170-28', **C.** '92-296-25', **C.** '92-301-14', **C.** '98-E90-15' and **C.** '98-M91-1'.

Guizotia Glenn A. Page, U.S.A. with Northstar Seed Ltd. acting as their agent for **G.** 'EarlyBird'.

Heuchera Oosterwijck Jr. B.V., The Netherlands with Vanhof & Blokker Ltd. acting as their agent for **H.** 'Beauty Colour' and **H.** 'Silver Indiana'.

Hosta Gerard Heemskerck, The Netherlands with Variety Rights Management acting as their agent for **H.** 'Karin' and **H.** 'White Triumphator'.

Impatiens Tioga Genetics, U.S.A. with Variety Rights Management acting as their agent for **I.** 'TiRow' Tioga Rose on White.

Rosa Jackson & Perkins Wholesale, Inc., U.S.A. with Cassan Maclean acting as their agent for **R.** 'KORpusiro' Purple Roxy.

Veronica Heather Philpott, United Kingdom with Nordic Nurseries Ltd. acting as their agent for **V.** 'Glory' Royal Candles.

Rights Surrendered

Alstroemeria Van Zanten Plants B.V., The Netherlands with Westcan Greenhouses Ltd. acting as their agent for **A.** 'Granada', **A.** 'Lambada' and **A.** 'Staprinag' Ragna.

Angelonía Ball Horticultural Company, U.S.A. with BioFlora Inc. acting as their agent for **A.** 'Balangimpu' Angelmist™ Purple Improved.

Brachycome Evan Philip Clucas, Australia with Variety Rights Management acting as their agent for **B.** 'Billabong Moonlight', **B.** 'Jumbo Misty Lilac' and **B.** 'Mauve Delight'.

Plant Growers Australia Pty. Ltd. Australia with Variety Rights Management acting as their agent for **B.** 'Happy Face Pink' and **B.** 'Lemon Twist'. Merricks Nursery Australia with Variety Rights Management acting as their agent for **B.** 'Strawberry Mousse'.

Chrysanthemum. Yoder Brothers, Inc., U.S.A. with Yoder Canada, Ltd. acting as their agent for **C.** 'Yodanville' Danville, **C.** 'Yogisele' Gisele, **C.** 'Yokodiak' Kodiak, **C.** 'Orange Yodanville' Orange

Danville, **C.** 'White Yodavis'.

Impatiens Klemm & Sohn GmbH & Co. KG, Germany with BioFlora Inc. acting as their agent for **I.** 'Delhi'.

Nemesia Paul Ecke Ranch, Inc., U.S.A. with Variety Rights Management acting as their agent for **N.** 'Nempeach' Peach Satchet.

Pelargonium Nils Klemm, Germany with BioFlora Inc. acting as their agent for **P.** 'KLEP01065' Moonlight™ Brilliant Red.

Petunia D.W. & P.G. Kerley, United Kingdom with Norseco Inc. acting as their agent for **P.** 'Kerjul' Julia.

John Alldrick, United Kingdom with Norseco Inc. acting as their agent for **P.** 'Limelight'.

Sakata Seed Corporation Japan with Variety Rights Management acting as their agent for **P.** 'Kakegawa S29' Supertunia Lavender Morn.

poinssetia *Euphorbia* Paul Ecke Ranch, Inc., U.S.A. with Variety Rights Management acting as their agent for **E.** 'Eckadonis' Bright Red Sails, **E.** 'Eckalyssa', **E.** 'Eckadama' Freedom Rose, **E.** 'Winrose' Winter Rose Deep Pink and **E.** 'Eckalbeno' Winter Rose Marble.

Portulaca Sakata Seed Corporation with Variety Rights Management acting as their agent for **P.** 'Summer Baby Orange' Double Yubi Orange and **P.** 'Summer Baby White' Double Yubi White.

Rosa Poulsen Roser A/S with Braman Barbacki Moreau acting as their agent for **R.** 'POULurt' Aspen, **R.** 'POULpyg' Central Park, **R.** 'POULemb' Cliffs of Dover, **R.** 'POULlute' Fair Hit®, **R.** 'POULmoon' Moonlight Hit®, **R.** 'POULnino' Napa Valley, **R.** 'POULma' Newport, **R.** 'POULelap' Queen's Palace™, **R.** 'POULcape' Summer Palace®, **R.** 'POULrael' Tender Parade® and **R.** 'POULty002' Vital Party®.

Rights Revoked

Antirrhinum A.T. Yates & Son, United Kingdom with Variety Rights Management acting as their agent for **A.** 'Yahit' Chandelier Yellow.

Sutera A.T. Yates & Son with Variety Rights Management acting as their agent for **S.** 'Yagero' Penny Candy Rose and **S.** 'Yagevi' Penny Candy Violet.

Rights Rejected

Phlox Suntory Flowers Ltd., Japan with Fetherstonhaugh & Co. acting as their agent for **P.** 'Sunphlo R&W'.

Petunia Suntory Flowers Ltd. with Fetherstonhaugh & Co. acting as their agent for **P.** 'Suncorami'.

Change of Denomination

Four Star Greenhouse Inc., Michigan, U.S.A. with BioFlora Inc. acting as their agent for

Argyranthemum

old denomination: 'Vanilla',
new denomination: '4starvan'.

Oasis Horticulture Pty. Ltd., Australia with BioFlora Inc. acting as their agent for

Argyranthemum

old denomination:
'OHAR01-241' Madeira™ Monte Cream
new denomination:
'OHAR01241' Madeira™ Monte Cream
old denomination:
'OHAR01-245' Madeira™ Machio Double Pink
new denomination
'OHAR01245' Madeira™ Machio Double Pink
old denomination
'OHAR01-240' Madeira™ Santa Maria Pink

new denomination
'OHAR01240' Madeira™ Santa Maria Pink
old denomination
'OHAR01-32' Madeira™ Porto Santo White
new denomination
'OHAR0132' Madeira™ Porto Santo White
old denomination
'OHAR02111' Madeira™ Santana
new denomination
OHMADSANT' Madeira™ Santana
old denomination
'OHAR02144' Madeira™ Camara
new denomination
'OHMADCAMA' Madeira™ Camara
old denomination
'OHAR02148' Madeira™ Sao Martinho
new denomination
'OHMADSOM' Madeira™ Sao Martinho
old denomination
'OHAR02157' Madeira™ Leveda
new denomination
'OHMADLEVA' Madeira™ Leveda
old denomination
'OHAR02182' Madeira™ Madelana
new denomination
'OHMADMADE' Madeira™ Madelana
old denomination
'OHAR02214' Madeira™ Sao Vicente
new denomination
'OHMADSAVI' Madeira™ Sao Vicente
Poulsen Roser A/S with Braman Barbacki Moreau acting as their agent for **Clematis**
old denomination: 'Fairy Blue', new denomination:
'Eviso38'.
Ball Horticultural Company with BioFlora Inc. acting as their agent for **Impatiens**
old denomination: 'Balfiespary', new denomination:
'Balfiespray'.
Knud Jepsen A/S, Denmark with Bioflora Inc. acting as their agent for **Kalanchoe**
old denomination: 'Kj 2002-0504', new denomination: 'KJ20020504'. Old denomination: 'Kj 2002-0517', new denomination: 'KJ20020517'.

Change of Agent in Canada

Kirin Brewery Co. Ltd, Japan with Hole's Greenhouse, Alberta Canada as the former agent.

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Calibrachoa 'WESCASAL' Celebration® Salmon originated by J. + H. Westhoff

New Plants continued

double layer of petals. Hardy from zone 4 to 9. USPP# 12,837, EECPR# 11,445.

***Persicaria microcephala* 'SILVER DRAGON'** Originated by Kenneth E. Brown Jr. and assigned to Terra Nova Nurseries, Inc. White. More compact and shorter than 'Red Dragon'. Silver and olive foliage with red markings. Excellent vigor. Hardy to zone 5. USPP# 12,837, EECPR# 11,445.

***Penstemon kunthii* 'LILLIPUT ROSE'** Originated by Fred Yates and assigned to PlantHaven Inc. Numerous dark red/purple blooms with white, purple striped throats. Compact habit. Hardy to zone 7. USPP# 12,837, EECPR# 11,445.

Phlox paniculata

Originated by Rene van Gaalen B. V. and assigned to Darwin Plants:

'EMPTY FEELINGS' Large plume-shaped clusters of golden-brown bracts that retain form and colour for up to three months. Hardy from zone 4 to 8. USPP# 12,969, EECPR# 8,458.

'FANCY FEELINGS' Star-shaped clusters of bright pink modified petals. Hardy from zone 4 to 9. USPP# 14,654.

'GOLDMINE' Deep magenta blooms on variegated green foliage with broad gold edges. Good mildew resistance. Hardy from zone 4 to 8. USPP# 12,070, EECPR# 7,378.

'MIDNIGHT FEELINGS' Plume-like clusters of mahogany-black needle-fine bracts. Hardy from zone 4 to 8. USPP# 12,070, EECPR# 7,378.

'NATURAL FEELINGS' Large plume-shaped clusters of pink and green modified petals. Unique rosebud formation. Hardy from zone 4 to 8. USPP# 13,623, EECPR# 10,663.

'PLEASANT FEELINGS' Clusters of needle-fine lime green bracts. Hardy from zone 4 to 8. USPP# 13,623, EECPR# 10,663.

'RED FEELINGS' Large decorative clusters of red bracts, which retain their form and colour for up to 10 weeks. Excellent cut flower. Hardy from zone 4 to 8. USPP# 13,632, EECPR# 8,366.

'RUBYMINE' Dense clusters of pink blooms on superbly variegated blue-green foliage. Irregular cream margins are tinged red. Hardy from zone 4 to 8. USPP# 12,824, EECPR# 9,217.

***Silene dioica* 'VALLEY HIGH'** Originated by Robert D. Jansen and assigned to Terra Nova Nurseries, Inc. Vigorous, with creamy yellow foliage and deep pink blooms. Hardy to zone 5. USPP# 12,824, EECPR# 9,217.

***Tiarella cordifolia* 'SPRINGWOOD'** Originated by Stephen Lightly/Angela Palmer and assigned to The Conard-Pyle Co. Clump forming native species. Foliage turns reddish pink in fall. Hardy from zone 3 to 8. USPP# 14,087.

***Tolmiea menziesii* 'COOL GOLD'** Originated by Kenneth E. Brown. Jr. and assigned to Terra Nova Nurseries, Inc. Greyed purple blooms on yellow green foliage. Hardy to zone 5. USPP# 12,824, EECPR# 9,217.

***Tradescantia andersoniana* 'PINK CHABLIS'** Originated by M. van Noort and assigned to Darwin Plants. Has an abundance of unique soft pink blooms with ruffled white edges. Hardy from zone 3 to 9. USPP# 12,824, EECPR# 9,217.

***Tricyrtis* 'MOONLIGHT TREASURE'** Originated by Gary Gossett and assigned to Terra Nova Nurseries, Inc. Upright, dense, clumping habit.

Thick textured foliage with large speckled creamy yellow blooms. Hardy to zone 6. USPP# 12,824, EECPR# 9,217.

Verbascum

Originated by Harini Kolipara and assigned to Terra Nova Nurseries, Inc.:

'PLUM SMOKEY' Compact habit. Numerous flowering stems with large purple red blooms. Hardy from zone 5 to 9. USPP# 12,824, EECPR# 9,217.

'SUGAR PLUM' Violet blooms. Compact and free flowering. Numerous stems of large purple blooms. Hardy from zone 5 to 9. USPP# 12,824, EECPR# 9,217.

***Veronica* 'DARWIN'S BLUE'**. Originated by C. M. van den Aardwegh and assigned to Darwin Plants. Excellent dwarf cultivar with conical spires of rich purple-blue blooms atop dark-green foliage. Hardy from zone 4 to 8. USPP# 13,070, EECPR# 9,216.

***Veronica spicata* 'TICKLED PINK'**. Originated by Michael Farrow and assigned to The Conard-Pyle Co. A mutation of 'Goodness Grows' that retained all popular qualities of parent, but has vivid bubble gum pink coloured blooms. Hardy from zone 5 to 9. USPP# 13,070, EECPR# 9,216.



Rosa 'MEIVIOLIN' Eden Climber™
from The Conard-Pyle Company

GARDEN ROSES

Rosa

Originated by Meiland International and assigned to The Conard-Pyle Co.:

Eden Climber™ 'MEIVIOLIN' Fragrant old fashioned climber with buttercream blooms and deep green foliage. Floriferous. Grows to 3m (10') high and 1.5m (5') wide. Hardy from zone 6 to 9. USPP# 6,892, EECPR# 9,217.

Red Eden™ 'MEIDRASON' Vigorous climber with an abundance of bright crimson red flowers that contrast nicely with its dark foliage. Repeat bloomer. Grows to 3m (10') high and 1m (3') high. Hardy to zone 4. USPP# 6,892, EECPR# 9,217.

The Blushing Knock Out® 'RADYOD' Originated by Yoder Brothers Inc. and assigned to The Conard-Pyle Co. Light pink blooms. Flowers from spring until first hard frost. Excellent disease resistance. Tolerant of poor soils and extreme weather. Self cleaning. Grows to 0.9m (3') high and 1m (3') high. Hardy from zones 4 to 9.

CPBRA# 14,700.

WOODY PLANTS

Originated by James W. Zampini of Lake County Nursery Inc:

***Acer platanoides* 'CONZAM' Conquest™** Very narrow columnar sport of 'Crimson King'. Tight, dense branching structure. Vigorous yet compact upright growth habit. Grows to 10.6m (35') high and 2.5m (8') wide. Hardy to zone 4.

***Cornus alba* 'STDAZAM' Strawberry Daiquiri™** Unique variegated foliage stays uniform and consistent all season. Grows to 1.8m (6') high and wide. Hardy to zone 4.

***Cornus racemosa* 'GEAZAM' Geauga®** Naturally forms an easy to maintain dense and compact hedge. Fast growing and disease resistant. Grows to 3m (10') and 1.2m (4') wide. Hardy to zone 4.

***Euonymus alata* 'PIPZAM' Pipsqueak®** Compact and dwarf. Horizontal branching habit. Intense crimson-red fall foliage. Grows to 1.5m (5') high and 1.8m (6') wide. Hardy to zone 4.

***Malus* 'LOLLIZAM' Lollipop®** Neat and tidy slow growing dwarf with a tight, compact head of dense green foliage. Prolific bloomer with golden-amber fruit. Disease resistant. Grows to 2.5m (8') high and 2.5m (8') wide. Hardy to zone 4.

***Malus* 'SBRAZAM' Scarlet Brandywine™** Distinct and persistent fruit is a unique pumpkin colour and shape, holding onto the tree into the spring. Grows to 6m (20') high and 6m (20') wide. Hardy to zone 4.

***Pyracantha* 'CADVAR'** Originated by West End Nurseries and assigned to The Conard-Pyle Co. Attractive stable variegated foliage turns pink in winter. Good berry set. Excellent fire blight resistance. Grows to 1.2m (4') high and wide. Hardy from zone 6 to 9. USPP# 12,824, EECPR# 9,217.

***Pyrus calleryana* 'JACZAM' Jack®** Originated by James W. Zampini of Lake County Nursery Inc. Very dwarf, upright habit. Branching is tight and compact. Attractive rich glossy dark green foliage. Grows to 4.5m (15') high and 3m (10') wide. Hardy to zone 4.

***Syringa pekinensis* 'MORTON' China Snow®** Originated by The Morton Arboretum and assigned to Chicagoland Growers, Inc. Graceful, vase shaped habit. Vigorous, with dark green glossy foliage and creamy white flowers. Excellent pest and disease resistance. Grows to 7.6m (25') high and 6m (20') wide. Hardy from zone 5 to 7.

***Tilia americana* 'DUROS' True North™** Originated by Rick Durand of Prairie Shade Consulting Services. Upright crown form. Grows to 18m (60') high and 4.5m (15') wide. Hardy to zone 2.

***Ulmus davidiana* 'DISCOVERY' Discovery Elm®** Originated by Rick Durand of Prairie Shade Consulting Services. Upright crown form, with symmetrical branching. Resistant to Dutch elm disease and elm leaf beetle. Grows to 12m (40') high and 7.6m (25') wide. Hardy to zone 3. USPP# 10,558.

Viburnum dentatum

Originated by James W. Zampini of Lake County Nursery Inc.:

Blue Blaze™ 'BLUBZAM' Unusual dense rounded habit, with attractive gun metal-green foliage that has a distinctive deep-wine frost. Colour changes to red-purple in fall. Grows to 1.5m (5') high and 1.8m (6') wide. Hardy to zone 3.

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Study of Various Factors Influencing the Germination of Akenes of Roses and the Viability of Pollen

by MéliSSa Poulin, Agr., Claude Richer, Agr., and Jacques-André Rioux, Agr.
[translated from French by COPF office staff]

The genetic program for the roses of Agriculture and Agri-Food Canada (AAC) aims at obtaining hardy cultivars, disease resistance, easier propagation, reduced bloom initiation time and diverse colours. However, the weak rate of germination and irregularity of akene formation are two problems in the hybridization program. The problems are associated with the dormancy of akenes and the variation in the quality of pollen used.

The difficulties in germination of akenes are due in part to the dormancy state of the embryos and by the physical and mechanical restrictions of the thick pericarp. It was shown that the level of abscisic acid (ABA) found in akenes decreases with a cold treatment. A period of a few weeks with approximately 20°C in a moist substrate, followed by a few months at approximately 4°C., improves the rate of germination. Moreover, Voyiatzi et. al. (1999) highlighted the positive effect of scarification of akenes on the speed of germination. Scarification consisted of a sulphuric acid treatment, followed by steeping in water, then layering in sand.

The first part of this study aimed to determine the conditions most favourable to the reduction of the inhibiting effect of the pericarp on the germination of the akenes. Test plants were *Rosa multiflora*, *R. 'William Booth'* Explorer™, and *R. 'Charles Albanel'* Explorer™. Akenes, resulting from natural pollination were collected when the

hips matured at approximately 17 weeks. Four scarifying treatments were carried out and their effects compared with a pilot treatment. The four treatments were: 1) sandpapering the pericarp, 2) prolonged steeping in water with sandpapering, 3) prolonged steeping in water without sandpapering, and 4) steeping in sulphuric acid. After these treatments, the akenes were stratified for two months at 20°C., then two months at 4°C.

The different types of roses responded differently. Both varieties of Explorer roses had improved germination when steeped in water. In contrast, the akenes of *Rosa multiflora* were negatively affected by all the scarification treatments tested. Genetic factors and morphological characteristics, such as the thickness of the pericarp, can play a significant role in the capacity of akenes to germinate.

It appears that irregularity of the formation of akenes can be influenced by the viability of pollen used. It may be that the pollen is degraded at the time it is applied to the stigmata of emasculated flowers of the seedling female. The usual process is to collect the pollen throughout the summer, air dry it, then preserve the pollen in containers hermetically closed in the freezer at approximately 10°C.

During the summer, the viability of pollen evolves and is a function of the duration of flowering as well as the stage of development of flower parts. The pollen viability is also affected by poor storage conditions, which cause a deterioration of the glycoproteins which make up part of the outer

wall of the pollen grain. These substances have a very important role in germination, for example, in the recognition between the pollen and the stigmata tissues. The quality of rose pollen in storage is variable, but lower temperatures result in better viability.

The second part of the study had as its principle objectives to determine the floral stage during which the viability of the pollen is the best. Also, to establish the conditions of storage most favourable to maintaining viability, and to develop a simple test to determine viability. Three Explorer™ roses were used in the study: Champlain, Frontenac, and Nicolas were selected because of the quality of their pollination. The development of a control area, made it easier to note that the concentration of sucrose at 15% and pH of 5.6 supports the germination of the greatest number of pollen grains in two of the three varieties. The best conditions for the third variety were not significantly different from the other two. Pollen viability varies largely at one stage of flower development compared to another, and from one variety to another. Also, during the summer, the viability is at its best when the flowering is at its maximum. Pollen viability is also influenced by the kind of drying treatment and duration, and the temperature and humidity in storage. The response varies from one rose plant to another.

Although each variety had unique responses to the treatments, this study helped develop new techniques to guide hybridizers in their genetic programs for roses and to obtain improved germination rates.



Kniphofia 'ARIEL'S MAGIC'
from Monarch Landing Nursery

Hospitality Suite a Success

COPF held its first-ever hospitality suite at the Canadian Greenhouse Conference in October. Our staff sent over 1,000 invitations in advance to both members and non-members connected to the greenhouse industry in Ontario.

The attendance was considerable, including the Canadian sales staff of Ball Seed Company, newcomers and old timers in COPF, and many of the COPF Directors. Most in attendance took advantage of the opportunity to learn more about propagation rights in Canada, or to express their views on royalties.

A draw was made for the book on the Ontario Greenhouse Industry, [Floral Passion](#), and everyone seemed to really enjoy the hefty shrimp that were served.

We will be holding the suite again next year at the Greenhouse Conference, with plans to expand across the country in the coming years.

Working For You

During the past while, COPF has monitored and enforced breeders' rights in these ways:

- 250 monitoring visits to growers
- 28 potential members contacted and/or visited
- Number of collection phone calls made: 71
- Canadian growers discovered propagating without permission: 3
- Number of magazines monitored for ads and information: 55
- New plant registrations: 156
- Percentage of those registrations with PBR: 6%
- Number of infringement leads we've followed up on: 12
- Letters to growers who appear to be under reporting: 20
- Number of growers who agreed to stop under reporting: 4
- Reports to breeders: 20
- Number of royalty cheques provided: 22
- Amount of royalties distributed to breeders: \$318,410
- Expenses for January to March, 2004 were 93% of the budget

This information is provided so you can see what we've been doing. If there are other activities you'd like to see taken to make your market more level, please let me know. The Board of Directors and myself are always interested in your feedback.

All the best in 2005!

Peggy Walsh Craig,
COPF Managing Director

Where We're Headed

In September, 2004, industry leaders met with a facilitator to strategize for the future of COPF. Participants included Tom Intven (Chair, Long Range Planning), Todd Baker, Diane Surette, Geoff Needham, Tony Slack, Luce Daigneault, Isaac VanGeest, Janet MacLeod, Brenda Cole, David Turnbull, Karen Duquette and Peggy Walsh Craig.

After discussing our mission statement, strengths and weaknesses, the group and later the Board, came up with the following recommendations:

New Draft Mission Statement

"To provide effective solutions in the management of propagation rights for growers and breeders to the benefit of the horticulture industry."

Top Five Priorities

- Create and publicize a test case around a large scale infringer.
- Collect a high percentage of under-reported royalties.
- Finalize and implement new COPF membership structure to better suit the individual needs of the members.
- Further establish Plant Watch™, as a US non-profit organization.
- Increase communication to breeders regarding our monitoring program.

You will have the opportunity to discuss these priorities at our hospitality suite at the Greenhouse Conference, at our next annual meeting, or feel free to contact the office or Board members with your feedback. Contact information for all Board members is posted on our website, or call the office toll-free: 1-800-265-1629. All kinds of comments are welcome.

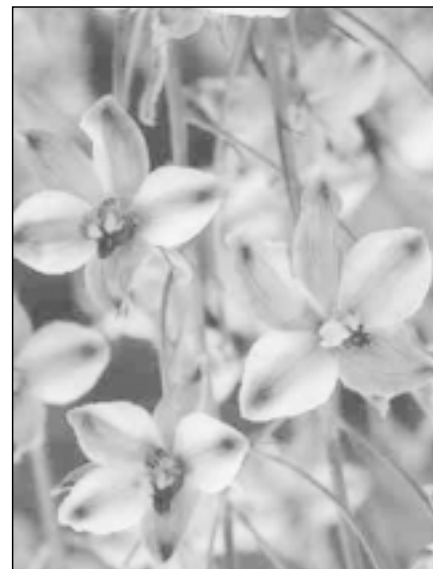
PBR Changes continued

New agent is Bioflora Inc. for **Calibrachoa** 'Illumination Blue' Starlette Trailing Blue and **C.** 'Illumination Rose' Starlette Trailing Rose.

Change of Applicant

Visioplant de Costa Rica S.A., Costa Rica as the former applicant for **Impatiens** 'Visinfblla' Infinity™ Blushing Lilac, **I.** 'Visinfchr' Infinity™ Cherry Red, **I.** 'Visinfdkp' Infinity™ Dark Pink, **I.** 'Visinfdsq' Infinity™ Dark Salmon Glow, **I.** 'Visinflapi' Infinity™ Light Salmon, **I.** 'Visinflav'

Infinity™ Lavender, **I.** 'Visinflila' Infinity™ Lilac, **I.** 'Visinflipu' Infinity™ Light Purple, **I.** 'Visinforan' Infinity™ Orange, **I.** 'Visinforfr' Infinity™ Orange Frost, **I.** 'Visinfpifr' Infinity™ Pink Frost, **I.** 'Visinfpiki' Infinity™ Pink Kiss, **I.** 'Visinfpink' Infinity™ Pink, **I.** 'Visinfred' Infinity™ 'Red, **I.** 'Visinfsal' Infinity™ Salmon, **I.** 'Visinfsar' Infinity™ Scarlet and **I.** 'Visinfwhi' Infinity™ White. New Applicant Ludwig Kientzler, Germany.



Delphinium 'DELPHIRES' Delphi™
from Darwin Plants



Tradescantia andersoniana 'PINK CHABLIS'
from Darwin Plants

New Plants continued

Raspberry Tart™ 'RASTZAM' Exceptionally showy raspberry-red foliage. Compact dwarf habit. Durable with ability to flourish under harsh growing conditions. Grows to 1.5m (5') high and wide. Hardy to zone 3.

Weigela 'VAMPIRE' Originated by Jean-Francois Devoyault of Au Jardin de Jean-Pierre Enr. Hardy with excellent purple foliage. Velvety red blooms. Grows 1m (3') high and wide. Hardy to zone 3b.