



APPLICATIONS UNDER EXAMINATION

BLUEBERRY

BLUEBERRY
(Vaccinium)

Proposed denomination: 'FC12-029'
Trade name: Sapphire Cascade
Application number: 21-10437
Application date: 2021/02/16
Applicant: The Conard-Pyle Company, West Grove, Pennsylvania, United States of America
Agent in Canada: BioFlora Inc., St. Thomas, Ontario
Breeder: David M. Brazelton, Waltherville, Oregon, United States of America
 Adam L. Wagner, Eugene, Oregon, United States of America

Variety used for comparison: 'ZF08-095' (Berry Bux)

Summary: *The plants of 'FC12-029' have strong vigour with an arching growth habit whereas the plants of 'ZF08-095' have medium vigour with an upright growth habit. The plants of 'FC12-029' are wider than the plants of 'ZF08-095'. The fruit of 'FC12-029' is wider than the fruit of 'ZF08-095'. The calyx basin of 'FC12-029' is wider than that of 'ZF08-095'.*

Description:

PLANT: strong vigour, arching growth habit, fruiting on one-year-old and current season's shoots, first vegetative bud burst begins very early

ONE-YEAR-OLD SHOOT: green

LEAF: early leaf dark brown green (RHS 147A), medium length to width ratio, elliptic shape, medium intensity green colour on upper side, entire margin

FLOWERING: begins mid to late season on current season and one-year-old shoots

FLOWER BUD: weak to medium intensity of anthocyanin colouration

COROLLA: urceolate shape, small, weak to medium intensity of anthocyanin colouration

COROLLA TUBE: ridges present

FRUIT CLUSTER: sparse density

UNRIPE FRUIT: light green (with bloom), fruit ripening begins mid-season on one-year-old shoots

FRUIT: medium sized, round in longitudinal section, shallow calyx basin, medium firm, medium sweetness, low acidity

FRUIT SKIN: strong bloom intensity, dark blue skin (after removal of bloom)

SEPALS: semi-erect and incurving

Origin and Breeding: 'FC12-029' (Sapphire Cascade) originated from a controlled cross between proprietary female parent 'NC-4339' and proprietary male parent 'ZF09-246' conducted in Lowell, Oregon, USA in May 2010. The new variety 'FC12-029' was selected in Lowell Oregon, USA in July 2012 based on plant vigour, plant habit, leaf colour, and fruit production. Asexual reproduction by stem cutting was initiated in Lowell, Oregon, USA in 2012.

Tests and Trials: The comparative trial for 'FC12-029' was conducted in an outdoor container trial during the summer of 2023 at Bioflora Inc., in St. Thomas, Ontario. The trial included a total of 8 plants each of the candidate variety and reference variety. All plants were grown in 3 gallon (11 litre) pots from summer 2021 to summer 2023. The plants were overwintered in a plus zero heated polyhouse and moved outdoors in the spring to a drip irrigated field arranged in rows with approximately 1 metre spacing between plants. Observations and measurements were taken from all plants of each variety throughout the growing season. Mean differences were significant at the 5% confidence probability level based on a paired Student's t-test. All colour determinations were made using the 2015 Royal Horticultural Society (RHS) Colour Chart.

Comparison table for 'FC12-029'

'FC12-029'	'ZF08-095'*
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Plant width (cm)

mean	80.5	45.6
std. deviation	13.77	5.38

Fruit width (mm)

mean	11.9	9.3
std. deviation	0.56	0.41

Calyx basin diameter (mm)

mean	5.5	2.9
std. deviation	0.69	0.25

*reference variety



FC12-029

ZF08-095

Blueberry: 'FC12-029' (left) with reference variety 'ZF08-095' (right)

BLUEBERRY
(*Vaccinium corymbosum*)

Proposed denomination: ‘DrisBlueTwentyThree’
Trade name: Rosita
Application number: 20-10341
Application date: 2020/02/03 (priority claimed)
Applicant: Driscoll’s, Inc., Watsonville, California, United States of America
Agent in Canada: Lavery, De Billy, S.E.N.C.R.L. - LLP, Montreal, Quebec
Breeder: Bruce D. Mowrey, Driscoll’s, Inc., Watsonville, California, United States of America
 Marta C. Baptista, Driscoll’s, Inc., Watsonville, California, United States of America
 Raymond L. Jacobs III, Driscoll’s Inc., Watsonville, California, United States of America
 Esther Kibbe, Driscoll’s, Inc., Watsonville, California, United States of America
 James Olmstead, Driscoll’s, Inc., Watsonville, California, United States of America
 Sarah Wool, Driscoll’s, Inc., Watsonville, California, United States of America

Note: The applicant has requested an exemption from compulsory licensing to allow time to multiply and distribute propagating material of the variety. If the exemption is granted, it may be allowed for two years from the date rights are granted for the variety.

Varieties used for comparison: ‘DrisBlueSeven’ (Stella Blue) and ‘DrisBlueTwentyTwo’ (Regina)

Summary: *The leaf of ‘DrisBlueTwentyThree’ is elliptic shaped whereas the leaf of ‘DrisBlueSeven’ is lanceolate shape. The flower bud of ‘DrisBlueTwentyThree’ has a weak intensity of anthocyanin colouration whereas that of ‘DrisBlueSeven’ has a very strong intensity of anthocyanin colouration. The corolla of ‘DrisBlueTwentyThree’ is campanulate shaped whereas the corolla of ‘DrisBlueSeven’ is ellipsoid shaped and that of ‘DrisBlueTwentyTwo’ is globose shaped. The fruit of ‘DrisBlueTwentyThree’ has a medium sweetness whereas the fruit of ‘DrisBlueSeven’ has a high sweetness.*

Description:

PLANT: medium vigour, upright growth habit, fruiting on one-year-old shoots only, first vegetative bud burst begins early to mid-season

ONE-YEAR-OLD SHOOT: reddish yellow, short to medium internode length along upper half

LEAF: medium length to width ratio, elliptic shape, medium green colour on upper side, medium glaucosity on upper side, entire margin

FLOWERING: begins very early to early on one-year-old shoots

RECEPTACLE: blue

FLOWER BUD: weak intensity of anthocyanin colouration

COROLLA: campanulate shaped

COROLLA TUBE: small to medium sized, white, absent or weak intensity of anthocyanin colouration on outer side, absent or weak conspicuousness of ridges

INFRUCTESCENCE: sparse

UNRIPE FRUIT: light to medium intensity green (with bloom), fruit ripening begins mid to late season on one-year-old shoots

FRUIT: medium size, oblate in longitudinal section, medium deep calyx basin, firm, medium sweetness, medium to high acidity

FRUIT SKIN: medium bloom intensity, dark blue skin (after removal of bloom)

SEPALS: reflexe

Origin and Breeding: ‘DrisBlueTwentyThree’ originated from a controlled cross between the unpatented female parent ‘196H-3’ and the unpatented male parent ‘75J301’ made in February 2011 in Santa Cruz County, California, USA. ‘DrisBlueTwentyThree’ was selected from the resulting progeny in Hillsborough County, Florida, USA in April 2013 for fruit taste, fruit texture, fruit size, evergreening of the plant and time of harvest. The original seedling of the new variety was

propagated by softwood cuttings in Santa Cruz County, California in July 2013. Additional propagation was conducted by softwood cuttings and tissue culture and further testing occurred in Ventura County, California, USA from 2014 to 2019.

Tests and Trials: The comparative trial for ‘DrisBlueTwentyThree’ was conducted by Expert Agriculture Team Ltd., in Chilliwack, British Columbia, Canada during the 2023 growing season. One year old plants were transplanted in April 2021 into raised beds, covered with plastic mulch and irrigated with drip lines. The plots were arranged in an RBC design with 4 replicates. Each replicate consisted of 3 plants for a total of 12 plants of each variety. Plants were spaced approximately 90 centimetres apart within rows with 3 metres between rows. Measurements were taken from 10 plants or parts of 10 plants of each variety.



DrisBlueSeven (Stella Blue) **DrisBlueTwentyThree (Rosita)** **DrisBlueTwentyTwo (Regina)**

Blueberry: ‘DrisBlueTwentyThree’ (centre) with reference varieties ‘DrisBlueSeven’ (left) and ‘DrisBlueTwentyTwo’ (right)



DrisBlueSeven (Stella Blue) **DrisBlueTwentyThree (Rosita)** **DrisBlueTwentyTwo (Regina)**

Blueberry: ‘DrisBlueTwentyThree’ (centre) with reference varieties ‘DrisBlueSeven’ (left) and ‘DrisBlueTwentyTwo’ (right)



DrisBlueSeven **DrisBlueTwentyThree** **DrisBlueTwentyTwo**
(Stella Blue) **(Rosita)** **(Regina)**

Blueberry: 'DrisBlueTwentyThree' (centre) with reference varieties 'DrisBlueSeven' (left) and 'DrisBlueTwentyTwo' (right)

Proposed denomination: 'Katahdin'
Application number: 19-9998
Application date: 2019/09/13
Applicant: The Board of Trustees of Michigan State University, East Lansing, Michigan, United States of America
Agent in Canada: BioFlora Inc., St. Thomas, Ontario
Breeder: James F. Hancock, Michigan State University, East Lansing, Michigan, United States of America

Varieties used for comparison: 'Duke', 'Legacy' and 'Draper'

Summary: *The one-year-old shoot of 'Katahdin' is greyish-red, whereas the one-year-old shoots of 'Duke' and 'Legacy' are green, and 'Draper' is reddish-yellow. The leaf of 'Katahdin' has a low to medium length to width ratio whereas the leaves of 'Duke' and 'Legacy' have a medium to high length to width ratio. The upperside of the leaf of 'Katahdin' has strong glaucosity whereas the upperside of the leaves of 'Duke' and 'Draper' have absent or weak glaucosity.*

Description:

PLANT: strong vigour, upright growth habit, fruiting on one-year-old shoots only, first vegetative bud burst begins early to mid-season

ONE-YEAR-OLD SHOOT: greyish red, long internode length along upper half

LEAF: low to medium length to width ratio, ovate shape, medium green colour on upper side, strong glaucosity on upper side, entire margin

FLOWERING: begins early on one-year-old shoots

RECEPTACLE: green

FLOWER BUD: strong intensity of anthocyanin colouration

COROLLA: globose shape

COROLLA TUBE: medium to large, white, absent or weak intensity of anthocyanin colouration on outer side, strong conspicuousness of ridges

INFRUCTESCENCE: medium to dense

UNRIPE FRUIT: dark green (with bloom), fruit ripening begins early on one-year-old shoots

FRUIT: large, oblate in longitudinal section, very deep calyx basin, very firm, high sweetness, medium to high acidity

FRUIT SKIN: medium bloom intensity, dark blue skin (after removal of bloom)

SEPALS: reflexe

Origin and Breeding: ‘Katahdin’ originated from a controlled cross between the varieties ‘MSU 46’, as the female parent, and ‘Draper’, as the male parent, made in 2004 in Southwest Michigan Research and Extension Center, Michigan, USA. ‘Katahdin’ was selected from the resulting progeny in 2009 for its productivity and fruit quality. Additional propagation was conducted by softwood cuttings and further testing occurred in 2011.

Tests and Trials: The comparative trial for ‘Katahdin’ was conducted by Expert Agriculture Team Ltd., in Chilliwack, British Columbia, Canada during the 2023 growing season. One year old plants were transplanted in April 2022 into raised beds, covered with plastic and irrigated with drip lines. The plots were arranged in an RBC design with 4 replicates. Each replicate consisted of 3 plants for a total of 12 plants of each variety. Plants were spaced approximately 90 centimetres apart within rows with 3 metres between rows. Measurements were taken from 10 plants or parts of 10 plants of each variety.



Duke

Katahdin

Legacy

Draper

Blueberry: ‘Katahdin’ (centre left) with reference varieties ‘Duke’ (left), ‘Legacy’ (centre right) and ‘Draper’ (right)

Proposed denomination: ‘ZF06-089’
Trade name: Silver Dollar
Application number: 21-10439
Application date: 2021/02/16
Applicant: The Conard-Pyle Company, West Grove, Pennsylvania, United States of America
Agent in Canada: BioFlora Inc., St. Thomas, Ontario
Breeder: David M. Brazelton, Walthamville, Oregon, United States of America
 Adam L. Wagner, Eugene, Oregon, United States of America

Variety used for comparison: ‘ZF06-043’ (Peach Sorbet)

Summary: *The plants of ‘ZF06-089’ are wider than the plants of ‘ZF06-043’. The diameter of the calyx basin for ‘ZF06-089’ is larger than that of ‘ZF06-043’. The fruit of ‘ZF06-089’ is firm with high sweetness whereas the fruit of ‘ZF06-043’ is of medium firmness with low sweetness.*

Description:

PLANT: medium vigour, semi-upright growth habit, fruiting on one-year-old and current season’s shoots, first vegetative bud burst begins very early

ONE-YEAR-OLD SHOOT: green

LEAF: early leaf closest to but darker than dark brown green (RHS 146A), medium length to width ratio, elliptic shape, medium intensity green colour on upper side, entire margin

FLOWERING: begins mid to late season on current season and one-year-old shoots

FLOWER BUD: medium intensity of anthocyanin colouration

COROLLA: urceolate shape, small, medium intensity of anthocyanin colouration

COROLLA TUBE: ridges present

FRUIT CLUSTER: medium density

UNRIPE FRUIT: light medium green (with bloom), fruit ripening begins early to mid-season on one-year-old shoots

FRUIT: medium sized, oblate in longitudinal section, shallow calyx basin, firm, high sweetness, low acidity

FRUIT SKIN: very strong bloom intensity, dark blue skin (after removal of bloom)

SEPALS: erect to semi-erect and straight to reflexing

Origin and Breeding: ‘ZF06-089’ (Silver Dollar) originated from a controlled cross between female parent ‘Toro’ and male parent ‘FLX-2’ conducted in Lowell, Oregon, USA in April 2003. The new variety ‘ZF06-089’ was selected in Lowell Oregon, USA in July 2008 based on plant vigour, plant habit, and flower and leaf colour. Asexual reproduction by stem cutting was initiated in Lowell, Oregon, USA in 2012.

Tests and Trials: The comparative trial for ‘ZF06-089’ was conducted in an outdoor container trial during the summer of 2023 at Bioflora Inc., in St. Thomas, Ontario. The trial included a total of 8 plants each of the candidate variety and reference variety. All plants were grown in 3 gallon (11 litre) pots from summer 2021 to summer 2023. The plants were overwintered in a plus zero heated polyhouse and moved outdoors in the spring to a drip irrigated field arranged in rows with approximately 1 metre spacing between plants. Observations and measurements were taken from all plants of each variety throughout the growing season. Mean differences were significant at the 5% confidence probability level based on a paired Student’s t-test. All colour determinations were made using the 2015 Royal Horticultural Society (RHS) Colour Chart.

Comparison table for ‘ZF06-089’

	‘ZF06-089’	‘ZF06-043’*
<i>Plant width (cm)</i>		
mean	69.9	53.7
std. deviation	4.42	7.16
<i>Calyx basin width diameter (mm)</i>		
mean	8.27	6.50
std. deviation	0.88	0.61

*reference variety



ZF06-089

ZF06-043

Blueberry: 'ZF06-089' (left) with reference variety 'ZF06-043' (right)