



APPLICATIONS UNDER EXAMINATION

BLUEBERRY

BLUEBERRY (*Vaccinium corymbosum*)

Proposed denomination:	'BB06-507MI-52'
Trade name:	Envoy
Application number:	18-9595
Application date:	2018/08/01
Applicant:	Berry Blue, LLC, Grand Junction, Michigan, United States of America
Agent in Canada:	Nexus Law Group LLP, Vancouver, British Columbia
Breeder:	Edmund J. Wheeler, Holland, Michigan, United States of America James F. Hancock, East Lansing, Michigan, 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: 'Draper' and 'Duke'

Summary: *The plants of 'BB06-507MI-52' have an upright growth habit whereas the plants of 'Draper' have a semi-upright growth habit. The one-year-old shoot of 'BB06-507MI-52' is dark red whereas the one-year-old shoot of 'Duke' is reddish brown. Flowering on the one-year-old shoots of 'BB06-507MI-52' begins mid-season whereas flowering begins late in the season for the reference varieties. The fruit of 'BB06-507MI-52' is medium to large whereas the fruit of 'Duke' is small to medium sized. The fruit of 'BB06-507MI-52' has a smaller diameter calyx basin than that of 'Duke'. The calyx basin on the fruit of 'BB06-507MI-52' is medium to deep whereas it is shallow to medium on the fruit of 'Duke'. The fruit of 'BB06-507MI-52' is firm whereas the fruit of 'Duke' is of medium firmness. The fruit of 'BB06-507MI-52' is high in sweetness whereas the fruit of 'Draper' is medium in sweetness.*

Description:

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

ONE-YEAR-OLD SHOOT: dark red, medium length internodes along upper half

LEAF: medium length to width ratio, ovate shape, medium to dark green on upper side, entire margin

FLOWERING: begins mid-season on one-year-old shoots

FLOWER BUD: medium intensity of anthocyanin colouration

COROLLA: urceolate shape

COROLLA TUBE: medium size, absent or very weak intensity of anthocyanin colouration, ridges present

FRUIT CLUSTER: sparse to medium density

UNRIPE FRUIT: medium intensity of green colour (with bloom), ripening begins mid-season on one-year-old shoots

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

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

SEPALS: erect attitude, straight type

Origin and Breeding: 'BB06-507MI-52' originated from a cross conducted in 2006, in Grand Junction, Michigan, USA, between the variety 'Draper', as the female parent, and the variety 'Brigitta', as the male parent. The resulting plants were grown for 18 months before being planted in a seedling evaluation plot in South Haven, Michigan, in 2008. After 2 years of evaluation, 'BB06-507MI-52' was initially selected in 2010 for its maturity date, fruit size, fruit quality and storage ability. In 2011 and 2012, vegetative cuttings of 'BB06-507MI-52' were advanced to test plots in South Haven, Bloomingdale and Muskegon, Michigan and further observed from 2013 to 2015.

Tests and Trials: The comparative trial for 'BB06-507MI-52' was conducted in Maple Ridge, British Columbia, Canada during the 2021 growing season. In the fall of 2018, 25 plants of each variety were transplanted into individual rows with 3 metres between the rows. Plants were spaced 1 metre apart within the row. Measurements were taken from 12 plants or parts of 12 plants of each variety. Mean differences were significant at the 5% confidence probability level based on a paired Student's t-test.

Comparison table for 'BB06-507MI-52'

	'BB06-507MI-52'	'Draper'*	'Duke'*
Diameter of calyx basin (cm)			
mean	0.67	0.64	0.82
std. deviation	0.05	0.05	0.06

*reference varieties



Blueberry: 'BB06-507MI-52' (centre) with reference varieties 'Duke' (left) and 'Draper' (right)

Proposed denomination:	'DrisBlueEighteen'
Application number:	19-9855
Application date:	2018/09/12 (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:	Brian K. Caster, Driscoll's, Inc., Watsonville, California, United States of America Jennifer K. Izzo, 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: 'Legacy' and 'DrisBlueOne'

Summary: *The time of first vegetative bud burst begins mid to late season for 'DrisBlueEighteen' whereas it begins early to mid-season for the reference varieties. The one-year-old shoot of 'DrisBlueEighteen' is reddish yellow whereas the one-year-old shoot of 'Legacy' is green. Along the upper half of the one-year-old shoots, the internodes are long for 'DrisBlueEighteen' whereas the internodes are short for 'Legacy' and of medium length for 'DrisBlueOne'. The leaf of 'DrisBlueEighteen' is shorter than that of 'Legacy'. The leaf of 'DrisBlueEighteen' is lanceolate in shape whereas it is elliptic for 'DrisBlueOne'. Flowering on one-year-old shoots begins mid-season to late season for 'DrisBlueEighteen' whereas it begins very late for 'DrisBlueOne'. The inflorescence of 'DrisBlueEighteen' is longer than that of 'DrisBlueOne'. The corolla of 'DrisBlueEighteen' is cylindrical in shape whereas it is globose for 'DrisBlueOne' and ovoid for 'Legacy'.*

'DrisBlueEighteen' has a medium sized corolla whereas *'Legacy'* has a large corolla. The conspicuousness of the ridges on the corolla tube of *'DrisBlueEighteen'* is medium whereas the conspicuousness of the ridges is absent or weak for *'Legacy'* and strong for *'DrisBlueOne'*. *'DrisBlueEighteen'* has a medium to large fruit whereas *'DrisBlueOne'* has a small to medium sized fruit. In longitudinal section, the fruit of *'DrisBlueEighteen'* is circular in shape whereas it is oblate for *'Legacy'*. The acidity of the fruit of *'DrisBlueEighteen'* is high whereas it is of medium acidity for the reference varieties.

Description:

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

ONE-YEAR-OLD SHOOT: reddish yellow, long internodes along upper half

LEAF: medium length to width ratio, lanceolate shape, light green colour on upper side, absent or weak to medium glaucosity on upper side, entire margin

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

RECEPTACLE: blue

FLOWER BUD: very strong intensity of anthocyanin colouration

COROLLA: cylindrical shape

COROLLA TUBE: medium size, white, absent or very weak intensity of anthocyanin colouration on outer side, medium conspicuousness of ridges

INFRUCTESCENCE: medium density

UNRIPE FRUIT: dark intensity of green colour (with bloom), ripening begins early to mid-season on one-year-old shoots

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

FRUIT SKIN: medium to strong bloom intensity, light blue skin (after removal of bloom)

SEPALS: straight

Origin and Breeding: *'DrisBlueEighteen'* originated from a cross between the proprietary varieties *'136D 2'*, as the female parent, and *'181C 1'*, as the male parent, made in 2004 in Santa Cruz County, California, USA. *'DrisBlueEighteen'* was selected from the resulting progeny in 2006 in Santa Cruz County, California, USA for its chilling requirement, vigour as well as fruit size, firmness, sweetness and appearance. Subsequent asexual propagation by softwood cuttings took place in Santa Cruz County, California, USA. Further testing was conducted from 2008 to 2017.

Tests and Trials: The comparative trial for *'DrisBlueEighteen'* was conducted by Expert Agriculture Team Ltd., in Chilliwack, British Columbia during the 2021 growing season. One-year-old plants were transplanted in October 2019 in 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. Mean differences were significant at the 5% confidence probability level based on a paired Student's t-test.

Comparison table for 'DrisBlueEighteen'

	'DrisBlueEighteen'	'Legacy'*	'DrisBlueOne'*
<i>Leaf length (cm)</i>			
mean	5.05	5.67	5.06
std. deviation	0.39	0.37	0.26
<i>Inflorescence length (excluding peduncle) (cm)</i>			
mean	2.21	2.44	1.37
std. deviation	0.23	0.18	0.13

*reference varieties



DrisBlueEighteen (Cassidy)

Legacy

DrisBlueOne (Rockinoee)

Blueberry: 'DrisBlueEighteen' (left) with reference varieties 'Legacy' (centre) and 'DrisBlueOne' (right)



Legacy

DrisBlueEighteen (Cassidy)

DrisBlueOne (Rockinoee)

Blueberry: 'DrisBlueEighteen' (centre) with reference varieties 'Legacy' (left) and 'DrisBlueOne' (right)



DrisBlueEighteen
(Cassidy)

Legacy

DrisBlueOne
(Rockinoee)

Blueberry: 'DrisBlueEighteen' (left) with reference varieties 'Legacy' (centre) and 'DrisBlueOne' (right)

Proposed denomination: 'DrisBlueNineteen'
Trade name: Corrina
Application number: 19-9934
Application date: 2018/10/16 (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: Brian D. Mowrey, Driscoll's Inc., Watsonville, California, United States of America
 Esther Kibbe, Driscoll's, Inc., Watsonville, California, United States of America
 Marta C. Baptista, Driscoll's, Inc., Watsonville, California, United States of America
 Jennifer K. Izzo, Driscoll's, Inc., Watsonville, California, United States of America
 Brian K. Caster, Driscoll's, Inc., Watsonville, California, United States of America
 Arturo Garcia, 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' and 'Biloxi'

Summary: *The plants of 'DrisBlueNineteen' have an upright growth habit whereas the plants of the reference varieties have a semi-upright growth habit. The leaf of 'DrisBlueNineteen' is larger than the leaf of 'Biloxi'. The glaucosity on the upper side of the leaf of 'DrisBlueNineteen' is absent or weak whereas the leaf of both reference varieties have a medium degree of glaucosity on the upper side. The corolla of 'DrisBlueNineteen' is cylindric in shape whereas it is ellipsoid for 'DrisBlueSeven' and globose for 'Biloxi'. The conspicuousness of the ridges on the corolla tube of 'DrisBlueNineteen' is absent or weak whereas the conspicuousness of the ridges is strong on the corolla tube of the reference varieties. 'DrisBlueNineteen' has medium sized fruit whereas 'DrisBlueSeven' has large fruit. The acidity of the fruit of 'DrisBlueNineteen' is low whereas it is of medium acidity for 'DrisBlueSeven'.*

Description:

PLANT: very 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: reddish yellow, medium length internodes along upper half

LEAF: medium to high length to width ratio, lanceolate shape, light green colour on upper side, absent or weak glaucosity on upper side, entire margin

FLOWERING: begins late season on one-year-old shoots

RECEPTACLE: blue

FLOWER BUD: very strong intensity of anthocyanin colouration

COROLLA: cylindrical shape

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

INFRUCTESCENCE: sparse to medium density

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

FRUIT: medium size, circular in longitudinal section, deep calyx basin, very firm, high sweetness, low acidity

FRUIT SKIN: weak to medium bloom intensity, light blue skin (after removal of bloom)

SEPALS: reflexed

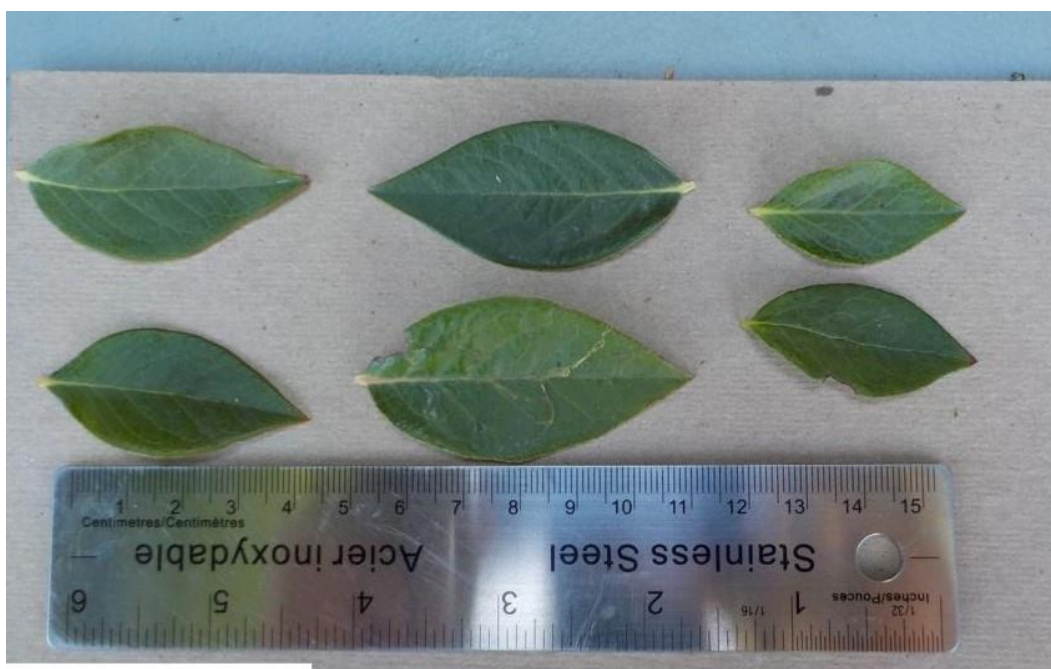
Origin and Breeding: ‘DrisBlueNineteen’ originated from a cross between the proprietary varieties ‘DrisBlueSeven’, as the female parent, and ‘193C 4’, as the male parent, made in February 2009 in Santa Cruz County, California, USA. ‘DrisBlueNineteen’ was selected from the resulting progeny in 2011 in Hillsborough County, Florida, USA as an early-season evergreen with no apparent chilling requirement and for its fruit volume and fruit quality. Subsequent asexual propagation by softwood cuttings and tissue culture took place in Santa Cruz County, California, USA. Further testing in both Santa Cruz County, California and Hillsborough County, Florida was conducted from 2013 to 2017.

Tests and Trials: The comparative trial for ‘DrisBlueNineteen’ was conducted by Expert Agriculture Team Ltd., in Chilliwack, British Columbia, Canada during the 2021 growing season. One year old plants were transplanted in October 2019 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. Mean differences were significant at the 5% confidence probability level based on a paired Student’s t-test.

Comparison table for ‘DrisBlueNineteen’

	‘DrisBlueNineteen’	‘DrisBlueSeven’*	‘Biloxi’*
<i>Leaf length (cm)</i>			
mean	5.06	5.43	4.05
std. deviation	0.34	0.24	0.35
<i>Leaf width (cm)</i>			
mean	2.32	2.27	1.84
std. deviation	0.14	0.25	0.16

*reference varieties



DrisBlueNineteen
(Corrina)

DrisBlueSeven
(Stella Blue)

Biloxi

Blueberry: 'DrisBlueNineteen' (left) with reference varieties 'DrisBlueSeven' (centre) and 'Biloxi' (right)

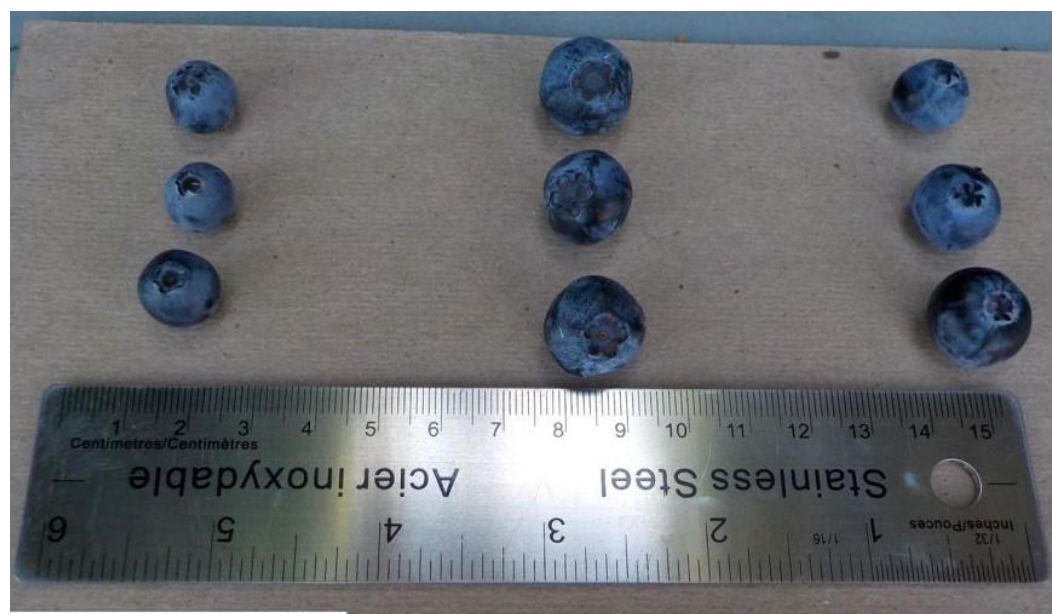


DrisBlueNineteen (Corrina)

DrisBlueSeven (Stella Blue)

Biloxi

Blueberry: 'DrisBlueNineteen' (left) with reference varieties 'DrisBlueSeven' (centre) and 'Biloxi' (right)



DrisBlueNineteen
(Corrina)

DrisBlueSeven
(Stella Blue)

Biloxi

Blueberry: 'DrisBlueNineteen' (left) with reference varieties 'DrisBlueSeven' (centre) and 'Biloxi' (right)

Proposed denomination: 'DrisBlueSixteen'
Application number: 19-9728
Application date: 2018/09/13 (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: Brian K. Caster, Driscoll's, Inc., Watsonville, California, United States of America
 Jennifer K. Izzo, Driscoll's, Inc, Watsonville, California, United States of America
 Marta C. Baptista, Driscoll's, Inc., Watsonville, California, United States of America
 Brian D. Mowrey, 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: 'DrisBlueOne' and 'DrisBlueSeven'

Summary: *The plants of 'DrisBlueSixteen' have very strong vigour whereas the plants of the reference varieties have medium to strong vigour. The plants of 'DrisBlueSixteen' have an upright growth habit whereas the plants of 'DrisBlueSeven' have a semi-upright growth habit. The leaf of 'DrisBlueSixteen' is larger than the leaf of both reference varieties. The leaf of 'DrisBlueSixteen' is lanceolate in shape whereas it is elliptic for 'DrisBlueOne'. Flowering on one-year-old shoots begins mid-season for 'DrisBlueSixteen' whereas it begins late season for 'DrisBlueSeven' and very late in the season for 'DrisBlueOne'. Excluding the peduncle, the inflorescence of 'DrisBlueSixteen' is longer than that of 'DrisBlueOne'. The anthocyanin colouration on the outer side of the corolla tube of 'DrisBlueSixteen' is of a medium intensity whereas it is absent or very weak for the reference varieties. The bloom on fruit of 'DrisBlueSixteen' is of a weak to medium intensity whereas the intensity of the bloom is strong on the fruit of 'DrisBlueOne'. Fruit ripening on one-year-old shoots begins early in the season for 'DrisBlueSixteen' whereas it begins mid-season for 'DrisBlueOne'.*

Description:

PLANT: very 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: reddish yellow, medium length internodes along upper half

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

FLOWERING: begins mid-season on one-year old shoots

RECEPTACLE: blue

FLOWER BUD: medium intensity of anthocyanin colouration

COROLLA: ellipsoid shape

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

INFRUCTESCENCE: medium density

UNRIPE FRUIT: dark intensity of green colour (with bloom), ripening begins early in the season on one-year-old shoots

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

FRUIT SKIN: weak to medium bloom intensity, light blue skin (after removal of bloom)

SEPALS: straight

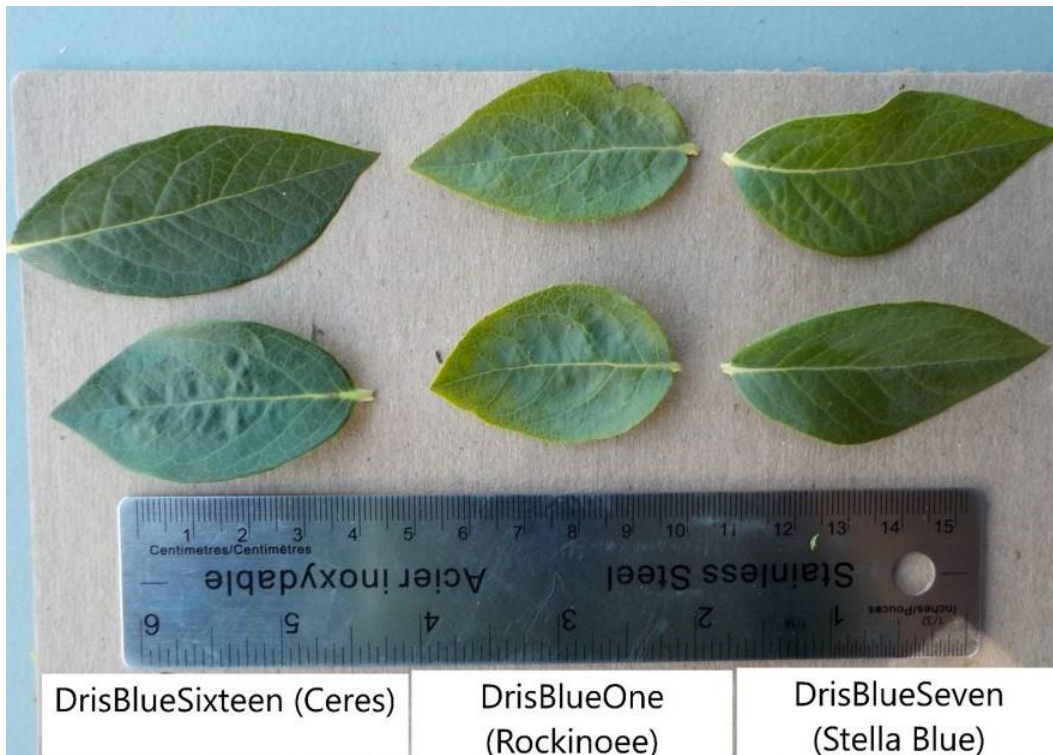
Origin and Breeding: ‘DrisBlueSixteen’ originated from a cross between the proprietary varieties ‘127D 2’, as the female parent, and ‘DrisBlueOne’, as the male parent, made in 2005 in Santa Cruz County, California, USA. ‘DrisBlueSixteen’ was selected from the resulting progeny in 2009 in Santa Cruz County, California, USA for its flowering and fruiting time on current season’s shoots, fruit size, fruit flavor and plant growth habit. Subsequent asexual propagation by softwood cuttings took place in Santa Cruz County, California, USA. Further testing was conducted in Santa Cruz County and Ventura County, California from 2009 to 2017.

Tests and Trials: The comparative trial for ‘DrisBlueSixteen’ was conducted by Expert Agriculture Team Ltd., in Chilliwack, British Columbia, Canada during the 2021 growing season. One-year-old plants were transplanted in October 2019 into raised beds, covered with plastic and drip 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. Mean differences were significant at the 5% confidence probability level based on a paired Student’s t-test.

Comparison table for ‘DrisBlueSixteen’

	‘DrisBlueSixteen’	‘DrisBlueOne’*	‘DrisBlueSeven’*
<i>Leaf length (cm)</i>			
mean	6.44	5.06	5.43
std. deviation	0.68	0.26	0.24
<i>Leaf width (cm)</i>			
mean	3.71	3.07	2.27
std. deviation	0.46	0.13	0.25
<i>Inflorescence length (excluding peduncle) (cm)</i>			
mean	1.85	1.37	1.83
std. deviation	0.23	0.13	0.30

*reference varieties



Blueberry: 'DrisBlueSixteen' (left) with reference varieties 'DrisBlueOne' (centre) and 'DrisBlueSeven' (right)



Blueberry: 'DrisBlueSixteen' (left) with reference varieties 'DrisBlueOne' (centre) and 'DrisBlueSeven' (right)



DrisBlueSixteen (Ceres)

DrisBlueOne
(Rockinoee)

DrisBlueSeven
(Stella Blue)

Blueberry: 'DrisBlueSixteen' (left) with reference varieties 'DrisBlueOne' (centre) and 'DrisBlueSeven' (right)