



APPLICATIONS UNDER EXAMINATION

YEW

YEW

(*Taxus × media*)

Proposed denomination: 'SMNTHDB'
Trade name: Stonehenge Dark Druid
Application number: 20-10220
Application date: 2020/05/13
Applicant: Spring Meadow Nursery, Inc., Grand Haven, Michigan, United States of America
Agent in Canada: BioFlora Inc., St. Thomas, Ontario
Breeder: Timothy D. Wood, Spring Lake, Michigan, United States of America

Varieties used for comparison: 'SMNTHDPF' (Stonehenge Skinny) and 'SMNTHDC' (Stonehenge)

Summary: *The plants of 'SMNTHDB' have a globose shape while those of both reference varieties have a columnar shape. The plants of 'SMNTHDB' are wider than those of both reference varieties. The branches of 'SMNTHDB' have a semi-erect growth habit while those of both reference varieties have an erect growth habit. The first order branchlet of 'SMNTHDB' is shorter than that of 'SMNTHDC'. The second order branchlet of 'SMNTHDB' is narrower than that of 'SMNTHDPF' and larger than that of 'SMNTHDC'. The prominence of the midrib on the upper side of the leaf blade for 'SMNTHDB' is strong while that of 'SMNTHDPF' is medium and that of 'SMNTHDC' is weak to medium. The upper side of the leaf blade for 'SMNTHDB' has light green variegation at the tip of the margin only while there is yellow variegation at the tip for 'SMNTHDPF' and no variegation for 'SMNTHDC'. The lower side of the leaf blade of 'SMNTHDB' is light green while it is medium green to grey-green for 'SMNTHDC'.*

Description:

PLANT: evergreen, globose shape, slow growth rate, medium density of foliage

BRANCHES: high density, medium stiffness, semi-erect growth habit, brown bark

BRANCHLET OF FIRST ORDER: dense, semi-erect growth habit, non-planar arrangement of spray

BRANCHLET OF SECOND ORDER: light green, absent or very weak anthocyanin colouration

PETIOLE: short

LEAF: radially arranged around axis of branchlet, weak fragrance, open

LEAF BLADE: linear shape, acuminate apex, cuneate base, entire margin fold, variegation present

LEAF BLADE (UPPER SIDE): weak to medium glossiness, strong prominence of midrib, medium green main colour, very small to small amount of light green secondary colour at tip of the margin only, one-year old summer leaf is medium to dark green (closest to RHS 143A but as dark as RHS 137A)

LEAF BLADE (LOWER SIDE): medium prominence of midrib, glaucosity present on midrib and margin only, light green main colour, one-year old summer leaf is medium green (RHS 144A)

Origin and Breeding: 'SMNTHDB' originated from an open pollinated cross conducted in 2006 in Grand Haven, Michigan, USA between the *Taxus x media* variety designated 'Hicksii' as the female parent, and pollen from an unknown male parent. From the resulting progeny, 'SMNTHDB' was selected in 2011 for its plant growth habit, vigour and hardiness. 'SMNTHDB' was first propagated by softwood cuttings in 2011 in Grand Haven, Michigan, USA.

Tests and Trials: The comparative trial for 'SMNTHDB' was conducted in an outdoor irrigated container trial during the spring of 2022 at BioFlora Inc. in St. Thomas, Ontario. The trial included a total of 10 plants each of the candidate and reference varieties. All plants were transplanted into 3.8 liter pots in the summer of 2021. Observations and measurements were taken from 10 plants, or 10 parts of plants, of each variety on July 19, 2022. 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 'SMNTHDB'

	'SMNTHDB'	'SMNTHDPF'*	'SMNTHDC'*
<i>Plant width (cm)</i>			
mean	27.5	16.4	14.8
std. deviation	2.00	0.77	2.66
<i>Branchlet of first order length (cm)</i>			
mean	22.5	23.1	28.4
std. deviation	2.01	1.43	2.90
<i>Branchlet of second order length (cm)</i>			
mean	4.5	3.8	3.0
std. deviation	0.96	0.49	0.59
<i>Branchlet of second order width (cm)</i>			
mean	2.2	3.4	1.7
std. deviation	0.21	0.52	0.20

*reference varieties



Yew: 'SMNTHDB' (left) with reference varieties 'SMNTHDC' (centre) and 'SMNTHDPF' (right)



Yew: 'SMNTHDB' (left) with reference variety 'SMNTHDC' (right)

Proposed denomination: 'SMNTHDC'
Trade name: Stonehenge
Application number: 19-9914
Application date: 2019/05/24
Applicant: Spring Meadow Nursery, Inc., Grand Haven, Michigan, United States of America
Agent in Canada: BioFlora Inc., St. Thomas, Ontario
Breeder: Timothy D. Wood, Spring Lake, Michigan, United States of America

Variety used for comparison: 'Viridis'

Summary: *The plants of 'SMNTHDC' are taller and wider than those of 'Viridis'. The plants of 'SMNTHDC' have a medium density of branches while those of 'Viridis' have a high density of branches. The first order branchlet of 'SMNTHDC' is longer than that of 'Viridis'. The second order branchlet is shorter and narrower than that of 'Viridis'. The leaf of 'SMNTHDC' is longer than that of 'Viridis'. The upper side of the leaf of 'SMNTHDC' has a medium degree of glossiness while that of 'Viridis' has strong glossiness. The lower side of the leaf of 'SMNTHDC' has a medium prominence of the midrib whereas that of 'Viridis' has a weak prominence of the midrib. The upper side of the leaf for 'SMNTHDC' is dark green with no variegation, while it is medium green with yellow variegation present at the tip of the margin only for 'Viridis'. The lower side of the leaf of 'SMNTHDC' is medium green to grey-green while it is light green for 'Viridis'.*

Description:

PLANT: evergreen, columnar shape, slow growth rate, medium density foliage

BRANCHES: medium density, medium stiffness, erect growth habit, brown bark

BRANCHLET OF FIRST ORDER: medium density, erect growth habit, non-planar arrangement of spray

BRANCHLET OF SECOND ORDER: light green, absent or very weak anthocyanin colouration

PETIOLE: short

LEAF: radially arranged around axis of branchlet, weak fragrance, open

LEAF BLADE: linear shape, acuminate apex, cuneate base, entire margin, flat margin fold, no variegation

LEAF BLADE (UPPER SIDE): medium glossiness, weak prominence of midrib, dark green main colour, no secondary colour, one-year old summer leaf is dark green (RHS 139A)

LEAF BLADE (LOWER SIDE): medium prominence of midrib, glaucosity present, medium green to grey-green main colour, one-year old summer leaf is medium green (closest to RHS 143A) with light green (RHS 143D) near the centre

Origin and Breeding: ‘SMNTHDC’ originated from an open pollinated cross conducted in 2006 in Grand Haven, Michigan, USA between the *Taxus x media* variety designated ‘Hicksii’ as the female parent, and pollen from an unknown male parent. From the resulting progeny, ‘SMNTHDC’ was selected in 2011 for its plant growth habit, plant vigour, foliage colour and container performance. ‘SMNTHDC’ was first propagated by softwood cuttings in 2011 in Grand Haven, Michigan, USA.

Tests and Trials: The comparative trial for ‘SMNTHDC’ was conducted in an outdoor irrigated container trial during the spring of 2022 at BioFlora Inc. in St. Thomas, Ontario. The trial included a total of 10 plants each of the candidate and reference variety. All plants were transplanted into 3.8 liter pots in the summer of 2021. Observations and measurements were taken from 10 plants, or 10 parts of plants, of each variety on July 19, 2022. 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 ‘SMNTHDC’

	‘SMNTHDC’	‘Viridis’*
<i>Plant height (cm)</i>		
mean	32.7	21.4
std. deviation	4.41	4.93
<i>Plant width (cm)</i>		
mean	14.8	10.8
std. deviation	2.66	2.34
<i>Branchlet of first order length (cm)</i>		
mean	28.4	16.5
std. deviation	2.90	1.68
<i>Branchlet of second order length (cm)</i>		
mean	3.0	5.7
std. deviation	0.59	0.91
<i>Branchlet of second order width (cm)</i>		
mean	1.7	3.0
std. deviation	0.20	0.25
<i>Leaf blade length (cm)</i>		
mean	1.3	2.3
std. deviation	0.22	0.18

*reference variety



Yew: ‘SMNTHDC’ (left) with reference variety ‘Viridis’ (right)

Proposed denomination:	‘SMNTHDPF’
Trade name:	Stonehenge Skinny
Application number:	20-10221
Application date:	2020/05/13
Applicant:	Spring Meadow Nursery, Inc., Grand Haven, Michigan, United States of America
Agent in Canada:	BioFlora Inc., St. Thomas, Ontario
Breeder:	Timothy D. Wood, Spring Lake, Michigan, United States of America

Variety used for comparison: ‘SMNTHDC’ (Stonehenge)

Summary: *The plants of ‘SMNTHDPF’ have dense foliage and a high density of branches while those of ‘SMNTHDC’ have a medium density of foliage and a medium density of branches. The first order branchlet of ‘SMNTHDPF’ is dense while it is of medium density for ‘SMNTHDC’. The first order branchlet of ‘SMNTHDPF’ is shorter than that of ‘SMNTHDC’. The second order branchlet is wider than that of ‘SMNTHDC’. The leaf of ‘SMNTHDPF’ is longer than that of ‘SMNTHDC’. The upper side of the leaf for ‘SMNTHDPF’ is medium green with a very small amount of yellow variegation present at the tip only, while it is dark green with no variegation present for ‘SMNTHDC’. The lower side of the leaf of ‘SMNTHDPF’ has a weak prominence of the midrib whereas that of ‘SMNTHDC’ has a medium prominence of the midrib. The lower side of the leaf of ‘SMNTHDPF’ is light green while it is medium green to grey-green for ‘SMNTHDC’.*

Description:

PLANT: evergreen, columnar shape, slow growth rate, dense foliage

BRANCHES: high density, medium stiffness, erect growth habit, brown bark

BRANCHLET OF FIRST ORDER: dense, erect growth habit, non-planar arrangement of spray

BRANCHLET OF SECOND ORDER: light green, absent or very weak anthocyanin colouration

PETIOLE: short

LEAF: radially arranged around axis of branchlet, weak fragrance, open

LEAF BLADE: linear shape, acuminate apex, cuneate base, entire margin, flat margin fold, variegation present

LEAF BLADE (UPPER SIDE): medium glossiness, medium prominence of midrib, medium green main colour, very small to small amount of yellow secondary colour at the tip only, one-year old summer leaf is dark green (closest to RHS 137A)

LEAF BLADE (LOWER SIDE): weak prominence of midrib, glaucosity present on midrib and margin only, light green main colour, one-year old summer leaf is medium green (closest to RHS 143A)

Origin and Breeding: ‘SMNTHDPF’ originated from an open pollinated cross conducted in 2006 in Grand Haven, Michigan, USA between the *Taxus x media* variety designated ‘Hicksii’ as the female parent, and pollen from an unknown male parent. From the resulting progeny, ‘SMNTHDPF’ was selected in 2011 for its plant growth habit, foliage colour and container performance. ‘SMNTHDPF’ was first propagated by softwood cuttings in 2011 in Grand Haven, Michigan, USA.

Tests and Trials: The comparative trial for ‘SMNTHDPF’ was conducted in an outdoor irrigated container trial during the spring of 2022 at BioFlora Inc. in St. Thomas, Ontario. The trial included a total of 10 plants each of the candidate and reference variety. All plants were transplanted into 3.8 liter pots in the summer of 2021. Observations and measurements were taken from 10 plants, or 10 parts of plants, of each variety on July 19, 2022. 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 ‘SMNTHDPF’

	‘SMNTHDPF’	‘SMNTHDC’*
<i>Branchlet of first order length (cm)</i>		
mean	23.1	28.4
std. deviation	1.43	2.90
<i>Branchlet of second order width (cm)</i>		
mean	3.4	1.7
std. deviation	0.52	0.20

Leaf blade length (cm)

mean	2.23	1.3
std. deviation	0.25	0.22

*reference variety



Yew: 'SMNTHDPF' (left) with reference variety 'SMNTHDC' (right)
