



HYDRANGEA
(*Hydrangea macrophylla*)

Proposed denomination: 'Bailmacfive'
Application number: 18-9375
Application date: 2018/01/26
Applicant: Bailey Nurseries, Inc., St. Paul, Minnesota, United States of America
Agent in Canada: BioFlora Inc., St. Thomas, Ontario
Breeder: Michael A. Dirr, Bogart, Georgia, United States of America
Rhonda Helvick, Madison, Georgia, United States of America
Oren McBee, Bishop, Georgia, United States of America
Joshua Kardos, Asheville, North Carolina, United States of America

Varieties used for comparison: 'Alpenguhen' (Glowing Embers) and 'Pia'

Summary: *The plants of 'Bailmacfive' are taller than the plants of both reference varieties. The leaf blade of 'Bailmacfive' is larger than that of 'Pia'. 'Bailmacfive' has an inflorescence that is shorter than that of 'Alpenguhen' and taller than that of 'Pia'. The inflorescence of 'Bailmacfive' is smaller than the inflorescence of 'Alpenguhen' and larger in than 'Pia'. The degree of overlapping of the sepals on 'Bailmacfive' is medium to strong whereas the degree of overlapping on both reference varieties is weak.*

Description:

PLANT: non-climbing type, upright growth habit

STEM: no fasciation, green, medium number of red lenticels in autumn

LEAF BLADE: no lobing, ovate to elliptic shaped, medium length of tip, obtuse base, shallow to medium depth of margin incisions, no variegation, medium intensity of green on upper side, weak to moderate glossiness of upper side, medium degree of blistering

FLOWERING: begins mid-season

INFLORESCENCE: globular shape, inconspicuous or slightly conspicuous fertile flowers

STERILE FLOWER: single type

SEPAL OF STERILE FLOWER: absent or very weak undulation, medium to strong degree of overlapping, no margin incisions

SEPAL OF STERILE FLOWER (INNER SIDE): blue pink (RHS 63A) with yellow green (RHS 2D) at base when newly opened, purple red (RHS 63A) when fully opened

PETAL OF FERTILE FLOWER: pink

Origin and Breeding: 'Bailmacfive' was bred and developed by the breeder, Joshua Kardos, Michael A. Dirr, Rhonda, Melvick, and Oren McBee in Watkinsville, Georgia, USA. The new variety originated from a controlled cross between 'Agrihydradie' and 'PIIHM-II' in May 2013. 'Bailmacfive' was selected in June 2014 for its growth habit, flower type, remontant blooming, and inflorescence colour. 'Bailmacfive' was first propagated asexually by softwood cuttings in July 2014, in Watkinsville, Georgia, USA.

Tests and Trials: The comparative trial for 'Bailmacfive' was conducted in a polyhouse during the spring and summer of 2020, at BioFlora Inc., in St. Thomas, Ontario. The trial included 10 shrubs each of the candidate and reference varieties. All shrubs were grown from bareroot plant and transplanted into 14 litre containers on May 2020. The observations and measurements were taken from 10 plants or parts of plants of each variety on July 16, 2020. All colour determinations were made using the 2007 Royal Horticultural Society (RHS) Colour Chart.

Comparison table for 'Bailmacfive'

	'Bailmacfive'	'Alpenguhen'*	'Pia**
<i>Plant height (cm)</i>			
mean	54.4	45.2	26.9
std. deviation	4.69	3.28	3.02
<i>Leaf blade length (cm)</i>			
mean	15.1	16.7	10.4
std. deviation	1.33	0.97	1.51
<i>Leaf blade width (cm)</i>			
mean	10.8	10.7	6.4
std. deviation	1.29	1.12	1.01
<i>Inflorescence height (cm)</i>			
mean	7.8	9.5	3.5
std. deviation	0.63	1.11	0.50
<i>Inflorescence diameter (cm)</i>			
mean	15.8	20.2	9.5
std. deviation	1.47	0.67	1.33

*reference varieties



Hydrangea: 'Bailmacfive' (left) with reference varieties 'Alpenguhen' (centre) and 'Pia' (right)



Hydrangea: 'Bailmacfive' (left) with reference varieties 'Alpenguhen' (centre) and 'Pia' (right)

HYDRANGEA*(Hydrangea macrophylla subsp. serrata)*

Proposed denomination: ‘SMNHSDD’
Trade name: Tuff Stuff Ah-Ha
Application number: 18-9445
Application date: 2018/05/01
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: ‘SMHMLDD’ (Let’s Dance Diva)

Summary: *The upper side of the leaf blade of ‘SMNHSDD’ is dark green whereas the upper side of the leaf blade of ‘SMHMLDD’ is light to medium green. The inflorescence of ‘SMNHSDD’ is shorter than the inflorescence of ‘SMHMLDD’.* ‘SMNHSDD’ has a sterile flower that has a smaller diameter than that of ‘SMHMLDD’. The sepal of ‘SMNHSDD’ is smaller than the sepal of ‘SMHMLDD’. ‘SMNHSDD’ has a double type sterile flower with 9-16 sepals whereas ‘SMHMLDD’ has a single type sterile flower with 2-5 sepals.

Description:

PLANT: non-climbing type, upright to semi-upright growth habit

STEM: no fasciation, green with anthocyanin colouration at nodes, many black lenticels in autumn

LEAF BLADE: no lobing, long tip, rounded base, medium to deep margin incisions, no variegation, dark green upper side, absent or weak to intermediate glossiness of upper side, medium degree of blistering

FLOWERING: begins early

INFLORESCENCE: flattened shape, very conspicuous fertile flowers

STERILE FLOWER: arranged in one whorl, double type, very strong degree of overlapping of sepals

SEPAL OF STERILE FLOWER: 9-16 sepals, no margin incisions

SEPAL OF STERILE FLOWER (INNER SIDE): light blue pink (RHS 62B-C) with light yellow (RHS 4D) at base, lighter than blue pink (RHS 73B) when fully opened, white (RHS N155B) with purple (RHS 75C) at base when aged

PETAL OF FERTILE FLOWER: pink

Origin and Breeding: ‘SMNHSDD’ was bred and developed by the breeder, Timothy D. Wood, an employee of Spring Meadow Nursery, Inc. in Grand Haven, Michigan, USA. ‘SMNHSDD’ originated from an open pollinated cross conducted in 2011 in Grand Haven, Michigan, between the variety ‘MAK20’, as the female parent, and the variety ‘SMHMTAU’, as the male parent. ‘SMNHSDD’ was selected in summer of 2013 for its double type flowers, lace-cap type inflorescence, flower colour, and reblooming. ‘SMNHSDD’ was first propagated asexually by softwood cuttings in summer of 2013 in Grand Haven, Michigan.

Tests and Trials: The comparative trial for ‘SMNHSDD’ was conducted in a polyhouse during the spring and summer of 2020, at BioFlora Inc., in St. Thomas, Ontario. The trial included 10 shrubs each of the candidate and reference variety. All shrubs were grown from bare root plants and transplanted into 14 litre containers on August 6, 2019. The observations and measurements were taken from 10 plants or parts of plants of each variety on June 15, 2020. All colour determinations were made using the 2007 Royal Horticultural Society (RHS) Colour Chart.

Comparison table for ‘SMNHSDD’

	‘SMNHSDD’	‘SMHMLDD’*
<i>Inflorescence height (cm)</i>		
mean	6.4	8.9
std. deviation	0.91	0.88

Sterile flower diameter (cm)

mean	5.6	7.1
std. deviation	0.48	0.47

Sepal length (cm)

mean	3.0	3.7
std. deviation	0.33	0.29

Sepal width (cm)

mean	2.2	3.4
std. deviation	0.22	0.40

*reference variety



Hydrangea: 'SMNHSDD' (left) with reference variety 'SMHMLDD' (right)



Hydrangea: 'SMNHSDD' (left) with reference variety 'SMHMLDD' (right)