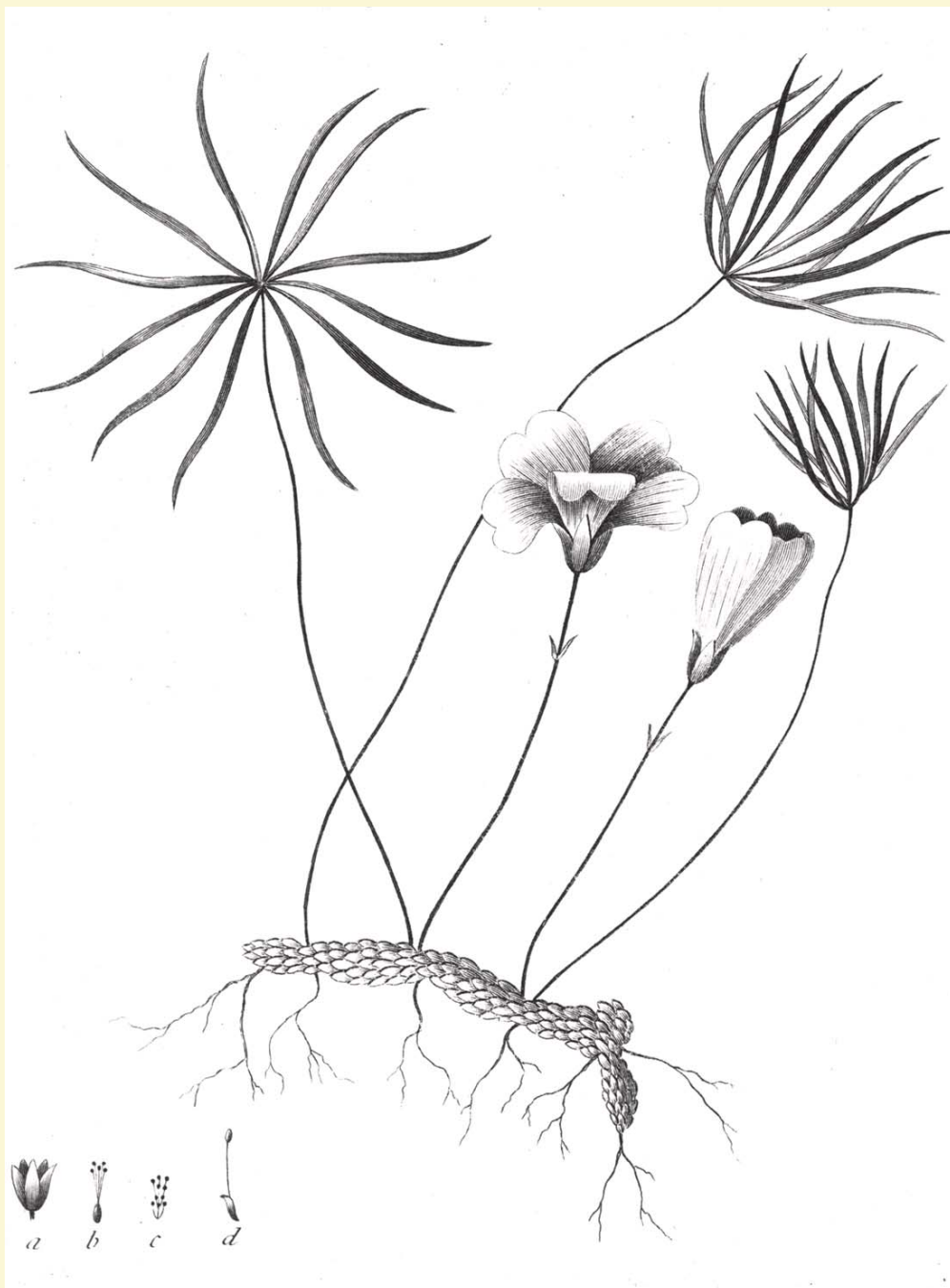


Hanburyana

Notes from the Royal Horticultural Society Botany Department



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VOLUME FOUR



SEPTEMBER 2009

Cover illustration:

Oxalis laciniata

(See page 19)

Drawn by Antonio José Cavanilles (1745–1804) for
his *Icones et descriptiones plantarum quae aut sponte
in Hispania crescunt, aut in hortis hospitantur*
(1791–1801)

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International registration of cultivar names for *Kalmia* L. 2007–2009

J. WESTHOFF

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For many years, the main development in the hybridisation and cultivation of kalmias took place almost exclusively in the United States, and was closely connected to Dr Richard A. Jaynes, who became the International Cultivar Registrar in 1978. When he resigned after nearly 20 years, it was difficult to find a successor in the United States, the native country of *Kalmia*. Meanwhile in Europe Dr Karl-Heinz Hübbers started to hybridise kalmias and a small group of enthusiasts centred around him founded the European Kalmia Society to make these plants more popular on this side of the world. In 2007 the European Kalmia Society was asked to fill the gap and assume the function of provisional ICRA. The last published checklist (Jaynes, 1997) documents about 60 cultivars that had been registered. During the last three years, 26 more *Kalmia* cultivar names have been registered. These are listed below. The following abbreviations have been used:

R raiser; **H** hybridiser; **G** grown to first flowering by; **S** selected by; **N** named by; **I** introducer; **REG** registrant; **L** listed by.

The seed parent is given first; **o.p.** = open pollinated.

Kalmia angustifolia 'Compacta'

Synonym of *Kalmia angustifolia* 'Gnom'. It was published under this name 1988/89 in the Hachmann nursery price list.

Kalmia angustifolia 'Gnom'

S: Karl-Heinz Schurig (1958); **N**: Hans Hachmann (1990); **I**: Baumschule Schurig (1960); **REG**: Holger Hachmann (2008). Synonym: 'Compacta'.

¹ www.kalmia-society.org

Habit: very compact and dense. Flowers: light purple pink. Leaves: broader than the species and with a lighter green colour.

Comments: the original plant was selected by Karl-Heinz Schurig from *Kalmia angustifolia* seedlings that he obtained when he took over the nursery from Mr Falke in 1958. First description was published in the Hachmann Nursery 1990 price list. An official description with colour illustration was published in the Hachmann Nursery catalogue 1992–1993.

***Kalmia angustifolia* 'Purpurflor'**

S: Hans Hachmann (about 1970); **N:** Hans Hachmann (1988); **I:** Baumschule Hachmann (1978); **REG:** Holger Hachmann (2008).

Habit: upright. Flowers: purple up to dark purple red; remarkably abundant flowering in June–July. Leaves: greyish green, oblong-lanceolate.

Comments: the original plant was selected by Hans Hachmann and first introduced under the name of *Kalmia angustifolia* 'Rubra'. Because the flower colour of this selection is a stronger purplish pink than the other plants that are known as *K. angustifolia* 'Rubra', it was named 'Purpurflor'. It was first published in the 1979 price list from Hachmann Nursery. An official description with a colour illustration was published in the Hachmann Nursery catalogue 1988.

***Kalmia latifolia* 'Bandeau'**

Parentage: 'Mitternacht' × 'Ginkona'.

H: Dr Karl-Heinz Hübbers (2002); **N:** Dr Karl-Heinz Hübbers (2007); **REG:** Julia Westhoff (2007).

Habit: strong, upright. Flowers: up to 200 flowers in the truss; cupped, corolla with 6 lobes up to 40mm across; broad maroon band, broad white centre with tiny maroon spots. Flower bud: pinkish maroon. Leaves: dark green, leathery.

***Kalmia latifolia* BEACON**

Trade designation for *Kalmia latifolia* 'Leuchtfeuer'.

***Kalmia latifolia* 'Candy Cane'**

Parentage: unnamed seedlings (5-84 plt 2 × 5-84 plt 1).

H: Richard Jaynes (1989); **N:** Richard Jaynes (2004); **REG:** Richard Jaynes (2009).

Habit: compact, broader than tall. Size: 0.9 × 1.2m within 16 years. Flowers: a ten-spoked star radiates from the base of the corolla; more strongly pigmented markings than 'Peppermint'. Leaves: clear dark green.

Comments: this cultivar is an enhanced 'Peppermint'; this plant is protected by Plant Breeders' Rights.

***Kalmia latifolia* 'Cheerful'**

Parentage: 'Harmonia' × 'Ostbo Red'.

H: Dr Karl-Heinz Hübbers (2001); **N:** Dr Karl-Heinz Hübbers (2007); **REG:** Julia Westhoff (2007).

Habit: compact, funnel-like. Flowers: up to 120 flowers in the truss; light pink blush white, contrasting brownish spots. Flower bud: rich pink tip changing into a lighter pink at the base. Leaves: dark green.

***Kalmia latifolia* 'Corona'**

Parentage: 'Olympic Wedding' × 'Goodrich'.

H: Dr Karl-Heinz Hübbers (1988); **N:** Dr Karl-Heinz Hübbers (1992); **REG:** Julia Westhoff (2002); **I:** Baumschule Neumann, Berlin (2007).

Habit: compact. Flowers: white with distinct red spots. Flower bud: white with pink tip. Leaves: dark green, elliptic, V-shaped in cross-section.

Comments: a description with colour illustration was published in *Gartenpraxis* 12/2006.

***Kalmia latifolia* 'Disco'**

Parentage: unnamed garden seedling × ('Goodrich' × 'Olympic Wedding').

H: Dr Karl-Heinz Hübbers (2001); **N:** Dr Karl-Heinz Hübbers (2008);

REG: Julia Westhoff (2008).

Habit: upright, compact. Flowers: about 100 flowers per truss; a flat, open bowl with 5–6 rounded lobes; corolla 35mm across; a nearly white star in the middle with small maroon spots surrounded by a broad maroon band with a small white rim. Flower bud: brownish white. Leaves: dark green, elliptic, 90 × 40mm.

***Kalmia latifolia* 'Eskimo'**

Parentage: *Kalmia latifolia* × 'Snowdrift'.

H: Dr Karl-Heinz Hübbers (1999); **N:** Dr Karl-Heinz Hübbers (2007);

REG: Julia Westhoff (2008).

Habit: upright, bushy. Flowers: about 40 flowers per truss; bowl-shaped with 5 lobes; corolla 30mm across; pure white. Flower bud: pure white. Leaves: dark green, elliptic, 100 × 40mm.

***Kalmia latifolia* 'Firecracker'**

Parentage: not stated (see Comments).

H: Richard Jaynes; **N:** Richard Jaynes (2001); **REG:** Richard Jaynes (2009); **I:** Broken Arrow Nursery (2006).

Habit: more compact than the species. Size: 1.2 × 1.2m within 10 years. Flowers: opening near white and ageing to pale pink. Flower bud: brilliant deep red. Leaves: glossy, dark green.

Comments: excellent disease resistance; this plant is protected by Plant Breeders' Rights. Significant parents of the hybrid include the *Kalmia latifolia* selections 'Carol', 'Sharon Rose', and 'Sarah'; a description was published in *Deutsche Baumschule* 2/2007.

***Kalmia latifolia* 'Fred Clarkson'**

Parentage: 'Olympic Wedding' o.p.

H: Dr Karl-Heinz Hübbers (1993); **N:** Dr Karl-Heinz Hübbers (2001);

REG: Julia Westhoff (2002).

Habit: upright. Flowers: more than 130 flowers per truss; bright pink with a red interrupted band. Flower bud: dark pink. Leaves: dark green, elliptic, V-shaped in cross-section.

Comments: a description was published in *Deutsche Baumschule* 2/2007. Sometimes written 'Fred Clarksen' in error.

***Kalmia latifolia* 'Ginkona'**

H: Dr Karl-Heinz Hübbers (1995); **N:** Dr Karl-Heinz Hübbers (2001);

REG: Julia Westhoff (2002); **I:** Baumschule Neumann, Berlin (2007).

Habit: upright, somewhat open. Flowers: bicolour burgundy band on white centre. Flower bud: pink. Leaves: matt green, elliptic, V-shaped in cross-section.

Comments: the seedling was discovered under a *Ginkgo* tree. A description with colour illustration was published in *Gartenpraxis* 12/2006.

***Kalmia latifolia* 'Harmonia'**

Parentage: 'Sarah' × unnamed seedling.

H: Dr Karl-Heinz Hübbers (1995); **N:** Dr Karl-Heinz Hübbers (2004);

REG: Julia Westhoff (2007).

Habit: broad, upright. Flowers: up to 110 flowers in the truss; pale pink with white centre. Flower bud: pink. Leaves: dark green.

Comments: Harmonia is the immortal goddess of harmony and concord, daughter of Ares and Aphrodite (Mars and Venus).

***Kalmia latifolia* 'Kardinal'**

Parentage: 'Nancy' × unnamed pink seedling.

H: Dr Karl-Heinz Hübbers (2000); **N:** Dr Karl-Heinz Hübbers (2007);

REG: Julia Westhoff (2007).

Habit: upright. Flowers: up to 140 flowers in the truss, opening intense pink. Flower bud: vibrant red. Leaves: dark green.

***Kalmia latifolia* LADYBIRD**

Trade designation for *Kalmia latifolia* 'Marienkäfer'.

***Kalmia latifolia* 'Leuchtfeuer'**

Parentage: 'Nancy' × unnamed pink seedling.

H: Dr Karl-Heinz Hübbers (1999); **N:** Dr Karl-Heinz Hübbers (2008);

REG: Julia Westhoff (2008). Trade designation: *Kalmia latifolia* BEACON.

Habit: upright, loose. Flowers: about 70 flowers per truss; bowl-shaped with 5 slightly recurved lobes; corolla 35mm across; intense reddish pink with red ring and lighter centre. Flower bud: intense even pink. Leaves: dark green, matt, elliptic, 100 × 40mm.

***Kalmia latifolia* 'Marienkäfer'**

Parentage: ('Goodrich' × 'Olympic Wedding') × 'Minuet'.

H: Dr Karl-Heinz Hübbers (1987); **N:** Dr Karl-Heinz Hübbers (2003);

REG: Julia Westhoff (2008). Trade designation: *Kalmia latifolia* LADYBIRD.

Habit: broad, upright, bushy. Flowers: nearly white at the centre surrounded by 10 distinct maroon spots. Flower bud: pink tip fading into lighter purplish pink. Leaves: dark green, matt, elliptic, 100 × 40mm.

***Kalmia latifolia* 'Meteor'**

H: Richard Jaynes; **N:** Richard Jaynes (1998); **REG:** Richard Jaynes (2009); **I:** Broken Arrow Nursery (2002).

Habit: slow growing, upright. Size: 1.40 × 1.40m within 10 years. Flowers: petals deeply cut into 5 lobes; lavender-pink banding, distinctive and restricted to only a few plants of this parentage. Flower bud: nearly white. Leaves: glossy bluish green, in full sun it may be yellow-green.

Comments: this plant is protected by Plant Breeders' Rights. A description was published in *Gartenpraxis* 12/2006.

***Kalmia latifolia* MIDNIGHT**

Trade designation for *Kalmia latifolia* 'Mitternacht'. It was published under this name in the Glendoick Gardens price list autumn 2008.

***Kalmia latifolia* 'Mitternacht'**

Parentage: 'Olympic Wedding' × 'Goodrich'.

H: Dr Karl-Heinz Hübbers (1988); **N:** Dr Karl-Heinz Hübbers (1998);

REG: Julia Westhoff (2002); **I:** Baumschule Neumann, Berlin (2007).

Trade designation: *Kalmia latifolia* MIDNIGHT.

Habit: compact. Flowers: dark red nearly black, small white rim. Flower bud: brownish white. Leaves: dark green, glossy, elliptic, V-shaped in cross-section.

Comments: cultivar with the darkest flower colour to date. A description with colour illustration was published in *Gartenpraxis* 12/2006.

***Kalmia latifolia* 'Moyland'**

Parentage: 'Olympic Wedding' × 'Goodrich'.

H: Dr Karl-Heinz Hübbers (1988); **N:** Dr Karl-Heinz Hübbers (1998);

REG: Julia Westhoff (2002); **I:** Baumschule Neumann, Berlin (2007).

Habit: upright. Flowers: deep pink with burgundy red spots. Flower bud: deep pink. Leaves: bluish green, elliptic, V-shaped in cross-section.

Comments: Moyland is the name of a castle in the Lower Rhine region in Germany. A description with colour illustration was published in *Gartenpraxis* 12/2006.

***Kalmia latifolia* 'Nani'**

Parentage: 'Mitternacht' × 'Minuet'.

H: Dr Karl-Heinz Hübbers (1994); **N:** Dr Karl-Heinz Hübbers (2007);

REG: Julia Westhoff (2007).

Habit: slow growing, compact. Flowers: up to 250 flowers in truss; white with a cinnamon red band. Flower bud: whitish.

Comments: first flowered two years after grafting.

***Kalmia latifolia* 'Rosenquarz'**

Parentage: 'Olympic Wedding' o.p.

H: Dr Karl-Heinz Hübbers (1993); **N:** Dr Karl-Heinz Hübbers (1998);

REG: Julia Westhoff (2002).

Habit: upright. Flowers: strong pink. Flower bud: strong pink. Leaves: dark green. Comments: a description with colour illustration was published in *Gartenpraxis* 12/2006.

***Kalmia latifolia* 'Schokra'**

Parentage: 'Shooting Star' × 'Mitternacht'.

H: Dr Karl-Heinz Hübbers (1993); **N:** Dr Karl-Heinz Hübbers (2003);

REG: Julia Westhoff (2008).

Habit: upright. Flowers: about 200 flowers per truss; cupped with 5 lobes; corolla 30mm across; chocolate centre with a small white rim. Flower bud: brownish white. Leaves: dark green, obovate-elliptic, 70 × 35mm.

Comments: a description with colour illustration was published in *Gartenpraxis* 12/2006.

***Kalmia latifolia* 'Show Time'**

Parentage: not stated (see Comments).

H: Richard Jaynes (1986); **N:** Richard Jaynes (2004); **REG:** Richard Jaynes (2009).

Habit: as broad as tall. Size: 1.50 × 1.50m within 20 years. Flowers: the corolla is oversized like 'Silver Dollar', about 40mm, strongly lobed and does not recurve; rich pink like 'Sarah'. Flower bud: red. Leaves: dark green.

Comments: this plant is protected by Plant Breeders' Rights. It is derived from a series of five crosses begun in 1969 with 'Pink Surprise' as one parent. 'Sarah' is in the parentage, plus ten other unnamed richly coloured selections.

***Kalmia latifolia* 'Starbust'**

H: Richard Jaynes (1981); **N:** Richard Jaynes (2004); **REG:** Richard Jaynes (2009).

Habit: more spreading than 'Minuet'. Size: 1.60 × 1.80m within 25 years. Flowers: pronounced star shape; a bright cinnamon full band. Leaves: dark green, glossy, small, somewhat V-shaped in cross-section.

Comments: this plant is protected by Plant Breeders' Rights.

***Kalmia latifolia* 'Sterntaler'**

Parentage: 'Mitternacht' × 'Ginkona'.

H: Dr Karl-Heinz Hübbers (2001); **N:** Dr Karl-Heinz Hübbers (2007); **REG:** Julia Westhoff (2008).

Habit: upright, bushy. Flowers: about 60 flowers per truss; a flat open bowl with 5 curved lobes; corolla 40mm across; white centre and rim with a broad maroon band. Flower bud: light pink tip fading into brownish white. Leaves: dark green, elliptic-lanceolate, 80 × 30mm.

***Kalmia latifolia* 'Twinkle'**

H: Richard Jaynes (1990); **N:** Richard Jaynes (2004); **REG:** Richard Jaynes (2009).

Size: 0.90 × 0.90m within 15 years. Flowers: cut into five distinct lobes, smaller than the species; pale pink to white open. Flower bud: light pink. Leaves: with a bronzy purplish cast in winter when grown in full sun; small.

Comments: this plant is protected by Plant Breeders' Rights.

***Kalmia latifolia* 'Vanilla Cream'**

Parentage: ('Mitternacht' × 'Minuet') × 'Corona'.

H: Dr Karl-Heinz Hübbers (1999); **N:** Dr Karl-Heinz Hübbers (2008); **REG:** Julia Westhoff (2008).

Habit: bushy. Flowers: about 70 flowers per truss; a flat open bowl with 5 flattened lobes; corolla 30mm across; creamy white blush pink at the margin. Flower bud: white blush pink. Leaves: dark green, leaves narrow elliptic, 80 × 30mm.

List of raisers, introducers and registrants

Broken Arrow Nursery, Hamden, Connecticut, USA

Hachmann, Hans, Hachmann Nursery, Barmstedt, Germany

Hachmann, Holger, Hachmann Nursery, Barmstedt, Germany

Hübbers, Dr Karl-Heinz, Kranenburg, Germany

Jaynes, Dr Richard, Hamden, Connecticut, USA

Neumann Nursery, Berlin, Germany

Schurig, Karl-Heinz, Schurig Nursery, Barmstedt, Germany

Westhoff, Julia, Bremen, Germany

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***Syringa afghanica* and *S. pinetorum*: a misidentification alert¹**

F. VRUGTMAN

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Material under two different lilac species names is being grown in gardens but both names are not correctly applied to the plants in cultivation. The following note draws attention to the confusion.

Those who come across these misidentified plants are asked not just to update the label and the record, but if the records show the origin of the plant, to contact the people who supplied you with it to alert them to the problem. This should help to remove an erroneous name from collections and commercial nurseries, and perhaps before the real *Syringa afghanica* and *S. pinetorum* enter our gardens.

***Syringa afghanica* C.K. Schneid.**

To our, albeit limited, knowledge true-to-name *Syringa afghanica* has not yet been introduced to cultivation, either in Europe or in North America. Plants in cultivation under the name *S. afghanica* mostly turn out to be *S. × laciniata* Mill. Pringle (1978) published a detailed review of the literature on *S. afghanica* and the sources of the existing confusion. Alas, thirty years later the confusion still exists.

Schneider (1903) described and named *Syringa afghanica*, basing his description on herbarium specimens collected in Afghanistan in 1870 by James Aitchison.

A good description of *Syringa afghanica* appears in the current online version of the *Flora of Pakistan*, namely:

¹ Contribution No. 188, Royal Botanical Gardens, Hamilton, Ontario, Canada

Shrub with spreading, lenticellate branches. Leaves entire, 1–3cm long, 2–8mm broad (on fertile branches), lanceolate to narrowly oval, almost sessile. Inflorescence dense, of almost capitate appearance at the ends of branchlets, the leafless panicles arising from subterminal (terminal) and uppermost lateral buds only. Calyx 1–2mm long, more or less distinctly 4-toothed. Corolla lilac, tube cylindric, 8–10mm long, lobes c. half the length, oval. Capsule ovoid to cylindric, c. 1cm long, 4mm in diameter, slightly bent, acuminate, opening into 2 halves.

The most significant statement here is that the leaves of *Syringa afghanica* are entire. The foliage of *S. × laciniata* and that of one of its parents, *S. protolaciniata*, is 3- to 9-parted to -divided or entire, and *S. × persica* may have the occasional lobed or laciniate leaf. It is these three taxa that may turn up under the label of *Syringa afghanica*; therefore the leaf-shape is the key characteristic in spotting the misidentifications. Additional sources of confusion are the common names applied to *S. protolaciniata* and its cultivar 'Kabul'; both are occasionally listed as Afghan lilac or Afghanistan lilac.

When searching the Internet for the name *Syringa afghanica* hundreds of web pages turn up. Many of these pages are accompanied by photographs or descriptions which show or describe deeply lobed foliage. To the careful observer it immediately becomes clear that we are dealing with misidentifications. True-to-name *Syringa afghanica* does not have any lobate or parted leaves.

***Syringa pinetorum* W.W. Sm.**

McKelvey (1928) indicated that *Syringa pinetorum* had not yet been introduced to cultivation; Fiala (1988) repeated it; Pringle (1990) confirmed it; and Green (1995) stated it once more. They also explained why there are still plants in collections and nurseries growing under the name of *Syringa pinetorum*. In 1914 George Forrest made the type collection in the Lichiang Range in Yunnan of what was described as the new species *Syringa pinetorum* (Smith,

1916). Seed under this name, collected by Forrest was subsequently distributed from the Royal Botanic Garden, Edinburgh. From the accessions records of the Arnold Arboretum (M. Dosmann, pers. comm.), seed originally under the name *S. pinetorum* was received there in early 1923 and again in 1924. Both accessions were redetermined as *Syringa yunnanensis* Franch. Since the original collection in 1914 was made when the lilac was in flower, it seems likely that no seed was collected then. Later collections under the name *S. pinetorum* must have been made during Forrest's 1921–22 expedition and would have been distributed in 1923/4. Unfortunately no collection numbers have been traced so it cannot be proved that this is the source of the confusion. Some collection curators recognised the error and updated their records accordingly; some realised they had *S. yunnanensis*, others were puzzled, or careful, changing the label to *Syringa* sp., or "unknown lilac", but some gardens and commercial nurseries perpetuated the error by distributing plants under the erroneous name.

Below is the description of *Syringa yunnanensis*, which may be of help in determining what one has, or does not have, under the name of *Syringa pinetorum*.

Syringa yunnanensis

Shrubs 2–5m. Branchlets terete or slightly four-angled, usually glabrous. Petiole 0.5–2cm, glabrous; leaf blade elliptic, elliptic-lanceolate, to oblanceolate, 2–8(–13) × 1–3.5(–5.5)cm, glabrous or abaxially rarely pubescent along veins, base cuneate or rarely subrounded, apex acute or short acuminate. Panicles erect, terminal, 5–18 × 3–12cm; rachis and pedicel puberulent or rarely lanose. Pedicel 0.5–1.5mm. Calyx 1–2.5mm, glabrous or rarely lanose. Corolla white to lilac-red, 0.7–1.2(–1.7)cm; tube funnelform, 5–8(–13)mm; lobes oblong, spreading. Anthers yellow, usually inserted up to 2mm from mouth of corolla tube. Capsule oblong, 1.2–1.7cm, slightly lenticellate. Flowering May to June, fruiting in September. (Chang & Green, 1996).

This species is clearly distinct from true *S. pinetorum* as it has a terminal inflorescence and *S. pinetorum* has lateral inflorescences.

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Notes on two South American *Oxalis*

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c/o Botany Department, RHS Garden Wisley

The identity and nomenclature of two cultivated *Oxalis* from South America is clarified. *Oxalis* F&W 10584 is identified as *O. arenaria*, and the confusion with *O. articulata* is discussed. *Oxalis squamoso-radica* is reduced to synonymy under *O. laciniata*.

1. *Oxalis arenaria*

A bulbous Chilean *Oxalis* with attractive bright pink flowers has been distributed in cultivation from several Flores & Watson collections as *O. aff. articulata* and more recently as F&W 10584, *O. ?tortuosa*. *Oxalis tortuosa* was illustrated and described by Lindley (1829) from material collected by James McRae near Valparaíso, Chile in October 1825. The resultant plants flowered in the Garden of the Horticultural Society (as the RHS was then known) in June 1828 producing yellow flowers atop a distinct aerial stem with the leaves also arising from the apex, like a miniature tree, quite unlike the plants grown under the label F&W 10584. Flores and Watson explain in their 2003 Seed List no. 10 that, due to lack of time, the material was named by eliminating all other *Oxalis* names from a checklist of the area, commenting that this is not a reliable method of identification.

Material of F&W 10584, collected from the coastal region of central Chile, and grown at Bob Brown's Cotswold Garden Flowers, Evesham, has been examined and determined as *O. arenaria* Bertero, by reference to Lourteig (2000) and Reiche (1896). This was confirmed by comparison with herbarium material at Kew and the London Natural History Museum. It is quite similar in leaf and flower to *O. articulata*, which is likely to account for the confusion with that species. There appears to have been historical confusion of *O. arenaria*

with *O. articulata* (which does not occur naturally in Chile) following the inclusion of *O. arenaria* as a synonym under *O. articulata* in Reiche (1896: 338) while recognising *O. biglandulosa* Steudel as distinct. The latter is treated by Lourteig (2000) as a synonym of *O. arenaria*.

While accepting *O. articulata* and *O. arenaria* as distinct species, Lourteig (2000) does not comment on the confusion between the two. Several modern Chilean Floras which follow Reiche illustrate *O. arenaria* as *O. articulata*, including Hoffmann (1995: 196–197, t.3) and Navas (1976: 244, t. 34 Q–U).

The easiest way to separate the two is by the underground parts. *O. arenaria* produces a bulb which is composed of swollen scale leaves, while *O. articulata* has a solid rhizome. The inflorescence of *O. arenaria* is fewer flowered. The shape of the glands at the sepal apex is also different. While it varies from one individual to another, specimens of *O. arenaria* often develop a gland with several finger-like projections radiating downwards from the sepal apex. At least in cultivated material of *O. articulata* these sepal glands usually consist of a pair of single elliptical structures, one on each side of the midrib. Useful illustrations of *O. articulata* can be found in Clement, E.J. *et al.*, 2005: 186, and *Curtis's Botanical Magazine* **110**: t. 6748 (1884), while *O. arenaria* is depicted in *Curtis's Botanical Magazine* **101**: t. 6193 (1875).

The natural distribution of *O. articulata* is centred on the eastern side of central South America. Various publications treat it as native in the floras of Brazil, Paraguay (Clifton, 2004), Uruguay (Lourteig, 2000) and Argentina, where it is recorded from the provinces of Buenos Aires (where it is particularly abundant), Córdoba, Entre Ríos, La Pampa, Mendoza, Santa Fe, and Tucumán (Cabrera, 1965; Múlgura, 1999), and in south-eastern Brazil from Rio Grande do Sul (Lourteig, 1983, 2000). A record from San Juan (Argentina) adjacent to the Chilean border is attributed to introduced cultivated material

(Lourteig, 2003). Records for Chile are based on cultivated plants, where it may escape from cultivation as it does elsewhere.

2. *Oxalis laciniata* and *O. squamoso-radicosa*

Oxalis laciniata is a frequently grown alpine plant. Cavanilles, who first described it in 1799, stated that it had “foliis profundissime laciniatis; laciniis subduodecim, linearibus...lacinias...utraque extremitate acutas” [“leaves most deeply divided, with about 12 linear divisions, acute at both ends”]. The illustration accompanying the protologue agrees with this, depicting a leaf with narrow entire segments, acute and undivided at the apex. However, this description does not match plants in cultivation, which display leaf lobes that are marginally undulate with a minutely bifid apex; characters which do fit *O. squamoso-radicosa*. The account of *Oxalis* in *Flora Patagonica* (Lourteig, 1988) treats both these taxa as species, without comment. Clear drawings showing the typical leaf lobes for each are provided. However, her later monograph (Lourteig, 2000), while treating both as species, comments under *O. squamoso-radicosa*, “La misma de *O. laciniata*” [“The same as *Oxalis laciniata*”].

Examination of herbarium material at Kew and the Natural History Museum reveals an abundance of plants with marginally undulate lobes and bifid tips, most of which are determined as *O. squamoso-radicosa*, while a few are included as *O. laciniata*. The specimens reveal a range of variation from leaves that are crenate and undulate to those that are almost entire and flat. This variation appears to be correlated with the degree of exposure to strong sunlight. Plants with very strongly crenate and undulate margins are from exposed habitats, while those with almost entire, flat margins were collected “in the center or leeward side of *Verbena* bushes.” (M. E. Blake 193, 1933, in sched., K).

A few examples are provided in Table 1.

Table 1. Illustrative samples from Kew, to show the range of variation

Sheet	Leaf lobes	L × W (mm)	Det.	Note
Blake 125	9–14	7 × 2.5	<i>squamoso-radicosa</i>	Deeply lobed, deeply bifid
Blake 126	7	12–22 × 1.5–2	<i>squamoso-radicosa</i>	Shallowly lobed, slightly emarginate apex
Blake 130	10	24–27 × 0.8–1	<i>laciniata</i>	Margin entire, slightly inrolled, apex acute
Blake 131	9–12	6–7 × 2.5–3	<i>squamoso-radicosa</i> var. <i>pubescens</i>	Deeply lobed, deeply bifid, pink-red margin, hairy

This led N.Y. Sandwith to annotate one of these sheets, “This seems to show that *O. laciniata* and *O. squamoso-radicosa* are perhaps habitat forms of a single species.”

Experience with cultivated plants also leads to a similar conclusion. Erskine (1994) reports cultivating a plant of *O. laciniata* with extremely dark flowers that always produced straight linear leaflets without undulation. “In April 1993 a pan of this clone produced 5 leaves with marked undulation on each leaflet margin, amongst many leaves without.” He commented, “There must, I think, be suspicion that this is one variable species.”

Both these *Oxalis* are geophytes, with a subterranean rhizome composed of fleshy storage scale leaves, which undergoes a period of complete dormancy each year. Studies of other geophytes such as *Podophyllum peltatum* have revealed that the next season’s growth is formed in the developing subterranean resting bud just prior to the onset of dormancy, usually during summer, when the highest temperatures generally occur (DeMaggio & Wilson, 1986). This process appears to be sensitive to temperature, which may account for the variation in leaf shape. Evidently, plants growing in the

shelter of shrubs would experience lower ground temperatures than those in full sun. In cultivation, a plant grown for several years in a small pot is unlikely to experience much temperature variation across a small container; however, when grown in a larger pan, a more pronounced thermal gradient is likely to be experienced across the container. This range of soil temperature within a larger pan may be sufficient to influence meristems in the warmer part of the medium to switch growth pattern, consequently causing both forms of leaf to appear on the same plant as reported by Erskine (1994) and quoted above.

Further corroboration comes from the distribution in the wild, concerning which Erskine (1994) notes, "*Oxalis laciniata* is found in the province of Santa Cruz near both the east coast and the Andes but avoiding the very dry central steppe" with its more extreme range of temperatures. *Oxalis squamoso-radicosa* has a wider distribution and, notes Erskine, "generally seems to predominate when it occurs with *O. laciniata*."

In view of the above, it is here proposed to reduce *O. squamoso-radicosa* to synonymy.

Oxalis laciniata Cav. *Icon.* **5**: 7, t. 412 (1799)

Synonym: *Oxalis squamoso-radicosa* Steud., *Flora* **39**: 443 (1856)

This has the advantage of retaining the name *O. laciniata*, which is currently used for these plants in cultivation and in horticultural literature, including the *RHS Plant Finder*.

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A review of trunk-forming species of *Furcraea* (*Agavaceae*) in cultivation in the UK

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Introduction

Members of the genus *Furcraea* are monocarpic rosette-forming plants distributed from Mexico into tropical South America. In the wild and in cultivation they make dramatic features due to the large size of their inflorescences, which can reach up to 9m in height and over 2m across, and resemble gigantic yuccas. One species, *F. foetida* (syn. *F. gigantea*), is grown widely in the tropics for the high quality fibre that can be obtained from the leaves. It was the first species to be introduced into cultivation in the UK, being grown at Hampton Court in 1690 (Baker, 1888). Most of the species have tough, rigid leaves, often with marginal spines, but a few (treated by Baker, *l.c.* in subgenus *Roezlia*) have more flexible leaves and lack marginal spines. In that group he included two Mexican species, *F. bedinghausii* and *F. longaeva*, and plants under these two names have been most widely cultivated in the UK since the middle of the nineteenth century. Both these species form distinct trunks over 1m in height and have been reported as being successfully grown outside in milder parts of the British Isles, nowhere more so than Tresco Abbey Gardens on the Isles of Scilly, generally under the name of *F. longaeva*.

In the treatment of the genus in the *European Garden Flora* (Couper, 1986), four species are mentioned as trunk-forming: *F. selloa*, *F. foetida*, *F. bedinghausii* and *F. roezlii*. The first two species are distinct in that they have rigid, rather than leathery flaccid leaves; the latter two species are separated on the basis of trunk height, the habit and colour of the leaves. Rather curiously *F. longaeva* is not

mentioned. Nor is that species mentioned in Irish & Irish (2000) which suggests that it is not currently in cultivation in the US.

In recent years, with the increased interest in growing a wider range of exotics in British gardens, more species of *Furcraea* have appeared in commerce. For years only plants under the name of *F. longaeva* were offered but in the *RHS Plant Finder 1998–99*, *F. bedinghausii* appeared, and rapidly became offered by a number of nurseries that specialize in hardy exotics. Although the species is not new to horticulture, as it is recorded in gardening literature from the 1880s, it seemed to disappear from cultivation in the early part of the twentieth century. Its reappearance raised a question as to its relationship with what is in cultivation under the name of *F. longaeva*; a problem further compounded by the appearance of a wholly unfamiliar species name, *F. parmentieri*, for the first time in the *RHS Plant Finder 2007–2008*, under a collector's code suggesting a new introduction. It became clear that the naming of the species grown in the UK had become confused.

Historical survey

To assist with resolving the problem of the correct name for the plants grown outside in the UK it was necessary to investigate the origin of the plants under these names.

1. *Furcraea longaeva* Karw. & Zucc.

This species was first discovered by Baron Wilhelm Friedrich von Karwinski on Mount Tanga¹ in Oaxaca Province of Mexico, growing at 10,000 feet, in May 1829. It was named and described in 1833, and according to Loudon (1838) was brought to England by Francis Rauch in 1833 (Fig. 1). Only seven plants were introduced and six were sold to Messrs Loddiges' nursery (Loudon, 1838). It flowered in the conservatory of the Regent's Park Botanic Garden in the summer

¹ The modern name and location of this mountain has not, as far as I have been able to determine, been established in botanical literature. It is possibly the one now known as Monte Fiscal-Santos, between San Francisco Cajonos (96° 15' W, 17° 10' N) and Villa de Mitla, west of Oaxaca. Originally known as Mount Tanga, it was re-named for two martyrs who met their end on the mountain.

ARBORETUM.

PART III.



Fig. 1 *Furcraea longaeve*, after J. G. Zuccarini (1833), from Loudon's *Arboretum et Fruticetum Britannicum* (1838).

Zuccarini's original illustration has been designated as the lectotype of the species.

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of 1864 and was described and illustrated for *Curtis's Botanical Magazine* t.5519 (1865). It is next cited, with an engraving taken from a photograph, in flower in a garden in the Scilly Isles in 1876 (Fig. 2). There is a further photograph and a painting by Frances le Marchant reproduced in King (1985) which date from 1875 (although King states that the date of introduction was 1894). From that point on the *Furcraea* growing at Tresco, for that was "the garden in the Scilly Isles", has frequently been reported as *F. longaeva* (see Hunkin, 1944; Arnold-Forster, 1948, with the memorable plate facing p. 330). The connection with the following species is made possible by material in the herbarium at Kew. Together with the specimens in the cultivated folder for *Furcraea*, there is a letter and photograph from Thomas Algernon Dorrien-Smith to Mr Dyer, dated 14 November 1881. The photograph is of a plant that flowered in 1875 and is remarkably similar to the engraved plate published in *Gardeners' Chronicle* cited above. In the letter Dorrien-Smith asks for Kew to determine if the plant is *F. longaeva* or not. He comments that the plants had produced many offshoots² and that these had flowered that year [1881]. He also notes that the original plants were there when he came to Tresco Abbey in 1872.

2. *Furcraea bedinghausii* K. Koch

Like *F. longaeva*, this is a species that originated from Mexico. It was first found by Benedikt Roezl, in Mexico, in January 1857 on Mount Acusca [Ajusco], south of Mexico City, at a height of 4000m (Roezl, 1881). It seems that he was the source of material that entered into cultivation in Europe in the 1860s, initially through Berlin Botanic Garden. The species received a succession of different names over the ten years that followed its introduction but the one that became fixed in the literature was *F. bedinghausii*, named after the Belgian gardener who first flowered it in 1863.

² King (1985: 59) quotes from a letter from Thomas Algernon's wife dated 31 August 1876 saying that the *Furcraea* "has thrown out hundreds of little green shoots all over the hanging branches where the flowers were."



FIG. 16.—FOURCROYA LONGEVA IN A GARDEN IN THE SCILLY ISLES.

Fig. 2 An engraving, taken from a photograph, of the *Furcraea* which flowered on Tresco in 1875, published in *The Gardeners' Chronicle* (1876).

It did not receive a mention in UK horticultural literature until a report by a Mr E. Woodall, who had managed to flower the plant outside against a wall in his garden in Scarborough in the summer of 1890. Mr Woodall had obtained his plant in Nice two years previously, as *Beschorneria yuccoides*, and sent flowering material to Kew for identification. This material was used for a plate and description in *Curtis's Botanical Magazine* t.7170 (1891). William Watson, then Assistant Curator at Kew, in an article on *Furcraea*s in *The Garden* later that year, makes mention of Mr Woodall's achievement but also links it to the plants grown at Tresco. He cites the letter from Dorrien-Smith stating that both plants [of *Furcraea*] present in the garden in 1872 had flowered in 1875 and that they had produced "offshoots" from which further plants had been grown. In the article, Watson draws attention to the other names which this species has been given, amongst which is *Yucca parmentieri*. Watson's article is accompanied by an engraving from a photograph of a plant that had flowered at Adare Manor, County Limerick, which had been grown in a conservatory there.

The species is subsequently reported in *The Garden* as flowering at Trelissick in Cornwall in the summer of 1897. The note states that while *F. longaeva* flourishes at Tresco, *F. bedinghausii* is far more ornamental on account of its pendulous inflorescence forming a curtain around the flower stem. Later reports of *F. bedinghausii* include flowering in South Devon in 1909 (*Gardeners' Chronicle* ser. 3, **46**: 340, 1909), at Pendarves, Camborne, Cornwall in the summer of 1913 (*Gardeners' Chronicle*, ser. 3, **54**: 166–167, 1913) and much more recently in 1972 when it flowered in a garden in Kingsbridge, S. Devon (*JRHS* **79**: 538, 1972). On all these occasions the plants had originated from Tresco, and were received under the name of *F. bedinghausii*, which makes it rather odd that in more recent times even Tresco Abbey Garden has reverted to referring to the plant as *F. longaeva* (King, 1985; Nelhams, 2000: 142).

3. *Furcraea roezlii* André

This name was introduced by André (1887) for a *Furcraea* that flowered in the Jardin d'Acclimatation at Hyères in the south of France. The plant had been grown under the name *Roezlia regia*; the genus name already being in use for a genus in the *Melastomaceae*, André renamed the plant as *F. roezlii*. In his account André gives no indication as to the source of the plants but distinguishes the species from other species of *Furcraea* on account of the spread out appearance of the petals, in contrast to the campanulate appearance of the flowers in the other species. Subsequently André (1895) noted that *F. roezlii* was identical to *F. bedinghausii* Koch based on Baker (1888). However, Trelease (1920) maintained the two species as separate, distinguishing them on the relative length of the leaves and on other features of the leaves. In *F. roezlii*, the leaves are said to be up to 2 metres long, rather concave and often recurved; in *F. bedinghausii* the leaves were given as 50–60cm long, short and stiff, and rather flat. This treatment has been followed by Irish & Irish (2000) who add that the two species also differ in leaf width (*F. roezlii*, approx. 8cm; *F. bedinghausii*, 5–7cm). It is interesting to note that in the same account the trunks of *F. roezlii* are stated to reach 4m, whereas Trelease (1920) gives the height as 1–2m.

Taxonomy

The confusion over the identity of the species in cultivation can be resolved as the Mexican trunk-forming species were revised by García-Mendoza (2000) who provided a key to the species. A translation of the key is provided below:

Key to *Furcraea*

- 1 Leaves with denticulate margins.....2
- 1' Leaves with dentate or dentate-denticulate margins.....5
- 2 Bulbils present, leafy.....3
- 2' Bulbils absent.....4
- 3 Flowers (3.5–)4.5–5.5cm in length, ovary tomentose; leaves 60–90(–120) × 5–10cm, lanceolate, glaucous*F. parmentieri*

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- 3' Flowers 2.5–3.2cm in length, ovary pilose; leaves (90–)120–160 × 6–10cm, linear to linear-lanceolate, green *F. martinezii*
- 4 Flowers (2.5–)3–3.5cm in length, pilose, yellowish; capsules (3.5–)4–5 × 2.5–3(–3.5)cm, subglobose..... *F. longaeva*
- 4' Flowers (5–)5.5–6.5(–7)cm in length, glabrous, green; capsules 5.5–7(–8) × 2–3(–3.5)cm, oblong *F. quicheensis*
- 5 Flowers 3.5–4cm in length; bulbils 4–7(–8.5) × 1.2–1.6cm, conical; leaves with marginal teeth up to 2–4mm *F. macdougallii*
- 5' Flowers 6.5–7.5(–8)cm in length; bulbils 5–7(–11) × 4.5–6.5cm, spheroidal to broadly conical, marginal teeth to 5–6(–8)mm.... *F. niquivilensis*

In the treatment by García-Mendoza (2000), *Furcraea bedinghausii* is considered as a synonym of *F. parmentieri*, which turns out to be the earliest name provided for this species. From the key and the descriptions provided by García-Mendoza, the two species can be compared (Table 1).

It is therefore evident that there is only one species of *Furcraea* that, at present, is widely grown outside in the UK and it is the species with pendent branch ends to the inflorescence and which bears bulbils after flowering, namely *F. parmentieri*.

Table 1. Comparison of *F. parmentieri* and *F. longaeva*

Character	<i>F. parmentieri</i>	<i>F. longaeva</i>
Inflorescence branch ends	pendent	straight
Bulbils	present	absent
Leaves	glaucous	dark green
Leaf length (cm)	60–90(–120)	120–160
Leaf width (cm)	5–10	10–14(–17)
Underside	roughened	smooth

This is borne out by a study of the material held in the herbarium at Kew which, in addition to the material cited above from Tresco, includes specimens of the Tresco plant that flowered in 1881, with bulbils and seed pod. There is also the specimen from Mr Woodall that was used for the illustration in the *Botanical Magazine* cited above, as well as specimens from plants grown at Kew (1878) and La Mortola (1895). All have been identified by Baker as *F. bedinghausii*.

It seems highly likely that after its initial introduction in 1833, *Furcraea longaevea* was lost to cultivation in the UK some time in the 1860s or 1870s. This name should not be used for plants currently being grown as hardy exotics in our gardens.

Nomenclature

Furcraea parmentieri (Roezl ex Ortgies) García-Mendoza, *Boletín de la Sociedad Botánica de México* **66**: 115, 2000.

Basionym: *Yucca parmentieri* Roezl ex Ortgies, *Gartenflora* **8**: 278, 1859.

= *Furcraea bedinghausii* K. Koch, *Wochenschrift des Vereines zur Beförderung des Gartenbaues in den Königlich Preussischen Staaten für Gärtnerei und Pflanzenkunde* **6**: 233, 1863.

= *Roezlia regia* Lem., *L'illustration Horticole* **10**: 43, 1863.

= *Roezlia bulbifera* Roezl, *Deutsche Gärtner-Zeitung* **5**: 154, 1881 (nom. illegit.).

= *Fourcroya roezlii* André, *Revue Horticole* **59**: 353, 1887.

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New combinations for the varieties of *Sinopodophyllum hexandrum*

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While in the monograph on *Epimedium* Stearn (2002) considered that there were two genera in the *Podophylloideae*, *Diphylleia* and *Podophyllum*, some other workers divide *Podophyllum* into three genera: *Podophyllum* confined to *P. peltatum*, *Dysosma* for the Eastern Asiatic taxa, and *Sinopodophyllum*, for the Himalayan plant often known as *Podophyllum hexandrum*. The decision to recognise *Sinopodophyllum* is based on several characters that are often used at generic level. While some of these characters are associated with the breeding system, such as pollen exine sculpture and pollen grains released in tetrads, other characters appear more fundamental, including the unique shape of the first leaf which is always palmately trilobed, ovule orientation, and seed shape and structure. These morphological characters provided the basis for Ying (1979) to establish *Sinopodophyllum*.

Several molecular studies have concluded that the *Podophylloideae* is monophyletic including Liu *et al.* (2002) and Wang *et al.* (2007). Kim *et al.* (2003), using the chloroplast gene *ndhF*, also inferred the monophyly of the *Podophyllum* group, and found that the *Sinopodophyllum-Dysosma* clade was more closely related to *Diphylleia* than to *Podophyllum peltatum*. Gong *et al.* (2006) have shown that chloroplast *trnD-trnT* region can be used to separate *S. hexandrum* from *Dysosma* spp. More detailed studies that include representatives of all four genera in the *Podophylloideae* along with a greater number of DNA sequences are needed to resolve the relationships within this group.

Much attention has been focused on investigating the relationship between the North American *P. peltatum* and the Asiatic *S. hexandrum*, probably influenced by the many studies in this remarkable disjunction. In fact, Ma and Hu (1997) concluded from their analysis that there was "no direct relationship between *Podophyllum* and *Sinopodophyllum*", which appears to be an overstatement, when morphological and phytochemical data are considered. It would be more informative to focus on the relationship between *P. peltatum* and the *Dysosma* group which have most characters in common. The only consistent characters separating these entities are the elongated internodes of the rhizome and extra stamens present in *P. peltatum*. Hybrids between *P. peltatum* and species of section *Dysosma* have been obtained by several investigators without difficulty.

Sinopodophyllum hexandrum (Royle) T. S. Ying has long been recognised as a very variable taxon. This has recently been studied by Sultan *et al.* (2008) using genetic and phytochemical markers. Their work has revealed a strong correlation between phytochemistry and DNA polymorphism, and demonstrated that morphologically distinct accessions are distinguishable using phytochemistry and by molecular methods. It is therefore useful to establish the correct names to use for the infraspecific taxa.

Wallich, who first proposed the name *Podophyllum emodi* for the species in 1824, also added a variety *royleana* [sic] for the variant with dissected leaflets. However, as both names were published without a description they are invalid as *nomina nuda*. Royle (1834) published the name *Podophyllum hexandrum* and also recognised two taxa. He applied the name *P. emodi* Wall. to the plant with a trilobed leaf and described his *P. hexandrum* as having "leaves 3- or 5-lobed, with the lobes narrowly acute and serrulate towards the apex". This description no doubt influenced Soejarto *et al.* (1981) in choosing the dissected leaved specimen on the right hand side of Royle's herbarium sheet when lectotypifying *P. hexandrum*. There is

no doubt therefore that plants with deeply dissected leaf lobes are correctly var. *hexandrum*.

Chatterjee & Mukerjee (Chatterjee, 1953) described a number of varieties attributed to *P. emodi* (a synonym of *S. hexandrum*) based on foliar characters and position of the flower. In addition to accepting the two distinctive leaf shapes as the basis for varieties, they also recognised a var. *jaeschkei* based on a specimen with the leaf still partly folded and unexpanded; a var. *bhootanense* with the flower inserted just below the upper leaf lamina; and a var. *axillare* with the flower inserted in the axil between the two petioles. These varieties were transferred to *P. hexandrum* by Browicz (1973).

Due to the sympodial organisation and vasculature of the aerial shoot in *Sinopodophyllum* the point at which the flower is inserted along the petiole is very unstable. A single individual plant may produce several aerial shoots bearing the flower in different positions that range from near the axil to just under the leaf lamina. This has been investigated by Martin (1958) and is discussed further in Shaw (2002). Such an unstable character is not a sound basis for the creation of botanical varieties, hence the varieties proposed by Chatterjee & Mukerjee are reduced to synonymy below.

It should also be noted that the position of the inflorescence is unstable in many taxa of *Podophyllum* section *Dysosma*. Consequently, this raises serious doubts as to the nature of some entities based on this character in the draft *Flora of China* account¹. This instability could lead to an individual plant being identified as *Dysosma aurantiocaulis* in one season and subsequently being determined as *Dysosma tsayuensis* another year. However, a detailed consideration of this problem is beyond the scope of this short note.

A sheet of the Jaeschke collection at Edinburgh has the leaves expanded and provides a basis for identifying var. *jaeschkei* as the trilobed foliage variant.

¹ <http://flora.huh.harvard.edu/china/mss/volume19/Berberidaceae.pdf>

Another variety, particularly desirable in horticulture, is based on plants from China with dissected foliage often with dark purple-brown mottling, sepals often with long linear trichomes on the exterior surface and petals with deep rose-pink, sometimes crimson-flecked, exterior. It was described as var. *chinense* by Sprague, and illustrated in the *Botanical Magazine* in 1920.

Nomenclature of the subspecific taxa of *Sinopodophyllum hexandrum*

S. hexandrum* var. *hexandrum

This is the autonym based on the lectotype specimen designated by Soejarto *et al.* (1981), at LIV-Herb. Royle, specimen on the right-hand side of sheet 13/1.

= *Podophyllum emodi* var. *royleanum* Wall., *Numer. List*, 814C (1829) *nom. nud.*

= *P. emodi* var. *hexandrum* (Royle) R. Chatterjee & Mukerjee, *Records of the Botanical Survey of India* **16**(2): 45 (1953).

S. hexandrum* var. *emodi* (Wall. ex Hook. f. & Thomson) J.M.H. Shaw **comb. nov.*

Basionym: *Podophyllum emodi* Wall. ex Hook. f. & Thomson, *Flora Indica* **1**: 232 (1855).

= *P. emodi* var. *emodi*. Although this name does not appear in Chatterjee & Mukerjee (1953) it is brought into existence by their description of other varieties within *P. emodi*. As the autonym it takes priority over the other varietal names responsible for its existence (ICBN Art. 11.6).

= *P. hexandrum* var. *emodi* (Wall. ex Hook. f. & Thomson) Seliv.-Gor., *Botanicheskii Zhurnal* (Moscow & Leningrad) **54**(10): 1605 (1969).

= *P. emodi* var. *axillare* R. Chatterjee & Mukerjee, *Records of the Botanical Survey of India* **16**(2): 46 (1953).

= *P. hexandrum* var. *axillare* (R. Chatterjee & Mukerjee) Browicz, *Flora Iranica* **101**: 2 (1973).

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- = *P. emodi* var. *bhootanense* R. Chatterjee & Mukerjee, *Records of the Botanical Survey of India* **16**(2): 46–47 (1953).
 - = *P. hexandrum* var. *bhootanense* (R. Chatterjee & Mukerjee) Browicz, *Flora Iranica* **101**: 2 (1973).
 - = *P. emodi* var. *jaeschkei* R. Chatterjee & Mukerjee, *Records of the Botanical Survey of India* **16**(2): 47 (1953).
 - = *P. hexandrum* var. *jaeschkei* (R. Chatterjee & Mukerjee) Browicz, *Flora Iranica* **101**: 2 (1973).

S. hexandrum var. *emodi* 'Majus' *Hortus Third* **2**: 891, 1976 [as 'Major'].

= *P. hexandrum* var. *majus* hort., Wehrhahn, *Die Gartenstauden* **1**: 451, 1931, see also Rix (1982).

S. hexandrum var. *chinense* (Sprague) Stearn ex J.M.H. Shaw & Cubey **comb. nov.**

Basionym: *Podophyllum emodi* var. *chinense* Sprague, *Botanical Magazine* **146**: t. 8850 (1920).

= *P. hexandrum* var. *chinense* (Sprague) Stearn in MS (1933) *ined.*

= *P. hexandrum* var. *chinense* (Sprague) Stearn ex Cubey, *Hanburyana* **3**: 81 (2008).

= *P. leichtlinii* Langlet, *Svensk Botanisk Tidskrift* **22**: 176 (1928) *nom. nud.*

This taxon is sometimes listed as *P. hexandrum* 'Chinense' in nursery catalogues.

Key to varieties of *S. hexandrum*

Note. Since seedlings of all varieties first produce leaves without deep dissection like var. *emodi*, only mature or flowering plants can be identified with this key. While this key may work on plants in cultivation where self-pollinating inbred lines are selected and maintained, in the wild there is greater variation, and intermediates occur, partly due to limited outbreeding between varieties. Such individuals often produce very short aborted anthers with sterile pollen and in

cultivation have been called var. “substerilis”—a name which is neither valid under the *ICBN*, nor suitable as a cultivar epithet.

- 1a. Leaves 3-lobed at maturity, lobes more or less entire.....var. *emodi*
 1b. Leaves 3–5 lobed at maturity, lobes dissected2
 2a. Petals deep rose pink on exterior surface, China..... var. *chinense*
 2b. Petals white to pale pink, Afghanistan to Bhutanvar. *hexandrum*

Postscript. Subsequent to preparing the above note, the combination *Podophyllum hexandrum* var. *sikkimense* (Chatterjee & Mukerjee) R.C. Srivastava, *Flora of Sikkim*: 62 (1998)² came to light. It should be noted that *Podophyllum sikkimense* is better treated as a synonym of *P. aurantiocaulis*. The isotype at BM! has pollen in monads and the characteristic leaf margins of *P. aurantiocaulis*. *Sinopodophyllum hexandrum* releases pollen in tetrads, and has simple leaf marginal teeth. See Shaw in Stearn (2002: 301–302), Grierson & Long, *Flora of Bhutan* 1(2): 329 (1984).

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² Oriental Enterprises, Dehra Dun, India. (There is no volume number given on this part, which covers *Ranunculaceae–Moringaceae*. *Flora of Sikkim* vol. 1 covering Monocotyledons appeared in 1996, edited by Hajra, P.K. & Verma, D.M., published by Botanical Survey of India. Since then, some further families have appeared as separate works, e.g. Kumar, S. & Singh, V. (2001), *Asteraceae of Sikkim*, Deep Publications, New Delhi.)

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Nomenclatural standards for cultivated plants at the United States National Arboretum Herbarium (NA)

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The Nomenclatural Standards listed below were originally privately published in 2007 (Voss, 2007) and a limited number of copies were distributed to Libraries as cited below. However, since it would be useful to make the list more widely available it is re-published below.

Preface

The *International Code of Nomenclature for Cultivated Plants* (ICNCP) has introduced the practice of designating an herbarium specimen or equivalent material as a nomenclatural standard “to make clear the precise application of the name” of a cultivated variety or Group (Brickell *et al.*, 2004). Voucher specimens submitted in connection with registration of cultivar epithets are frequently designated as standards. This list was published to effect the designation of nomenclatural standards held by the herbarium of the US National Arboretum in conformity with *ICNCP*, Division V: Nomenclatural Standards, Clause 7. For the purpose of priority (Clause 8), the date of designation of these standards is 2 July 2007.

The standards held in the herbarium of the US National Arboretum include representative specimens of cultivars in *Lagerstroemia*, *Pyracantha*, and *Viburnum* introduced by Dr Don Egolf, long-time shrub breeder at the Arboretum. The major share of *Ilex* standards is attributable to Mr Gene Eisenbeiss’s long tenure as registrar for the Holly Society of America. Miscellaneous woody plant standards were deposited by Longwood Gardens and US National Arboretum registrars representing the American Association of Botanical Gardens and Arboreta (now named the American Public Gardens Association).

¹ Volunteer, United States National Arboretum Herbarium

In many genera, herbarium specimens have only limited value for identification. For example, dried plant material offers little clue to the flower colour and colour patterning that is diagnostic in distinguishing many azaleas. In holly, flower colour is of little concern but leaf form and fruit are of primary interest. It is important that colour and other fugitive diagnostic features be reported for inclusion in a standard portfolio. Photographs may provide useful information, such as plant habit, that is essential to interpreting application of the name. Colour is a particularly difficult matter: vernacular colour names are often misleading, and photographic reproduction is not reliable. Although high-quality colour charts are expensive, those naming cultivars should seek to evaluate diagnostic colours by reference to the Munsell Book of Color or the Royal Horticultural Society Colour Chart.

Preparation and speed in transmittal of plant material affects the value of herbarium specimens to be held as standards. Proper packing and expedited handling need to be observed at each step along the way from the plant to the herbarium. The finest specimen, freshly cut and then enclosed in a plastic bag and mailed by parcel post, may turn into blackened, mouldy trash before it reaches the herbarium.

Before "Standards" were introduced in the 1995 edition of the *ICNCP*, Dr Egolf instituted the practice of preparing sets of herbarium sheets to document his plant introductions. These sets typically comprised separate sheets for flowers, foliage, fruit, photographs, and documentation relating to release of the cultivar. Subsequently, the practice of combining sheets of authentic material into numbered sets was continued. Because flowers, mature foliage, and fruit are generally not available at the same time, these specimens necessarily result from different gatherings.

A standard is defined as an herbarium specimen or its equivalent, and an herbarium specimen is understood to be plant material from

a single gathering. Accordingly, where a numbered set contains sheets from more than one gathering, a single sheet has been selected as the standard and, in Voss 2007, was identified by setting the plant name in boldface. Other sheets from the set belong to the standard portfolio, and were listed to indicate the nature of material available for study. In some cases, the plant material from a single gathering may be mounted on more than one sheet; this usually occurs when plant parts are unusually large, as in the case of *Musa*.

Each entry in the checklist shows a barcode number identifying the sheet, the name of the cultivar, letter code(s) indicating the nature of the material, and in some cases a sheet number. The letter codes used to indicate the character of the material on each sheet differ from those used by the Royal Horticultural Society (Grayer, 2006). A specimen may have flower buds, flowers, or fruit but may or may not have foliage. The codes appearing in the following list are:

The list does not include references to digital images.

FL	flower or flower bud	PT	painting
FO	foliage	BW	b&w photograph
FR	fruit	CP	colour photograph or slide
RT	root	OM	other image
DD	descriptive data		

Copies of the publication were dispatched to the following libraries on 2 July 2007:

Arnold Arboretum	Bailey Hortorium
Biology Dept., Texas A&M	Brooklyn Botanic Garden
Helen Crocker Russell Library	Morton Arboretum
Royal Horticultural Society	USDA National Agricultural Library
US Library of Congress	US National Arboretum

List of Standards

NA Barcode

Standard specimen

NA-0025305	<i>Abies</i> 'Amaral Franco' [FR] # 1 of 2
NA-0025307	<i>Acer</i> 'Autumn Moon' [FO CP]
NA-0025308	<i>Acer</i> 'Brocade' [FL FO]
NA-0025309	<i>Acer</i> 'Coonara Pygmy' [FO]
NA-0025310	<i>Acer</i> 'Fairy Lights' [FO]
NA-0025311	<i>Acer</i> 'Green Trompenburg' [FO CP]
NA-0025312	<i>Acer</i> 'Hoshi Kuzu' [FO CP]
NA-0025313	<i>Acer</i> 'Hupp's Dwarf' [FO CP]
NA-0025314	<i>Acer</i> 'Jeffersred' [FO CP]
NA-0025315	<i>Acer</i> 'Lockington Gem' [FO CP]
NA-0035963	<i>Acer</i> 'Lockstead' [FO CP]
NA-0025317	<i>Acer</i> 'Marmo' [FO] # 2 of 3
NA-0025319	<i>Acer</i> 'Peaches & Cream' [FO CP]
NA-0025320	<i>Acer</i> 'Purple Key' [FO FR]
NA-0025321	<i>Acer</i> 'Sunset' [FO CP]
NA-0025322	<i>Acer</i> 'Tennyo-no-hoshi' [FO]
NA-0025323	<i>Acer</i> 'Warburton Pygmy' [FO CP]
NA-0025324	<i>Acer</i> 'Wilson's Pink Dwarf' [FO CP]
NA-0025325	<i>Acer</i> 'Winter Gold' [FO CP]
NA-0025326	<i>Acer</i> 'Yellow Flower' [FL FO]
NA-0025328	<i>Agropyron</i> 'Secar' [FL FO]
NA-0025329	<i>Alnus</i> 'Charles Howlett' [FO CP]
NA-0025330	<i>Amorpha</i> 'Dark Lance' [FL FO CP]
NA-0025331	<i>Arctostaphylos</i> 'Bert Johnson' [FO CP]
NA-0025332	<i>Arctostaphylos</i> 'Green Supreme' [FO CP]
NA-0025333	<i>Arctostaphylos</i> 'Knobcone Point' [FO CP]
NA-0025334	<i>Arctostaphylos</i> 'Lillian' [FO CP]
NA-0025335	<i>Arctostaphylos</i> 'Pink Glory' [FL FO FR CP]
NA-0025336	<i>Arctostaphylos</i> 'Point St. George' [FO FR CP]
NA-0025337	<i>Arctostaphylos</i> 'Vancouver Jade' [FO FR CP]
NA-0025338	<i>Arctostaphylos</i> 'White Cloud' [FL FO CP]
NA-0025339	<i>Artemisia</i> 'Silver Brocade' [FL FO CP]
NA-0025343	<i>Atriplex</i> 'Santa Rita' [FL FO FR]
NA-0025340	<i>Baccharis</i> 'Inca Gem' [FL FO CP]
NA-0035960	<i>Betula</i> 'Crimson Frost' [FO]
NA-0025341	<i>Betula</i> 'Trost Dwarf' [FO CP]
NA-0025342	<i>Betula</i> 'Whitespire' [FL FO FR]
NA-0035962	<i>Buddleja</i> 'Golden Sovereign' [FO]
NA-0025001	<i>Buxus</i> 'Heinrich Bruns' [FO BW]
NA-0025345	<i>Callistemon</i> 'Harkness' [FL FO FR]
NA-0025910	<i>Calycanthus</i> 'Athens' [FL FO]
NA-0025911	<i>Calycanthus</i> 'Margarita' [FL FO]
NA-0025348	<i>Camellia</i> 'Daisy Eagleson' [FL FO FR CP] # 1 of 3
NA-0025349	<i>Camellia</i> 'Frost Princess' [FL FO]
NA-0025350	<i>Camellia</i> 'Glen Arden' [FL FO CP]

NA-0025351	<i>Camellia</i> 'Jaune' [FL FO]
NA-0025352	<i>Camellia</i> 'Pink Icicle' [FL FO]
NA-0025353	<i>Camellia</i> 'Polar Ice' [FL FO]
NA-0025354	<i>Camellia</i> 'Rev. T. Drayton' [FL FO]
NA-0025355	<i>Camellia</i> 'Sharon Elizabeth' [FL FO CP]
NA-0027995	<i>Camellia</i> 'Snow Flurry' [FL FO CP]
NA-0028000	<i>Camellia</i> 'Winter's Charm' [FL FO CP]
NA-0035595	<i>Camellia</i> 'Winter's Fire' [FL FO CP]
NA-0025356	<i>Camellia</i> 'Winter's Hope' [FL FO]
NA-0027999	<i>Camellia</i> 'Winter's Peony' [FL FO CP]
NA-0025357	<i>Camellia</i> 'Winter's Rose' [FL FO]
NA-0025358	<i>Carya</i> 'Norton' [FO]
NA-0035970	<i>Cassia</i> 'Lunalilo Yellow' [FL] # 1 of 2
NA-0035972	<i>Cassia</i> 'Lunalilo Yellow' [FO] # 2 of 2
NA-0035965	<i>Cassia</i> 'Queen's Hospital White' [FL] # 1 of 2
NA-0035966	<i>Cassia</i> 'Queen's Hospital White' [FO] # 2 of 2
NA-0035968	<i>Cassia</i> 'Wilhelmina Tenney' [FL] # 1 of 2
NA-0035969	<i>Cassia</i> 'Wilhelmina Tenney' [FO] # 2 of 2
NA-0025360	<i>Castanea</i> 'Clapper Chestnut' [FO]
NA-0025361	<i>Castanea</i> 'Crane' [FO FR]
NA-0025362	<i>Castanea</i> 'Orrin' [FO FR]
NA-0025363	<i>Ceanothus</i> 'Olympic Lake' [FL FO]
NA-0025364	<i>Celastrus</i> 'Cornell' [FO CP]
NA-0025365	<i>Celosia</i> 'Malayan Fantasy' [FL FO BW]
NA-0025366	<i>Celtis</i> 'Chicagoland' [FO CP]
NA-0025367	<i>Celtis</i> 'Windy City' [FO CP]
NA-0035734	<i>Cercis</i> 'Don Egolf' [FO] heet 1 of 2
NA-0025369	<i>Cercis</i> 'Forest Pansy' [FO FR]
NA-0025371	<i>Chamaecyparis</i> 'Fulleri' [FO]
NA-0025370	<i>Chamaecyparis</i> 'Pena Park' [FO FR]
NA-0025372	<i>Chamaecyparis</i> 'Qiana' [FO FR]
NA-0035711	<i>Chamaecyparis</i> 'Tom's Blue' [FO]
NA-0025373	<i>Chilopsis</i> 'Dark Storm' [FL FO CP]
NA-0025374	<i>Chilopsis</i> 'White Storm' [FL FO CP]
NA-0025375	<i>Clematis</i> 'Betty Corning' [FL FO]
NA-0025376	<i>Clematis</i> 'Henderson Rubra' [FL FO] # 1 of 2
NA-0025377	<i>Clematis</i> 'Henderson Rubra' [FL FO] # 2 of 2
NA-0025378	<i>Clematis</i> 'Prairie River' [FL FO]
NA-0025380	<i>Clethra</i> 'Hummingbird' [FL FO CP]
NA-0025382	<i>Cornus</i> 'Ruby' [FL FO]
NA-0025383	<i>Cornus</i> 'Welch Junior Miss' [FL CP]
NA-0025384	<i>Cornus</i> 'White Wonder' [FL FO]
NA-0025385	<i>Corylus</i> 'Piedmont' [FL FO]
NA-0025387	<i>Corylus</i> 'Potomac' [FO FR] # 2 of 2
NA-0025389	<i>Corylus</i> 'Reed' [FO FR] # 2 of 2
NA-0025390	<i>Corylus</i> 'Rush' [FL]
NA-0025391	<i>Crataegus</i> 'Pink Corkscrew' [FO]
NA-0025392	<i>Cuphea</i> 'Starfire' [FL FO CP] # 1 of 2
NA-0025395	<i>Cynodon</i> 'Tufcote' [FL FO]
NA-0025396	<i>Daphne</i> 'Ringmaster' [FL FO]

NA-0035708	<i>Digitaria</i> 'Loetta' [FL FO]
NA-0025398	<i>Distylium</i> 'Akebono' [FL FO]
NA-0025399	<i>Dombeya</i> 'Pinwheel' [FL FO] # 1 of 2
NA-0025400	<i>Dombeya</i> 'Pinwheel' [FL CP] # 2 of 2
NA-0025401	<i>Dombeya</i> 'Rosemound' [FL FO CP]
NA-0025403	<i>Dombeya</i> 'Seminole' [FL FO] # 1 of 2
NA-0025405	<i>Elaeagnus</i> 'Quicksilver' [FO CP]
NA-0025406	<i>Enchylaena</i> 'Stick-fast' [FO]
NA-0025407	<i>Erica</i> 'Evening Glow' [FL FO]
NA-0025409	<i>Euonymus</i> 'Beverly' [FO]
NA-0010892	<i>Euonymus</i> 'Green Spire' [FO] # 1 of 2
NA-0025411	<i>Euonymus</i> 'Longwood' [FO]
NA-0035961	<i>Euonymus</i> 'Sunrise' [FO]
NA-0025412	<i>Euonymus</i> 'Surespot' [FO CP]
NA-0025413	<i>Eurya</i> 'Winter Wine' [FL FO CP]
NA-0025415	<i>Festuca</i> 'Covar' [FL FO]
NA-0025417	<i>Forsythia</i> 'Ilgwang' [FL FO]
NA-0025418	<i>Forsythia</i> 'Winterthur' [FL]
NA-0025419	<i>Fothergilla</i> 'Blue Mist' [FO FR CP] # 1 of 2
NA-0025421	<i>Fraxinus</i> 'Chicago Regal' [FO CP]
NA-0025422	<i>Fraxinus</i> 'Elk Grove' [FO CP]
NA-0035967	<i>Fraxinus</i> 'Harlequin' [FO]
NA-0025423	<i>Fraxinus</i> 'King Richard' [FO CP]
NA-0025424	<i>Fraxinus</i> 'Robinhood' [FO CP]
NA-0025425	<i>Fraxinus</i> 'Royal Purple' [FO CP]
NA-0025426	<i>Fraxinus</i> 'Sherwood Glen' [FO CP]
NA-0025427	<i>Fremontodendron</i> 'Margo' [FL FO CP]
NA-0025428	<i>Gelsemium</i> 'Pride of Augusta' [FL FO CP]
NA-0025429	<i>Genista</i> 'Vancouver Gold' [FL FO]
NA-0025430	<i>Gladanthera</i> 'Lucky Star' [FL FO BW CP]
NA-0025431	<i>Gloriosa</i> 'Wilhelmina Greene' [FL FO FR]
NA-0035710	<i>Hamamelis</i> 'Early Bright' [FL]
NA-0035813	<i>Hamamelis</i> 'January Pride' [FO FR CP] # 2 of 2
NA-0025432	<i>Hedera</i> 'Anchor' [FO]
NA-0025433	<i>Hedera</i> 'Carolina Crinkle' [FO]
NA-0025434	<i>Hedera</i> 'Cathedral Wall' [FO]
NA-0025435	<i>Hedera</i> 'Ferney' [FO]
NA-0025436	<i>Hedera</i> 'Four Square' [FO]
NA-0025437	<i>Hedera</i> 'Freed's Miniature' [FO]
NA-0025438	<i>Hedera</i> 'Gladiator' [FO]
NA-0025439	<i>Hedera</i> 'Green Finger' [FO]
NA-0025440	<i>Hedera</i> 'Mount Vernon' [FO]
NA-0025441	<i>Hedera</i> 'Permanent Wave' [FO]
NA-0025442	<i>Hedera</i> 'Preston Tiny' [FO]
NA-0025443	<i>Hedera</i> 'Rubauyet' [FO]
NA-0025444	<i>Hedera</i> 'Teena' [FO]
NA-0025445	<i>Hedera</i> 'Trustee' [FO]
NA-0025446	<i>Hedera</i> 'Yalta' [FO]
NA-0035732	<i>Hemerocallis</i> 'Chesapeake Belle' [FL FO]
NA-0025448	<i>Hibiscus</i> 'Diana' [FL FO] # 2 of 3

NA-0025453	<i>Hibiscus</i> 'Pamela Frances' [FL FO]
NA-0025454	<i>Hibiscus</i> 'Vulcan' [FL FO] # 1 of 5
NA-0025461	<i>Hibiscus</i> 'Winifred Stepney' [FL FO] # 1 of 3
NA-0025465	<i>Hypericum</i> 'Sunburst' [FL FO CP]
NA-0025002	<i>Ilex</i> '24 Karat' [FO FR]
NA-0025467	<i>Ilex</i> 'Accent' [FL FO]
NA-0025004	<i>Ilex</i> 'Adaptable' [FO FR]
NA-0025005	<i>Ilex</i> 'Afterglow' [FR]
NA-0025006	<i>Ilex</i> 'Aglo' [FO FR]
NA-0025007	<i>Ilex</i> 'Alagold' [FO FR]
NA-0035629	<i>Ilex</i> 'Alfred Anderson' [FO FR]
NA-0025008	<i>Ilex</i> 'Alfred Colon' [FO]
NA-0025233	<i>Ilex</i> 'Alice' [FO]
NA-0025009	<i>Ilex</i> 'Amazon' [FO FR]
NA-0025010	<i>Ilex</i> 'Amy Joel' [FO]
NA-0025471	<i>Ilex</i> 'Angyo' [FO]
NA-0025012	<i>Ilex</i> 'Anicet Delcambre' [FO FR]
NA-0025014	<i>Ilex</i> 'Anna-Mae' [FO]
NA-0025013	<i>Ilex</i> 'Anne Arundel' [FO FR]
NA-0025015	<i>Ilex</i> 'Apricot Glow' [FO FR]
NA-0035631	<i>Ilex</i> 'Aquinnah' [FL FO] # 1 of 2
NA-0025016	<i>Ilex</i> 'Arden' [FO FR]
NA-0050450	<i>Ilex</i> 'Arthur Bruner' [FL FO CP]
NA-0025017	<i>Ilex</i> 'Audrey' [FO FR]
NA-0035632	<i>Ilex</i> 'Autumn Glow' [FL FO]
NA-0025018	<i>Ilex</i> 'Avery Island' [FO FR]
NA-0025019	<i>Ilex</i> 'B. & O.' [FO FR]
NA-0050442	<i>Ilex</i> 'Baltimore Buzz' [FL FO CP]
NA-0025020	<i>Ilex</i> 'Barbarossa' [FO]
NA-0025021	<i>Ilex</i> 'Barnard Luce' [FO FR]
NA-0035784	<i>Ilex</i> 'Bear Crossing' [FO FR]
NA-0035785	<i>Ilex</i> 'Bear Station' [FL FO CP]
NA-0025022	<i>Ilex</i> 'Beautiful Ohio' [FO FR]
NA-0035634	<i>Ilex</i> 'Belgica Aurea' [FO]
NA-0025928	<i>Ilex</i> 'Berkeley' [FO CP]
NA-0025023	<i>Ilex</i> 'Betty Brite' [FO FR]
NA-0025024	<i>Ilex</i> 'Betty Hills' [FO FR]
NA-0035637	<i>Ilex</i> 'Betty's Beau' [FL FO]
NA-0025931	<i>Ilex</i> 'Bill Clark' [FO CP]
NA-0025025	<i>Ilex</i> 'Birmingham' [FO FR CP]
NA-0025026	<i>Ilex</i> 'Blazer' [FO FR]
NA-0035978	<i>Ilex</i> 'Blue Blooded Babe' [FO FR CP]
NA-0035638	<i>Ilex</i> 'Bob Bruner' [FL FO]
NA-0025027	<i>Ilex</i> 'Bonfire' [FR]
NA-0035639	<i>Ilex</i> 'Bracey' [FO FR]
NA-0025028	<i>Ilex</i> 'Brawley' [FO FR]
NA-0025029	<i>Ilex</i> 'Bright Horizon' [FL FO]
NA-0025030	<i>Ilex</i> 'Buxton' [FO FR]
NA-0025031	<i>Ilex</i> 'Byers Golden' [FO FR BW] # 1 of 2
NA-0025032	<i>Ilex</i> 'Cacapon' [FO]

NA-0025033	<i>Ilex</i> 'Cajun Gold' [FO]
NA-0025034	<i>Ilex</i> 'Calloway' [FO FR]
NA-0025039	<i>Ilex</i> 'Cape Christmas' [FO]
NA-0025035	<i>Ilex</i> 'Carefree' [FO]
NA-0025036	<i>Ilex</i> 'Chameleon' [FO FR]
NA-0035644	<i>Ilex</i> 'Chickemoo' [FL FO]
NA-0025037	<i>Ilex</i> 'Chieftain' [FO]
NA-0041380	<i>Ilex</i> 'Chollipo' [FO FR]
NA-0025038	<i>Ilex</i> 'Christmas Gem' [FO FR]
NA-0035642	<i>Ilex</i> 'Clarendon Bat Wing' [FO FR]
NA-0035640	<i>Ilex</i> 'Clarendon Spreading' [FO FR]
NA-0025042	<i>Ilex</i> 'Clusterberry' [FO FR] # 2 of 2
NA-0035646	<i>Ilex</i> 'Coronet' [FL FO FR]
NA-0025043	<i>Ilex</i> 'Crescent' [FO]
NA-0025044	<i>Ilex</i> 'Crinkle Variegated' [FO FR]
NA-0025045	<i>Ilex</i> 'Croonenberg' [FO FR]
NA-0025046	<i>Ilex</i> 'Cumberland' [FO FR]
NA-0025047	<i>Ilex</i> 'Dan Fenton' [FO FR]
NA-0025048	<i>Ilex</i> 'Danny Allen' [FO FR]
NA-0035647	<i>Ilex</i> 'Dapper' [FO]
NA-0025049	<i>Ilex</i> 'Dare County' [FL FO FR]
NA-0025050	<i>Ilex</i> 'Delaware Red' [FO FR]
NA-0025051	<i>Ilex</i> 'Doctor Kassab' [FO]
NA-0025052	<i>Ilex</i> 'Dr James Foret' [FO FR]
NA-0025053	<i>Ilex</i> 'Dr John Creech' [FO FR]
NA-0025054	<i>Ilex</i> 'Dr T.B. Symons' [FO]
NA-0025055	<i>Ilex</i> 'Dwarf Burford' [FO]
NA-0025482	<i>Ilex</i> 'Dwarf Cone' [FO]
NA-0025057	<i>Ilex</i> 'Dwarf Pagoda' [FO]
NA-0025058	<i>Ilex</i> 'E.A. McIlhenny' [FO FR]
NA-0025060	<i>Ilex</i> 'Eagleson' [FO FR] # 2 of 2
NA-0025061	<i>Ilex</i> 'Earlibright' [FL FO] # 1 of 3
NA-0035652	<i>Ilex</i> 'Ebersole Select' [FO FR]
NA-0035690	<i>Ilex</i> 'Ed Adams' [FO FR] # 2 of 2
NA-0025063	<i>Ilex</i> 'Edna Jean' [FO]
NA-0025069	<i>Ilex</i> 'Edward Nosal' [FO]
NA-0025064	<i>Ilex</i> 'Eldridge' [FO FR]
NA-0025065	<i>Ilex</i> 'Elegance' [FO FR] # 2 of 2
NA-0025066	<i>Ilex</i> 'Emily Bruner' [FO FR]
NA-0025067	<i>Ilex</i> 'Erma Byrd' [FO FR]
NA-0025068	<i>Ilex</i> 'Evangeline' [FO FR]
NA-0025070	<i>Ilex</i> 'Fairfax' [FL FO] # 1 of 2
NA-0025072	<i>Ilex</i> 'Faulkner' [FO FR BW DD]
NA-0035654	<i>Ilex</i> 'Fenton II' [FO]
NA-0035729	<i>Ilex</i> 'Ferris' Dream' [FO FR]
NA-0035655	<i>Ilex</i> 'Fine Line' [FO FR]
NA-0025073	<i>Ilex</i> 'Firefly' [FO]
NA-0025074	<i>Ilex</i> 'Frances Kern' [FO FR]
NA-0025075	<i>Ilex</i> 'Francis Lewis' [FO]
NA-0025076	<i>Ilex</i> 'Frank Bailey' [FO FR]

NA-0050446	<i>Ilex</i> 'Frantastic' [FO FR CP]
NA-0025077	<i>Ilex</i> 'Fred Anderson' [FL FO]
NA-0035658	<i>Ilex</i> 'Galyean Gold' [FO FR]
NA-0025078	<i>Ilex</i> 'Gayle' [FO FR]
NA-0025079	<i>Ilex</i> 'Gee' [FO FR]
NA-0035656	<i>Ilex</i> 'George Daniel' [FO]
NA-0025916	<i>Ilex</i> 'Georgia Spire' [FO FR]
NA-0050448	<i>Ilex</i> 'Ginny Bruner' [FO FR CP]
NA-0035636	<i>Ilex</i> 'Glen Ellen' [FO FR]
NA-0025080	<i>Ilex</i> 'Gloucester' [FO FR]
NA-0025081	<i>Ilex</i> 'Gold Finch' [FO FR]
NA-0025082	<i>Ilex</i> 'Goldburst' [FO FR]
NA-0025934	<i>Ilex</i> 'Golden Flamenco' [FO]
NA-0010904	<i>Ilex</i> 'Golden Knight' [FO CP]
NA-0025083	<i>Ilex</i> 'Governor William Paca' [FO FR]
NA-0025084	<i>Ilex</i> 'Grace' [FO FR]
NA-0025085	<i>Ilex</i> 'Grace McCutchan' [FO FR]
NA-0025086	<i>Ilex</i> 'Grandpappy' [FL FO]
NA-0025087	<i>Ilex</i> 'Green Dragon' [FO]
NA-0025088	<i>Ilex</i> 'Green Pillar' [FO FR]
NA-0025089	<i>Ilex</i> 'Green Shadow' [FO FR] # 1 of 2
NA-0035669	<i>Ilex</i> 'Hale' [FO]
NA-0035697	<i>Ilex</i> 'Hallie Carrico' [FO]
NA-0025936	<i>Ilex</i> 'Hannah Rose' [FO FR CP]
NA-0025090	<i>Ilex</i> 'Hardy Select' [FO]
NA-0035664	<i>Ilex</i> 'Harvest Red' [FL FO]
NA-0025496	<i>Ilex</i> 'High Light' [FL FO] # 1 of 2
NA-0025093	<i>Ilex</i> 'Hollowell' [FL FO]
NA-0035698	<i>Ilex</i> 'Holly Hill' [FO FR]
NA-0010894	<i>Ilex</i> 'Honey-Jo' [FO FR]
NA-0025094	<i>Ilex</i> 'Hoosier Waif' [FO FR]
NA-0025095	<i>Ilex</i> 'Hopewell Grenadier' [FO FR]
NA-0035774	<i>Ilex</i> 'Hosan' [FO FR]
NA-0025096	<i>Ilex</i> 'Howard' [FO FR]
NA-0025097	<i>Ilex</i> 'Hume' [FO FR] # 1 of 2
NA-0035736	<i>Ilex</i> 'Hume's Choice' [FO FR]
NA-0025098	<i>Ilex</i> 'Ira Nelson' [FO FR]
NA-0025099	<i>Ilex</i> 'Ivory Hall' [FO FR]
NA-0025100	<i>Ilex</i> 'Ivory Tower' [FO]
NA-0025101	<i>Ilex</i> 'Jackson' [FL FO] # 1 of 3
NA-0025102	<i>Ilex</i> 'Jade' [FL FO]
NA-0025103	<i>Ilex</i> 'James Swan' [FO]
NA-0025104	<i>Ilex</i> 'Janice Arlene' [FO FR]
NA-0025105	<i>Ilex</i> 'Jeanette Adamson' [FO FR]
NA-0025106	<i>Ilex</i> 'Jermyn's Dwarf' [FO]
NA-0025107	<i>Ilex</i> 'Jersey Delight' [FO FR]
NA-0025108	<i>Ilex</i> 'Jersey Pinnacle' [FL FO] # 1 of 2
NA-0035739	<i>Ilex</i> 'Jim Dandy' [FO]
NA-0025109	<i>Ilex</i> 'Jimmy Peters' [FO FR]
NA-0035740	<i>Ilex</i> 'Joe McDaniel' [FO]

NA-0025110	<i>Ilex</i> 'John Michalak' [FO FR]
NA-0025111	<i>Ilex</i> 'John Nosal' [FO]
NA-0025112	<i>Ilex</i> 'John T. Morris' [FL FO]
NA-0025114	<i>Ilex</i> 'John Wister' [FL FO] # 2 of 2
NA-0035741	<i>Ilex</i> 'Kathy Ann' [FO]
NA-0050453	<i>Ilex</i> 'Kelsey's Delight' [FO FR CP]
NA-0025115	<i>Ilex</i> 'Kotobuki' [FO FR]
NA-0025116	<i>Ilex</i> 'Lady Alice' [FO FR]
NA-0025117	<i>Ilex</i> 'Lady Baltimore' [FO FR]
NA-0025118	<i>Ilex</i> 'Lady Esmee' [FO FR]
NA-0035742	<i>Ilex</i> 'Lagniappe' [FL FO] # 1 of 2
NA-0025119	<i>Ilex</i> 'Lamp Post' [FO FR]
NA-0050455	<i>Ilex</i> 'Lancer' [FL FL CP]
NA-0035743	<i>Ilex</i> 'Larry Peters' [FO]
NA-0025120	<i>Ilex</i> 'Lassie' [FO]
NA-0025121	<i>Ilex</i> 'Laura L. Barnes' [FO]
NA-0035745	<i>Ilex</i> 'Lewis' [FO FR] # 2 of 2
NA-0050445	<i>Ilex</i> 'Lida Lane' [FO FR]
NA-0041374	<i>Ilex</i> 'Little's Cascade' [FO FR]
NA-0010906	<i>Ilex</i> 'Little's Compact Red' [FO FR]
NA-0010908	<i>Ilex</i> 'Little's Crabshell' [FL FO]
NA-0025918	<i>Ilex</i> 'Little's Dainty Baby' [FO FR CP]
NA-0025940	<i>Ilex</i> 'Little's Deep Red' [FR CP]
NA-0010903	<i>Ilex</i> 'Little's Emerald Green' [FO FR CP]
NA-0025942	<i>Ilex</i> 'Little's Fancy Red' [FO FR CP]
NA-0025945	<i>Ilex</i> 'Little's Fire Red' [FR]
NA-0025946	<i>Ilex</i> 'Little's Glossy Belle' [FO FR CP]
NA-0010895	<i>Ilex</i> 'Little's Glossy Lad' [FO]
NA-0035793	<i>Ilex</i> 'Little's Glossy Lady' [FO FR]
NA-0035797	<i>Ilex</i> 'Little's Glossy Princess' [FO FR]
NA-0025948	<i>Ilex</i> 'Little's Glossy Red' [FO FR CP]
NA-0035795	<i>Ilex</i> 'Little's Glossy Salmon' [FO FR CP]
NA-0035802	<i>Ilex</i> 'Little's Red Giant' [FR CP]
NA-0025921	<i>Ilex</i> 'Little's Ruby Fire' [FO FR CP] # 2 of 2
NA-0025949	<i>Ilex</i> 'Little's Ruby Gem' [FO FR CP]
NA-0025924	<i>Ilex</i> 'Little's Ruby Giant' [FO FR CP]
NA-0035789	<i>Ilex</i> 'Little's Scarlet' [FO FR]
NA-0035791	<i>Ilex</i> 'Little's Sparkling Red' [FO FR]
NA-0025951	<i>Ilex</i> 'Little's Sunglow' [FO FR]
NA-0035801	<i>Ilex</i> 'Little's Waxleaf' [FO FR]
NA-0010896	<i>Ilex</i> 'Little's Waxy Boy' [FL FO]
NA-0025955	<i>Ilex</i> 'Little's Waxy Girl' [FO FR CP]
NA-0035749	<i>Ilex</i> 'Little's Waxy Lad' [FL FO]
NA-0035799	<i>Ilex</i> 'Little's Weeping Mound' [FO FR]
NA-0050444	<i>Ilex</i> 'Loch Raven' [FL FO CP]
NA-0010898	<i>Ilex</i> 'Longwood Firefall' [FO FR] # 1 of 2
NA-0025957	<i>Ilex</i> 'Longwood Firefall' [FR] # 2 of 2
NA-0025958	<i>Ilex</i> 'Longwood Gold' [FO FR]
NA-0025123	<i>Ilex</i> 'Lorne Peters' [FO]
NA-0025124	<i>Ilex</i> 'Lydia Morris' [FO] # 1 of 2

NA-0025125	<i>Ilex</i> 'Malcolm S. Whipple' [FL FO]
NA-0025126	<i>Ilex</i> 'Maplehurst' [FL FO]
NA-0035781	<i>Ilex</i> 'Marianne' [FO FR]
NA-0035751	<i>Ilex</i> 'Martha's Vineyard' [FO FR] # 2 of 2
NA-0025128	<i>Ilex</i> 'Mary Nell' [FO FR] # 1 of 2
NA-0025129	<i>Ilex</i> 'Mary P. Turner' [FO FR]
NA-0025130	<i>Ilex</i> 'Mary Peters' [FO FR]
NA-0025131	<i>Ilex</i> 'Maryland Beauty' [FO FR]
NA-0025132	<i>Ilex</i> 'Maryland Dwarf' [FO]
NA-0035778	<i>Ilex</i> 'Memphis Belle' [FO FR]
NA-0025133	<i>Ilex</i> 'Menantico' [FO FR]
NA-0025135	<i>Ilex</i> 'Midas Touch' [FO] # 2 of 2
NA-0035753	<i>Ilex</i> 'Mike Brown' [FO FR]
NA-0035779	<i>Ilex</i> 'Mildred Ebersole' [FO FR]
NA-0035726	<i>Ilex</i> 'Min Pyong-gal' [FO FR]
NA-0025137	<i>Ilex</i> 'Miniature' [FL FO FR]
NA-0025138	<i>Ilex</i> 'Minute Man' [FL FO]
NA-0025960	<i>Ilex</i> 'Miss Courtney' [FO FR CP]
NA-0025139	<i>Ilex</i> 'Miss Helen' [FO FR]
NA-0025525	<i>Ilex</i> 'Miss Liberty' [FL FO] # 1 of 2
NA-0025141	<i>Ilex</i> 'Miss Muffet' [FO FR] # 1 of 2
NA-0035702	<i>Ilex</i> 'Mistress' [FO FR CP]
NA-0035728	<i>Ilex</i> 'Morning Calm' [FO FR]
NA-0025142	<i>Ilex</i> 'Mount Halla' [FO FR]
NA-0025143	<i>Ilex</i> 'Muffin' [FL FO] # 2 of 2
NA-0025144	<i>Ilex</i> 'NASA' [FO FR]
NA-0025145	<i>Ilex</i> 'Nakada' [FL FO] # 1 of 2
NA-0025146	<i>Ilex</i> 'Natchez Belle' [FO FR]
NA-0025147	<i>Ilex</i> 'Nellie R. Stevens' [FO FR]
NA-0025532	<i>Ilex</i> 'Nelson West' [FL FO] # 1 of 2
NA-0025149	<i>Ilex</i> 'Newberry' [FO FR]
NA-0025150	<i>Ilex</i> 'Night Glow' [FO FR]
NA-0035754	<i>Ilex</i> 'Nina Foster Searcy' [FO FR]
NA-0035756	<i>Ilex</i> 'North Wind' [FL FO]
NA-0025534	<i>Ilex</i> 'Ohio King' [FO FR] # 2 of 2
NA-0025152	<i>Ilex</i> 'Ohio Queen' [FL FO]
NA-0025153	<i>Ilex</i> 'Old Heavy Berry' [FO FR]
NA-0025154	<i>Ilex</i> 'Olga' [FO FR]
NA-0025156	<i>Ilex</i> 'Oriole' [FO FR] # 1 of 2
NA-0025157	<i>Ilex</i> 'Otis Miley' [FO FR]
NA-0025159	<i>Ilex</i> 'Palmetto' [FO FR]
NA-0050451	<i>Ilex</i> 'Patrick Smith' [FL FO CP]
NA-0025160	<i>Ilex</i> 'Peconic' [FO]
NA-0035979	<i>Ilex</i> 'Peggy's Cove' [FL FO]
NA-0035783	<i>Ilex</i> 'Pendleton Miller' [FO]
NA-0025161	<i>Ilex</i> 'Peter's Fireworks' [FO FR CP] # 1 of 2
NA-0025162	<i>Ilex</i> 'Peter's Fireworks' [FR] # 2 of 2
NA-0041332	<i>Ilex</i> 'Peters' [CP]
NA-0025163	<i>Ilex</i> 'Piccolo' [FL FO] # 2 of 2
NA-0025542	<i>Ilex</i> 'Pocahontas' [FL FO] # 2 of 2

NA-0025165	<i>Ilex</i> 'Pomona' [FO FR]
NA-0025166	<i>Ilex</i> 'Pride Berry' [FO FR]
NA-0025167	<i>Ilex</i> 'Pride Dwarf' [FO FR]
NA-0025232	<i>Ilex</i> 'Princeton's Compact' [FO FR DD]
NA-0010909	<i>Ilex</i> 'Proud Mary' [FO FR]
NA-0041378	<i>Ilex</i> 'Purple Frost' [FO FR]
NA-0025168	<i>Ilex</i> 'Quansoo' [FL FO]
NA-0025544	<i>Ilex</i> 'Quitsa' [FL FO] # 1 of 2
NA-0025170	<i>Ilex</i> 'Ralph E. Lincoln' [FR] # 1 of 2
NA-0025171	<i>Ilex</i> 'Ralph E. Lincoln' [FL FO] # 2 of 2
NA-0035804	<i>Ilex</i> 'Raritan Chief' [FL FO]
NA-0041330	<i>Ilex</i> 'Rector' [FL FO CP]
NA-0025172	<i>Ilex</i> 'Red Cascade' [FO FR]
NA-0025177	<i>Ilex</i> 'Red Sprite' [FO FR]
NA-0025173	<i>Ilex</i> 'Richards' [FO FR]
NA-0025174	<i>Ilex</i> 'Ricker' [FO FR]
NA-0025962	<i>Ilex</i> 'Rita Marie' [FO FR CP] # 1 of 2
NA-0025175	<i>Ilex</i> 'Rotunda' [FO FR]
NA-0025547	<i>Ilex</i> 'Ruby' [FL FO]
NA-0025178	<i>Ilex</i> 'Sam Souder' [FO FR]
NA-0035750	<i>Ilex</i> 'Sandy Hook' [FO]
NA-0025179	<i>Ilex</i> 'Satyr Hill' [FO FR]
NA-0025180	<i>Ilex</i> 'Savannah' [FO]
NA-0025181	<i>Ilex</i> 'Secrest' [FO FR]
NA-0025182	<i>Ilex</i> 'Semala' [FO FR]
NA-0025183	<i>Ilex</i> 'Sentry' [FO FR]
NA-0025184	<i>Ilex</i> 'September Fire' [FO FR] # 1 of 2
NA-0025185	<i>Ilex</i> 'September Gem' [FO FR] # 2 of 2
NA-0010902	<i>Ilex</i> 'Shannon Chiles' [FO FR CP]
NA-0025187	<i>Ilex</i> 'Shaver' [FL FO] # 1 of 2
NA-0025189	<i>Ilex</i> 'Shin-Nien' [FO]
NA-0025190	<i>Ilex</i> 'Shiu-ying' [FO FR] # 1 of 2
NA-0025192	<i>Ilex</i> 'Shortcake' [FO FR] # 1 of 2
NA-0035776	<i>Ilex</i> 'Sid Burns' [FO]
NA-0025193	<i>Ilex</i> 'Silica King' [FO]
NA-0025966	<i>Ilex</i> 'Silver Lining' [FO FR]
NA-0025194	<i>Ilex</i> 'Silver Sentinel' [FO FR]
NA-0035980	<i>Ilex</i> 'Skipjack' [FO CP]
NA-0025195	<i>Ilex</i> 'Sky Pencil' [FL FO]
NA-0025196	<i>Ilex</i> 'Snipatuit' [FO FR]
NA-0035628	<i>Ilex</i> 'Snowflake' [FO FR]
NA-0035777	<i>Ilex</i> 'Soft Touch' [FO]
NA-0025197	<i>Ilex</i> 'Southern Belle' [FO FR]
NA-0025198	<i>Ilex</i> 'Southern Illinois University' [FO FR]
NA-0025199	<i>Ilex</i> 'Sparkleberry' [FO FR]
NA-0025200	<i>Ilex</i> 'St. John's' [FO FR]
NA-0041329	<i>Ilex</i> 'Sterling Silver' [FO CP]
NA-0035757	<i>Ilex</i> 'Sundrops' [FO FR]
NA-0025201	<i>Ilex</i> 'Sunny Foster' [FO FR]
NA-0025202	<i>Ilex</i> 'Sunrise' [FO FR]

NA-0025203	<i>Ilex</i> 'Sunset' [FO FR]
NA-0025234	<i>Ilex</i> 'Sussex #1' [FO FR]
NA-0025205	<i>Ilex</i> 'Swarthmore' [FO FR] # 2 of 2
NA-0025206	<i>Ilex</i> 'T.H. Everett' [FO]
NA-0025207	<i>Ilex</i> 'Tanager' [FO FR] # 1 of 2
NA-0025208	<i>Ilex</i> 'Tankard's Compact' [FO FR]
NA-0035787	<i>Ilex</i> 'Thousand Sunsets' [FO FR]
NA-0025209	<i>Ilex</i> 'Tiasquam' [FL FO FR] # 1 of 2
NA-0025210	<i>Ilex</i> 'Tiasquam' [FO FR] # 2 of 2
NA-0025211	<i>Ilex</i> 'Toner' [FO FR]
NA-0025212	<i>Ilex</i> 'Tyke' [FO]
NA-0025213	<i>Ilex</i> 'Valley Evergreen' [FO FR CP]
NA-0035761	<i>Ilex</i> 'Venus' [FO FR]
NA-0025214	<i>Ilex</i> 'Villanova' [FO FR]
NA-0035763	<i>Ilex</i> 'Virginia West' [FO FR]
NA-0025215	<i>Ilex</i> 'Warren Red' [FO FR]
NA-0025216	<i>Ilex</i> 'Wieman's Brightbush' [FO FR]
NA-0025217	<i>Ilex</i> 'Wieman's Crinklegreen' [FO FR]
NA-0025218	<i>Ilex</i> 'Wieman's Favorite' [FO FR]
NA-0025219	<i>Ilex</i> 'Wieman's Greenspread' [FO FR]
NA-0025569	<i>Ilex</i> 'Wieman's Hedge-row' [FL FO] # 2 of 2
NA-0025221	<i>Ilex</i> 'Wieman's Low-spread' [FO FR]
NA-0025155	<i>Ilex</i> 'Wieman's Oriental Queen' [FO FR]
NA-0025158	<i>Ilex</i> 'Wieman's Pacific Queen' [FO FR]
NA-0025223	<i>Ilex</i> 'Wieman's Yellow-pillar' [FO FR]
NA-0025224	<i>Ilex</i> 'William Hawkins' [FO]
NA-0025225	<i>Ilex</i> 'Winter Gold' [FO FR]
NA-0025226	<i>Ilex</i> 'Winter Green' [FO FR] # 1 of 2
NA-0025573	<i>Ilex</i> 'Wirt L. Winn' [FL FO] # 1 of 2
NA-0025229	<i>Ilex</i> 'Yellow Beam' [FO FR]
NA-0035765	<i>Ilex</i> 'Zelta's Elite' [FO FR]
NA-0025577	<i>Illicium</i> 'Semmes' [FO FR] # 2 of 2
NA-0025578	<i>Impatiens</i> 'Calliope' [FL FO]
NA-0025579	<i>Impatiens</i> 'Cannonball' [FL FO]
NA-0025580	<i>Impatiens</i> 'Chariot' [FL FO]
NA-0025581	<i>Impatiens</i> 'Fortune Teller' [FL FO]
NA-0025582	<i>Impatiens</i> 'Juggler' [FL FO]
NA-0025583	<i>Impatiens</i> 'Magician' [FL FO]
NA-0025584	<i>Impatiens</i> 'Ring Master' [FL FO]
NA-0025585	<i>Impatiens</i> 'Roustabout' [FL FO]
NA-0025586	<i>Impatiens</i> 'Showboat' [FL FO]
NA-0025587	<i>Impatiens</i> 'Trapeze' [FL FO]
NA-0025588	<i>Indigofera</i> 'Rose Carpet' [FL FO]
NA-0025589	<i>Juniperus</i> 'Essex Weeping' [FO]
NA-0035973	<i>Juniperus</i> 'Lemon Phizz' [FO]
NA-0025973	<i>Juniperus</i> 'Little's Christmas Decor' [FO]
NA-0035723	<i>Juniperus</i> 'Little's Silver Frost' [FO]
NA-0025591	<i>Juniperus</i> 'Martha's Vineyard' [FO]
NA-0025592	<i>Juniperus</i> 'Prostrata Nana' [FO]
NA-0025593	<i>Juniperus</i> 'Sunsplash' [FO]

NA-0025594	<i>Kalmia</i> 'Bettina' [FL FO]
NA-0025967	<i>Koelreuteria</i> 'Fastigiata' [FO]
NA-0025230	<i>Lagerstroemia</i> 'Acoma' [FL FO FR] # 1 of 2
NA-0025599	<i>Lagerstroemia</i> 'Apalachee' [FL FO FR] # 1 of 3
NA-0025235	<i>Lagerstroemia</i> 'Biloxi' [FL FO FR] # 1 of 2
NA-0007018	<i>Lagerstroemia</i> 'Caddo' [FL FO FR]
NA-0025237	<i>Lagerstroemia</i> 'Catawba' [FO FR] # 2 of 2
NA-0025238	<i>Lagerstroemia</i> 'Cherokee' [FL FO] # 1 of 3
NA-0007008	<i>Lagerstroemia</i> 'Chickasaw' [FL FO CP] # 1 of 2
NA-0007013	<i>Lagerstroemia</i> 'Choctaw' [FL FO CP] # 1 of 2
NA-0007014	<i>Lagerstroemia</i> 'Choctaw' [FO FR] # 2 of 2
NA-0025610	<i>Lagerstroemia</i> 'Comanche' [FL FO FR] # 1 of 3
NA-0025242	<i>Lagerstroemia</i> 'Conestoga' [FO FR] # 2 of 3
NA-0025243	<i>Lagerstroemia</i> 'Hopi' [FL FO FR] # 1 of 2
NA-0007020	<i>Lagerstroemia</i> 'Kiowa' [FL FO FR CP] # 1 of 2
NA-0007021	<i>Lagerstroemia</i> 'Kiowa' [FO FR] # 2 of 2
NA-0025244	<i>Lagerstroemia</i> 'Lipan' [FL FO] # 1 of 3
NA-0025245	<i>Lagerstroemia</i> 'Lipan' [FO FR] # 2 of 3
NA-0025246	<i>Lagerstroemia</i> 'Miami' [FL FO FR] # 1 of 2
NA-0025624	<i>Lagerstroemia</i> 'Muskogee' [FL FO] # 1 of 3
NA-0025248	<i>Lagerstroemia</i> 'Natchez' [FL FO] # 1 of 4
NA-0025249	<i>Lagerstroemia</i> 'Natchez' [FO FR] # 2 of 4
NA-0025250	<i>Lagerstroemia</i> 'Osage' [FL FO FR] # 1 of 2
NA-0025251	<i>Lagerstroemia</i> 'Pecos' [FL FO FR] # 1 of 2
NA-0007006	<i>Lagerstroemia</i> 'Pocomoke' [FL FO CP] # 1 of 2
NA-0025254	<i>Lagerstroemia</i> 'Potomac' [FO] # 2 of 4
NA-0025256	<i>Lagerstroemia</i> 'Powhatan' [FL FO] # 1 of 5
NA-0025255	<i>Lagerstroemia</i> 'Powhatan' [FO FR] # 2 of 5
NA-0025257	<i>Lagerstroemia</i> 'Seminole' [FL FO] # 1 of 3
NA-0007016	<i>Lagerstroemia</i> 'Sioux' [FL FO] # 1 of 3
NA-0007010	<i>Lagerstroemia</i> 'Tonto' [FL FO CP] # 1 of 2
NA-0007011	<i>Lagerstroemia</i> 'Tonto' [FL FO FR] # 2 of 2
NA-0025259	<i>Lagerstroemia</i> 'Tuscarora' [FL FO] # 1 of 2
NA-0025260	<i>Lagerstroemia</i> 'Tuskegee' [FL FO] # 1 of 2
NA-0025261	<i>Lagerstroemia</i> 'Wichita' [FL FO] # 1 of 3
NA-0025262	<i>Lagerstroemia</i> 'Wichita' [FR] # 2 of 3
NA-0025263	<i>Lagerstroemia</i> 'Yuma' [FL FO FR] # 1 of 2
NA-0025264	<i>Lagerstroemia</i> 'Zuni' [FL FO FR] # 1 of 2
NA-0025652	<i>Leiophyllum</i> 'Pinecake' [FL FO]
NA-0025654	<i>Lespedeza</i> 'Gibraltar' [FL FO CP]
NA-0025655	<i>Leucophyllum</i> 'Green Cloud' [FL FO] # 1 of 2
NA-0025657	<i>Leucophyllum</i> 'Rain Cloud' [FL FO CP DD]
NA-0025658	<i>Leucophyllum</i> 'Silver Cloud' [FL FO] # 1 of 3
NA-0025661	<i>Leucophyllum</i> 'Thundercloud' [FL FO CP DD]
NA-0025662	<i>Leucophyllum</i> 'White Cloud' [FL FO] # 1 of 3
NA-0025665	<i>Leucothoe</i> 'Greensprite' [FL FO CP]
NA-0025666	<i>Leucothoe</i> 'Redsprite' [FL FO]
NA-0025667	<i>Ligustrum</i> 'Constitution' [FL FO CP DD]
NA-0025668	<i>Liquidambar</i> 'Matthew's Gold' [FO CP]
NA-0025669	<i>Lonicera</i> 'Major Wheeler' [FL FO CP]

NA-0025670	<i>Maclura</i> 'Wichita' [FO] # 1 of 2
NA-0025671	<i>Maclura</i> 'Wichita' [FL FO BW] # 2 of 2
NA-0025672	<i>Magnolia</i> 'Ann' [FL]
NA-0025674	<i>Magnolia</i> 'Betty' [FO] # 2 of 2
NA-0025675	<i>Magnolia</i> 'Else Frye' [FL]
NA-0025677	<i>Magnolia</i> 'Freeman' [FO] # 2 of 2
NA-0025679	<i>Magnolia</i> 'Galaxy' [FO] # 2 of 2
NA-0025680	<i>Magnolia</i> 'Hasse' [FO FR]
NA-0025682	<i>Magnolia</i> 'Jane' [FO] # 2 of 2
NA-0025683	<i>Magnolia</i> 'Judy' [FL]
NA-0025684	<i>Magnolia</i> 'Little Gem' [FL FO] # 1 of 2
NA-0025686	<i>Magnolia</i> 'Margaret Davis' [FO FR]
NA-0025688	<i>Magnolia</i> 'Maryland' [FO] # 2 of 3
NA-0025690	<i>Magnolia</i> 'Merrill' [FL]
NA-0025691	<i>Magnolia</i> 'Nimbus' [FL FO]
NA-0025693	<i>Magnolia</i> 'Pinkie' [FO] # 2 of 2
NA-0025695	<i>Magnolia</i> 'Randy' [FO] # 2 of 2
NA-0025697	<i>Magnolia</i> 'Ricki' [FO] # 2 of 2
NA-0025698	<i>Magnolia</i> 'Spectrum' [FO] # 2 of 2
NA-0025701	<i>Magnolia</i> 'Susan' [FO] # 2 of 2
NA-0025702	<i>Magnolia</i> 'Wada's Memory' [FL FO]
NA-0025703	<i>Mahonia</i> 'Arthur Menzies' [FL FO]
NA-0025704	<i>Mahonia</i> 'Pyramid Point' [FO CP]
NA-0025705	<i>Mahonia</i> 'Shasta Blue' [FL FO CP]
NA-0025707	<i>Malus</i> 'Adirondack' [FL FO FR] # 1 of 2
NA-0025711	<i>Malus</i> 'Donald Wyman' [FL FO]
NA-0025713	<i>Malus</i> 'Fuji' [FO FR] # 2 of 4
NA-0025718	<i>Malus</i> 'Henrietta Crosby' [FL FO]
NA-0025719	<i>Malus</i> 'Mary Potter' [FL FO]
NA-0025720	<i>Malus</i> 'Naragansett' [FL FO] # 1 of 3
NA-0025730	<i>Miscanthus</i> 'Cabaret' [FL FO]
NA-0025731	<i>Morus</i> 'Widman Mitchell' [CP]
NA-0035814-820	<i>Musa</i> 'Annan' [FL FO FR] (7 sheets)
NA-0035892-898	<i>Musa</i> 'Banano' [FL FO FR] (7 sheets)
NA-0035821-828	<i>Musa</i> 'Bocadillo' [FL FO FR] (8 sheets)
NA-0035829-837	<i>Musa</i> 'Cachaco' [FL FO FR] (9 sheets)
NA-0035838-840	<i>Musa</i> 'Calcuta' [FL FO] (3 sheets)
NA-0035841-847	<i>Musa</i> 'Ceylan' [FL FO FR] (7 sheets)
NA-0035848-856	<i>Musa</i> 'Espermo' [FL FO FR] (9 sheets)
NA-0035857-863	<i>Musa</i> 'Guayabo' [FL FO FR] (7 sheets)
NA-0035864-870	<i>Musa</i> 'Guineo' [FL FO FR] (7 sheets)
NA-0035871-877	<i>Musa</i> 'Liberal' [FL FO FR] (7 sheets)
NA-0035878-884	<i>Musa</i> 'Madre del Platanar' [FL FO FR] (7 sheets)
NA-0035885-891	<i>Musa</i> 'Manzano' [FL FO FR] (7 sheets)
NA-0035899-905	<i>Musa</i> 'Maqueno' [FL FO FR] (7 sheets)
NA-0035906-912	<i>Musa</i> 'Maritu' [FL FO FR] (7 sheets)
NA-0035913-920	<i>Musa</i> 'Mysore' [FL FO FR] (8 sheets)
NA-0035921-927	<i>Musa</i> 'Negro' [FL FO FR] (7 sheets)
NA-0035928-933	<i>Musa</i> 'Pigmeo' [FL FO FR] (6 sheets)
NA-0035934-940	<i>Musa</i> 'Pompo' [FL FO FR] (7 sheets)

NA-0035941-947	<i>Musa</i> 'Selangor' [FL FO FR] (7 sheets)
NA-0035948-954	<i>Musa</i> 'Tafetan' [FL FO FR] (7 sheets)
NA-0025732	<i>Myrica</i> 'Emperor' [FO CP]
NA-0025733	<i>Nandina</i> 'Harbour Dwarf' [FO FR]
NA-0025734	<i>Neonotonia</i> 'Tropic Verde' [FO FR]
NA-0025735	<i>Nothofagus</i> 'Puget Pillar' [FO CP DD]
NA-0025736	<i>Osmanthus</i> 'Gulftide' [FO FR]
NA-0025738	<i>Oxydendrum</i> 'Chameleon' [FL FO] # 1 of 2
NA-0025739	<i>Pachysandra</i> 'Green Sheen' [FL FO]
NA-0025740	<i>Parkinsonia</i> 'Desert Museum' [FL FO]
NA-0025741	<i>Paspalum</i> 'Tropic Shore' [FL FO]
NA-0025742	<i>Paxistima</i> 'Emerald Cascade' [FL CP]
NA-0025743	<i>Photinia</i> 'Birmingham' [FO FR]
NA-0025912	<i>Physocarpus</i> 'Tilden Park' [FL FO]
NA-0035808	<i>Picea</i> 'Liepa' [FO CP]
NA-0025970	<i>Picea</i> 'Mueller' [FO CP]
NA-0035731	<i>Pinus</i> 'Rickel' [FO FR]
NA-0035624	<i>Pinus</i> 'Silver Ghost' [FO CP DD]
NA-0025748	<i>Platanus</i> 'Columbia' [FO FR DD]
NA-0025749	<i>Platanus</i> 'Liberty' [FO FR DD]
NA-0025750	<i>Poa</i> 'Canbar' [FL FO]
NA-0025751	<i>Polygonum</i> 'Crimson Beauty' [FO FR DD] # 1 of 2
NA-0025753	<i>Potentilla</i> 'Dakota Sunrise' [FL FO CP DD]
NA-0025754	<i>Potentilla</i> 'Yellow Gem' [FL FO CP]
NA-0025756	<i>Prunus</i> 'Dr S. Edwin Mueller' [FO FR] # 2 of 2
NA-0025758	<i>Prunus</i> 'Elizabeth' [FO] # 2 of 2
NA-0025759	<i>Prunus</i> 'Hiuchidani Kikuzakura' [FL FO] # 1 of 2
NA-0025762	<i>Prunus</i> 'Ruth's 100' [CP]
NA-0025763	<i>Prunus</i> 'Scarlet' [FO FR CP]
NA-0006809	<i>Prunus</i> 'Silver Cloud' [CP]
NA-0025764	<i>Prunus</i> 'Spire' [FL] # 1 of 2
NA-0025765	<i>Prunus</i> 'Spire' [FO] # 2 of 2
NA-0025766	<i>Prunus</i> 'White Glory' [FL CP]
NA-0025265	<i>Pyracantha</i> 'Apache' [FL FO FR] # 1 of 2
NA-0025267	<i>Pyracantha</i> 'Mohave' [FO FR] # 1 of 3
NA-0025269	<i>Pyracantha</i> 'Pueblo' [FO FR] # 1 of 3
NA-0025268	<i>Pyracantha</i> 'Pueblo' [FL FO] # 2 of 3
NA-0025270	<i>Pyracantha</i> 'Shawnee' [FL FO FR] # 1 of 3
NA-0025786	<i>Raphiolepis</i> 'Pink Dancer' [FL FO FR CP]
NA-0025790	<i>Rhododendron</i> 'Bowie' [FL FO]
NA-0025791	<i>Rhododendron</i> 'Cornell Pink' [FL CP]
NA-0025792	<i>Rhododendron</i> 'George Lindley Taber' [FL FO]
NA-0025793	<i>Rhododendron</i> 'Hohman' [FL FO]
NA-0025794	<i>Rhododendron</i> 'Smoky Mountaineer' [FL FO]
NA-0025795	<i>Ribes</i> 'White Icicle' [FL FO]
NA-0025796	<i>Robinia</i> 'Dean Rossman' [FO CP]
NA-0027517	<i>Salix</i> 'Umbraculifera' [FO BW]
NA-0025797	<i>Salvia</i> 'Mount Emory' [FL FO]
NA-0025798	<i>Sambucus</i> 'Castledean' [FL FO CP]
NA-0025800	<i>Shepherdia</i> 'Sakakawea' [FO FR] # 1 of 2

NA-0025913	<i>Sophora</i> 'Dot' [FO BW]
NA-0025803	<i>Sorbus</i> 'Longwood Sunset' [FO BW] # 1 of 2
NA-0025808	<i>Sorbus</i> 'Pink Pagoda' [FL FO] # 1 of 2
NA-0025810	<i>Sorbus</i> 'Red Copper Glow' [FO FR]
NA-0025811	<i>Sorbus</i> 'Theophrasta' [FL FO] # 1 of 2
NA-0025812	<i>Sorbus</i> 'Theophrasta' [FO FR] # 2 of 2
NA-0025813	<i>Spiraea</i> 'Golden Princess' [FL FO]
NA-0025814	<i>Streptosolen</i> 'Ginger Meggs' [FL FO]
NA-0035725	<i>Syringa</i> 'Betsy Ross' [FO FR] # 2 of 2
NA-0041457	<i>Syringa</i> 'Declaration' [FL FO]
NA-0041455	<i>Syringa</i> 'Old Glory' [FL FO FR]
NA-0025817	<i>Taxus</i> 'Costich' [FO]
NA-0025821	<i>Taxus</i> 'Richard Horsey' [FO DD]
NA-0025822	<i>Thuja</i> 'Blijdenstein' [FO FR]
NA-0025823	<i>Thuja</i> 'Hoseri' [FO]
NA-0035975	<i>Thuja</i> 'Little's Christmas Gold' [FO]
NA-0035974	<i>Thuja</i> 'Little's Winter Gold' [FO]
NA-0025825	<i>Tilia</i> 'Douglas' [FO CP]
NA-0025826	<i>Tilia</i> 'Green Globe' [FO FR CP]
NA-0025827	<i>Tilia</i> 'Lincoln' [FO CP]
NA-0025828	<i>Tricyrtis</i> 'Yungi Temple' [FL FO]
NA-0025829	<i>Tsuga</i> 'Doc's Choice' [FO]
NA-0025830	<i>Tsuga</i> 'Manifold' [FO]
NA-0025831	<i>Tsuga</i> 'Rock Creek' [FO]
NA-0035706	<i>Ulmus</i> 'Patriot' [FL FO]
NA-0035703	<i>Ulmus</i> 'Prospector' [FL FO]
NA-0035700	<i>Ulmus</i> 'Valley Forge' [FL FO]
NA-0025832	<i>Vaccinium</i> 'Bloodstone' [FL FO]
NA-0025833	<i>Vaccinium</i> 'Thunderbird' [FL FO]
NA-0025834	<i>Vaccinium</i> 'Wells Delight' [FL FO]
NA-0025272	<i>Viburnum</i> 'Alleghany' [FO FR] # 2 of 4
NA-0025273	<i>Viburnum</i> 'Catskill' [FL FO] # 1 of 4
NA-0025275	<i>Viburnum</i> 'Cayuga' [FL FO] # 1 of 4
NA-0025281	<i>Viburnum</i> 'Chippewa' [FO FR] # 2 of 3
NA-0025283	<i>Viburnum</i> 'Emerald Triumph' [FO CP] # 2 of 2
NA-0025284	<i>Viburnum</i> 'Erie' [FL FO] # 1 of 3
NA-0025286	<i>Viburnum</i> 'Huron' [FL FO] # 1 of 3
NA-0025862	<i>Viburnum</i> 'Huron' [FO FR] # 2 of 3
NA-0025288	<i>Viburnum</i> 'Iroquois' [FL FO FR] # 1 of 4
NA-0025867	<i>Viburnum</i> 'Iroquois' [FO] # 2 of 4
NA-0025289	<i>Viburnum</i> 'Mohawk' [FL FO FR] # 1 of 3
NA-0025875	<i>Viburnum</i> 'Mohican' [FO] # 2 of 5
NA-0025292	<i>Viburnum</i> 'Oneida' [FL FO FR] # 1 of 4
NA-0025294	<i>Viburnum</i> 'Onondaga' [FO FR] # 2 of 4
NA-0025296	<i>Viburnum</i> 'Seneca' [FO FR] # 2 of 4
NA-0025297	<i>Viburnum</i> 'Shoshoni' [FL FO] # 1 of 3
NA-0025299	<i>Viburnum</i> 'Summer Snowflake' [FL FO]
NA-0025301	<i>Viburnum</i> 'Susquehanna' [FO] # 2 of 5
NA-0025303	<i>Viburnum</i> 'Synnestvedt' [FL FO] # 1 of 2

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Designation of additional nomenclatural standards at the US National Arboretum Herbarium July 2007–May 2009

D.H. Voss¹

Vienna, Virginia, USA

Since publication of the designated nomenclatural standards in the herbarium of the US National Arboretum (Voss, 2007), nine standards have been added to the collection. In conformity with Division V, Clause 7 of the *International Code of Nomenclature for Cultivated Plants* (7th edition), the sheets listed below are here designated as the nomenclatural standards for the respective cultivar names. The codes used to indicate characteristics of the specimens are:

fl = flower(s); v = vegetative; fr = fruit; pc = colour photograph

NA Barcode	Standard specimen
NA0048186	<i>Hibiscus</i> 'Minerva' (fl)
NA0056584	<i>Ilex</i> 'Bessie Smith' (fr)
NA0056587	<i>Ilex</i> 'Charming Cleopatra' (fr)
NA0056589	<i>Ilex</i> 'Cotswold Cream' (pc)
NA0056590	<i>Ilex</i> 'Cotswold Green' (fl)
NA0056591	<i>Ilex</i> 'Indiana State' (v)
NA0052517	<i>Ilex</i> 'Mary Jo' (pc)
NA0052728	<i>Sequoiadendron</i> 'Hazel Smith' (v)
NA0052729	<i>Thuja</i> 'Green Giant' (v)

REFERENCE

Voss, D.H. (2007). *Nomenclatural Standards for Cultivated Plants: A Checklist of Holdings at the United States National Arboretum Herbarium (NA)*. Vienna, Virginia: Donald H. Voss.

¹ Volunteer, United States National Arboretum Herbarium

Plants given RHS Exhibition Awards 2007–2008

J.J. CUBEY

Botany Department, RHS Garden, Wisley

The following list of 189 awards has been compiled from the plant award descriptions written by Plant Committee Secretaries, or in the case of the Orchid Committee by Johan and Clare Hermans, for the period from September 2007 until the end of August 2008. Awards made prior to this that were confirmed during this period, following, for example, application or registration of a cultivar name, are also included.

References to further information and catalogued herbarium specimens and images relating to plant awards are included. Please note that where more than one specimen or image is catalogued for a plant, only one reference barcode has been given here. Anyone wishing to visit the Herbarium at Wisley, to view the herbarium specimens or images, should contact the Keeper of the Herbarium. Paintings are commissioned for many orchids that are given awards and these can be consulted by contacting the Lindley Library.

References such as 155D refer to colours in the RHS Colour Chart (Fifth edition, 2007)¹. For enquiries regarding these awards please email plantcommittees@rhs.org.uk or telephone 0845 260 9000. These will then be forwarded to the appropriate Plant Committee Secretary or member of staff.

The compiler is grateful for the assistance of the other Plant Committee Secretaries, but would particularly like to thank Susan Grayer for coordinating the herbarium specimen and image references again this year.

¹ Available from RHS Enterprises mail order (mailorder@rhs.org.uk or telephone 01483 211320)

Acis fabrei

Certificate of Preliminary Commendation as a flowering plant for exhibition. Exhibited by The Director, Royal Botanic Gardens, Kew, Richmond, Surrey TW9 3AB on 15 April 2008. Description and colour picture in *The Alpine Gardener* 77(1): 67–68. Herbarium specimen (WSY0101150) in the RHS Herbarium (WSY).

Allium oreophiloides

Certificate of Preliminary Commendation as a flowering plant for exhibition. Exhibited by Mrs C Coller, Norwich, Norfolk on 7 June 2008.

Bulbous perennial to 80mm as exhibited. Leaves more or less absent at anthesis. Peduncle to 60mm, strongly upright, glabrous. Inflorescence a crowded umbel of c. 18 flowers subtended by broad ovate bracts 8 × 6mm², long-acuminate, papery, translucent. Pedicels c. 10mm, straight. Flowers star-like; perianth segments narrow, c. 8 × 2mm, elliptic-lanceolate, acute, white, tinged purple with a prominent purple midvein; stamens c. 4mm, filaments translucent. Photographic slide (WSY0099634) in the RHS Herbarium (WSY).

Allium perdulce

Certificate of Preliminary Commendation as a flowering plant for exhibition. Exhibited by Mr R Drew, Laindon, Essex on 15 April 2008. Description and colour picture in *The Alpine Gardener* 77(1): 72–73. Herbarium specimen (WSY0101148) in the RHS Herbarium (WSY).

Androsace lehmanniana

Certificate of Preliminary Commendation as a flowering plant for exhibition. Exhibited by Mr G Rollinson, 3 Woodside View, Holmfirth, West Yorkshire, HD9 2PT on 15 March 2008. Description and colour picture in *The Alpine Gardener* 77(1): 60–62. Herbarium specimen (WSY0107001) and photographic slide (WSY0099643) in the RHS Herbarium (WSY).

***Androsace muscoidea* 'Breviscapa'**

Award of Merit as a hardy flowering plant for exhibition. Exhibited by Dr A C Lafong, Fife on 5 April 2008.

Cushion-forming perennial to 25cm across as exhibited. Rosettes 11mm across borne on a whorl of dead leaves. Leaves 5 × 2mm, obovate, densely covered with long, straight, eglandular, silky hairs. Flower stems strongly upright to 3mm, pale green, woolly. Stem leaves lanceolate, c. 2mm, woolly. Calyx cup-shaped; sepals oval, 2 × 1mm, silky hairy. Flowers white (155D), pin-eyed, 8mm across with a raised yellow annulus; petals ovate, 4 × 3mm; pollen pale yellow. Herbarium specimen (WSY0112272) in the RHS Herbarium (WSY).

***Anguloa Lorna grex* 'La Ponterrin'**

Award of Merit as a tender flowering plant for exhibition. Raised by Dr H Oakeley and exhibited by the Eric Young Foundation, Jersey on 14 June 2008. Description and colour picture in *The Orchid Review* 116: 293. Herbarium specimen (WSY0112280) in the RHS Herbarium (WSY).

× *Angulocaste Noirmont grex* 'Isle of Jersey'

Award of Merit as a tender flowering plant for exhibition. Raised and exhibited by the Eric Young Orchid Foundation, Jersey on 19 May 2008. Description and colour picture in *The*

² Length precedes width in measurements, unless otherwise stated

Orchid Review 116: 236–237. Herbarium specimen (WSY0112278) in the RHS Herbarium (WSY).

***Anthemis* 'Cally White'**

Award of Merit as a flowering plant for exhibition. Raised by Mr M Wickenden, Cally Gardens and exhibited by Mr F Garrett, Great Dixter, Northiam, East Sussex TN31 6PH on 3 July 2008.

Stem 60cm, 2mm diameter, wiry, stiff, mid-green (137D). Flower heads 5.5cm diameter, disc 2cm diameter, deep golden yellow (14A), ray florets, 2 × 0.6cm, white, blunt-tipped, extreme base with a 2mm blotch of golden yellow (12A).

***Anthurium* 'Champion'**

Award of Merit as a tender flowering plant. Exhibited by Mr Jean Pierre and Mr Tin Tsin Fong, Kelvic Court, Suite 32, Cnr St Jean and Stevenson Street, Quatre Bornes, Mauritius on 19 May 2008.

Longest stem to 32cm. Spathe cordate with an acuminate apex, creamy white (155A) with a hint of pink, particularly towards the apex. Spadix continuing the line of the stem, pink (43D) but darker when immature (c. 47D). Herbarium specimen (WSY0107007) in the RHS Herbarium (WSY).

***Anthurium* 'Osaki'**

Award of Merit as a tender flowering plant for exhibition. Exhibited by Mrs C Veerasamy, N. Decotter Street, Beau Bassin, Mauritius on 19 May 2008.

Longest stem to 26cm. Spathe 7 × 3.3cm, ovate with a truncate base and acuminate, slightly twisted, tip; pink-red (47B/C). Spadix held c. 45° to the spathe, pale pink (39C) with a green tip. Herbarium specimen (WSY0107008) in the RHS Herbarium (WSY).

***Anthurium* 'Tropical'**

Award of Merit as a tender flowering plant for exhibition. Exhibited by Mrs C Veerasamy, N. Decotter Street, Beau Bassin, Mauritius on 19 May 2008.

Longest stem to 39cm. Spathe 12 × 9.5cm, cordate with overlapping base and acuminate tip, puckered, glossy red (close to 40A). Spadix to 5.5cm, held parallel to spathe, yellow (13A) to green when immature, turning cream (158A) at maturity. Herbarium specimen (WSY0107006) in the RHS Herbarium (WSY).

Calceolaria glacialis

Certificate of Preliminary Commendation as a flowering plant for exhibition. Exhibited by Dr M and Mrs A Sheader, Southampton, Hampshire on 7 June 2008.

Mat-forming perennial to 70 × 110mm as exhibited. Leaves borne in rosettes, erect, subsessile, to 35 × 20mm, ovate, blunt-tipped, margins entire, ciliate, green (138B). Flower stems to 50mm, upright, slender, evenly covered with long, patent hairs. Flowers solitary held horizontally; calyx split to base, sepals 5 × 3mm, triangular, reflexed, margins ciliate; petals fused into swollen pouch, suborbicular-obovate, 17 × 17mm when pressed, yellow (2A). Photographic slide (WSY0099638) in the RHS Herbarium (WSY).

Calceolaria lanigera

Certificate of Preliminary Commendation as a hardy flowering plant for exhibition. Exhibited by The Regius Keeper, Royal Botanic Garden, Edinburgh, 20A Inverleith Row, Edinburgh EH3 5LR on 31 May 2008.

Rosette-forming biennial. Basal leaves in 2 opposite pairs, suborbicular, pale green, densely grey hairy above with pronounced reticulate venation, ribbed on the underside with a crenate edge. Single stem per rosette, reddish with short, white hairs, erect, to 80cm with paired, opposite suborbicular stem-leaves at c. 15cm intervals. Inflorescence a loose cyme with up to 60 flowers. Bracts paired, small, green and leafy. Calyx a shallow cup 3mm diameter with 4 orbicular sepals 3mm across. Flower a 2-lipped pouch, red-purple (64C), the upper lip hooded, 10 × 6mm, the lower lip 10 × 10mm; stamens 2 positioned laterally, ovary superior, style simple. Herbarium specimen (WSY0112078) in the RHS Herbarium (WSY).

Calceolaria umbellata

Certificate of Preliminary Commendation as a flowering plant for exhibition. Exhibited by Dr M and Mrs A Sheader, Southampton, Hampshire on 7 June 2008.

Mat-forming perennial to 12 × 15cm as exhibited. Leaves borne in rosettes, erect, subsessile, to 80 × 20mm, elliptic-oblongate, blunt-tipped, margins entire, sparsely ciliate, green (143B). Flower stems to 80mm, upright, slender, evenly covered with long, patent hairs. Inflorescence a few-flowered umbel subtended by 2 opposite, long-ovate, blunt-tipped bracts, 8 × 3mm. Pedicels slender, erect becoming arching. Calyx split to base, sepals 4 × 3mm, ovate, reflexed, margin ciliate; petals fused into swollen pouch, obovate to rectangular in outline, 15 × 15mm when pressed, yellow (2B). Photographic slide (WSY0099637) in the RHS Herbarium (WSY).

***Camellia japonica* 'Doctor Burnside'**

Award of Merit as a flowering plant for exhibition. Exhibited by Mr A Congreve, Mount Congreve Garden, Co. Waterford, Republic of Ireland on 13 March 2008.

Semi-double to peony form, to 100mm across × c. 35mm deep, deep red (53B). Stamens fused at base of filament, free part to 20mm long, filament pale orange-red (37A). Leaves broadly ovate to 120 × 70mm, including petiole of c. 10mm, mid-green (c. 137B), serrate, acuminate, lower surface slightly paler (greener than 146B). Herbarium specimen (WSY0101121) in the RHS Herbarium (WSY).

***Camellia* × *williamsii* 'Cupcake'**

Award of Merit as a flowering plant for exhibition. Exhibited by Mr A W Simons, Bedfordshire on 15 April 2008.

Buds bright pink (c. 54B) and darker (53D). Flowers single, petals to 50mm long of variable widths, white flushed pink generally in apical half (55B), exterior apical portion pink (55C). Anthers yellow (162B), filaments cream (c. 158B). Leaves to 85 × 35mm, dentate, acuminate mostly glossy, some semi-glossy, dark green (c. 147A), veins bright green, exterior bright green (avocado green) (146A–146B). Herbarium specimen (WSY0112023) in the RHS Herbarium (WSY).

***Camellia* × *williamsii* 'Laura Boscawen'**

Award of Merit as a flowering plant for exhibition. Exhibited by Mr A Congreve, Mount Congreve Garden, Co. Waterford, Republic of Ireland on 13 March 2008.

Anemone form, to 100mm across × c. 35mm deep, 2 rows of petals surrounding central petaloid stamens and true stamens, petals and petaloid stamens bright pink (c. 52B), outer petals pink (c. 54A). Stamens fused at base, free part to 18mm long, filaments pale yellow-orange (c. 22D). Leaves to 105mm, including petiole of c. 10mm, serrate, acuminate, upper surface of leaf blade dark green (greener than 147A), lower surface of leaf blade lighter green (greener than 146B). Herbarium specimen (WSY0101123) in the RHS Herbarium (WSY).

***Camellia* × *williamsii* 'Mirage'**

Award of Merit as a flowering plant for exhibition. Exhibited by Mr A Congreve, Mount Congreve Garden, Co. Waterford, Republic of Ireland on 13 March 2008.

Semi-double form, to 100mm across × 60mm deep, rose pink (58C). Leaves serrate, acuminate, to 110mm, including petiole of c. 10mm, upper surface glossy mid-green (c. 147A but darker), lower surface lighter (c. 146B). Stamens fused at base, free part to 25mm long, pale salmon-pink (49B/C). Herbarium specimen (WSY0101125) and digital image (WSYD0004512) in the RHS Herbarium (WSY).

Caryopteris* *forrestii

Botanical Certificate. Exhibited by Mr P Catt, Liss Forest Nursery Ltd, Petersfield Road, Greatham, Liss, Hampshire, GU33 6HA on 9 November 2007.

Greenish-yellow-flowered species, collected in W Sichuan, growing on poor shale soil, near the border of Tibet. Introduced from W Sichuan by Mr Foster in 2005.

Castilleja* *pruinosa

Botanical Certificate for its narrow native range and rarity in cultivation. Exhibited by The Curator, RHS Garden Wisley, Woking, Surrey GU23 6QB on 19 May 2008.

***Celmisia* *spectabilis* 'Eggleston Silver'**

Award of Merit as a hardy flowering plant for exhibition. Exhibited by Prof. D and Mrs S Rankin, Midlothian on 31 May 2008.

Clump-forming perennial to 30cm. Leaves wide-spreading, lanceolate, to 280 × 30mm, petiole to 60mm, margins inrolled, upper surface green, grey-pubescent, lower surface thickly coated with white tomentum. Flowers held singly on stiff upright stems. Stems with 15–20 linear leafy bracts from 85 × 5mm (becoming smaller towards apex), stem and bracts densely white tomentose. Involucre c. 15mm long, the apical half brown, tomentose. Flower 65mm, comprising c. 100 overlapping ray florets 22 × 3mm, white (155B). Central disc comprising many florets, 25mm across, yellow (14A). Herbarium specimen (WSY0112080) in the RHS Herbarium (WSY).

***Chrysanthemum* 'Aikilon Pink'**

Award of Merit as a flowering plant for pot cultivation. Submitted by FlorElite Plants & Seeds B.V., Rijnsburg, the Netherlands, trial number 52, and awarded on 11 September 2007. Belgian chrysanthemum; pink.

***Chrysanthemum* 'Allegro'**

Certificate of Preliminary Commendation as a flowering plant for pot cultivation. Submitted by Cleangro Ltd, Chichester, West Sussex, trial number 15, and awarded on 11 September 2007. Digital image (WSYD0004627) in the RHS Herbarium (WSY).

***Chrysanthemum* 'Caukeel Chirpy'**

Certificate of Preliminary Commendation as a flowering plant for exhibition and as a flowering plant for cutting. Exhibited by Southway Nurseries, East Yorkshire, on 14 September 2007. Early-flowering outdoor spray: reflexed; red (53B).

***Chrysanthemum* 'Caukeel Crystal'**

Certificate of Preliminary Commendation as a flowering plant for exhibition and as a flowering plant for cutting. Exhibited by Southway Nurseries, East Yorkshire on 14 September 2007. Early-flowering outdoor spray: intermediate; light pink (65D).

***Chrysanthemum* 'Cheyenne'**

Certificate of Preliminary Commendation as a flowering plant for exhibition. Exhibited by Miss A Brook, West Yorkshire on 16 November 2007. Indoor single: large-flowered; dark red (53D).

***Chrysanthemum* 'Dawn Run'**

Certificate of Preliminary Commendation as a flowering plant for exhibition. Exhibited by Mr J Nevill, Staffordshire on 2 November 2007. Indoor medium (exhibition); dark pink/pale purple (76D).

***Chrysanthemum* 'Dolly'**

Award of Merit as a flowering plant for pot cultivation. Submitted by Yoder Toddington, Littlehampton, West Sussex, trial number 41, awarded on 11 September 2007. Charm: reflexed. Digital image (WSYD0004513) in the RHS Herbarium (WSY).

***Chrysanthemum* 'Domenico Orange'**

Award of Merit as a flowering plant for pot cultivation. Submitted by FlorElite Plants & Seeds B.V., Rijnsburg, the Netherlands, trial number 51, awarded on 25 September 2007. Belgian chrysanthemum; dark bronze.

***Chrysanthemum* 'Emperor'**

Certificate of Preliminary Commendation as a flowering plant for pot cultivation. Submitted by Cleangro Ltd, Chichester, West Sussex, trial number 6, awarded on 25 September 2007. Digital image (WSYD0004626) in the RHS Herbarium (WSY).

***Chrysanthemum* 'Fantasy'**

Certificate of Preliminary Commendation as a flowering plant for pot cultivation. Submitted by Cleangro Ltd, Chichester, West Sussex, trial number 9, awarded on 11 September 2007. Digital image (WSYD0004514) in the RHS Herbarium (WSY).

***Chrysanthemum* 'Gigi'**

Award of Merit as a flowering plant for pot cultivation. Submitted by Yoder Toddington, Littlehampton, West Sussex, trial number 27, awarded on 25 September 2007. Mid-season cushion chrysanthemum; mid-pink.

***Chrysanthemum* 'Gigi Gold'**

Certificate of Preliminary Commendation as a flowering plant for pot cultivation. Submitted by Yoder Toddington, Littlehampton, West Sussex, trial number 43, awarded on 11 September 2007. Digital image (WSYD0004623) in the RHS Herbarium (WSY).

***Chrysanthemum* 'Gigi Pink'**

Certificate of Preliminary Commendation as a flowering plant for pot cultivation. Submitted by Yoder Toddington, Littlehampton, West Sussex, trial number 28, awarded on 11 September 2007. Digital image (WSYD0004629) in the RHS Herbarium (WSY).

***Chrysanthemum* 'Gigi White'**

Certificate of Preliminary Commendation as a flowering plant for pot cultivation. Submitted by Yoder Toddington, Littlehampton, West Sussex, trial number 25, awarded on 11 September 2007.

***Chrysanthemum* 'Gold Cheryl'**

Certificate of Preliminary Commendation as a flowering plant for pot cultivation. Submitted by Yoder Toddington, Littlehampton, West Sussex, trial number 46, awarded on 8 October 2007.

***Chrysanthemum* 'Gudrun'**

Certificate of Preliminary Commendation as a flowering plant for pot cultivation. Submitted by Yoder Toddington, Littlehampton, West Sussex, trial number 32, awarded on 11 September 2007. Digital image (WSYD0004631) in the RHS Herbarium (WSY).

***Chrysanthemum* 'Harry Tolley'**

Certificate of Preliminary Commendation as a flowering plant for exhibition. Exhibited by Mr J Nevill, Staffordshire on 2 November 2007. Indoor reflexed: medium-flowered; purple (76C).

***Chrysanthemum* 'Herbie McCauley'**

Certificate of Preliminary Commendation as a flowering plant for exhibition. Exhibited by Mr H Lawson, Hartlepool on 7 September 2007. Early-flowering outdoor reflexed: medium-flowered; white (155D).

***Chrysanthemum* 'Inez'**

Award of Merit as a flowering plant for pot cultivation. Submitted by Yoder Toddington, Littlehampton, West Sussex, trial number 48, awarded on 11 September 2007. Charm; late-season cushion chrysanthemum; yellow.

***Chrysanthemum* 'Intermezzo'**

Award of Merit as a flowering plant for pot cultivation. Submitted by Cleangro Ltd, Chichester, West Sussex, trial number 19, awarded on 8 October 2007. Mid- to late-season cushion chrysanthemum; yellow.

***Chrysanthemum* 'Interval'**

Award of Merit as a flowering plant for pot cultivation. Submitted by Cleangro Ltd, Chichester, West Sussex, trial number 5, awarded on 8 October 2007.

***Chrysanthemum* 'Jazzy'**

Award of Merit as a flowering plant for pot cultivation. Submitted by Cleangro Ltd, Chichester, West Sussex, trial number 17, awarded on 8 October 2007. Single cushion chrysanthemum; red.

***Chrysanthemum* 'Jimmy Tranter'**

Certificate of Preliminary Commendation as a flowering plant for exhibition. Exhibited by Mr J Nevill, Staffordshire on 2 November 2007. October-flowering reflexed: medium-flowered; dark bronze (34B).

***Chrysanthemum* 'John Lowry'**

Certificate of Preliminary Commendation as a flowering plant for exhibition. Exhibited by Mr H Lawson, Hartlepool on 7 September 2007. Early-flowering outdoor reflexed: large-flowered; light purple (74D).

***Chrysanthemum* 'Jolly Cheryl'**

Certificate of Preliminary Commendation as a flowering plant for pot cultivation. Submitted by Yoder Toddington, Littlehampton, West Sussex, trial number 36, awarded on 8 October 2007.

***Chrysanthemum* 'Kerry'**

Certificate of Preliminary Commendation as a flowering plant for pot cultivation. Submitted by Yoder Toddington, Littlehampton, West Sussex, trial number 45, awarded on 11 September 2007. Digital image (WSYD0004633) in the RHS Herbarium (WSY).

***Chrysanthemum* 'Lemon Fizz'**

Certificate of Preliminary Commendation as a flowering plant for pot cultivation. Submitted by Cleangro Ltd, Chichester, West Sussex, trial number 22, awarded on 25 September 2007.

***Chrysanthemum* 'Magical'**

Award of Merit as a flowering plant for pot cultivation. Submitted by Cleangro Ltd, Chichester, West Sussex, trial number 2, awarded on 8 October 2007. Single cushion chrysanthemum; white.

***Chrysanthemum* 'Marlene Red'**

Certificate of Preliminary Commendation as a flowering plant for pot cultivation. Submitted by Yoder Toddington, Littlehampton, West Sussex, trial number 37, awarded on 25 September 2007.

***Chrysanthemum* 'Michele'**

Award of Merit as a flowering plant for pot cultivation. Submitted by Yoder Toddington, Littlehampton, West Sussex, trial number 44, awarded on 11 September 2007. Early season single cushion chrysanthemum; yellow.

***Chrysanthemum* 'Morgan'**

Certificate of Preliminary Commendation as a flowering plant for pot cultivation. Submitted by Yoder Toddington, Littlehampton, West Sussex, trial number 33, awarded on 11 September 2007.

***Chrysanthemum* 'Natalie Sarah'**

Award of Merit as a flowering plant for exhibition. Exhibited by Mr V Aldred on 7 September 2007. Early-flowering outdoor spray: single; white.

***Chrysanthemum* SHELLEY ('Yoshelley')**

Certificate of Preliminary Commendation as a flowering plant for pot cultivation. Submitted by Yoder Toddington, Littlehampton, West Sussex, trial number 40, on 8 October 2007. Charm: pompom.

***Chrysanthemum* 'Sherry'**

Certificate of Preliminary Commendation as a flowering plant for pot cultivation. Submitted by Yoder Toddington, Littlehampton, West Sussex, trial number 38, awarded on 8 October 2007.

***Chrysanthemum* 'Southway Sorbet'**

Certificate of Preliminary Commendation as a flowering plant for exhibition. Exhibited by Southway Nurseries, East Yorkshire on 7 September 2007. Early-flowering outdoor spray: single; light pink (65B).

***Chrysanthemum* 'Southway Sphynx'**

Certificate of Preliminary Commendation as a flowering plant for exhibition. Exhibited by Southway Nurseries, East Yorkshire on 7 September 2007. Early-flowering outdoor spray: single; light bronze (17A).

***Chrysanthemum* 'Southway Superior'**

Certificate of Preliminary Commendation as a flowering plant for cutting. Exhibited by Southway Nurseries, East Yorkshire on 14 September 2007. Early-flowering outdoor spray: single; bronze (168D).

***Chrysanthemum* 'Starstruck Pink'**

Certificate of Preliminary Commendation as a flowering plant for pot cultivation. Submitted by Cleangro Ltd, Chichester, West Sussex, trial number 7, awarded on 25 September 2007.

***Chrysanthemum* 'Wendy' AGM**

First Class Certificate as a flowering plant for exhibition and as a flowering plant for cutting. Submitted by Mr W B Wade, Leeds, trial number 68, awarded on 25 September 2007. Early-flowering outdoor spray: reflexed; light bronze.

***Chrysanthemum* 'White Lights'**

Certificate of Preliminary Commendation as a flowering plant for pot cultivation. Submitted by Cleangro Ltd, Chichester, West Sussex, trial number 1, awarded on 11 September 2007.

***Cochlioda noezliana* 'Gaytarn'**

Botanical Certificate as a tender flowering plant. Exhibited by Mr John Gay, Wakefield, Yorkshire on 15 July 2008. Description and colour pictures in *The Orchid Review* **116**: 299. Herbarium specimen (WSY0112283) in the RHS Herbarium (WSY).

Corydalis tauricola

Certificate of Preliminary Commendation as a flowering plant for exhibition. Exhibited by The Director, Royal Botanic Gardens, Kew, Richmond, Surrey on 12 February 2008. Description and colour picture in *The Alpine Gardener* **77**(1): 44–45. Herbarium specimen (WSY0101016) and digital image (WSYD0004523) in the RHS Herbarium (WSY).

***Cycnoches loddigesii* 'Marie'**

Award of Merit as a tender flowering plant for exhibition. Exhibited by Mr M Hopkinson, Radcliffe-on-Trent, Nottinghamshire on 11 September 2007. Description and colour pictures in *The Orchid Review* **115**: 356–357. Herbarium specimen (WSY0101217) in the RHS Herbarium (WSY).

***Cymbidium Avranches grex* 'Roche d'Or'**

Award of Merit as a tender flowering plant for exhibition. Raised and exhibited by the Eric Young Orchid Foundation, Jersey on 12 February 2008. Description and colour picture in *The Orchid Review* **116**: 172–173. Herbarium specimen (WSY0101678; nomenclatural standard) in the RHS Herbarium (WSY).

***Cymbidium* Loch Jess grex 'Lewes'**

Award of Merit as a tender flowering plant for exhibition. Raised and exhibited by McBean's Orchids, Cooksbridge, Lewes, East Sussex on 15 March 2008. Description and colour pictures in *The Orchid Review* **116**: 175. Herbarium specimen (WSY0101671; nomenclatural standard) in the RHS Herbarium (WSY).

***Cymbidium* Mourier Point grex 'Saint Mary's Village'**

Award of Merit as a tender flowering plant for exhibition. Raised and exhibited by the Eric Young Orchid Foundation, Jersey, on 15 March 2008. Description and colour pictures in *The Orchid Review* **116**: 173–174. Herbarium specimen (WSY0101677; nomenclatural standard) in the RHS Herbarium (WSY).

***Cymbidium* Paternoster grex 'Trinity'**

Award of Merit as a tender flowering plant for exhibition. Raised and exhibited by the Eric Young Orchid Foundation, Jersey on 12 February 2008. Description and colour picture in *The Orchid Review* **116**: 172–173. Herbarium specimen (WSY0101676; nomenclatural standard) in the RHS Herbarium (WSY).

***Cynorkis* guttata 'Clare'**

Botanical Certificate as a tender flowering plant for exhibition. Exhibited by Mr J Hermans, Enfield on 19 May 2008. Description and colour pictures in *The Orchid Review* **116**: 237.

***Cypripedium* Hank Small grex**

Certificate of Preliminary Commendation as a hardy flowering plant for exhibition. Exhibited by Mr I Christie, Angus on 31 May 2008.

Herbaceous, clump-forming, terrestrial orchid. Stems single, arising from underground rhizomes, to 30cm. Leaves 3–5, the lower ovate, acuminate, to 110 × 55mm, the upper ovate-lanceolate, to 85 × 30mm, with pronounced parallel veins. Flowers 2–3 per stem; sepals greyed purple (187A), dorsal sepal 30 × 10mm ovate-lanceolate; synsepal 25 × 10mm, ovate-lanceolate; petals 2, greyed purple (187A), deflexed, linear-lanceolate, 25 × 4mm, lip a deep pouch held horizontally, 22mm long × 15mm deep × 12mm across, green-yellow (1B) spotted with dark red and lined within; column with 3 staminodes, green-yellow (1B) spotted with dark red, 2 minute and the central one triangular, 11 × 6mm, with a green central keel. Herbarium specimen (WSY0112075) in the RHS Herbarium (WSY).

***Dahlia* 'Cherwell Linnet'**

Award of Merit as a flowering plant for exhibition. Exhibited by Mr P Godsmark, Storrington, Sussex, trial number 41, awarded on 12 August 2008.

Small ball; plant to 130cm tall. Flowers 11–12cm wide, blends of orange (167A), red (46B) and yellow (2A/7A), centre florets red (185A); lower surface red (N34A), veins and base yellow (2B). Leaves green (137A).

***Dahlia* 'Oakwood Royale'**

Award of Merit as a flowering plant for exhibition. Exhibited by Mr G Carey, Blackwood, Gwent, trial number 98, awarded on 26 August 2008.

Small decorative; plant to 150cm tall. Flower diameter 95–130mm, vivid reddish purple (N74A), maturing to vivid pink brighter than (67A-71C). Leaves green (N137A-147A).

***Dahlia* 'Trelyn Daisy'**

Award of Merit as a flowering plant for exhibition. Exhibited by Mr R G Tudor, Blackwood, Gwent, trial number 77, awarded on 19 August 2008. Collerette. Plant to 125cm. Ray florets white, with white collar; disc florets orange-yellow.

***Dendrobium* Rainbow Dance grex 'Akazukinchan'**

Award of Merit as a tender flowering plant for exhibition. Exhibited by Mr H Nagata, Aichi, Japan on 19 May 2008. Description and colour picture in *The Orchid Review* **116**: 235–236. Herbarium specimen (WSY0112284) in the RHS Herbarium (WSY).

***Dianthus* 'Anders Fay Seagrave'**

Award of Merit as a flowering plant for exhibition. Raised by Mr A J Derrick and exhibited by Mr B Gamble, 17 Welton Old Road, Welton HU15 1NU on 17 June 2008.

Garden pink; flowers single, 40mm diameter, white ground with deep maroon eye (c. 187B) and lighter maroon (N79C) lacing; inner edge of lacing and outer edge of eye irregular; not scented. Petals broad, very shallowly toothed. Digital image (WSYD0004516) in the RHS Herbarium (WSY).

***Dianthus* BERTA ('Barberta')**

Certificate of Preliminary Commendation as a flowering plant for exhibition. Exhibited by Mr P Booker, 15 Kings Road, Barnetby le Wold DN38 6HF on 17 June 2008.

Perpetual-flowering carnation; flowers fully double, effect mid-pink self (c. 65B), 80mm diameter, very lightly scented. Petals broad, pink (65D), almost entire to very shallowly dentate. Digital image (WSYD0004515) in the RHS Herbarium (WSY).

***Dianthus* 'Clifford Pipperoo'**

Certificate of Preliminary Commendation as a flowering plant for exhibition. Raised and exhibited by Mr M Woodfield, Woodend, Clifford Chambers, Stratford-upon-Avon, Warwickshire CV37 8HR on 15 July 2008.

Perpetual-flowering carnation; flowers fully double, 70mm diameter, effect is white to pale pink ground, with magenta-purple picotee and fine streaks (c. 71C). Petals lightly toothed; white ground, edged and streaked magenta-purple (c. to 71C).

***Dianthus* 'Florence Franklin'**

Certificate of Preliminary Commendation as a flowering plant for exhibition. Raised by Mr M Woodfield and exhibited by Mr P Booker, 15 Kings Road, Barnetby le Wold DN38 6HF on 17 June 2008.

Perpetual-flowering carnation; flowers fully double, yellow with raspberry wire-edge and ticks, giving an overall apricot colour, 85mm diameter; not scented. Petals broad, pale yellow (c. 9D), very lightly flushed with pale magenta (N74D); wire-edged and ticked with rich, dark-purple (N79A); shallowly dentate.

***Dianthus* 'Linfield Julie'**

Award of Merit as a flowering plant for exhibition. Raised and exhibited by Mr J Linnell, Linfield, Duncote, Towcester, NN12 8AH on 19 May 2008.

Garden pink; flowers semi-double, 55mm diameter, very pale pink (c. 76D) with dark-red (59A) eye and picotee.

***Dianthus* 'Olive Tolley'**

Award of Merit as a flowering plant for exhibition. Raised and exhibited by Mr M Woodfield, Woodend, Clifford Chambers, Stratford-upon-Avon, Warwickshire CV37 8HR on 19 May 2008. Perpetual-flowering carnation; fully double, salmon-pink self.

***Dianthus* 'Oxford Magic'**

Award of Merit as a flowering plant for exhibition. Raised by Mr S Webb and exhibited by Mr B Gamble, 17 Welton Old Road, Welton HU15 1NU on 17 June 2008.

Garden pink; flowers semi-double, with 2 rows of petals, 40mm diameter, white ground with deep maroon (187B) eye and lacing. Petals broad, mainly entire to very shallowly toothed. Digital image (WSYD0004517) in the RHS Herbarium (WSY).

***Dianthus* 'Pennine Chancer'**

Certificate of Preliminary Commendation as a flowering plant for exhibition. Raised by Mr R Bowers and exhibited by Mr B Gamble, 17 Welton Old Road, Welton HU15 1NU on 17 June 2008.

Garden pink; flowers single, 40mm diameter, effect is pink ground with maroon eye and dark pink lacing. Petals faintly dentate, white ground, heavily blushed and speckled red-purple (72B), rich red-purple eye (71A) with white ground showing through as speckles and central ray extending towards lacing; lacing red-purple (72A) brushed and speckled inwards up to 4mm wide. Herbarium specimen (WSY0101354) and digital image (WSYD0004518) in the RHS Herbarium (WSY).

***Dianthus* 'Prado Mint'**

Certificate of Preliminary Commendation as a flowering plant for exhibition. Exhibited by The Curator, RHS Garden Wisley, Woking, Surrey GU23 6QB on 19 May 2008. Perpetual-flowering carnation; fully double, pale yellowish green (150D) self; margins shallowly toothed. Digital image (WSYD0004519) in the RHS Herbarium (WSY).

***Dianthus* 'Sutton Olivia Newby'**

First Class Certificate as a flowering plant for exhibition. Raised by Mr M Newby and exhibited by Mr J Linnell, Linfield, Duncote, Towcester, NN12 8AH on 17 June 2008.

Garden pink; flowers fully double, pure white self, 45mm diameter, perfectly rounded outline when viewed from above; strongly scented. Petals broad, very shallowly dentate.

***Dianthus* 'Welton Stripes'**

Certificate of Preliminary Commendation as a flowering plant for exhibition. Raised and exhibited by Mr B Gamble, 17 Welton Old Road, Welton HU15 1NU on 17 June 2008.

Garden pink; flowers single, 35mm diameter, white ground, ticked and streaked light purple-red (N74C), with markings stronger (N74A) at the eye. Digital image (WSYD0004520) in the RHS Herbarium (WSY).

***Dicentra cucullaria* 'Carl Gehenio'**

Certificate of Preliminary Commendation as a hardy flowering plant for exhibition. Exhibited by Mr R Drew, Laindon, Essex on 15 April 2008.

Hairless, herbaceous perennial. Leaves all basal with petioles to c. 20mm long at anthesis, blade triangular in outline, to 35 × 40mm, divided into 3 sections, each section 2-pinnate, green (137C). Scapes curved, held above foliage, c. 10cm long. Inflorescence a

tight, terminal panicle, flowers pendent; pedicels to 4mm, purple becoming green at the apex. Bracts ovate-acuminate. Sepals ovate c. 2 × 1.5mm. Outer petals c. 12mm long, deeply saccate at base, white-pink (62B), with reflexed boat-shaped, orangey tip (20A); inner petals 9mm long, white. Further information and a colour picture can be found in *The Alpine Gardener* 77(1): 71–72. Herbarium specimen (WSY0101149) in the RHS Herbarium (WSY).

***Dionysia* 'Bolero'**

Certificate of Preliminary Commendation as a hardy flowering plant for exhibition. Exhibited by Mr and Mrs P Ranson, 27 Dickson Way, Audley Gate, Pewsham, Chippenham, Wiltshire SN15 3FW on 1 March 2008. Description and colour picture in *The Alpine Gardener* 77(1): 52–53. Herbarium specimen WSY0111913 and photographic slide WSY0099632 in the RHS Herbarium (WSY).

***Dionysia curviflora* 'Ewesley Edinburgh'**

Certificate of Preliminary Commendation as a flowering plant for exhibition. Exhibited by Mr A Newton, Ponteland, Newcastle upon Tyne, NE20 9NR on 16 February 2008. Description in *The Alpine Gardener* 77(1): 47–48. Herbarium specimen (WSY0107005) in the RHS Herbarium (WSY).

Dionysia gaubae

Award of Merit as a flowering plant for exhibition. Exhibited by Mr G Rollinson, 3 Woodside View, Holmfirth, West Yorkshire, HD9 2PT on 15 March 2008. Description and colour picture in *The Alpine Gardener* 74(4): 499–502 upon the award of a Certificate of Preliminary Commendation. Further information and a colour picture can be found in *The Alpine Gardener* 77(1): 34–36.

***Dionysia* 'Geist'**

Certificate of Preliminary Commendation as a flowering plant for exhibition. Exhibited by Mr and Mrs P Ranson, 27 Dickson Way, Audley Gate, Pewsham, Chippenham, Wiltshire SN15 3FW on 1 March 2008. Description and colour picture in *The Alpine Gardener* 77(1): 50–52.

***Dionysia* 'Tess'**

Certificate of Preliminary Commendation as a flowering plant for exhibition. Exhibited by Mrs J Bramley, 124 Holymoore Road, Holymoorside, Chesterfield, Derbyshire S42 7DU on 15 March 2008. Description and colour picture in *The Alpine Gardener* 77(1): 62–63. Herbarium specimen (WSY0107002) and photographic slide (WSY0099639) in the RHS Herbarium (WSY).

Dionysia zschummelii

Botanical Certificate for its rarity in the wild and in cultivation. Exhibited by Mrs J Bramley, 124 Holymoore Road, Holymoorside, Chesterfield, Derbyshire S42 7DU on 15 March 2008. Photographic slide (WSY0099642) in the RHS Herbarium (WSY).

***Disporum smithii* 'Criele'**

Certificate of Preliminary Commendation as a flowering plant for exhibition. Exhibited by Mr I Betteridge, Ashby de la Zouch, Leicestershire on 7 June 2008.

Clump-forming perennial to 70 × 270mm as exhibited. Leaves alternate, sessile, elliptic, c. 40 × 20mm, acuminate, acute, margins entire, undulate, glabrous, heavily variegated, base and central portion cream (2D), streaked very unevenly with green (144C) and pale

green, mostly in the upper third and along the margins but flecks and lines appearing irregularly elsewhere, mostly along the veins. Stems prostrate, slender, reddish with patent, wavy hairs becoming thicker towards the apex. Photographic slide (WSY0099640) in the RHS Herbarium (WSY).

***Echeveria glauca* 'Compton Carousel'**

Award of Merit as a tender plant for exhibition. Exhibited by Southfield Nurseries, Lincolnshire on 16 August 2008. Typical of the species, but with variegated foliage. Leaves primarily grey-green (191B) with grey (190B) streaking, green (13A) patches towards the apex, a clear broad white (155D) margin and a pink (62B) marginal edge.

***Epigeneium nakaharaei* 'Patrick'**

Botanical Certificate as a tender flowering plant. Exhibited by Ms J Kelleher, Orpington, Kent on 9 November 2007. Description and colour pictures in *The Orchid Review* **116**: 52–53. Herbarium specimen (WSY0101228) in the RHS Herbarium (WSY).

***Eranthis hyemalis* 'Schwefelglanz'**

Certificate of Preliminary Commendation as a hardy flowering plant for exhibition. Exhibited by Mr A Street, Avon Bulbs Ltd, Burnt House Farm, Mid Lambrook, South Petherton, Somerset TA13 5HE on 12 February 2008. Description in *The Alpine Gardener* **77**(1): 45–46. Herbarium specimen (WSY0101015) and digital image (WSYD0004524) in the RHS Herbarium (WSY).

Eucrosia bicolor

Certificate of Preliminary Commendation as a tender flowering plant for exhibition. Exhibited by Dr J C David, Staines, Middlesex on 15 April 2008.

Bulbous perennial. Leaves 2–3 per bulb, emerging at the time of flowering, yellow-green, elongate-ovate with a broad leaf lamina and a distinct petiole, 15–20 × 7–8cm, petiole 40 × 10mm. Scape rounded, green (between 137C and 146B) with a distinct glaucous bloom, 35–45cm tall, 5mm in diameter. Inflorescence with 5–7 flowers, c. 10cm across, subtended by up to 6 scarious bracts at the base of the pedicels, straw-coloured (N155D), 30–40mm long. Pedicels 30–40mm long, concolorous with the stem (137C–D). Flowers in bud predominantly darkish green (136C) with orange stripes which increase and broaden as the flower develops; on opening the tepals are reddish orange (22C), with a red base (N34C/180C), tips are creamy orange (22B), 32–35 × 6–7mm. Stamens 6, conspicuously exerted, declinate, withering and hanging down after dehiscence, filaments pale yellow (15D) 55–60mm long, anthers yellow-green (151A), becoming darker after dehiscence, 7–10mm long. Style initially declinate, becoming deflexed, pale yellow, with a capitate-trilobate, finely papillate stigma, 70–75mm long. Ovary glabrous, three-cornered, with distinct furrows appearing as the capsule forms, dark greyed green (189A). Herbarium specimen (WSY0101179) and digital image (WSYD0004522) in the RHS Herbarium (WSY).

Fritillaria acmopetala* subsp. *wendelboi

Certificate of Preliminary Commendation as a hardy flowering plant for exhibition. Exhibited by Mrs D Clement, Wolverhampton on 15 March 2008. Description and colour picture in *The Alpine Gardener* **77**(1): 63–64. Photographic slide (WSY0099635) in the RHS Herbarium (WSY).

***Fritillaria* 'Canmore Park'**

Award of Merit as a flowering for exhibition. Exhibited by Mr M Hopkins, Sunfield, Leschangie, Kenway, Inverurie, Aberdeenshire AB51 5PP on 5 April 2008. Description in *Hanburyana* 1: 48 upon the award of a Certificate of Preliminary Commendation. Further information can be found in *The Alpine Gardener* 77(1): 36.

***Fritillaria graeca* subsp. *graeca* 'Bill Ivey'**

Award of Merit as a hardy flowering plant for exhibition. Exhibited by Mr F Hunt, Dundee on 5 April 2008. Description and colour picture in *The Alpine Gardener* 77(1): 36–38. Herbarium specimen (WSY0112273; nomenclatural standard) in the RHS Herbarium (WSY).

Gagea wilczekii

Certificate of Preliminary Commendation as a flowering plant for exhibition. Exhibited by The Director, Royal Botanic Gardens, Kew, Richmond, Surrey on 1 March 2008. Description and colour picture in *The Alpine Gardener* 77(1): 53–54. Herbarium specimen (WSY0111912) and photographic slide (WSY0099641) in the RHS Herbarium (WSY).

***Galanthus* 'E.A. Bowles'**

Certificate of Preliminary Commendation as a hardy flowering plant for exhibition. Exhibited by Mr J Sharman, Monksilver Nursery, Oakington Road, Cottenham, Cambridge CB24 8TW on 12 February 2008. Description in *The Alpine Gardener* 77(1): 43–44. Herbarium specimen (WSY0101020) and digital image (WSYD0004535) in the RHS Herbarium (WSY).

***Galanthus* 'Greenfinch'**

Certificate of Preliminary Commendation as a hardy flowering plant for exhibition. Exhibited by Dr R MacKenzie, Barn Cottage, Shilton, Oxfordshire, OX18 4AB on 12 February 2008. Description and colour picture in *The Alpine Gardener* 77(1): 42–43. Herbarium specimen (WSY0101013) and digital image (WSYD0004525) in the RHS Herbarium (WSY).

***Galanthus* 'Lady Dalhousie'**

Certificate of Preliminary Commendation as a hardy flowering plant for exhibition. Exhibited by Mr I Christie, Downfield, Main Road, Kirriemuir, Angus DD8 5LP on 16 February 2008.

Bulbous perennial to 20cm as seen. Leaves 2 per stem, 115 × 15mm, plicate at base. Stems erect, to 13cm. Pedicel straight, to 60mm, extending beyond spathe at maturity. Spathe to 50mm, little curving, sharply hooked at the apex. Ovary top-shaped, more or less parallel-sided. Flowers single, solitary, horizontal to drooping; outer tepals 30 × 18mm, boat-shaped, white; inner tepals 14 × 12mm forming a 'tube', apical notch rounded, bordered outside by a bold, V-shaped green (143B) band, inside striped green (143C) along the veins with a white margin. Further information can be found in *The Alpine Gardener* 77(1): 46–47. Herbarium specimen (WSY0107004) in the RHS Herbarium (WSY).

***Galanthus nivalis* 'Llo 'n' Green'**

Certificate of Preliminary Commendation as a hardy flowering plant for exhibition. Exhibited by Mr J Sharman, Monksilver Nursery, Oakington Road, Cottenham, Cambridge CB24 8TW on 15 January 2008. Description in *The Alpine Gardener* 77(1): 41–42. Herbarium specimen (WSY0100861) in the RHS Herbarium (WSY).

***Galanthus peshmenii* 'Kastellorhizo'**

Award of Merit as a flowering plant for exhibition. Exhibited by Dr and Mrs R Wallis, Carmarthen on 13 October 2007. Description and colour picture in *The Alpine Gardener* 77(1): 31–32. Herbarium specimen (WSY0099283) and photographic slide (WSY0099627) in the RHS Herbarium (WSY).

***Galanthus plicatus* 'Three Ships'**

Award of Merit as a hardy flowering plant for exhibition. Exhibited by Mr and Mrs R J Leeds, Chestnuts, Whelp Street, Preston St Mary, Sudbury, Suffolk CO10 9NL on 15 January 2008. Description and colour picture in *The Alpine Gardener* 77(1): 32–33. Herbarium specimen (WSY0100862) in the RHS Herbarium (WSY).

***Gaura lindheimeri* 'Tutti Frutti'**

Award of Merit as a flowering plant for exhibition. Raised by R A Meredith/Sahin, first flowered in 2005, introduced in 2007 by Blooms of Bressingham and exhibited by Mr S Crawford, Flowers by Design, 12 Roman Row, Whichford, Warwickshire CV36 5PJ on 3 July 2008.

Plant 50cm high. Leaves 4–6 × 1–2cm, ovate, mid-green, many with large central purplish blotch. Flower stem very fine green heavily flushed purplish red particularly at top; c. 20–30 flowers per stem; individual flower 5cm diameter, 4 spaced-out petals, bright pink (73B), midrib purplish red (66A), buds dark purplish red (61A/B), 2cm long, pale pink filaments becoming paler pink towards base.

***Grevillea* 'Elegance'**

Award of Merit as a tender flowering plant for exhibition. Exhibited by Ms H Angrave, The Old Walled Garden, Oxon Hoath, Oxenhoath Road, Hadlow, Tonbridge, Kent TN11 9SS on 15 April 2008. This red-flowered cultivar arose from the hybrid *G. johnsonii* × *G. longistyla* and is not to be confused with the yellow-flowered *G. 'Poorinda Elegance'* sometimes also referred to as *G. 'Elegance'*.

Hakea microcarpa

Award of Merit as a flowering plant for exhibition. Exhibited by The Curator on behalf of the Sir Harold Hillier Gardens, Jermyns Lane, Ampfield, Romsey, Hampshire SO51 0QA on 19 May 2008.

Plant 3 × 2m. Stems slightly zigzag, changing direction at branch junctions. Leaves 18–60 × 2mm, rigid, needle-like, ± terete, spine-tipped and without a petiole. New growth is less rigid, paler green and downy with hairs. Flowers in clusters in leaf axils, cream (4D); pedicel <7mm; style c. 6mm straight for half its length and coiled for the other half; 4 narrow petal-like filaments, <1mm wide and shorter than the style, strongly recurved and frequently coiled, spring-like, bearing the stamens. Herbarium specimen (WSY0105627) in the RHS Herbarium (WSY).

***Helleborus* × *ericsmithii* 'Winter Moonbeam'**

Award of Merit as a flowering plant for exhibition. Raised and exhibited by Harveys Garden Plants, Great Green, Thurston, Bury St Edmunds, Suffolk IP31 3SJ on 12 February 2008.

Leaves dark green (147A), veined pale green, reverse pale yellowish green (147C) with dark maroon red midrib. Five leaflets, margins distinctly spiny. Flower stem 16cm stout, pale green densely spotted greyed pinkish red (176B). Inflorescence 2 flowers per stem;

2 leaf-like bracts, 35 × 20mm, ovate, encase flower bud giving pinkish bronze effect; flower diameter 8cm, perianth segments 40 × 30mm, base apple green (144B) fading outwards to white. 12 tubular nectaries, bright green (144A), anthers pale yellow, elliptic, styles stout, slightly curved. Herbarium specimen (WSY0101019; nomenclatural standard) and digital image (WSYD0004526) in the RHS Herbarium (WSY).

***Hyacinthus* 'Blue Tango'**

First Class Certificate as a flowering bulb for exhibition. Exhibited by J S Pennings, Breezand, the Netherlands on 19 May 2008. Flowers light violet (91A) with touches of a darker tone.

***Hyacinthus orientalis* 'Aiolos'**

Award of Merit as a flowering bulb for exhibition. Exhibited by J S Pennings, Breezand, the Netherlands on 19 May 2008. Plant 28cm tall. Inflorescence 16cm tall × 8cm wide. Flowers white, with the apical centre portion tipped green. Highly scented. Herbarium specimen (WSY0101946) in the RHS Herbarium (WSY).

***Hyacinthus orientalis* 'Blue Jacket' AGM**

First Class Certificate as a flowering bulb for exhibition. Exhibited by J S Pennings, Breezand, the Netherlands on 19 May 2008. Plant 32cm tall. Inflorescence 17cm tall × 8cm wide. Flowers dark blue (95A), with paler blue (96C) stripes on the outer surface and violet-blue (N88A), paling (to 91A) at margins on the inner surface. Stem purplish grey (N187C). Herbarium specimen (WSY0101945) in the RHS Herbarium (WSY).

***Hyacinthus orientalis* 'Hollyhock'**

Award of Merit as a flowering bulb for exhibition. Exhibited by J S Pennings, Breezand, the Netherlands on 19 May 2008. Plant 26cm tall. Inflorescence 90mm tall × 45mm wide. Flowers double, 35mm wide, deep red c. 60A, with margins pink (c. 70B), occasionally touched green on the lower surfaces. Highly scented. Herbarium specimen (WSY0101937) in the RHS Herbarium (WSY).

***Hyacinthus orientalis* 'Miss Saigon'**

Award of Merit as a flowering bulb for exhibition. Exhibited by J S Pennings, Breezand, the Netherlands on 19 May 2008. Flowers reddish purple (78A).

***Iris magnifica* 'Margaret Mathew'**

Certificate of Preliminary Commendation as a flowering plant for exhibition. Exhibited by The Director, Royal Botanic Gardens, Kew, Richmond, Surrey on 11 March 2008. Description and colour picture in *The Alpine Gardener* 77(1): 55–58. Herbarium specimen (WSY0111727) in the RHS Herbarium (WSY).

***Iris* 'Mainstream Spring'**

Award of Merit as a flowering plant for exhibition. Raised by M Betts and submitted by Mr C E Bartlett, trial number 25, awarded on 29 May 2008. Digital image (WSYD0004528) in the RHS Herbarium (WSY).

***Iris sibirica* 'Banish Misfortune'**

Award of Merit as a flowering plant for exhibition. Raised and submitted by Mrs J Hewitt, Worcestershire, trial number 53, awarded on 22 May 2008. Digital image (WSYD0004530) in the RHS Herbarium (WSY).

× *Jancaemonda vandedemii* 'Inchbrae'

Certificate of Preliminary Commendation as a flowering plant for exhibition. Exhibited by Mr B and Mrs M Wilson, Aberdeen on 14 April 2007.

Rosetted, clump-forming perennial to 13cm tall as exhibited. Leaves broadly elliptic, dark green, rugose with woolly white or brown hairs on both surfaces. Inflorescence branching with 8–10 flowers per stem; flowers 4-lobed to 40mm across, violet blue (92A) with a yellow-orange (22A) spot edged white at the base of each lobe.

Lachenalia latimerae

Certificate of Preliminary Commendation as a flowering plant for exhibition. Exhibited by The Director, Royal Botanic Gardens, Kew, Richmond, Surrey on 15 April 2008.

Bulbous perennial. Leaves basal, hairless, lanceolate, 170 × 15mm at anthesis, fairly glossy, vivid green. Stems fleshy, erect, green (144C), with a bloom, flecked red at the lowest pedicels becoming pink (70B) in the final quarter. Inflorescence a dense cylindrical spike, c. 80 × 30mm. Each flower subtended by a small, translucent tooth with pale speckling; pedicels purple-pink, 5mm, slender, horizontal; perianth campanulate, c. 9 × 12mm, white with an apical green marking; base of segments bluish (paler than 95D) especially in bud; stamens exerted, filaments white, anthers purple; attractively fragrant. Further information and a colour picture can be found in *The Alpine Gardener* 77(1): 68–71. Herbarium specimen (WSY0101145) in the RHS Herbarium (WSY).

Ledum palustre subsp. *diversipilosum*

Certificate of Preliminary Commendation as a flowering plant for exhibition. Exhibited by Mrs D Clement, Wolverhampton on 10 May 2008.

Small, evergreen shrub to 20 × 30cm as exhibited. Leaves alternate, ovate-elliptic, c. 35 × 18mm pointed at the tip, margins entire, slightly inrolled, underside with thick covering of rusty hairs, upper surface glossy, dark green (137A/B). Stems spreading from low down, thickly covered with rusty hairs in the upper part. Inflorescence a dense, terminal, globular umbel, c. 80mm across. Pedicels slender, to 15mm; calyx c. 1mm across, lobed to halfway; flowers saucer-shaped; petals separate almost to base, obovate, 6 × 3mm, white (155C); stamens strongly exerted; anthers small, cream, filaments to 6mm, white; stigma green, style to 3mm, white; ovaries globular, prominent, green.

Lycaste Astra grex 'Hatsune'

Award of Merit as a tender flowering plant for exhibition. Exhibited by Mr H Nagata, Aichi, Japan on 19 May 2008. Description and colour picture in *The Orchid Review* 116: 236. Herbarium specimen (WSY0112279) in the RHS Herbarium (WSY).

Mammillaria bombycina

First Class Certificate as a tender species for exhibition. Exhibited by Mr M Barton, 29 Lascelles Avenue, Harrow, Middlesex HA1 4AW on 16 August 2008.

Plant exhibited to 30cm tall × 65cm wide; with 110–130 separate stems. Underlying colour bright green (N134A), but masked by the colour of the spines and particularly the hairs. Tuberculate; spines at the apex of the tubercles and densely white-woolly (155C) between. Spines creamy white (155C) at base of stems, dark orange (N163A) one third of the way up the stem and orange-brown (166A) from there to the top of the stem.

Mazus radicans

Certificate of Preliminary Commendation as a hardy flowering plant for exhibition. Exhibited by The Director, Royal Botanic Gardens, Kew, Richmond, Surrey on 19 May 2008.

Creeping perennial, rooting at nodes. Leaves congested to 25 × 6mm, pilose, spatulate, upper portion oblong, margins undulate. Flower stems erect, pilose; supporting few-flowered inflorescence. Bracts 1 to 2, 5 × 0.5mm, acute. Calyx narrowly campanulate, dissected to c. halfway, pilose; lobes lanceolate, blunt-tipped, 4 × 1.5mm. Corolla 2-lipped, to 18mm, upper lip violet (N88A), lower lip white with yellow patch at centre becoming purple in throat. Stamens 4, unequal, upper pair shorter than corolla, lower equalling corolla. Herbarium specimen (WSY0111903) in the RHS Herbarium (WSY).

***Meconopsis* (Infertile Blue Group) 'Bobby Masterton'**

Certificate of Preliminary Commendation as a hardy flowering plant for exhibition. Exhibited by Dr E Stevens, Perthshire on 31 May 2008.

Rosette-forming perennial to 120cm at anthesis. Basal leaves to 370 × 60mm or more with stalk to 16cm; blade narrowly ovate-lanceolate gradually tapering, margins occasionally toothed, surface light green, paler on the underside with a prominent greenish midrib and covered with occasional bristly brown hairs becoming longer and forming a fringe on the petiole. Flower stalk green with short, bristly brown hairs becoming thicker towards the apex; cauline leaves to 260 × 55mm, sessile, ovate-lanceolate, margins with few, irregular, square teeth, surface covered with bristly, brown hairs forming a fringe at the margins. Buds to c. 35mm with an even covering of long, brown hairs. Flowers to c. 80mm forming a cup to c. 50mm depth; petals 4, orbicular obovate to 70 × 60mm, margins unevenly undulate, violet blue (97A fading to 97B); stamens numerous, filaments thread-like to 10mm, anthers orange; ovary with bristly, pale brown hairs, style long, to 11mm, stigma capitate. Herbarium specimen (WSY0112156) in the RHS Herbarium (WSY).

***Meconopsis* 'P.C. Abildgaard'**

Certificate of Preliminary Commendation as a hardy flowering plant for exhibition. Exhibited by Dr E Stevens, Perthshire and Mr I Christie, Angus on 31 May 2008.

Rosette-forming perennial to 100cm at anthesis. Basal leaves to 700 × 90mm or more with stalk to 40cm; blade ovate-lanceolate margins shallowly toothed, surface light green, paler on the underside with a prominent green midrib and sparsely covered with pale brown hairs. Flower stalk pale green with bristly, pale brown hairs becoming thicker towards the apex; cauline leaves to 300 × 55mm, sessile, ovate-lanceolate, margins with few, irregular, square teeth, surface covered with pale brown hairs forming a fringe at the margins. Buds to c. 30mm with an even covering of pale brown hairs. Flowers to c. 110mm forming an open cup to c. 40mm depth; petals 4, orbicular-obovate to 65 × 60mm, margins unevenly undulate, violet blue (97A); stamens numerous, filaments thread-like to 14mm, anthers orange; ovary with adpressed, whitish hairs, style long, to 10mm, stigma capitate and shortly hairy.

***Meconopsis* 'Willie Duncan'**

Certificate of Preliminary Commendation as a hardy flowering plant for exhibition. Exhibited by Dr E Stevens, Perthshire on 31 May 2008.

Rosette-forming perennial to 120cm at anthesis. Basal leaves to 450 × 85mm or more with stalk to 15cm; blade narrowly ovate-lanceolate gradually tapering, margins occasionally toothed, surface light green, paler on the underside with a prominent whitish midrib and covered with bristly, pale brown hairs becoming longer and forming a fringe at the margins and on the petiole. Flower stalk pale green with short, pale brown hairs becoming thicker towards the apex; cauline leaves to 300 × 95mm, sessile, lanceolate, margins with few, irregular, square teeth, surface covered with pale brown hairs forming a fringe at the margins. Buds to c. 40mm with an even covering of long, pale brown hairs. Flowers to c. 75mm forming a cup to c. 50mm depth; petals 4, orbicular-obovate to 60 × 60mm, margins unevenly undulate, blue (101B), suffused with violet (188B); stamens numerous, filaments thread-like to 13mm, anthers orange; ovary with adpressed, pale brown hairs, style long, to 9mm, stigma capitate and cruciform. Herbarium specimen (WSY0112153) in the RHS Herbarium (WSY).

Miersia chilensis

Botanical Certificate for its flowers, which resemble flies; it is therefore one of the very few non-orchideous monocots that display insect mimicry. Exhibited by The Director, Royal Botanic Gardens, Kew, Richmond, Surrey on 15 January 2008.

Narcissus cantabricus* subsp. *tananicus

Certificate of Preliminary Commendation as a hardy flowering plant for exhibition. Exhibited by The Regius Keeper, Royal Botanic Garden, Edinburgh, 20A Inverleith Row, Edinburgh EH3 5LR on 5 April 2008.

Bulbous perennial to 20cm as exhibited. Leaves 2 per stem 240 × 2.5mm, linear, glabrous, canaliculate, finely ribbed. Flower stem strongly upright, c. 14cm, minutely ridged. Spathe papery, tapering, to 35mm, sheathing ovary. Ovary oblong, green, 15 × 5mm. Flower single, solitary, conical to 50 × 40mm; perianth tube to 25mm; perianth lobes spreading, 18 × 8mm, triangular, acute, yellow (12A); corona wide-spreading, frilled at apex, yellow (12A); style simple, yellow, to 50mm; stamens to 40mm, pollen yellow. Herbarium specimen (WSY0112271) in the RHS Herbarium (WSY).

***Narcissus* Eira Group**

Award of Merit as a hardy flowering plant for exhibition. Exhibited by Dr and Mrs R Wallis, Carmarthen on 1 March 2008. Description in *Proceedings of the Royal Horticultural Society* 126: 157 upon the award of a Certificate of Preliminary Commendation. Further information and a colour picture can be found in *The Alpine Gardener* 77(1): 33–34. Photographic slide (WSY0099629) in the RHS Herbarium (WSY).

***Narcissus* 'Good Friend'**

Certificate of Preliminary Commendation as a flowering bulb for exhibition. Exhibited by Mr J Gibson, Kettering, Northamptonshire on 11 March 2008. Cyclamineus.

***Narcissus* 'Jammin'**

Certificate of Preliminary Commendation as a flowering bulb for exhibition. Exhibited by Mr B Duncan, Omagh, Co. Tyrone, Northern Ireland on 29 April 2008.

Small-cupped; flower rounded, 106mm wide; perianth segments very broad, blunt, mucronate, white, slightly reflexed, plane, with margins incurved at apex, smooth and of heavy substance, overlapping half; the inner segments broadly ovate, not noticeably mucronate, more nearly spreading, with margins plane; corona bowl-shaped, ribbed,

deep lemon yellow (9B), with green at base, mouth expanded, lobed, deeply frilled. Herbarium specimen (WSY0112087) in the RHS Herbarium (WSY).

***Narcissus* 'Sheelagh Rowan'**

First Class Certificate as a flowering bulb for exhibition. Exhibited by Mr C Yates, Bicknoller, Somerset on 15 April 2008.

Large-cupped; flower forming a double triangle, 13cm wide; perianth segments very broad, off-white, spreading, smooth and of very thick substance, overlapping half; the inner segments a little twisted or with margins wavy; corona cylindrical, of a purer white than the perianth, with green at base, mouth flared, with 6 shallow overlapping lobes, lightly frilled, rim obscurely crenate.

***Narcissus* 'Triple Crown' AGM**

Award of Merit as a flowering bulb for exhibition. Exhibited by Mr R Hilson, Haywards Heath, West Sussex on 29 April 2008.

Small-cupped: flower rounded, 80mm wide; perianth segments very broad, rounded at apex, deep golden yellow (3C), with a slight, white mucro, a little reflexed, concave at apex, overlapping half; the inner segments narrower, roundish, more nearly spreading; corona shallow bowl-shaped, ribbed, deep golden yellow (9A), with emerald green at base and a narrow band of red (N30B) at rim, mouth expanded and minutely frilled.

Nepeta kubanica

Award of Merit as a flowering plant for exhibition. Exhibited by Mr F Garrett, Great Dixter, Northiam, East Sussex TN31 6PH on 3 July 2008. Stem stiff, erect, 1.2m, branched. Leaves opposite, serrate, lanceolate, base rounded, tip apiculate. Inflorescence to 12 many-flowered verticillasters in heads of 18–20cm long, 5cm diameter. Flowers rich purplish violet, calyx 15mm long, hairy, very pale brownish pink with purplish pink teeth that are 5mm long.

***Nerine* 'Regina'**

Award of Merit flowering plant for exhibition. Exhibited by Mr K Hall, Springbank Nursery, Winford Road, Newchurch, Sandown, Isle of Wight PO36 0JX on 9 October 2007. Herbarium specimen (WSY0100574) in the RHS Herbarium (WSY).

***Nerine sarniensis* 'Anne Baring'**

Certificate of Preliminary Commendation as a tender flowering plant for exhibition. Exhibited by Mr K Hall, Springbank Nursery, Winford Road, Newchurch, Sandown, Isle of Wight PO36 0JX on 9 October 2007.

***Nerine sarniensis* 'Grandeur'**

Certificate of Preliminary Commendation as a tender flowering plant for exhibition. Exhibited by Mr K Hall, Springbank Nursery, Winford Road, Newchurch, Sandown, Isle of Wight PO36 0JX on 9 October 2007.

***Nerine sarniensis* 'Grogarry Loch'**

Award of Merit as a tender flowering plant for exhibition. Exhibited by Mr K Hall, Springbank Nursery, Winford Road, Newchurch, Sandown, Isle of Wight PO36 0JX on 9 October 2007.

***Nerine sarniensis* 'Harry Dalton'**

Certificate of Preliminary Commendation as a tender flowering plant for exhibition. Exhibited by Mr K Hall, Springbank Nursery, Winford Road, Newchurch, Sandown, Isle of Wight PO36 0JX on 9 October 2007.

***Nerine sarniensis* 'Loch Boisdale'**

Certificate of Preliminary Commendation as a tender flowering plant for exhibition. Exhibited by Mr K Hall, Springbank Nursery, Winford Road, Newchurch, Sandown, Isle of Wight PO36 0JX on 9 October 2007.

***Nerine sarniensis* 'Maiden's Blush'**

Award of Merit as a tender flowering plant for exhibition. Exhibited by Mr C Edwards, Isle of Wight on 9 October 2007.

***Nerine sarniensis* 'Noel'**

Certificate of Preliminary Commendation as a tender flowering plant for exhibition. Exhibited by Mr K Hall, Springbank Nursery, Winford Road, Newchurch, Sandown, Isle of Wight PO36 0JX on 9 October 2007.

***Nerine sarniensis* 'Tamilla'**

Certificate of Preliminary Commendation as a tender flowering plant for exhibition. Exhibited by Mr K Hall, Springbank Nursery, Winford Road, Newchurch, Sandown, Isle of Wight PO36 0JX on 9 October 2007.

***Nerine sarniensis* 'Tregony'**

Certificate of Preliminary Commendation as a tender flowering plant for exhibition. Exhibited by Mr K Hall, Springbank Nursery, Winford Road, Newchurch, Sandown, Isle of Wight PO36 0JX on 9 October 2007.

***Nerine sarniensis* 'Victor'**

Certificate of Preliminary Commendation as a tender flowering plant for exhibition. Exhibited by Mr K Hall, Springbank Nursery, Winford Road, Newchurch, Sandown, Isle of Wight PO36 0JX on 9 October 2007.

Nothoscordum andicola

Certificate of Preliminary Commendation as a flowering plant. Exhibited by The Director, Royal Botanic Gardens, Kew, Richmond, Surrey on 9 November 2007.

Bulbous perennial to c. 20cm. Leaves glabrous, linear, canaliculate, blunt-tipped, without aroma. Scape slightly succulent, c. 15cm long. Inflorescence an umbel of c. 11 flowers subtended by 2 bracts, ovate-acuminate, 15mm long, margins scarious, veins deep reddish pink (64A). Pedicels to 20mm, becoming pendulous. Tepals 6, joined at base, boat-shaped, 11 × 6mm, culminating in a minute tip, base green, lower portion suffused with red (64A) extending along the vein, fainter on the inside; filaments pale green, very broad at the base, anthers brown, equalling the style. Sweetly fragrant. Further information and a colour picture can be found in *The Alpine Gardener* 77(1): 40–41, 59. Herbarium specimen (WSY0111527) in the RHS Herbarium (WSY).

× *Odontioda* Bouley Bay grex 'Jersey'

Award of Merit as a tender flowering plant for exhibition. Raised and exhibited by the Eric Young Orchid Foundation, Jersey on 15 January 2008. Description and colour picture in *The Orchid Review* 116: 113. Herbarium specimen (WSY0101672) in the RHS Herbarium (WSY).

× *Odontioda* La Villaise grex 'Saint Clement'

Award of Merit as a tender flowering plant for exhibition. Raised and exhibited by the Eric Young Orchid Foundation, Jersey on 11 December 2007. Description and colour pictures in *The Orchid Review* **116**: 109–110. Herbarium specimen (WSY0101663; nomenclatural standard) in the RHS Herbarium (WSY).

***Odontoglossum* Les Niemes grex 'Jersey'**

Award of Merit as a tender flowering plant for exhibition. Raised and exhibited by the Eric Young Orchid Foundation, Jersey on 19 May 2008. Description and colour pictures in *The Orchid Review* **116**: 236–237. Herbarium specimen (WSY0112286; nomenclatural standard) in the RHS Herbarium (WSY).

Ozothamnus selago* var. *intermedium

Award of Merit as a hardy foliage plant. Exhibited by Mr A Furness, St Luke's Cottage, North Road, Wooley, Hexham, Northumberland, NE46 1TT on 13 October 2007. Description and colour pictures in *The Alpine Gardener* **77**(1): 29–30. Herbarium specimen (WSY0099278) in the RHS Herbarium (WSY).

***Papaver somniferum* 'Lauren's Grape'**

Award of Merit as a flowering plant for exhibition. Raised by L Springer, USA and exhibited by Mr F Garrett, Great Dixter, Northiam, East Sussex TN31 6PH on 3 July 2008.

Stem 45cm long, 3mm diameter, stiff, upright, pale green (138B), with cauline leaves to 20cm below flower head. Flower 10cm diameter, 7cm deep, 4 petals rich purple (71A) with glossy black central blotch.

***Paphiopedilum* Alois Handlbauer grex 'Only Make Believe'**

Award of Merit as a tender flowering plant for exhibition. Exhibited by Ms G Benn, Chilton, Oxfordshire on 14 June 2008. Description and colour picture in *The Orchid Review* **116**: 293–294. Herbarium specimen (WSY0112277) in the RHS Herbarium (WSY).

***Paphiopedilum godefroyae* 'White Fairy'**

Award of Merit as a tender flowering plant for exhibition. Exhibited by In-Charm Orchids, Taichung, Taiwan on 14 June 2008. Description and colour picture in *The Orchid Review* **116**: 294–295.

***Paphiopedilum* Knob Mochizuki grex 'Victoria Village'**

Award of Merit as a tender flowering plant for exhibition. Exhibited by the Eric Young Orchid Foundation, Jersey on 15 January 2008. Description and colour picture in *The Orchid Review* **116**: 112–113. Herbarium specimen WSY0101682; nomenclatural standard) in the RHS Herbarium (WSY).

***Paris polyphylla* AGM**

Award of Merit as a flowering plant for exhibition. Exhibited by Mr F Garrett, Great Dixter, Northiam, East Sussex TN31 6PH on 3 July 2008.

Stout stiff stem 6–8mm diameter. Leaves 9–10, 110 × 45mm, 5-veined, glabrous, tapering at base, petioles 3cm long. Petals 6–8, 80 × 3mm; sepals 6–8, 60 × 20mm, stamens 12–16, styles fused into short column.

Paris polyphylla* var. *stenophylla

Certificate of Preliminary Commendation as a hardy flowering plant for exhibition. Exhibited by Prof. D and Mrs S Rankin, Midlothian on 31 May 2008.

Rhizomatous perennial, stems to 30cm, dark green. Leaves in a single whorl of 15–18, linear-lanceolate, 80 × 10mm, margins undulate, keeled, dark green above, suffused violet below, glabrous. Flowers borne terminally with 9–10 leafy, lanceolate, dark green sepals 35 × 8mm; petals thread-like to 95mm, purple at base and yellow green (144B) towards the apex; ovary purplish green; stamens 9–10, 20mm, filaments purple-brown, pollen orange. Herbarium specimen (WSY0112079) in the RHS Herbarium (WSY).

***Phlox maculata* 'Snow Blush'**

First Class Certificate as a flowering plant for exhibition. Exhibited by Mrs R Clay, Pinklands, St Hilary, Cowbridge, Vale of Glamorgan on 3 July 2008.

Stems 5mm diameter, stiff, mid-green densely spotted maroon red. Leaves glabrous above. Flower panicle 30cm long, 15cm wide at base, 8cm wide at top, strongly scented. Flowers 3cm diameter, white with faint purplish pink in throat and bright yellow anthers, corolla lobes 1.5 × 1cm, orbicular; calyx 1cm long, lobes acute tips, pale green with dark purple midrib. Good scent.

***Phragmipedium Augres grex* 'Saint Helier'**

Award of Merit as a tender flowering plant. Raised and exhibited by the Eric Young Orchid Foundation, Jersey on 11 December 2007. Description and colour picture in *The Orchid Review* **116**: 110. Herbarium specimen (WSY0101684; nomenclatural standard) in the RHS Herbarium (WSY).

***Phragmipedium Grouville grex* 'Trinity'**

Award of Merit as a tender flowering plant for exhibition. Raised and exhibited by the Eric Young Orchid Foundation, Jersey on 12 February 2008. Description and colour picture in *The Orchid Review* **116**: 171–172. Herbarium specimen (WSY0101674; nomenclatural standard) in the RHS Herbarium (WSY).

Primula aurantiaca

Certificate of Preliminary Commendation as a hardy flowering plant for exhibition. Exhibited by Prof. D and Mrs S Rankin, Midlothian on 31 May 2008.

Proliferae: rosette-forming perennial to 30cm, efarinose. Leaves to 170 × 50mm, obovate, margins with irregular, fine teeth, surface glabrous, green, the underside with a prominent pale green midrib, flushed pink on the upper side with prominent veins. Flower stalk brownish red to 15cm to the first whorl of flowers, efarinose. Inflorescence in 3–4 whorls of 8–15 flowers per whorl. Bracts linear, to 15mm. Pedicels to 15mm. Calyx, cup-shaped, 9mm, 5-toothed. Flowers orange (24A fading to 24C), 13mm across with an annulus, tube 10mm long, petals 5, ovate to c. 6 × 4mm slightly notched; thrum-eyed; stamens 5, pollen yellow brown, style simple. Herbarium specimen (WSY0112157) in the RHS Herbarium (WSY).

Primula edelbergii

Certificate of Preliminary Commendation as a flowering plant for exhibition. Exhibited by The Director, Royal Botanic Gardens, Kew, Richmond, Surrey on 11 March 2008.

Sphondylia: rosette-forming perennial to 25cm tall. Leaves to c. 120 × 80mm, blade suborbicular, sticky with short glandular hairs, olive green, margin with fine, irregular teeth, slightly undulate, base cuneate. Stems c. 20cm with 2 or 3 whorls of about 7 flowers subtended by a whorl of oblanceolate bracts, toothed in the upper half, c. 55 × 10mm. Flowers on slender, upright pedicels to 40mm; calyx parallel-sided, 7 × 5mm with

triangular, acuminate lobes; corolla to 12mm across, golden (9A) with a small orange eye (17A); tube to 12mm long; lobes 6 × 8mm with a deep central notch. Thrum-eyed. Further information can be found in *The Alpine Gardener* 77(1): 58–59. Herbarium specimen (WSY0111526) in the RHS Herbarium (WSY).

***Primula japonica* 'Apple Blossom'**

Award of Merit as a hardy flowering plant for exhibition. Exhibited by Prof. D and Mrs S Rankin, Midlothian on 31 May 2008.

Proliferae: rosette-forming perennial to 40cm, efarinose. Leaves to 18.5 × 10cm, broadly ovate, margins with irregular coarse teeth, surface glabrous, green, the underside with a prominent pale green midrib and prominent veins. Flower stalk to 31cm to the first whorl of flowers. Inflorescence in 3–4 whorls, 8–10 flowers per whorl. Bracts linear, acuminate, to 16mm. Pedicels to 18mm. Calyx cup-shaped, 9mm, 5-toothed. Flower tube 14mm long, flowers 5-petalled, to 25mm, petals orbicular to c. 13mm with a broad central notch. Flowers pink (65B) fading to white, with an orange annulus, thrum-eyed; stamens 5, pollen slate-grey. Herbarium specimen (WSY0112073) in the RHS Herbarium (WSY).

***Primula japonica* 'Postford White' AGM**

Award of Merit as a hardy plant for exhibition. Exhibited by Prof. D and Mrs S Rankin, Midlothian on 31 May 2008.

Proliferae: rosette-forming perennial to c. 60cm, efarinose. Leaves to 28 × 10cm, broadly ovate, margins with irregular coarse teeth, surface glabrous, green, the underside with a prominent pale green midrib and prominent veins. Flower stalk to 41cm to the first whorl of flowers. Inflorescence in 3–4 whorls, 7–10 flowers per whorl, to 15 in terminal whorl. Bracts linear, acuminate, to 17mm. Pedicels to 25mm. Calyx cup-shaped, 10mm, 5–7-toothed. Flower tube 20mm long, flowers 5–6-petalled, to 33mm, petals obovate to c. 10 × 16mm with a broad central notch. Flowers white (155D), with an orange annulus, pin-eyed, stamens 5, pollen grey brown. Herbarium specimen (WSY0112077) in the RHS Herbarium (WSY).

Primula luteola

Certificate of Preliminary Commendation as a hardy flowering plant for exhibition. Exhibited by Prof. D and Mrs S Rankin, Midlothian on 31 May 2008.

Oreophlomis: rosette-forming perennial to 42cm. Leaves to 210 × 35mm or more with stalk to 70mm; blade narrowly ovate, gradually tapering, margins with regular small teeth, surface mid-green, the underside with a prominent white midrib, efarinose. Flower stalk pale green becoming farinose towards the apex. Inflorescence subtended by a ring of apical, triangular, farinose bracts 12 × 3mm, a loose umbel of 20–30 flowers; pedicels to 17mm, farinose; calyx 10mm, tubular and 5-toothed, farinose. Flowers yellow (8C), 18mm across, tube c. 13mm, orbicular to c. 9mm with a central notch, eye darker, exannulate, thrum; stamens 5, pollen sandy brown.

Primula moupinensis* subsp. *moupinensis

Certificate of Preliminary Commendation as a hardy flowering plant for exhibition. Exhibited by Prof. J Richards, High Trees, South Park, Hexham, Northumberland NE46 1BT on 1 March 2008.

Petiolares: leaves to 10 × 3.5mm at flowering, oblong, later with an obovate blade to 100 × 80mm and a petiole to 50 × 5mm, white farinose throughout at flowering,

becoming more sharply erose-dentate as leaves develop. Plants without stolons at flowering, but later stolons stout, more than 2mm thick, with large, terminal plantlets. Flowers scapose from first flowering, up to 13 together; scape thick, more than 3mm in diameter; pedicels thick to 10 × 1.5mm; calyx farinose, campanulate, 8–9mm, lobes 4mm, acute ; corolla heterostylous, bright pink (74D) with a well-marked white centre, 25–30mm in diameter, exannulate, spreading, obovate-retuse to slightly and shallowly emarginate. Herbarium specimen (WSY0101931) in the RHS Herbarium (WSY).

***Prunus cerasifera* ‘Hessei’**

First Class Certificate as a hardy flowering plant for exhibition. Exhibited by Mr Ivan Dickings, Rumah Kita, Bedfield, Woodbridge, Suffolk IP13 7JJ on 12 February 2008.

Slow-growing, free-flowering, white-flowered shrub to small tree, introduced around 1906 by Hesse of Weener, Germany. Flowers 20 to 25mm across, borne on shoot tips or short spurs singly or in short, 2- to 5-flowered racemes. Petals 5, white, ovate, c. 10 × 8mm. Sepals 5, long-triangular, c. 3 × 2mm at base, reflexed, with rounded tips, serrulate, pale greenish grey-brown, the margins and teeth pinkish purple. Perigynous zone and pedicel greyed purple (184A), glabrous, the pedicel 12 to 18mm long. Style c. 5mm, pale greenish yellow. Stamens c. 20, 3 to 7mm long, with white filaments and purplish anthers. Herbarium specimen (WSY0101017) in the RHS Herbarium (WSY).

***Renanthera storiei* ‘Jorg’**

Award of Merit as a tender flowering plant for exhibition. Exhibited by Mr J Frehsonke, % Orchideen Lucke, Neukirchen-Vluyn, Germany on 14 June 2008. Description and colour pictures in *The Orchid Review* **116**: 294–295. Herbarium specimen (WSY0112281) in the RHS Herbarium (WSY).

***Rhododendron* ‘Caerhays Lavender’**

Award of Merit as a flowering plant for exhibition. Exhibited by Mr C H Williams, Burncoose Nurseries, Cornwall on 26 April 2008.

Flower buds rose-mauve (c. N78D), c. 20 × 5mm in clusters of 2 or 3. Calyx with long hairs. Leaves obelliptic c. 27 × 11mm, with long hairs, tips submucronate; upper surface mid-green (lighter than 147A), lower surface slightly paler (c. 147B, but lighter). Juvenile leaves larger, to c. 40 × 15mm, oblanceolate, showy, with long hairs, yellow (c. 6D), reported to turn white and then green as flowers open. Herbarium specimen (WSY0112021; nomenclatural standard) in the RHS Herbarium (WSY).

***Rhododendron* (Nimrod Group) ‘Scheherezade’**

Certificate of Preliminary Commendation as a flowering plant for exhibition. Exhibited by Mr A Congreve, Mount Congreve Garden, Co. Waterford, Republic of Ireland on 12 March 2008.

Trusses up to 17cm across, of up to 18 flowers. Corolla widely funnel-shaped, glabrous, apart from few hairs on interior at base of the tube, to 55 × 65mm, with 6 ± equal lobes, petals joined from c. 23mm from the top to the base with the central upper the largest, creamy white (155D), the interior speckled red-purple (grading from 59A–C), most dense on the upper 3 petals, with a solid blotch at base of upper middle petal and edges of those either side (59B). Younger buds and on some petals of some flowers, the interior red-purple showing through to the exterior. Peduncle to 27mm long, peduncle pink-red on upper surface (46D); lower surface yellow-white (158B) flushed pink-red (46D). Stamens 13, 31–42mm long, filaments white, anthers fawn (between 166B/C), style to

39mm long, greenish yellow (1D), ovary to 1cm long, green with a slight flush of red. Calyx insignificant, pale green-yellow c. 2mm long. Leaves to 214 × 53mm, leaf blade 189mm long, petiole 25mm long. Leaves mid-green (c. 147A, but lighter), lower surface paler (c. 147C). Herbarium specimen (WSY0101115) in the RHS Herbarium (WSY).

***Roscoea cautleyoides* 'Pennine Purple'**

Certificate of Preliminary Commendation as a hardy flowering plant for exhibition. Exhibited by Mr N Huntley on 31 May 2008.

Tuberous-rooted, clump-forming herbaceous perennial. Single stem to c. 25cm at anthesis. Stem leaves 4–5, alternate, clasping the stem, lowest scale-like, increasing in size towards the apex, with a hyaline edge, the largest ovate-lanceolate c. 130 × 25mm. Bracts leafy, triangular to 45 × 10mm. Flowers greyed purple (187A) with 2 cream marks at the base of the lip, borne terminally, in groups of 3–4 with a long (30mm) slender tube; petals 3, the upper somewhat hooded, 30 × 14mm, ovate and acuminate, the laterals deflexed, 20 × 6mm, narrowly linear-ovate; staminodes 3, the upper 2 ovate, forming a hood-like structure, 22 × 9mm, the lower, lip-like 32 × 20mm, divided into 2 lobes with an undulate edge; stamens 2, held fused beneath the stigma, pollen yellow. Herbarium specimen (WSY0112074) in the RHS Herbarium (WSY).

***Roscoea humeana* f. *tyria* 'Inkling'**

Award of Merit as a flowering plant for exhibition. Exhibited by Mrs C Coller, Norwich, Norfolk on 7 June 2008. Photographic slide (WSY0099636) in the RHS Herbarium (WSY).

Rupicapnos africana* subsp. *gaetula

Certificate of Preliminary Commendation as a hardy flowering plant for exhibition. Exhibited by Drs I and C Bainbridge, Penicuik, Midlothian, on 6 October 2007.

Tufted perennial, arising from fleshy rootstock. Plant branched at base. Leaves mostly basal to 10cm with long petiole, bipinnatisect and pale green (138C). Flowers with 4 petals, the upper petal extended into a spur. Flowers white (155D) to 17mm long of which the spur is up to 5mm. The outer petals with a green stripe, inner petals with a purple tip (59A). Stigma 2-lobed. Further information can be found in *The Alpine Gardener* 77(1): 39–40. Herbarium specimen (WSY0111728) in the RHS Herbarium (WSY).

Saxifraga* × *dinninaris

Certificate of Preliminary Commendation as a hardy flowering plant for exhibition. Exhibited by Mr S Sutherland, Fife on 5 April 2008.

Porphyron: cushion-forming perennial to 48mm tall as exhibited. Rosettes upright, tight, comprising c. 20 oblong-ovate leaves, 3 × 2mm, greyish green with a prominent midrib and sparse hairs at the margin. Flower stem to 25mm, sparsely covered with long, white, curly hairs, with c. 8 linear, adpressed leaves, 4 × 1mm, scarcely overlapping. Calyx cup-shaped; sepals oval, blunt, fleshy, 5 × 3mm, hairy, green suffused vinous red. Flowers solitary, purple (78A), lobes 5, spatulate, 11 × 6mm, frilled at the margins; style pale pink, 9mm long, exserted; stamens concolorous with petals, arranged in 2 whorls, the superior whorl exserted. Further information and a colour picture can be found in *The Alpine Gardener* 77(1): 65–67. Herbarium specimen (WSY0112274) in the RHS Herbarium (WSY).

Solanum trinominum

Certificate of Preliminary Commendation as a flowering plant for exhibition. Exhibited by Dr M and Mrs A Sheader, Southampton, Hampshire on 26 April 2008.

Perennial shrub to c. 20cm tall. Stems erect, densely pubescent, hairs to c. 0.5mm. Leaves c. 25 × 10mm pinnatisect, sessile, grey-green, both surfaces densely tomentose, margins regularly lobed to two thirds, with c. 5 pairs of lobes, rounded, sometimes with a secondary lobe at the base of the primary lobe. Inflorescence c. 60mm long with c. 5 flowers; pedicels c. 12mm long at anthesis; calyx 10mm across, tube to 1.5mm, lobes equal, 4 × 2mm, oblong, rounded ciliate; corolla 25mm in diameter, pentagonal, white to bluish, tube to 1.5mm, lobes c. 10 × 12mm, ciliate, margins wavy; stamens unequal, 2 larger and 3 smaller, larger anthers to 6.5mm, smaller to 4.5mm, larger filaments to 3mm, smaller to 1mm; style c. 8mm; stigma globose, 0.8mm in diameter. Photographic slide (WSY0099645) in the RHS Herbarium (WSY).

***Sorbus carmesina* 'Emberglow'**

Certificate of Preliminary Commendation as a fruiting plant for exhibition. Exhibited by Mr C R Sanders on behalf of Dr H McAllister, Ness Botanic Gardens, University of Liverpool, Ness, Neston, South Wirral, CH64 4AY on 9 November 2007.

A description of this cultivar is given in *The Genus Sorbus: mountain ash and other rowans* by Hugh McAllister, published in 2005 by the Royal Botanic Gardens, Kew. This exhibit had fruits that were predominantly deep rose pink (54A/B), often with paler shades of pink or white on one side and with some fruits tinged bright red (46B). Collected in China in 1987, B&L 12545, and introduced to horticulture by Bridgemere Nurseries in 2000. Herbarium specimen (WSY0099280) in the RHS Herbarium (WSY).

Stachyurus yunnanensis

Award of Merit as a flowering plant for exhibition. Exhibited by The Honourable Evelyn Boscawen, Tregothnan, Truro, Cornwall, TR2 4AN on 15 April 2008.

Vigorous, evergreen shrub with arching, scandent habit and distinctive foliage. Leaves glabrous, alternate, lustrous deep green (N137A/B) above, sub-lustrous, yellowish green (146A/B) below, with paler midrib. Leaves ovate or oblong-lanceolate, somewhat willow-like, with finely serrate margins, long-acuminate tips and cuneate bases, c. 6–10 × 2–3cm. Petioles 13–20mm, tinged pink and grooved above. Young shoots green, older shoots reddish brown, striate, with scattered, raised, pale lenticels. Flowers cup-shaped, actinomorphic, bisexual, c. 50mm across, borne on very short pedicels, c. 1mm in pendent, axillary racemes, 5–11cm long. Petals 4, free, overlapping, broadly ovate to rhomboidal, pale greenish yellow (1C), 5 × 2.5mm. Sepals 4, free, 2.5 × 2mm. Superior ovary c. 2.5mm long with pale yellowish green style, c. 2mm, and greenish stigma. Stamens 8, free, in 2 whorls. Introduced from SW China by Mikinori Ogisu. Herbarium specimen (WSY0111896) in the RHS Herbarium (WSY).

***Streptocarpus* 'Alissa'**

Certificate of Preliminary Commendation as a tender flowering plant for exhibition. Exhibited by Dibleys Nurseries, Llaneldan, Ruthin, Denbighshire LL15 2LG on 19 May 2008. Herbarium specimen (WSY0101198) in the RHS Herbarium (WSY).

Tulipa australis

Certificate of Preliminary Commendation as a flowering plant for exhibition. Exhibited by The Director, Royal Botanic Gardens, Kew, Richmond, Surrey on 11 March 2008. Description in *The Alpine Gardener* 77(1): 54–55. Herbarium specimen (WSY0111726) in the RHS Herbarium (WSY).

***Tulipa* 'Ballerina' AGM**

First Class Certificate as a flowering bulb for exhibition. Exhibited by Broadleigh Gardens, Bishops Hull, Taunton, Somerset, TA4 1AE on 19 May 2008.

Lily-flowered Group: flowering stems to 52cm tall. Tepals 8 × 4cm at widest point, ovate, blunt to acute, mucronate, orange-yellow (23A), touched red (53A) at margins and apex and along the veins, with yellow (9A) at base. Inside the tepals are less heavily marked with red and have a double crease at the mid-vein. Anthers yellow. Leaves 23cm from base to tip, 4.5cm at widest point, broadly lanceolate, with distinctive longitudinal veining, margins incurving towards apex; mid-green (137A) on upper surface and paler (137B) on lower surface, with a thin pale margin. Stem yellow-green (143C). Herbarium specimen (WSY0101942) in the RHS Herbarium (WSY).

***Tulipa* 'Barcelona' AGM**

Award of Merit as a flowering bulb for exhibition. Exhibited by Mr R Blom, Shelton, Huntingdon on 29 April 2008.

Triumph Group: flower held upright on 63cm tall stems. Tepals 7 × 6.5cm at broadest point, very broadly ovate, blunt or slightly truncate at apex, margins minutely crenate, pink (67B), flushed with white and fully white at base. Inside the tepals are predominantly pink (67B), with a narrow band of white below and yellow at the base. Leaves 17cm from base to tip, 6cm wide at broadest point, broadly lanceolate, many leaves bifurcated at tip, moderate yellowish green (139B). Stem similar in colour to the leaves, but with a little more yellow. Herbarium specimen (WSY0101948) in the RHS Herbarium (WSY).

***Tulipa* 'Dordogne' AGM**

Award of Merit as a flowering bulb for exhibition. Exhibited by Bloms Bulbs, Primrose Nurseries, Melchbourne, Bedfordshire MK44 1ZZ on 19 May 2008.

Single Late Group: flowering stems to 68cm tall. Tepals 7.5 × 6cm at widest point, rounded, minutely truncate at apex, with margins slightly incurved, yellow-pink (37D) rising in palmate pattern from base, with the mid-vein rising to the apex, touched pale yellow (158A) at the centre of the base, orange-yellow (21A) running from apex to mid-vein, with yellow (9A) at the base of the margins. The inner tepals orange-yellow (21A), paling towards the creased mid-vein, with yellow-pink (37D) at base. Inside the tepals are yellow (9A) at base with a narrow band of green above, then a broad band of red (N30A) with a point of pink (51A) at the mid-vein, orange (N25C) up to the apex, with a point of yellow (6A) at the mid-vein. Anthers yellow-orange. Leaves smooth, dark grey-green (N138B) on upper surface, greener (138A) on lower surface, with paler veins. Stem yellow-green (143C). Herbarium specimen (WSY0101941) and digital image (WSYD0004532) in the RHS Herbarium (WSY).

***Tulipa* 'Menton' AGM**

First Class Certificate as a flowering bulb for exhibition. Exhibited by Bloms Bulbs, Primrose Nurseries, Melchbourne, Bedfordshire MK44 1ZZ on 19 May 2008.

Single Late Group: flowering stems to 73cm tall. Tepals 8.5 × 6.5cm at widest point, rounded, truncate or split at apex, pink (51D), paling to margins, yellowish white (158D) at base, with a thin line of orange-yellow (21A) following the margins from apex to just above the base. Inside the tepals are more prominently white along the basal margin and up the mid-vein, with yellow (9A), then banded green (N135A) and then red (46D), with orange (26A) above and a point of white (158D) at the apex. Anthers yellow-orange.

Leaves smooth, dark grey-green (N138B) on upper surface, greener (138A) on lower surface, with paler veins. Stem yellow-green (143C). Herbarium specimen (WSY0101939) and digital image (WSYD0004534) in the RHS Herbarium (WSY).

Tulipa 'Pink Panther'

Award of Merit as a flowering bulb for exhibition. Exhibited by Bloms Bulbs, Primrose Nurseries, Melchbourne, Bedfordshire MK44 1ZZ on 19 May 2008.

Parrot Group: flowering stems to 49cm tall. Tepals 8 × 7cm at widest point, broadly ovate, split at apex, with margins deeply dentate and also split, purplish pink (62A), touched yellow-green (138A), with white at base and purple-red (58C) at margins. Inside the tepals are yellowish pink (46D), with white at base and a narrow band of purple (N86B) separating the two. Anthers purple. Leaves smooth dark grey-green (N138B) on upper surface, greener (138A) on lower surface, with paler veins. Stem yellow-green (143C). Herbarium specimen (WSY0101940) and digital image (WSYD0004533) in the RHS Herbarium (WSY).

Tulipa 'Professor Röntgen'

First Class Certificate as a flowering bulb for exhibition. Exhibited by Bloms Bulbs, Primrose Nurseries, Melchbourne, Bedfordshire MK44 1ZZ on 19 May 2008.

Parrot Group: flowering stems to 47cm tall. Tepals 8 × 6cm at widest point. Tepals rounded, with margins incurving, creased and frilled, greenish yellow (5C), paler (1D) at base, with a band of dark orange (169B) following the margins and touches of green (141B) across the tepals. Tepals with many small lobules scattered over the outside of the tepals. Inner tepals yellow (6A), with dark orange (169B) at margins. Inside the tepals are bright orange (25A), touched with darker orange (169B), with yellow (9A) at base and a narrow band of green (N137A) above. Anthers purple-black. Leaves smooth, dark grey-green (N138B) on upper surface, greener (138A) on lower surface, with a narrow, pale band at margins. Stem yellow-green (143C). Herbarium specimen (WSY0101944) in the RHS Herbarium (WSY).

Uebelmannia pectinifera

Award of Merit as a tender species for exhibition. Exhibited by Mr M Weobley, 48 Rowan Drive, Billingshurst, West Sussex RH14 9NF on 16 August 2008.

Plant exhibited to 12cm high × 10cm diameter; single stem. Mainly grey-green (N189A) but greener (147A) towards the growing point. Spines on vertical ribs, grouped 3–6: old spines near the base of the plant grey-white (N155A) surrounded by very dense pale greyed yellow hairs (161D); most recently emerged spines dark purple-black (N186A/B) surrounded by very dense, slightly darker, greyed yellow hairs (161C).

Viola 'Rebecca'

Award of Merit as a flowering plant for exhibition. Exhibited by Mr G Goddard, 25 Mornington Road, Chingford, London E4 7DT on 3 July 2008.

Violetta: stems stiff, bright green 3mm diameter. Flowers 4cm wide × 3.5cm long, cream with outer edges and large parts of the petals heavily flushed violet (86B); petals slight frilled; base of lower petal flushed yellow (8C) becoming darker toward centre of flower. Reverse of flower very pale cream flushed overall to varying degrees with pale violet (86D); centre of flower a very small bright yellow dot. Calyx lobes linear with acute tips.

Nomenclatural Standards deposited in the Royal Horticultural Society's Herbarium, Wisley (WSY) November 2007–October 2008

COMPILED BY S.R. GRAYER

Botany Department, RHS Garden Wisley

The *International Code of Nomenclature for Cultivated Plants* (Brickell *et al.*, 2004) states: "A nomenclatural standard is an herbarium specimen or its equivalent to which the name of a cultivar or Group is permanently attached" (ICNCP Div. V, clause 1). Items are sent for deposit in the Royal Horticultural Society's herbarium (WSY); in accordance with Division V, clause 1 of the ICNCP, by listing them in this publication, they are officially designated nomenclatural standards. This list is a continuation of the list previously published in *Hanburyana* 3: 115–126 (2008).

The list that follows gives the plant name; the date it was collected or registered; the form the standard takes (i.e. herbarium specimen – flowering (fl), fruiting (fr), vegetative (v); illustration – painting (p), photographic transparency (tr), colour photograph (pc) which includes prints from digital files); and the unique accession number.

Aconitum carmichaelii 'Royal Flush', 26 Sep 2007, (fl), WSY0101152
Aconitum 'Ivory', 11 Jun 2008, (fl), WSY0101447
Aconitum lycoctonum 'Darkeyes', 16 Jul 2007, (fl), WSY0101151
Agapanthus 'Dartmoor', 19 Aug 2008, (fl), WSY0101416
Agapanthus 'Littlecourt', 22 Aug 2007, (fl), WSY0100655
Agapanthus 'Wembworthy', 20 Aug 2008, (fl), WSY0101485
Aquilegia 'Crimson Star', 17 Jun 1930, (p), WSY0009830
Camellia × *williamsii* 'Monica Dance', 12 Feb 2008, (fl), WSY0100987
Campanula 'Jenny', 18 Aug 2008, (fl), WSY0101409
Clematis 'Apple Blossom', 9 Mar 1926, (p), WSY0016782
Clematis 'BCL 1239', 19 Jul 2007, (pc), WSY0100891
Clematis 'Best Wishes', 16 Oct 2007, (fl), WSY0101101
Clematis 'Blue Belle', 10 Sep 1935, (p), WSY0016783
Clematis 'Debbie Fischer', 4 Jun 2007, (pc), WSY0100177
Clematis 'Gravetye Beauty', 10 Sep 1935, (p), WSY0016785
Clematis 'Hot Lips', 23 Oct 2007, (pc), WSY0100483

- Clematis* 'Irisevi', 9 May 2007, (pc), WSY0100201
Clematis 'Jurry', 4 Jun 2007, (pc), WSY0100190
Clematis 'Louise Pummell', 14 Feb 2007, (fl), WSY0100222
Clematis 'Marjan', 9 May 2007, (pc), WSY0100211
Clematis 'Merlin's Magic', 7 Jan 2008, (fl), WSY0100863
Clematis 'Nina Banham', 3 Oct 2004, (pc), WSY0100545
Clematis 'Pourpre Mat', 10 Sep 1935, (p), WSY0016774
Clematis 'Rob Hannink', 4 Jun 2007, (pc), WSY0100196
Clematis 'The Blue Cross', 10 Sep 2007, (pc), WSY0100500
Clematis 'Together', 10 Sep 2007, (pc), WSY0100502
Clematis 'Varenne', Jan 2007, (pc), WSY0100498
Clematis 'Wildfire', 14 Jan 2008, (pc), WSY0100887
Cornus kousa var. *chinensis* 'Wisley Queen', 27 Jun 2003, (fl), WSY0043668
Dahlia 'Avoca Geoffrey Moore', 15 Nov 2007, (pc), WSY0100701
Dahlia 'Avoca Salmon', 15 Nov 2007, (pc), WSY0100704
Dahlia 'Avoca Seminole', 15 Nov 2007, (pc), WSY0100702
Dahlia 'Bistro', 11 Sep 2008, (pc), WSY0101525
Dahlia 'Bōsō-otome', 10 Apr 2008, (pc), WSY0101143
Dahlia 'Carreg Cyril's Girl', 11 Sep 2007, (fl), WSY0100442
Dahlia 'Dikara Midnight', 19 Sep 2007, (fl), WSY0100396
Dahlia 'Freedom' Kroon, 13 Sep 1927, (p), WSY0017166
Dahlia 'Ginkon-shiki J', 10 Apr 2008, (pc), WSY0101141
Dahlia 'Golden Egg', 24 Jan 2008, (pc), WSY0100910
Dahlia 'Gyō-un', 10 Apr 2008, (pc), WSY0101142
Dahlia 'Harriet G', 1 Feb 2007, (pc), WSY0096673
Dahlia 'Higan-bare', 25 Oct 2007, (tr), WSY0100543
Dahlia 'Josie Gott', 25 Jan 2007, (pc), WSY0096679
Dahlia 'Kanbi', 25 Oct 2007, (tr), WSY0100544
Dahlia 'Kazusa-no-mai', 25 Oct 2007, (tr), WSY0100541
Dahlia 'Kindai-bi', 10 Apr 2008, (pc), WSY0101140
Dahlia 'Lemon Cane', 5 Jun 2008, (pc), WSY0101204
Dahlia 'Magenta Star', 26 Jul 2007, (fl), WSY0100470
Dahlia 'Marjorie J.L.', 15 Nov 2007, (pc), WSY0100705
Dahlia 'Meiō-sei', 10 Apr 2008, (pc), WSY0101138
Dahlia 'Mikan-musume', 25 Oct 2007, (tr), WSY0100539
Dahlia 'Momiji-yama', 10 Apr 2008, (pc), WSY0101137
Dahlia 'Monsieur C.H. Dupont', 1933, (p), WSY0016975
Dahlia 'My Betty', 10 Apr 2008, (pc), WSY0101136
Dahlia 'Narrow's Tricia', 7 Dec 2006, (pc), WSY0096507
Dahlia 'Noh-butai', 10 Apr 2008, (pc), WSY0101135
Dahlia 'Pembroke Levenna', 25 Jan 2007, (pc), WSY0096678
Dahlia 'Penhill Red Sunset', 6 Dec 2007, (pc), WSY0100770
Dahlia 'Penhill Yellow Queen', 6 Dec 2007, (pc), WSY0100769
Dahlia 'Purple Puff', 13 Sep 2007, (pc), WSY0100439
Dahlia 'Rō-shinshi', 25 Oct 2007, (tr), WSY0100542
Dahlia 'Royal Fantasy', 1 Feb 2007, (pc), WSY0096685
Dahlia 'Ryecroft Jan', 11 Sep 2007, (fl), WSY0100328
Dahlia 'Ryecroft Jim', 11 Sep 2007, (fl), WSY0100327
Dahlia 'Seirō', 10 Apr 2008, (pc), WSY0101133
Dahlia 'Shin-ya', 10 Apr 2008, (pc), WSY0101131

- Dahlia* 'Shu-hōkan', 25 Oct 2007, (tr), WSY0100546
Dahlia 'Sugar Cane', 5 Jun 2008, (pc), WSY0101203
Dahlia 'Susan Gilliott', 18 Sep 2008, (pc), WSY0101521
Dahlia 'Will's Ringwood Rosie', 11 Sep 2007, (fl), WSY0100366
Dahlia 'Yū-raku', 10 Apr 2008, (pc), WSY0101134
Dianthus 'Anders Aurora', 9 Feb 2005, (pc), WSY0060685
Dianthus 'Anders Emily Elizabeth', 9 Feb 2005, (pc), WSY0060688
Dianthus 'Anders Fay Seagrave', 9 Feb 2005, (pc), WSY0060689
Dianthus 'Anders Huntsman', 9 Feb 2005, (pc), WSY0060691
Dianthus 'Anders Jade', 9 Feb 2005, (pc), WSY0060687
Dianthus 'Anders Kate Murray', 9 Feb 2005, (pc), WSY0060690
Dianthus 'Anders Ria', 9 Feb 2005, (pc), WSY0060686
Dianthus 'Carlton Connie', 1 Feb 2006, (pc), WSY0070747
Dianthus 'Caroline Woodfield', 24 May 2007, (fl), WSY0100161
Dianthus 'Chesswood Hazel Honey', 5 Oct 2005, (pc), WSY0070305
Dianthus 'Chesswood Lidgett', 5 Oct 2005, (pc), WSY0070310
Dianthus 'Chesswood Lidgett Yellow', 4 Oct 2006, (pc), WSY0096324
Dianthus 'Chesswood Norma's Choice', 10 May 2006, (pc), WSY0103649
Dianthus 'Chesswood Phil Dalby', 5 Oct 2005, (pc), WSY0070303
Dianthus 'Chesswood Sairah Nisa', 11 Oct 2006, (pc), WSY0096325
Dianthus 'Chesswood Tahira Shah', 16 Jun 2005, (pc), WSY0070236
Dianthus 'Chesswood Wycoller', 5 Oct 2005, (pc), WSY0070307
Dianthus 'Clifford Pipperoo', 9 Jul 2004, (fl), WSY0051804
Dianthus 'Clifford Toyboy', 9 Jul 2004, (fl), WSY0051797
Dianthus 'Conwy Star', 17 Jun 2008, (tr), WSY0101329
Dianthus 'Ellen Ladd', 9 Feb 2005, (pc), WSY0060684
Dianthus 'Harriet Harrow', 25 Jul 1939, (p), WSY0017405
Dianthus 'Highland Charlotte Wares', 28 Sep 2005, (pc), WSY0070430
Dianthus 'Highland Christine Wares', 28 Sep 2005, (pc), WSY0070427
Dianthus 'Highland John Wares', 16 Aug 2006, (pc), WSY0103988
Dianthus 'Inez Blair', 25 Jul 1939, (p), WSY0017413
Dianthus 'Lady Windermere', 26 Jun 2003, (fl), WSY0070213
Dianthus 'Lakeside Cavell', 9 Oct 2006, (pc), WSY0096326
Dianthus 'Lakeside Lynette', 1 Nov 2006, (pc), WSY0096441
Dianthus 'Lakeside Margaret', 1 Nov 2006, (pc), WSY0096442
Dianthus 'Lakeside Nellie Haller', 1 Nov 2006, (pc), WSY0096440
Dianthus 'Lakeside Pin-gold', 1 Nov 2006, (pc), WSY0096439
Dianthus 'Lakeside Ruby-Lew', 1 Nov 2006, (pc), WSY0096443
Dianthus 'Lakeside Sophie-Lou', 1 Nov 2006, (pc), WSY0096437
Dianthus 'Lakeside Trinity', 1 Nov 2006, (pc), WSY0096444
Dianthus 'Lancashire Jubilation', 16 Jun 2005, (pc), WSY0070235
Dianthus 'Michelle Lamb', 9 Mar 2005, (pc), WSY0060828
Dianthus 'Rachel Claire Gibson', 16 Mar 2005, (pc), WSY0060827
Dianthus 'Tony's Doris', 16 Feb 2005, (pc), WSY0060683
Dianthus 'Woodfield's Clove', 24 May 2007, (fl), WSY0100162
Epimedium 'Amber Queen', 24 Apr 2008, (fl), WSY0101107
Eupatorium maculatum (Atropurpureum Group) 'Orchard Dene', 7 Aug 2006, (fl), WSY0096141
Fritillaria acmopetala 'Lamplight', 14 Apr 2007, (fl), WSY0100391
Fuchsia 'Chris Tarrant', 18 Aug 2008, (fl), WSY0101413

- Fuchsia* 'Delia Smith', 18 Aug 2008, (fl), WSY0101411
Fuchsia 'Geoff Oke', 21 Aug 2008, (fl), WSY0101490
Galanthus nivalis 'Hugh Mackenzie', 13 Mar 2007, (fl), WSY0096954
Gaura lindheimeri 'Rosyjane', 21 Aug 2008, (fl), WSY0101412
Gentiana 'Amethyst', 11 Oct 2006, (fl), WSY0089901
Gentiana 'Angus Beauty', 11 Oct 2006, (fl), WSY0089904
Gentiana 'Blue Streak', 11 Oct 2006, (fl), WSY0089908
Gentiana 'Silken Night', 15 Oct 2005, (fl), WSY0085247
Geranium (Cinereum Group) 'Giuseppina', 21 Jun 2005, (fl), WSY0097763
Geranium 'Dusky Gem', 13 Jul 2005, (fl), WSY0097694
Geranium 'Mrs Jean Moss', 22 Jul 2005, (fl), WSY0096478
Hedera helix 'Wingertsberg', 25 Nov 1986, (v), WSY0104231
Helleborus × *ericsmithii* 'Winter Moonbeam', 12 Feb 2008, (fl), WSY0101019
Ilex × *altaclerensis* 'Milford Lake', 30 Apr 2000, (fl), WSY0101112
Ilex × *altaclerensis* 'Westonbirt', 27 Jan 1978, (v), WSY0101192
Ilex aquifolium 'East Ruston Gold', Nov 2005, (fr), WSY0101110
Ilex aquifolium 'Stuart Boardman' (v), 30 Nov 2004, (fr), WSY0101109
Lathyrus odoratus 'Aurora Borealis', 29 Jun 2007, (fl), WSY0100895
Lathyrus odoratus 'Bramdean', 1 Jul 2008, (fl), WSY0101566
Lathyrus odoratus 'Gerry Cullinan', 27 Jun 2008, (fl), WSY0101564
Lathyrus odoratus 'Invicta', 29 Jun 2007, (fl), WSY0100896
Lathyrus odoratus 'Jacqueline Ann', 24 Jun 2008, (fl), WSY0101557
Lathyrus odoratus 'John Gray', 24 Jun 2008, (fl), WSY0101559
Lathyrus odoratus 'Linda Mary', 24 Jun 2008, (fl), WSY0101553
Lathyrus odoratus 'Wretham Pink', 27 Jun 2008, (fl), WSY0101562
Lavandula angustifolia GARDEN BEAUTY ('Lowmar'), 8 Jul 2008, (fl), WSY0101235
Linum narbonense 'Tilgate Blue', 27 May 1924, (p), WSY0018833
Miltonia Les Landes grex 'Jersey', 14 Apr 2007, (fl), WSY0100779
Miltonia Petite Anquette grex 'Trinity', 3 Apr 2007, (fl), WSY0100786
Narcissus 'Ann Sonia', 25 Jun 2007, (pc), WSY0100282
Narcissus 'Anna Panna', 25 Jun 2007, (pc), WSY0100286
Narcissus 'Annequin', 13 Nov 2007, (pc), WSY0101236
Narcissus 'Buckshead', 30 Jun 2008, (pc), WSY0101360
Narcissus 'Churchfield Bells', 2 Aug 2007, (pc), WSY0100291
Narcissus 'Clovelly Ayr', 30 Jun 2008, (pc), WSY0101365
Narcissus 'Color Ribbon', 27 Jun 2007, (pc), WSY0100293
Narcissus 'Dinah Rose', 3 Mar 2007, (fl), WSY0099082
Narcissus 'Frances Delight', 30 Jun 2008, (pc), WSY0101369
Narcissus 'Irene Copeland', 7 Apr 1925, (p), WSY0019358
Narcissus 'Jean Nicholl', 2007, (tr), WSY0100296
Narcissus 'Jersey Lace', 2 Aug 2007, (pc), WSY0100295
Narcissus 'Jersey Star', 2 Aug 2007, (pc), WSY0100297
Narcissus 'John Dickens', 2 Aug 2008, (pc), WSY0100298
Narcissus 'Kanchenjunga', 16 Apr 1940, (p), WSY0019361
Narcissus 'Katherine Jenkins', 6 Jul 2007, (pc), WSY0100294
Narcissus 'Latchley Meadows', 30 Jun 2008, (pc), WSY0101372
Narcissus 'Laura Webb', 29 Nov 2006, (pc), WSY0100300
Narcissus 'Lemon Drizzle', 2 Aug 2008, (pc), WSY0100299
Narcissus 'Magic Sunset', 27 Jun 2007, (pc), WSY0100301
Narcissus 'Marie Curie Diamond', 30 Jun 2008, (pc), WSY0101381

- Narcissus* 'Mitta Mitta', 20 Feb 2006, (pc), WSY0103900
Narcissus 'Molly Mop', 30 Jun 2008, (pc), WSY0101376
Narcissus 'Musetta's Waltz', 27 Jun 2007, (pc), WSY0100302
Narcissus 'Princess Eleanor', 2007, (pc), WSY0100303
Narcissus 'Spring Bouquet', 27 Jun 2007, (pc), WSY0100305
Narcissus 'Sukey', 30 Jun 2008, (pc), WSY0101380
Narcissus 'Trenwith', 30 Jun 2008, (pc), WSY0101379
Narcissus 'Welsh Rugby Union', 30 Jun 2008, (pc), WSY0101382
Nerine bowdenii 'Judy Read', 10 Nov 2006, (fl), WSY0089925
Nerine bowdenii 'Linda Vista', 26 Oct 2007, (fl), WSY0100549
Nerine bowdenii 'Mark Fenwick', 20 Sep 1966, (fl), WSY0048791
Nerine bowdenii 'Pink Surprise', 26 Oct 2007, (fl), WSY0100576
Nerine 'Rushmere Star', 25 Oct 1966, (fl), WSY0048845
Nyssa sylvatica 'Isabel Grace', 18 Aug 2008, (v), WSY0101403
Odontoglossum Grune de Becquet grex 'Saint Helier', 13 Feb 2007, (fl), WSY0100781
Odontoglossum L'Ecrevière grex 'Rozel', 17 Mar 2007, (fl), WSY0100782
Pelargonium 'Cottenham Magic', 20 Aug 2008, (fl), WSY0101482
Pelargonium 'Cottenham Triumph', 20 Aug 2008, (fl), WSY0101478
Pelargonium 'Fenland Queen', 20 Aug 2008, (fl), WSY0101477
Pelargonium 'Gaiety Girl', 20 Aug 2008, (fl), WSY0101480
Pelargonium 'Lotta Lundberg', 20 Aug 2008, (fl), WSY0101493
Pelargonium 'Miriam', 20 Aug 2008, (fl), WSY0101479
Pelargonium 'Southern Scheen', 20 Aug 2008, (fl), WSY0101481
Phragmipedium Don Wimber grex 'Saint Aubin', 16 Jan 2007, (fl), WSY0100783
× *Ramberlea* 'Inchgarth', 5 May 2007, (fl), WSY0100860
Rhododendron 'Albertine Eugénie', 14 Jun 2006, (pc), WSY0103714
Rhododendron 'Alessandro Pirotta', 25 Apr 2006, (pc), WSY0070962
Rhododendron 'Alice Boyd', 3 Sep 2007, (pc), WSY0100756
Rhododendron 'Anne-Marie Sim', 30 Apr 2007, (pc), WSY0100130
Rhododendron 'Annie d'Angiens', 15 Jun 2006, (pc), WSY0103715
Rhododendron 'Antonella Confortola', 25 Apr 2006, (pc), WSY0070964
Rhododendron 'Arianna Follis', 25 Apr 2006, (pc), WSY0070960
Rhododendron 'Arianna Fontana', 25 Apr 2006, (pc), WSY0070958
Rhododendron 'Arta', 24 Jan 2006, (pc), WSY0103652
Rhododendron 'Betty Clapp', 8 Jul 2006, (pc), WSY0103975
Rhododendron 'Brimble', 3 Sep 2007, (pc), WSY0100745
Rhododendron 'Caerhays Rebecca', 31 May 2004, (fl), WSY0103775
Rhododendron 'Carlo Contini', 25 Apr 2006, (photograph), WSY0070956
Rhododendron 'Château de Josselin', 13 Jun 2006, (pc), WSY0103713
Rhododendron 'Daila Dameno', 25 Apr 2006, (photograph), WSY0070954
Rhododendron 'Dzintra', 16 Jan 2006, (pc), WSY0103650
Rhododendron 'Elena Accati', 25 Apr 2006, (pc), WSY0070952
Rhododendron 'Etty', 19 Jun 2006, (pc), WSY0103711
Rhododendron 'Fanch Quéré', 15 Jun 2006, (pc), WSY0103716
Rhododendron 'Feja', 24 Jan 2006, (pc), WSY0103651
Rhododendron 'Fifi', 10 Apr 2007, (pc), WSY0096964
Rhododendron 'Fruit Salad', 15 Jun 2007, (fl), WSY0100240
Rhododendron 'Gabriella Paruzzi', 25 Apr 2006, (pc), WSY0070966
Rhododendron gardenia 'Jennifer Jean', 30 Apr 2007, (fl), WSY0100899
Rhododendron 'Gerda Weissensteiner', 25 Apr 2006, (pc), WSY0070968

- Rhododendron* 'Giuseppe Mazzola', 25 Apr 2006, (pc), WSY0070970
Rhododendron 'Hana-no-warutsu', 5 Sep 2006, (tr), WSY0096328
Rhododendron 'High Sheriff', 23 May 2006, (fl), WSY0103782
Rhododendron 'Iida Milky Way', 11 Sep 2006, (tr), WSY0096329
Rhododendron 'Isola Madre', 25 Apr 2006, (pc), WSY0070979
Rhododendron 'Jane Gardner', 5 Feb 2007, (pc), WSY0096693
Rhododendron 'Jennifer Isacco', 25 Apr 2006, (pc), WSY0070972
Rhododendron 'Jim Cruden', 21 Jun 2006, (pc), WSY0103681
Rhododendron 'Katia Zini', 25 Apr 2006, (pc), WSY0070974
Rhododendron 'Kingston Blush', 28 Jun 2007, (pc), WSY0100242
Rhododendron 'Kirishima-sakura', 30 Jan 2007, (tr), WSY0096631
Rhododendron 'Lockington Idyll', 2 Jan 2007, (pc), WSY0096514
Rhododendron 'Lockington Rosealba', 9 Jan 2006, (pc), WSY0070581
Rhododendron loranthiflorum subsp. *loranthiflorum* 'Dick Shaw', 30 Apr 2008, (fl), WSY0100901
Rhododendron 'LU Rolands', 24 Jan 2006, (pc), WSY0103654
Rhododendron macgregoriae 'Paddy Woods', 30 Apr 2007, (fl), WSY0100903
Rhododendron macgregoriae 'Tom Grieve', 30 Apr 2007, (fl), WSY0100902
Rhododendron 'Maisie', 13 Mar 2007, (fl), WSY0100146
Rhododendron 'Mara Zini', 25 Apr 2006, (pc), WSY0070976
Rhododendron 'Marie Josephine', 7 Feb 2006, (pc), WSY0096692
Rhododendron 'Marta Capurso', 25 Apr 2006, (pc), WSY0070978
Rhododendron 'Michael Hall', 27 Apr 2006, (fl), WSY0096311
Rhododendron 'Midsummer Mermaid', 16 Jul 2007, (fl), WSY0100733
Rhododendron minus var. *minus* 'Agris', 24 Jan 2006, (pc), WSY0103653
Rhododendron 'Miyono-hana', 5 Sep 2006, (pc), WSY0096337
Rhododendron 'Nancor', 25 May 2006, (fl), WSY0103788
Rhododendron 'Olimpiadi Torino 2006', 25 Apr 2006, (pc), WSY0070982
Rhododendron 'Paralimpiadi Torino 2006', 25 Apr 2006, (pc), WSY0070984
Rhododendron 'Peal', 3 Sep 2007, (pc), WSY0100750
Rhododendron 'Penvergate', 25 Apr 2006, (fl), WSY0103791
Rhododendron 'Penvose', 31 May 2006, (fl), WSY0103814
Rhododendron 'Phoenix Lorraine', 26 Jul 2006, (pc), WSY0103974
Rhododendron 'Polgrain', 31 May 2006, (fl), WSY0103799
Rhododendron polyanthemum 'Sheila Collenette', 30 Apr 2007, (fl), WSY0100898
Rhododendron 'Principe Pietro Troubetzkoy', 25 Apr 2006, (pc), WSY0070986
Rhododendron 'Principessa Bona Borromeo', 25 Apr 2006, (pc), WSY0070990
Rhododendron 'Professor Steen Olsen', 30 Jan 2007, (pc), WSY0096629
Rhododendron 'Red Jewel', 4 Jan 2006, (pc), WSY0070583
Rhododendron rousei 'John Rouse', 30 Apr 2007, (fl), WSY0100900
Rhododendron 'Sabina Valbusa', 25 Apr 2006, (pc), WSY0070992
Rhododendron 'Sheila McLeod', 30 Apr 2007, (pc), WSY0100131
Rhododendron 'Silvia Parente', 25 Apr 2006, (pc), WSY0070993
Rhododendron 'Slavka', 2 May 2006, (fl), WSY0103773
Rhododendron 'Summer Dawn', 15 Jun 2007, (fl), WSY0100241
Rhododendron 'Summer Sorbet', 15 Jun 2007, (fl), WSY0100238
Rhododendron 'Summer Sunshine', 15 Jun 2007, (fl), WSY0100237
Rhododendron 'Tage Buus', 30 Jan 2007, (pc), WSY0096630
Rhododendron 'Taieri Sunset', 5 Feb 2007, (pc), WSY0096690
Rhododendron 'The Marquis of Lansdowne', 31 Jul 2007, (pc), WSY0100734

- Rhododendron* 'Tholasma', 30 Jan 2007, (pc), WSY0096632
Rhododendron 'Tinner's Blush', 23 May 2006, (fl), WSY0103806
Rhododendron 'Tokimeki', 27 May 2006, (tr), WSY0096334
Rhododendron 'Treberick', 13 Jun 2006, (fl), WSY0103811
Rhododendron 'Tropical Salad', 15 Jun 2007, (fl), WSY0100239
Rhododendron 'Tsugaru-man'e', 4 Sep 2006, (tr), WSY0096331
Rhododendron 'TuttoScienze', 25 Apr 2006, (pc), WSY0070996
Rhododendron 'Universiadi Torino 2007', 25 Apr 2006, (pc), WSY0070988
Rhododendron viscosum 'Sea of Stars', 11 Jul 2007, (fl), WSY0100735
Rhododendron 'Water Baby', 11 Jul 2007, (fl), WSY0100736
Rhododendron 'Water Girl', 11 Jul 2007, (fl), WSY0100738
Rhododendron 'Winter Intruder', 17 Jan 2007, (fl), WSY0100137
Rhododendron 'Xmas Mauve', 7 Feb 2006, (pc), WSY0096694
Rhododendron 'Yaotome', 5 Sep 2006, (pc), WSY0096336
Rosa cymosa 'Rebecca Rushforth', 1980, (fl), WSY0101063
Sarracenia 'Jenny Helen', 22 Aug 2007, (v), WSZ0100383
Sidalcea 'Glory', 1936, (p), WSY0021735
Sidalcea 'H.H. Cowley', 1936, (p), WSY0021734
Sidalcea 'Hiawatha', 11 Aug 1925, (p), WSY0021733
Solenostemon 'City of Durham', 22 Jul 2008, (v), WSY0101509
Solenostemon 'City of York', 31 Oct 2007, (v), WSY0100522
Solenostemon 'Flamenco Dancer', 5 Sep 2008, (fl), WSY0101418
Stachys chrysantha 'Leonidio', 27 May 2006, (fl), WSY0089533
Streptocarpus 'Charlotte', 21 May 2007, (fl), WSY0100793
Streptocarpus 'Frosty Diamond', 21 May 2007, (fl), WSY0100796
Streptocarpus 'Jacquie', 21 May 2007, (fl), WSY0100795
Streptocarpus 'Katie', 23 Aug 2007, (fl), WSY0100648
Syringa komarowii 'Emei Shan', 21 May 2007, (fl), WSY0113676
Thymus polytrichus subsp. *britannicus* 'Orkney White', 9 Jul 2008, (fl), WSY0101239
Veratrum album 'Lorna's Green', Jul 2007, (fl), WSY0101325
Verbena 'Seabrook's Lavender', 10 Jul 2007, (fl), WSY0100647

Correction: nomenclatural standard of *Clematis* 'Bill MacKenzie'

The standard for this taxon is that cited by Willem A. Brandenburg in *Meclatis in Clematis: Yellow Flowering Clematis species. Systematic studies in Clematis L. (Ranunculaceae), inclusive of cultonomic aspects* (Wageningen Universiteit, 8 June 2000), p. 222, as being: Wilders 390 in **WAG** and not the specimen at **WSY** collected on 12 August 1999, WSY0020168, published in *Extracts from the Proceedings of the Royal Horticultural Society*, Vol. 127, 2003, p. 127.

REFERENCE

Brickell, C.D., Baum, B.R., Hetterscheid, W.L.A., Leslie, A.C., McNeill, J., Trehane, P., Vrugtman, F. & Wiersema, J.H. (eds) (2004). International Code of Nomenclature for Cultivated Plants, Seventh Edition. *Acta Horticulturae* **647**: 1–123, i–xxi.

John Lewis 1921–2009

It is with regret that we report the death of John Lewis in May at the age of 87. John began his botanical career at the Royal Botanic Gardens, Kew where he worked on the *Flora of Tropical East Africa* from August 1950 to January 1957, in that time producing accounts of *Turneraceae* (1954) and *Rhizophoraceae* (1956). In 1957 he moved to the Natural History Museum (NHM) where he worked until his retirement in 1981. He was a founding member of the International Association for Plant Taxonomy and a member of the International Organisation of Plant Biosystematists. He served as the Secretary to the Systematics Association Committee for Descriptive Biological Terminology, which resulted in the paper and associated chart laying down the names and definitions of simple symmetrical plane shapes published in *Taxon* in 1962. This chart has been used in Stearn's *Botanical Latin* ever since. John maintained an interest in the theoretical aspects of taxonomy which was evident in his later papers on the classification of cultivars published in 1986.

His principal interest was in the tropical monocot family *Xyridaceae* and while he carried out detailed research in the family for over 20 years, the results were published in regional floristic accounts. It is evident that during his time at the NHM he developed an interest in conifers and in horticulture, as demonstrated by his article in the then fledgling journal, *The Plantsman*, on the flowering of *Xyris muelleri* at Kew in 1980. His interest in horticulture, and more specifically horticultural taxonomy, led to his involvement with the development of the *European Garden Flora* and his membership of the editorial team for the first two volumes. His interest in conifers is reflected also in his contribution of accounts for genera in *Cephalotaxaceae*, *Taxodiaceae*, *Cupressaceae* (some), *Pinaceae* (some) and *Ginkgoaceae* in the first volume (1986). Following retirement from the NHM, John took over from Humphrey Welch as International Conifer Registrar, for which the RHS is the ICRA. This proved to be

an extremely productive period for the Register, with the preliminary list being produced in 1985, followed by Part 1 of the Register (*Abies* to *Austrotaxus*) in 1987, Part 2 (*Bellis* to *Phaeosphaera*) in 1989, Part 3 (*Chamaecyparis*, *Cupressus* & \times *Cupressocyparis*) in 1992 and finally the part that John himself was most proud of, Part 4 (*Juniperus*), in 1998. This last part was produced after John had handed over as Registrar to Piers Trehane. It is a testament to his activity that it has not been until this year, some 11 years later, that the next part of the register has been published.

John was also a keen painter and it was a delight to be shown by him a painting he made of a tree at Wisley in the 1970s, which was clearly a *Nyssa*, and which turned out to be the plant which subsequently was named as *Nyssa sylvatica* 'Wisley Bonfire', noted for its exceptionally fine autumn colouring. It was John's wish that the painting be presented to the RHS and it will be kept at Wisley.

John David

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Papers and other contributions are welcome from anyone carrying out research in horticultural taxonomy and nomenclature, both from the UK and overseas.

The remit of *Hanburyana* is to provide a place of publication for information on cultivated plants that is required to appear in print and for which no other outlet exists. Relevant topics include:

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- Bibliographic or biographic notes to assist with taxonomic research

There is one volume published a year and a limited number of printed copies are distributed to libraries and institutions with an interest in horticultural taxonomy. Volumes are also made available on the RHS website, from which individual papers may be downloaded.

Manuscripts for publication in *Hanburyana* and requests for further information, including guidelines for authors, should be sent to:

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