

# Azalea

*Journal of the Azalea Society of America*



<b>Summary of Registration Data for the Robin Hill Azaleas</b>	<i>Page 4</i>
<b>Flowers, Fungus, Bugs and Worms</b>	<i>Page 20</i>
<b>High Variability Incidences of <i>Rhododendron calendulaceum</i> Exhibited on a Mountain Slope in the Southern Appalachians</b>	<i>Page 22</i>



Post Office Box 34536  
West Bethesda, Maryland  
20827-0536

---

## NOTICE

---

### Election of Officers 1995

---

A ballot for the election of President, Vice President, and three Directors for the **AZALEA SOCIETY OF AMERICA** is included as part of this issue. The term of these officers is two years.

The other officers and Directors are elected on alternate years.

Please mark the ballot and return it to:

**Mr. Robert Stelloh**  
15241 Springfield Road  
Darnestown, MD 20874

The ballot must be received at the above address by May 1995.

**PLEASE VOTE!** ☐

---

### Prize for Best Article in THE AZALEAN—1994

---

In 1989, the Board of Governors authorized the editor of **THE AZALEAN** to establish an annual prize for the best article to appear in **THE AZALEAN**. The concept was to acquire through donations, a fund which when invested would provide an annual prize for the best article published in **THE AZALEAN**. Funds were donated by the following chapters to establish the "CHAPTER'S PRIZE":

Tri-State  
Richmond Virginia  
Ben Morrison  
Northern Virginia  
Brookside Gardens

As stated in the September 1990 issue, the best article each year will be selected by a poll of the membership. The prize will be announced and awarded at the Annual Meeting of the Society. The 1994 prize for best article in **THE AZALEAN** will be awarded at the 1995 Convention and Annual Meeting in Rockville, Maryland.

Past recipients of the prize are as follows:

1990 - Ajit Thakur  
1991 - Jane Newman  
1992 - Richard West  
1993 - Robert Stelloh

Included in this issue as part of the ballot for election of officers is a ballot listing all of the articles published in 1993. Please mark your ballot and mail it to:

**Mr. Robert Stelloh**  
15241 Springfield Road  
Darnestown MD, 20874

The ballot must be received at the above address by May 1, 1995! ☐

---

*On the Cover:* "Betty Ann Voss"

*Photographer:* Donald H. Voss

## Azalea Society of America

The Azalea Society of America, organized December 9, 1977 and incorporated in the District of Columbia, is an educational and scientific non-profit association devoted to the culture, propagation and appreciation of the series *Azalea* (subgenus *Anthodendron*) of the genus *Rhododendron* in the Heath family (Ericaceae).

---

### OFFICERS FOR 1994-1995

**President** L. Malcolm Clark  
**Vice-President** Stephen S. Brainerd  
**Secretary** Bill McIntosh  
**Treasurer** Glenn W. Taylor  
**Immediate Past-President** Robert W. Hobbs

### DIRECTORS

Terms Expiring in 1996	Terms Expiring in 1995
Carol Allen	Rosalie Nachman
Tony Dove	Fred Minch
	Jeff Beasley

Chapter presidents serve as ex-officio directors.

---

### CHAPTERS

**Brookside Gardens** (chartered August 1979)  
Carol Allen, *President*

**Richmond, Virginia** (chartered August 1979)  
Robert Clary, *President*

**Ben Morrison** (chartered May 1980)  
Nuran Miller, *President*

**Northern Virginia** (chartered May 1980)  
John Zottoli, *President*

**Louisiana** (chartered June 1981)  
Roy Constantine, *President*

**Tri-State** (chartered October 1981)  
Loren Gabe, *President*

**Flame Azalea** (chartered May 1984)

**Dallas Chapter** (chartered May 1989)  
Jim Garrison, *President*

**Oconee Chapter** (chartered November 1991)  
David Butler, *President*

---

Regular membership is open to all interested parties for an annual contribution of \$20.00. Life membership for an individual is \$300.00. Members receive **THE AZALEAN** and are eligible for participation in all activities of the Society including those of the chapter with which the member affiliates. For information and membership application, write to the Secretary, Azalea Society of America, P. O. Box 34536, West Bethesda, MD 20827-0536.

**THE AZALEAN**  
*Journal of the Azalea Society  
of America, Inc.*

**Editor**

Robert W. Hobbs, Ph.D.

**Associate Editor**

Belinda L. Hobbs

**Assistant Editor**

George S. Switzer, Ph.D.

**Advisory Editorial Board**

Donald H. Voss

Jane Newman

---

**THE AZALEAN** is published during March, June, September, and December by the Azalea Society of America, Inc., P. O. Box 34536, West Bethesda, MD 20827-0536.

Additional copies of the current and back issues can be obtained from the Azalea Society of America, P. O. Box 34536, West Bethesda, MD 20827-0536. Volumes 1 through 4 published from 1979 through 1982 consist of 15 issues at \$2.50 per issue. The price for each issue beginning with 1983, Volumes 5 through 16, is \$3.50.

Opinions and views expressed in **THE AZALEAN** are those of the contributors or the Editor, not necessarily those of the Society, and are presented to foster a wider appreciation and knowledge of azaleas. Advertisements are presented as a service to our readers and do not imply endorsement by the Azalea Society of America. Advertising and other contributions to **THE AZALEAN** are used exclusively to help defray the costs of publishing **THE AZALEAN**.

Address all editorial and business correspondence to:

**The Editor, THE AZALEAN**  
737 Walnut Avenue,  
North Beach, MD 20714.

---

Lay-out of **THE AZALEAN** by:  
Donna Ziegenfuss  
North Wales, PA

Printing of **THE AZALEAN** by:  
Hour Printer  
Silver Spring, MD

=====*Table of Contents*=====

**VOLUME 17 NUMBER 1**

**MARCH 1995**

- 2 **NOTICE: Election of Officers 1995**
- 2 **Prize for Best Article in THE AZALEAN - 1994**
- 4 **Summary of Registration Data for the Robin Hill Azaleas**  
*Donald H. Voss*
- 20 **Flowers, Fungus, Bugs, and Worms**  
*William C. Miller III*
- 22 **High Variability Incidences of *Rhododendron calendulaceum* Exhibited on a Mountain Slope in the Southern Appalachians**  
*Parker L. Little*
- 22 **ASA New Members**
- 23 **1995 Convention Reminder**
- 23 **Report of the Nominating Committee**
- 24 **Society News**  
Ben Morrison Chapter  
Brookside Gardens Chapter  
Dallas Chapter  
Oconee Chapter  
Glenn Dale Preservation Project--1995  
*William C. Miller III*  
In Memory
- 25 **Azalea Calendar**
- 26 **Azalea Mart**

# Summary of Registration Data for the Robin Hill Azaleas

Donald H. Voss

Vienna, Virginia

This summary has been prepared to facilitate verification of plants labelled with Robin Hill cultivar names. Reference to the original registration data is difficult, because these appeared in a half dozen now-hard-to-obtain publications. The author hopes that the selected data presented here will encourage correct use of the cultivar names and—even more important—application of the names to the correct plants. For a variety of reasons, misidentified plants are encountered from time to time; attention to the registration data should reduce these occurrences.

The names of all 69 Robin Hill azaleas have been registered. Only the first 69 cultivars in the accompanying list should be referred to as "Robin Hill" azaleas. Robert D. Gartrell was pleased to have azalea fanciers find merit in many more of his plants but preferred the "Robin Hill" designation to be reserved for his own selections. He specifically requested that the plants he did not name be referred to as "Gartrell Hybrids." 'Oakland' is not a cross by Gartrell; it was registered only because of its use as a parent in Gartrell's hybridization program.

For three of the Robin Hill azaleas and one parent plant, spelling of the cultivar names differs from that in the published registration statements. The first is 'Sherbrooke' (see box at right). In addition, the printed registrations contain three misspellings: 'Dorothy Rees' was incorrectly spelled "Dorothy Reese," 'Eunice Updike' was incorrectly spelled "Eunice Upkike," and the pollen parent of 'Eliza Scott' was given as "Meiwa" instead of the correct 'Heiwa'.

The following notes refer to conventions adopted in summarizing data extracted from the registration statements or in some cases added by the author:

- \* Gartrell's reference numbers are properly styled without leading zeroes (the latter being a mildly annoying device used by people who play with computers); thus, U7-8 is the correct form for the entry sometimes shown as U07-08.
- \* For the sake of comparability, bloom times (some of which were given for Wyckoff, NJ) have been adjusted to reflect typical periods for the Washington, DC, suburban area.
- \* In some cases, descriptive material not in the registration statements has been included in square brackets [ ].
- \* Dimensions are shown in both metric measure and in inches, separated by a colon; for example, 25.4mm:1". For measurements originally recorded in millimeters, equivalents are shown to the nearest 1/16".
- \* Some calyx measurements in the early registrations appear to reflect length of lobe only rather than receptacle to lobe-apex.
- \* The color names listed along with RHS Colour Chart (1966) chip numbers are from the Inter-Society Color Council—National Bureau of Standards color-name system. These names and numbers are listed in the Huse and Kelley pamphlet published by the American Rhododendron Society in 1984.
- \* Alternate color evaluations by the author used lighting and procedures different from those used by Gartrell. The 1992-93 measurements generally show the more saturated colors observed in the Washington, DC, area following unusually warm weather in the preceding winters. The colors listed for 1992-93 show the RHS color chip *closest* to the flower color, then following a slash mark (/) the next closest as determined by colorimetric measurement.

## An Orthographic Correction

The cultivar name of *Rhododendron* 'Sherbrooke' is hereby changed to *R.* 'Sherbrooke'. Gartrell said the name is that of an important thoroughfare in Montreal, Canada, where he had worked circa 1920. He recalled the name as being spelled without a final "e." The Montreal street, commemorating Sir John Coape Sherbrooke (Governor-in-Chief of British North America in 1816-18), is, however, "Sherbrooke." The correction reflects the principle that a cultivar name based on a personal name should reflect the usage of the individual commemorated.

- \* Leaf descriptions refer to the typical matured leaves of the spring flush of growth—not to the smaller, often differently shaped leaves of the summer flush of growth that persist through the winter.
- \* "Robin Hill" is properly stated as two words except in the cultivar name 'Nancy of Robinhill' (the elision was necessitated by the Cultivated Code rule limiting cultivar names to three words).
- \* "Robin Hill" was added to several of the names originally selected by Gartrell in order to permit registration when the selected names had already been registered for other cultivars in genus *Rhododendron*. 'Robin Hill Gillie' is one of the eight cases for which this emendation was necessary.
- \* All references to 'Carol' are to the Gable hybrid of that name. Gartrell used two Belgian Indian florist azaleas (names unknown) as parent plants. The one identified below as Indian hybrid "No. 1" was grown from a cutting obtained from Bobbink & Atkins and appears in his records as "Belgian hybrid," "Belg. hyb. No. 1," or "BA." The second, shown as Indian hybrid "No. 2," was a gift from a neighbor named Minton and appears as "Belg. hyb. No. 2" or "Minton."

The descriptive data shown must not be interpreted as invariable. Habitat, climate, and the progression of weather from bud formation to blooming time may produce some variation in size and color of flowers, as well as in the extent of doubling. Variation in corolla color occurs most commonly with respect to value (lightness) and chroma (color saturation at given level of lightness); hue (red, green, blue, etc.) tends to be less affected.

Because any color chart is a minuscule sample of the gamut of colors distinguishable by the normal human eye, most colors observed will fall *between* color chips. Unless the color is observed to be very close to that of a given chip, listing the bracketing chips in a description is desirable. In evaluating flower color all three components (hue, value, and chroma) must be considered. Where visual evaluation did not find chips of appropriate value and chroma in a hue close to that of a given flower, circumlocution has been resorted to; for example, "pale tints of RHS 52D."

Some of the terminology used to describe flower size will be foreign to most readers. Many of us have considered the relevant dimensions of a corolla to be its diameter at the "face" and the length from receptacle to the plane of the face, measured parallel to the floral axis (i.e., a "side view" of the flower). In geometric terms, considering the face of the flower as the base of a cone, this length would be the height of the cone. These are the dimensions that Gartrell and I used in the descriptions provided for registration. But the Registrar now requires use of a "petal length" measurement determined by flattening the petal and measuring between base and apex. On the living flower, this measure of petal length follows the petal surface from base to tip along its curvature.

Although petal length so measured permits comparisons with herbarium specimens (where the corolla is pressed flat), it does not facilitate visualization of flare of the corolla that one readily perceives by comparing diameter and cone height. In the tabulated Robin Hill descriptions, data for *alternate* di-

ameter and cone height are those recorded when petal length was measured in 1992. The listed petal lengths were determined by removing the corolla, cutting the tube between the two lower petals, flattening the corolla, and recording the average length of the three upper petals (on many azaleas, the lower petals are notably shorter). This process was repeated for three flowers of each cultivar.

Minor descriptive elements from the registration statements have been omitted in the interest of brevity. Gartrell's annoyance with what he considered the wholly superfluous task of describing morphological features using the arcane terminology of the "taxonometrists" (his term for taxonomists) led to some discrepant statements in the early registrations. For example, he was being assisted by rhododendron fanciers to whom anything less than full-blown indumentum apparently equated to "glabrous." But in common with other evergreen azaleas, hairs are present in varying numbers on leaves of the Robin Hill azaleas. Another term appearing in the early registrations is "apiculate," used to describe the small calloused prolongation of the midvein at the apex of the leaf. In the Robin Hill azaleas, however, these structures are characterized by having little or no laminar (leaf-blade) tissue extending to the tip. The leaves are, therefore, better described as being mucronate or mucronulate, depending on the prominence of the protrusion.

It appears that in the preparation of the early registrations the dimorphic nature of the foliage (spring leaves and summer leaves) was misinterpreted, and multi-year retention of leaves was stated. These references should be ignored. A descriptor frequently used in connection with corollas was "of heavy substance." I believe that "of good substance" would be more accurate, because the word "heavy" may imply the sort of thickness often found in flowers of tetraploid plants. Reference to this character is omitted from the table.

Leaf color has been omitted from the table. It is very difficult to evaluate

using the RHS color chart and, depending on a host of factors affecting the vigor of a plant, may vary considerably.

Plant habit is difficult to describe—what does a term like "dwarf" connote? Growing in a sunny location in Wyckoff, NJ, 'Betty Anne Voss' was 14" tall after 15 years; a plant of the same clone growing in shade at Vienna, VA, was about 30" tall after 15 years. In general, the Robin Hill azaleas are not dwarf. They grow more slowly and densely than many others, but in time most of them will attain height well beyond "dwarf." This is especially true if so-called water-shoots that sometimes develop in the summer are not removed. Some entries in the International Rhododendron Register specify heights in meters; these are not included in the table below.

Hardiness indications have been omitted from the table. Gartrell used -10°F. as a criterion for selection, and the Robin Hill *plants* have all shown ability to survive temperatures in that range. Bud hardiness is, of course, a different matter. The author has had good bloom on plants subjected to temperatures that low in some years but not in others—and, indeed, on some plants but not on others. An important factor appears to be weather conditions from time of bud formation to time of blooming. If fall and early winter weather promote a progressive "hardening off" (and if late winter and spring weather promote a continuous reversal of that process), heavy bloom can be expected even though midwinter temperatures were relatively low.

Unfortunately, erratic temperature swings are encountered frequently. The winter of 1993-94 was devastating to azalea bloom (on species as well as on many hybrid groups) in the Washington, DC, area. Much of the bud damage probably resulted from wild temperature swings such as those in mid-January 1994. January 11-14 were relatively mild, but during the ensuing week the daily low temperatures plummeted, posting a low of -11° F. on January 19. Then as spring came, the high on March 16 was 50°F. and the low a day later was 19°F.; highs

of 83 and 82 °F. on March 22-23 were followed by a low of 29°F. on March 26.

The history of several Robin Hill azaleas speaks to the desirability of using only reference numbers on plants until registration of names has been completed. Unfortunately, Gartrell would mention to others the names that he was considering for his hybrids long before he finalized the selections and undertook to register the names. He used them in distributing plants for testing and the recipients took these names as established and used them when they propagated Gartrell plants.

Several of the names chosen had been used previously in the genus and had to be changed to permit registration, and some were withdrawn from use by Gartrell. The prime example is V1-8, which Gartrell called "Rosenkavalier"; but there was already a rhododendron with that name. A second try was "Octavian," one of the Christian names of the "Rosenkavalier" in the Richard Strauss opera. Alas, there was already an 'Octavia', and "Octavian" was rejected as a possible source of confusion. A third attempt focussed on the pet name used by the field marshal's wife for her young lover Octavian: Quin-Quin, unfortunately pronounced something like "can-can"—and, of course, there was already a 'Can-Can' in the registry. Shifting to the hero of Mozart's

*The Magic Flute*, the name of V1-8 finally became 'Tamino'.

Two examples illustrate the confusion that can result from premature use of a name instead of a reference number before final selection. The plant first considered by Gartrell to carry the name of his elder daughter, Jeanne Weeks, has a flower that is very beautiful during and after opening but then continues to expand in an unattractive manner. Noting the latter feature, he decided to register a different plant, U7-8, as 'Jeanne Weeks'. Unfortunately, Gartrell had given plants of the first clone (using the tentative name) to others for testing, and some of the recipients propagated it under the name "Jeanne Weeks." Indeed, a plant of this clone (which has a green foliaceous calyx—I call it "Not Jeanne Weeks") won a best-in-show award labelled as 'Jeanne Weeks' at the American Rhododendron Society meeting in Williamsburg, VA, some years ago. A second example is V1-2, which Gartrell considered naming "Achievement" until observation over several more years showed that, although an excellent foliage plant, it did not bloom reliably at Wyckoff, NJ. The moral of the story: use reference numbers until your name for a plant has been registered and prevent the nomenclatural chaos illustrated above.

Reference(s) to published registration statements use the following abbreviations:

ARS — names submitted for registration through the American Rhododendron Society Registrar. The registration statements for these names were published in the *ARS Journal* and, subsequently, in the "Additions to the International Rhododendron Register."

IRR — names for which this is the only citation were registered directly with the International Registration Authority. "Additions to the International Rhododendron Register" for years prior to July 1986/June 1987 appeared in the annual *RHODODENDRONS with Magnolias and Camellias* published by the Royal Horticultural Society. Subsequently the "Additions" have been published in separate annual "Supplements" to the International Rhododendron Register. In the citations, IRR refers to the "Additions to the International Rhododendron Register." Note that the split-year identification of these publications was adopted after 1977.

RH — refers to the issue of *RHODODENDRONS with Magnolias and Camellias* in which the "Additions" appeared. □

Cultivar Name Reference Number Parentage	Spring Leaf Shape & Size --- Foliaceous Calyx Length & Color	Corolla Size and Shape —Registration Diameter & Cone Height —Number of Lobes —Alternate Diameter, Cone Height, & Petal Length —Form	Corolla Color —As Registered —Measured 1992-93	Flowers/Bud Habit --- Flowering Period
'Antoine' Ref. No.: U17-3A Sport from 'Chanson' (U17-3) IRR 1991/92	Elliptic 38mm:1-1/2" x 20mm:13/16" --- 2mm:1/16" light Yellow Green (145B)	Diameter : 72mm:2-13/16" Cone height : 30mm:1-3/16" No. of lobes : [5+ps] Alt. diameter: 72mm:2-13/16" Alt. cone ht. : 32mm:1-1/4" Petal length : 49mm:1-15/16" Semi-double to double; broadly funnel-shaped; [margins very wavy]	<i>As registered:</i> Pale tints of RHS 52D (strong Pink) to RHS 49C (light Pink), or slightly yellowish Pink under some growing conditions; hairline edging RHS 55B (strong purplish Pink); spotted RHS 55B (strong purplish Pink) <i>Measured 1992-93:</i> 92: RHS 51D / RHS 49B (moderate Pink) 93: RHS 54D (moderate purplish Pink) / RHS 51D (moderate Pink)	(1-)2 fls./bud Low, mounding, dense --- Early June

Cultivar Name Reference Number Parentage	Spring Leaf Shape & Size --- Foliaceous Calyx Length & Color	Corolla Size and Shape —Registration Diameter & Cone Height —Number of Lobes —Alternate Diameter, Cone Height, & Petal Length —Form	Corolla Color —As Registered —Measured 1992-93	Flowers/Bud Habit --- Flowering Period
'Betty Anne Voss' Ref. No.: U17-8 ( 'Louise Gable' x 'Tama-giku' ) x 'Shinnyo-no-tsuki'  ARS 31(2):118; IRR 1977 (in RH 1977:107)	Narrowly elliptic to elliptic 32mm:1-1/4" x 13mm:1/2" --- [3mm:1/8" strong Yellow Green]	Diameter : 83mm:3-1/4" Cone height : 35mm:1-3/8" No. of lobes : 5+5+ps Alt. diameter: 76mm:3" Alt. cone ht. : 35mm:1-3/8" Petal length : 54mm:2-1/8" [Double, occasionally semidouble]; hose-in-hose plus petaloid stamens; widely funnel-shaped; lobes broad, wavy; opens like a rosebud	<i>As registered:</i> RHS 62A (strong purplish Pink) to RHS 62C (light purplish Pink); spotted faint tint of RHS 62B (moderate purplish Pink) <i>Measured 1992-93:</i> 92: RHS 65A (moderate Pink) / RHS 62B (moderate purplish Pink) 93: RHS 62B (moderate purplish Pink) / RHS 73C (light purplish Pink)	2-4 fls./bud Dwarf [low], rounded, branching well (dense) --- Late May
'Betty Layman' Ref. No.: T22-7 'Oakland' x 'Heiwa'  IRR 1984/85 (in RH 1985/86:97)	Narrowly elliptic 38mm:1-1/2" x 14mm:9/16" --- 7mm:1/4" strong Yellow Green (143C)	Diameter : 88mm:3-7/16" Cone height : 34mm:1-5/16" No. of lobes : 6 Alt. diameter: 85mm:3-3/8" Alt. cone ht.: 38mm:1-1/2" Petal length : 56mm:2-3/16" Single; broadly funnel-shaped; [lobes broad, somewhat crinkled, overlapping]; margins wavy	<i>As registered:</i> RHS 43C (deep yellowish Pink) - RHS 43D (strong yellowish Pink) to RHS 47D (deep Pink); spotted RHS 53A (deep Red) <i>Measured 1992-93:</i> 92: RHS 44D / RHS 43C (deep yellowish Pink) 93: RHS 39A (strong Red) / RHS 44D (deep yellowish Pink)	1[(-2)] fl./bud [Medium height, mounding to somewhat upright, dense] --- Mid May
'Blue Tip' Ref. No.: Z12-2 (O.p. sdg. from 'Malvaticum' ) x 'Hosei'  IRR 1991/92	Elliptic 40mm:1-9/16" x 19mm:3/4" --- 4mm:3/16" light Yellow Green (145B)	Diameter : 72mm:2-13/16" Cone height : 25mm:1" No. of lobes : 5 Alt. diameter: 60mm:2-3/8" Alt. cone ht.: 28mm:1-1/8" Petal length : 46mm:1-13/16" Single, broadly funnel-shaped; lobes slightly overlapping, margins wavy	<i>As registered:</i> RHS 72C to 78B (strong reddish Purple) with variably developed White center; color often concentrated at petal tips in mature speci- mens; spotted RHS 61B (strong purplish Red) <i>Measured 1992-93:</i> 92: RHS 77B / RHS 80B (strong Purple) 93: RHS 77B (strong Purple) / RHS 80C (light Purple)	(1-)2 fls./bud [Medium height], mounding, loose --- Late May
'Bob White' Ref. No.: N42-6 'Oakland' x 'Doctor Bergmann'  ARS 37(4):231; IRR 1983/84 (in RH 1984/85:77)	Elliptic to broadly elliptic 44mm:1-3/4" x 25mm:1" --- [Absent]	Diameter : 57mm:2-1/4" Cone height : 29mm:1-1/8" No. of lobes : 5+5 Alt. diameter: 56mm:2-3/16" Alt. cone ht.: 26mm:1" Petal length : 37mm:1-7/16" [Single]; hose-in-hose; [openly] funnel-shaped; lobes wavy	<i>As registered:</i> White; throat RHS 150D (light Yellow Green), no markings <i>Measured 1992:</i> 92: RHS 156D / RHS 196D (yellowish White)	2 fls./bud [Low], broad, branching well --- Mid May
'Chanson' Ref. No.: U17-3 ( 'Louise Gable' x 'Tama-giku' ) x 'Shinnyo-no-tsuki'  IRR 1984/85 (in RH 1985/86:98)	Elliptic 40mm:1-9/16" x 20mm:13/16" --- 2mm:1/16" strong Yellow Green (144A)	Diameter : 75mm:2-15/16" Cone height : 30mm:1-3/16" No. of lobes : 5 Alt. diameter: 72mm:2-13/16" Alt. cone ht.: 30mm:1-3/16" Petal length : 48mm:1-7/8" Semidouble to double; broadly funnel- shaped	<i>As registered:</i> RHS 55B (strong purplish Pink) to light tint of RHS 52D (strong Pink) - RHS 55D (pale purplish Pink); with hairline edging RHS 54B (deep purplish Pink); spotted faint yellowish Pink, or RHS 52C (deep Pink) over strong color <i>Measured 1992-93:</i> 92: RHS 54D (moderate purplish Pink) / RHS 51D (moderate Pink) 93: RHS 54D (moderate purplish Pink) / RHS 51D (moderate Pink)	2 fls./bud [Low, mounding, dense] --- End of May/early June
'Christie' Ref. No.: T21-2 ( 'Louise Gable' x 'Tama-giku' ) x 'Heiwa'  IRR 1991/92	Elliptic to narrowly obovate 37mm:1-7/16" x 18mm:11/16" --- 10mm:3/8"light Yellow Green (145C)	Diameter : 75mm:2-15/16" Cone height : 38mm:1-1/2" No. of lobes : 5 Alt. diameter: 80mm:3-1/8" Alt. cone ht.: 42mm:1-5/8" Petal length : 60mm:2-3/8" Single, broadly funnel-shaped, lobes very wavy-edged	<i>As registered:</i> RHS 55C (light purplish Pink) to RHS 55D (pale purplish Pink); sometimes shading to nearly White in throat <i>Measured 1992-93:</i> 92: axial—RHS 54D / RHS 51D (moderate purplish Pink) 92: margin—RHS 56B / RHS 56A (pale purplish Pink)	1 fl./bud Low, mounding, dense --- Late May

Cultivar Name Reference Number Parentage	Spring Leaf Shape & Size --- Foliaceous	Corolla Size and Shape —Registration Diameter & Cone Height —Number of Lobes	Corolla Color —As Registered —Measured 1992-93	Flowers/Bud Habit --- Flowering Period
Published Source	Calyx Length & Color	—Alternate Diameter, Cone Height, & Petal Length —Form		
'Conversation Piece' Ref. No.: T36-6 ( 'Emile Russave' x 'Carol' ) x 'Eikan'	Narrowly elliptic to elliptic 41mm:1-5/8" x 16mm:5/8" --- 5mm:3/16" light green	Diameter : 89mm:3-1/2" Cone height : 51mm:2" No. of lobes : 5 Alt. diameter: 90mm:3-9/16" Alt. cone ht.: 40mm:1-9/16" Petal length : 63mm:2-1/2" [Single]; widely funnel-shaped; lobes wavy	<i>As registered:</i> Variable: Selfed RHS 68C (moderate purplish Pink); White; sectored; or RHS 68C (moderate purplish Pink) shading to lighter at lobe edge; prominently spotted RHS 57B (vivid purplish Red) on dorsal lobes <i>Measured 1992-93:</i> 92: axial—RHS 62B / RHS 65A (moderate purplish Pink) 92: self—RHS 66C (deep purplish Pink) / RHS 57D (vivid purplish Red) 93: self—RHS 66C (deep purplish Pink) / RHS 57D (vivid purplish Red)	1-3 fls./bud Dwarf to semidwarf [low], broad, branching moderately (yet dense) with horizontal branches --- Late May
ARS 32(1): 45-6; IRR 1977 (in RH 1977: 109)				
'Corry' Ref. No.: T21-9 'Mucronatum' x 'Heiwa'	Narrowly elliptic to elliptic 42mm:1-5/8" x 16mm:5/8" --- 6mm:1/4" strong Yellow Green (144B)	Diameter : 80mm:3-1/8" Cone height : 30mm:1-3/16" No. of lobes : 5 Alt. diameter: 90mm:3-9/16" Alt. cone ht.: 45mm:1-3/4" Petal length : 66mm:2-5/8" Single, broadly funnel-shaped; lobes broadly overlapping, wavy-edged	<i>As registered:</i> RHS 74C (light reddish Purple), sometimes marked with White; or sports White with light reddish Purple markings; spotted RHS 67A (strong purplish Red) over strong color, otherwise greenish Yellow <i>Measured 1992-93:</i> 92: RHS 80C (light Purple) / RHS 77B (strong Purple) 93: RHS 80C (light Purple) / RHS 78B (strong reddish Purple)	1 fl./bud Low, [mounding to somewhat upright, fairly dense] --- Mid May
IRR 1991/92				
'Dorothy Hayden' Ref. No.: T5-2 ( 'Glacier' x ('Louise Gable' x Gable C8G)) x 'Getsu-toku'	Broadly elliptic 29mm:1-1/8" x 19mm:3/4" --- [6]3mm:1/8" light green	Diameter : 95mm:3-3/4" Cone height : 51mm:2" No. of lobes : 5 Alt. diameter: 90mm:3-9/16" Alt. cone ht.: 30mm:1-3/16" Petal length : 66mm:2-5/8" [Single]; tubular [to openly] funnel- shaped; flat faced; lobes frilled [very wavy]	<i>As registered:</i> White; dorsal throat and upper lobes spotted RHS 149D (pale Yellow Green) [to RHS 145B/ C (light Yellow Green)] <i>Measured 1992-93:</i> 92: RHS 156D (yellowish White) /RHS 192D (greenish White)	1-2 fls./bud Dwarf [low], rounded, well branched --- End of May, early June
ARS 31(2):118; IRR 1977 (in RH 1977:112)				
'Dorothy Rees' Ref. No.: V1-9 'Glacier' x ('Louise Gable' x 'Tama- giku')	Elliptic 35mm:1-3/8" x 19mm:3/4" --- [6]3mm:1/8" pale green	Diameter : 83mm:3-1/4" Cone height : 35mm:1-3/8" No. of lobes : 5 Alt. diameter: 90mm:3-9/16" Alt. cone ht.: 43mm:1-11/16" Petal length : 56mm:2-3/16" [Single]; widely funnel-shaped; lobes wide, overlapping, wavy	<i>As registered:</i> White; throat RHS 145D (light Yellow Green) <i>Measured 1992:</i> 92: RHS 155C / RHS 192D (greenish White)	1-2 fls./bud Semidwarf [low], rounded, branching well with stiff branches --- Late May
ARS 31(2):118; IRR 1977 (in RH 1977:112)				
'Early Beni' Ref. No.: N26-6 'Louise Gable' x ( 'Oakland' x (Indian hybrid "No. 1" x 'Carol'))	Elliptic 29mm:1-1/8" x 13mm:1/2" --- [5mm:3/16" moderate Yellow Green]	Diameter : 64mm:2-1/2" Cone height : 25mm:1" No. of lobes : 5+5+ps Alt. diameter: 70mm:2-3/4" Alt. cone ht.: 33mm:1-5/16" Petal length : 48mm:1-7/8" [Double to irregular double]; hose-in- hose plus petaloid stamens; openly funnel-shaped; lobes wavy	<i>As registered:</i> RHS 43B (vivid reddish Orange) <i>Measured 1992-93:</i> 92: RHS 39B / RHS 44D (deep yellowish Pink) 93: RHS 44D / RHS 39B (deep yellowish Pink)	1-3 fls./bud Semidwarf [low], upright, branching well --- Early May
ARS 31(2): 118; IRR 1977 (in RH 1977: 112)				



Cultivar Name Reference Number Parentage  Published Source	Spring Leaf Shape & Size --- Follicaceous Calyx Length & Color	Corolla Size and Shape —Registration Diameter & Cone Height —Number of Lobes —Alternate Diameter, Cone Height, & Petal Length —Form	Corolla Color —As Registered —Measured 1992-93	Flowers/Bud Habit --- Flowering Period
'Eliza Scott' Ref. No.: T23-4 'Oakland' x 'Heiwa'  IRR 1984/85 (in RH 1985/86:99)	Elliptic 62mm:2-7/16" x 26mm:1" --- 5mm:3/16" strong Yellow Green (145A)	Diameter : 85mm:3-3/8" Cone height : 35mm:1-3/8" No. of lobes : (5-)6 Alt. diameter: 90mm:3-9/16" Alt. cone ht.: 40mm:1-9/16" Petal length : 56mm:2-3/16" Single, occasionally with slight petalody; broadly funnel-shaped; lobes [broad, overlapping; margins] frilled	<i>As registered:</i> RHS 61D (deep purplish Pink) to RHS 67D (strong purplish Pink); spotted RHS 61B (strong purplish Red) <i>Measured 1992-93:</i> 92: RHS 66C / RHS 61D (deep purplish Pink) 93: RHS 66C (deep purplish Pink) / RHS 57D (vivid purplish Red)	1 fl./bud [Medium height, mounding to somewhat upright, loose] --- End of May
'Eunice Updike' Ref. No.: U22-2 'Louise Gable' x 'Shinnyo-no-tsuki'  ARS 31(2):118; IRR 1977 (in RH 1977:112)	Elliptic 29mm:1-1/8" x 13mm:1/2" --- [4mm:3/16" strong Yellow Green]	Diameter : 57mm:2-1/4" Cone height : 25mm:1" No. of lobes : 6+6+ps Alt. diameter: 50mm:1-15/16" Alt. cone ht.: 25mm:1" Petal length : 36mm:1-7/16" [Irregular double]; hose-in-hose plus petaloid stamens; widely funnel-shaped; lobes wavy	<i>As registered:</i> RHS 43C (deep yellowish Pink) <i>Measured 1992-93:</i> 92: RHS 47D (deep pink) / RHS 47C (deep yellowish Pink) 93: RHS 44D / RHS 44D (deep yellowish Pink)	1-3 fls./bud Dwarf [low], rounded, branching well (dense) --- Late May
'George Harding' Ref. No.: T38-5 'Louise Gable' x 'Shinnyo-no-hikare'  IRR 1984/85 (in RH 1985/86:100)	Elliptic 62mm:2-7/16" x 32mm:1-1/4" --- 6mm:1/4" strong Yellow Green (143C)	Diameter : 82mm:3-1/4" Cone height : 35mm:1-3/8" No. of lobes : 5 Alt. diameter: 85mm:3-3/8" Alt. cone ht.: 30mm:1-3/16" Petal length : 52mm:2-1/16" Single; broadly funnel-shaped; lobes [broad, overlapping; margins] frilled	<i>As registered:</i> RHS 47C (deep yellowish Pink), often somewhat deeper and redder with prominent White throat; spotted RHS 59B (deep purplish Red) <i>Measured 1992-93:</i> 92: RHS 48A / RHS 50B (deep Pink) 93: RHS 48A / RHS 50B (deep Pink)	(2-)3 fls./bud [Medium height, somewhat upright, dense] --- Late May
'Glamora' Ref. No.: V21-1 ( 'Louise Gable' x 'Tama-giku' ) x 'Wako'  ARS 32(1):46-7; IRR 1977 (in RH 1977:114)	Elliptic 25mm:1" x 16mm:5/8" --- 3mm:1/8" light green	Diameter : 76mm:3" Cone height : [32mm:1-1/4"] No. of lobes : 5 Alt. diameter: 65mm:2-9/16" Alt. cone ht.: 35mm:1-3/8" Petal length : 48mm:1-7/8" [Semidouble to double]; openly funnel- shaped; few stamens, some slightly petaloid; flat faced; lobes wavy	<i>As registered:</i> RHS 62D (pale purplish Pink); dorsal lobes spotted faint yellow green <i>Measured 1992-93:</i> 92: RHS 65D (pale purplish Pink) / RHS 75D (very pale Purple) 93: RHS 56A (pale purplish Pink) / RHS 73D (very pale Purple)	2-3 fls./bud Dwarf to semidwarf [low], broad, rounded, branching well (dense), with horizontal branches --- End of May
'Glencora' Ref. No.: V5-1 'Shinnyo-no-tsuki' x ('Louise Gable' x 'Tama-giku')  ARS 31(2):119; IRR 1977 (in RH 1977:114)	Narrowly elliptic 38mm:1-1/2" x 13mm:1/2" --- 3mm:1/8" light green	Diameter : 70mm:2-3/4" Cone height : 32mm:1-1/4" No. of lobes : 5+ps Alt. diameter: 65mm:2-9/16" Alt. cone ht.: 30mm:1-3/16" Petal length : 42mm:1-5/8" [Irregular double]; widely funnel-shaped; lobes wavy; many petaloid stamens	<i>As registered:</i> RHS 47C (deep yellowish Pink); dorsal lobes spotted faint RHS 43A (vivid reddish Orange) <i>Measured 1992-93:</i> 92: RHS 48A (deep Pink) / RHS 47C (deep yellowish Pink) 93: RHS 48A (deep Pink) / RHS 47C (deep yellowish Pink)	2-3 fls./bud Dwarf, broad, branching well with horizontal branches --- Early June
'Gresham' Ref. No.: T18-3 ( 'Treasure' x o.p. sdlg. from 'Mucronatum' ) x 'Getsu-toku'  IRR 1984/85 (in RH 1985/86:101)	Elliptic to broadly elliptic 43mm:1-11/16" x 23mm:7/8" --- 5mm:3/16" strong Yellow Green (144B)	Diameter : 84mm:3-5/16" Cone height : 35mm:1-3/8" No. of lobes : (5-)6 Alt. diameter: 84mm:3-5/16" Alt. cone ht.: 40mm:1-9/16" Petal length : 60mm:2-3/8" Single; broadly funnel-shaped; [lobes broad, overlapping; margins wavy]	<i>As registered:</i> Pale tints of RHS 48D (strong Pink) to RHS 55D (pale purplish Pink), or variably lightly striped, sectored, or selfed RHS 48C (strong Pink) to RHS 52C (deep Pink); very pale greenish Yellow throat; spotted RHS 174C (grayish reddish Orange), or RHS 61B (strong purplish Red) over markings <i>Measured 1992-93:</i> 92: RHS 38B (moderate yellowish Pink) / RHS 49B (moderate Pink) 93: RHS 51D / RHS 49B (moderate Pink)	1 fl./bud [Low, spreading to mounding, dense; may reach medium height in 20 years] --- Early June

Cultivar Name Reference Number Parentage	Spring Leaf Shape & Size --- Foliaceous Calyx Length & Color	Corolla Size and Shape —Registration Diameter & Cone Height —Number of Lobes —Alternate Diameter, Cone Height, & Petal Length —Form	Corolla Color —As Registered —Measured 1992-93	Flowers/Bud Habit --- Flowering Period
'Greta' Ref. No.: T13-8 ( 'Oakland' x (Indian hybrid "No. 1" x 'Carol')) x 'Getsu- toku'  ARS 32(1):47; IRR 1977 (in RH 1977:114)	Narrowly obovate to elliptic 25mm:1" x 13mm:1/2" --- [6]3mm:1/8" light green	Diameter : 76mm:3" Cone height : 32mm:1-1/4" No. of lobes : 5 Alt. diameter: 75mm:2-15/16" Alt. cone ht.: 35mm:1-3/8" Petal length : 58mm:2-5/16" [Single]; openly funnel-shaped; lobes wavy	<i>As registered:</i> RHS 58C (strong purplish Red); spotted dark red on 3 dorsal lobes <i>Measured 1992-93:</i> 92: RHS 58C (strong purplish Red) / RHS 55A (deep purplish Pink) 93: RHS 58C / RHS 58B (strong purplish Red)	1-2 fls./bud Dwarf [low], broad, branching well with horizontal branches --- Late May
'Gwenda' Ref. No.: T37-4 ( 'Louise Gable' x 'Tama-giku' x 'Eikan'  ARS 31(2):119; IRR 1977 (in RH 1977:114)	Broadly elliptic 25mm:1" x 16mm:5/8" --- [6]3mm:1/8" light green	Diameter : 76mm:3" Cone height : 51mm:2" No. of lobes : 5 Alt. diameter: 75mm:2-15/16" Alt. cone ht.: 38mm:1-1/2" Petal length : 59mm:2-5/16" [Single]; openly funnel-shaped; lobes wavy	<i>As registered:</i> RHS 56B (pale purplish Pink); blotch [spotting] faint RHS 56A (pale purplish Pink) <i>Measured 1992-93:</i> 92: RHS 51D / RHS 49B (moderate Pink) 93: RHS 51D / RHS 49B (moderate Pink)	1-3 fls./bud Dwarf to semidwarf [low], broad, branching well --- Early June
'Hilda Niblett' Ref. No.: T17-5 ( 'Glacier' x 'Tama- giku' x 'Getsu- toku'  IRR 1984/85 (in RH 1985/86:102)	Elliptic 40mm:1-9/16" x 19mm:3/4" --- 5mm:3/16" strong Yellow Green (144B)	Diameter : 85mm:3-3/8" Cone height : 36mm:1-7/16" No. of lobes : 5-6 Alt. diameter: 85mm:3-3/8" Alt. cone ht.: 35mm:1-3/8" Petal length : 58mm:2-5/16" Single; broadly funnel-shaped; lobes [broad, overlapping; margins] frilled	<i>As registered:</i> Pale tints of RHS 52D (strong Pink) to RHS 55D (pale purplish Pink), sometimes paler at margin; variously flecked, striped, or sectored RHS 50A (strong Red); occasionally selfed; throat greenish White; spotted RHS 185D (deep Pink), or RHS 59B (deep purplish Red) over markings <i>Measured 1992-93:</i> 92: axial—RHS 49B (moderate Pink) / RHS 38B (moderate yellowish Pink) 93: axial—RHS 51D/RHS 49B (moderate Pink)	1 fl./bud [Low, spreading, dense] --- Early June
'Jeanne Weeks' Ref. No.: U7-8 ( 'Louise Gable' x 'Tama-giku' x 'Kaigetsu' x 'Carol')  ARS 37(2):113; IRR 1983/84 (in RH 1984/85:86)	Elliptic to broadly elliptic or narrowly obovate 38mm:1-1/2" x 22mm:7/8" --- Absent	Diameter : 51mm:2" Cone height : 35mm:1-3/8" No. of lobes : 5+5+ps Alt. diameter: 51mm:2" Alt. cone ht.: 35mm:1-3/8" Petal length : 42mm:1-5/8" [Single to irregular double]; hose-in- hose; openly funnel-shaped; variable number of petaloid stamens; lobes wavy; opens like a rosebud	<i>As registered:</i> RHS 62A (strong purplish Pink) to RHS 65A (moderate purplish Pink); spotted on dorsal and slightly on adjacent lobes RHS 63B (strong purplish Red) <i>Measured 1992-93:</i> 92: RHS 54C (strong Pink) / RHS 63C (strong purplish Pink) 93: RHS 63C (strong purplish Pink) / RHS 54C (strong Pink)	1-2 fls./bud Dwarf [low], broad, branching well --- Mid May
'La Belle Helene' Ref. No.: V2-3 ( 'Glacier' x 'Lady Louise'  ARS 37(2):113; IRR 1983/84 (in RH 1984/85:86)	Elliptic 70mm:2-3/4" x 29mm:1-1/8" --- 5mm:3/16" light green	Diameter : 76mm:3" Cone height : 25mm:1" No. of lobes : 5 Alt. diameter: 65mm:2-9/16" Alt. cone ht.: 28mm:1-1/8" Petal length : 42mm:1-5/8" [Single]; flat, saucer shaped [very widely funnel-shaped]; lobes wavy	<i>As registered:</i> [Matte] White with broad RHS 63C (strong purplish Pink) irregular edging; very faint dorsal blotch [spotting] <i>Measured 1992-93:</i> 92: margin—RHS 64C (strong purplish Red) / RHS 57D (vivid purplish Red) 93: margin—RHS 64C (strong purplish Red) / RHS 67C (deep purplish Pink)	1-2 fls./bud Dwarf [low, very] broad, rounded, branching well --- Late May

Cultivar Name Reference Number Parentage Published Source	Spring Leaf Shape & Size --- Follicaceous Calyx Length & Color	Corolla Size and Shape —Registration Diameter & Cone Height —Number of Lobes —Alternate Diameter, Cone Height, & Petal Length —Form	Corolla Color —As Registered —Measured 1992-93	Flowers/Bud Habit --- Flowering Period
'Lady Louise' Ref. No.: J44-7 'Louise Gable' x 'Tama-giku' ARS 32(1):47; IRR 1977 (in RH 1977:116)	Elliptic 41mm:1-5/8" x 14mm:9/16" --- 3mm:1/8" light green [wrongly "gold" in ARS]	Diameter : 76mm:3" Cone height : 41mm:1-5/8" No. of lobes : 5+ps Alt. diameter: 65mm:2-9/16" Alt. cone ht.: 35mm:1-3/8" Petal length : 46mm:1-13/16" [Double, often irregular]; tubular [openly] funnel-shaped; lobes frilled; petaloid stamens boat-shaped	<i>As registered:</i> RHS 48C (strong Pink); faintly spotted RHS 51A (strong Red) <i>Measured 1992-93:</i> 92: RHS 48A / RHS 47D (deep Pink) 93: RHS 48A / RHS 47D (deep Pink)	1-3 fls./bud Dwarf [low], broad, branching well --- Late May
'Lady Robin' Ref. No.: T14-10 ( 'Glacier' x 'Tama- giku' ) x 'Getsu- toku' ARS 31(2):119; IRR 1977 (in RH 1977:116)	Elliptic to broadly elliptic 44mm:1-3/4" x 25mm:1" --- [10]6mm:1/4" light green	Diameter : 89mm:3-1/2" Cone height : 57mm:2-1/4" No. of lobes : 5 Alt. diameter: 92mm:3-5/8" Alt. cone ht.: 35mm:1-3/8" Petal length : 62mm:2-7/16" [Single]; openly funnel-shaped; lobe margins wavy	<i>As registered:</i> Variable: White, slightly tinted; or White, striped or sectored RHS 66B (vivid purplish Red); blotch [spotting] faint light brown [or deep purplish Red over colored ground] <i>Measured 1992-93:</i> 92: sector—RHS 64C (strong purplish Red) / RHS 72C (strong reddish Purple) 93: sector—RHS 64C (strong purplish Red) / RHS 74C (light reddish Purple)	1-3 fls./bud Dwarf to semidwarf [low], broad, branching well --- End of May
'Laura Morland' Ref. No.: U4-1 ( 'Louise Gable' x 'Tama-giku' ) x ( 'Kaigetsu' x 'Carol' ) ARS 31(2):119; IRR 1977 (in RH 1977:116)	Narrowly elliptic to elliptic 25mm:1" x 10mm:3/8" --- 3mm:1/8" light green	Diameter : 57mm:2-1/4" Cone height : 32mm:1-1/4" No. of lobes : 5+ps Alt. diameter: 64mm:2-1/2" Alt. cone ht.: 35mm:1-3/8" Petal length : 45mm:1-3/4" [Semidouble to double; hose-in-hose]; broadly funnel-shaped; varying number of partially petaloid stamens	<i>As registered:</i> RHS 49B (moderate Pink); striped and faintly blotched [spotted] RHS 49A (strong Pink); some sectoring of darker color <i>Measured 1992-93:</i> 92: RHS 48D / RHS 49A (strong Pink) 93: RHS 48D (strong Pink) / RHS 51D (moderate Pink)	1-6[3] fls./bud Dwarf [low], broad, rounded, branching well --- Late May
'Madame Mab Chalon' Ref. No.: T16-7 ( 'Glacier' x 'Tama- giku' ) x 'Getsu- toku' IRR 1984/85 (in RH 1985/86:104)	Elliptic to narrowly obovate 36mm:1-7/16" x 17mm:11/16" --- 6mm:1/4" strong Yellow Green (144B)	Diameter : 90mm:3-9/16" Cone height : 36mm:1-7/16" No. of lobes : 5-6 Alt. diameter: 90mm:3-9/16" Alt. cone ht.: 40mm:1-9/16" Petal length : 65mm:2-9/16" Single; broadly funnel-shaped; lobes [broad, overlapping; margins] frilled	<i>As registered:</i> Pale tints of 48D (strong Pink) to RHS 55D (pale purplish Pink); throat RHS 159D (pale yellowish Pink); some striping and sectoring RHS 48C to RHS 52D (strong Pink); spotted RHS 165C (moderate Orange Yellow), or RHS 61B (strong purplish Red) over marking <i>Measured 1992:</i> 92: margin—RHS 50D / RHS 49C (light Pink) sector—RHS 48B (deep Pink) / RHS 39B (deep yellowish Pink) 93: axial—RHS 50D / RHS 39D (light Pink)	1(-2) fls./bud [Low, mounding, dense] --- Early June
'Maria Derby' Ref. No.: H19-9 'Jimmy Coover' x 'Glamour' IRR 1984/85 (in RH 1985/86:104)	Narrowly elliptic to elliptic 48mm:1-7/8" x 18mm:11/16" --- 5mm:3/16" strong Yellow Green (144A)	Diameter : 55mm:2-3/16" Cone height : 30mm:1-3/16" No. of lobes : 5 Alt. diameter: 52mm:2-1/16" Alt. cone ht.: 32mm:1-1/4" Petal length : 41mm:1-5/8" [Irregular] double; hose-in-hose appear- ance; openly funnel-shaped	<i>As registered:</i> RHS 43C (deep yellowish Pink) to RHS 44C (vivid reddish Orange); throat slightly paler; prominently spotted RHS 184A (grayish Red) to RHS 53A (deep Red) <i>Measured 1992-93:</i> 92: RHS 42B (strong reddish Orange) / RHS 39A (strong Red) 93: RHS 42B (strong reddish Orange) / RHS 39A (strong Red)	(1-)2 fls./bud Medium height, [mounding to somewhat upright, dense] --- Mid May

Cultivar Name Reference Number Parentage  Published Source	Spring Leaf Shape & Size --- Foliaceous Calyx Length & Color	Corolla Size and Shape —Registration Diameter & Cone Height —Number of Lobes —Alternate Diameter, Cone Height, & Petal Length —Form	Corolla Color —As Registered —Measured 1992-93	Flowers/Bud Habit --- Flowering Period
'Maxine West' Ref. No.: U8-10 ( 'Louise Gable' x 'Tama-giku' ) x 'Kaigetsu' x 'Carol'  IRR 1984/85 (in RH 1985/86:104-5)	Elliptic 34mm:1-5/16" x 17mm:11/16" --- [Absent]	Diameter : 64mm:2-1/2" Cone height : 32mm:1-1/4" No. of lobes : 5 Alt. diameter: 62mm:2-7/16" Alt. cone ht.: 35mm:1-3/8" Petal length : 44mm:1-3/4" Irregular double; hose-in-hose; openly funnel-shaped	<i>As registered:</i> Pale frts of RHS 65D (pale purplish Pink) to RHS 69A-73D (very pale Purple); slight striping RHS 66C (deep purplish Pink); throat RHS 154D (light Yellow Green); spotted RHS 185D (deep Pink) <i>Measured 1992-93:</i> 92: RHS 186D (moderate purplish Pink) / RHS 65B (light purplish Pink) 93: RHS 56A (pale purplish Pink) / RHS 65C (pale purplish Pink)	2 fls./bud [Low, spreading to mounding, dense] --- Late May
'Mrs. Emil Hager' Ref. No.: U14-5 ( 'Louise Gable' x 'Tama-giku' ) x 'Shinryo-no-tsuki'  ARS 31(2):120; IRR 1977 (in RH 1977:119)	Elliptic to narrowly obovate 29mm:1-1/8" x 16mm:5/8" --- [4mm:3/16" (strong Yellow Green)]	Diameter : 70mm:2-3/4" Cone height : 38mm:1-1/2" No. of lobes: 5+5+ps Alt. diameter: 68mm:2-11/16" Alt. cone ht.: 35mm:1-3/8" Petal length : 46mm:1-13/16" [Double, often irregular]; hose-in-hose; widely funnel-shaped; lobes evenly rounded; petaloid stamens forming pompon]	<i>As registered:</i> RHS 68A (deep purplish Pink); spotted faint red <i>Measured 1992-93:</i> 92: RHS 64C / RHS 63B (strong purplish Red) 93: RHS 66C / RHS 64D (deep purplish Pink)	1-3 fls./bud Dwarf [low], rounded, branching well --- Late May
'Mrs. Villars' Ref. No.: T23-10 'Oakland' x 'Heiwa'  IRR 1984/85 (in RH 1985/86:105)	Elliptic to narrowly obovate 44mm:1-3/4" x 20mm:13/16" --- 6mm:1/4" strong Yellow Green (144B)	Diameter : 95mm:3-3/4" Cone height : 45mm:1-3/4" No. of lobes : (5-)6 Alt. diameter: 85mm:3-3/8" Alt. cone ht.: 37mm:1-7/16" Petal length : 56mm:2-3/16" Single; broadly funnel-shaped; lobes [broad, overlapping; margins] frilled	<i>As registered:</i> White, or sometimes tinted or marked with RHS 43C-44D (deep yellowish Pink) to RHS 43D (strong yellowish Pink); occasionally almost selfed; throat yellowish White; spotted RHS 182B (grayish Red), or RHS 61B (strong purplish Red) over strong color <i>Measured 1992-93:</i> 92: self—RHS 44D / RHS 43C (deep yellowish Pink) 93: self—RHS 39B (deep yellowish Pink) / RHS 42D (moderate reddish Orange)	1-2 fls./bud [Low to medium height, mounding, fairly dense] --- End of May
'Nancy of Robinhill' Ref. No.: O46-3 'Vervaeanum' x ( 'Louise Gable' x 'Tama-giku' ) ARS 31(2):120; IRR 1977 (in RH 1977:119)	Broadly elliptic 35mm:1-3/8" x 22mm:7/8" --- [3mm:1/8" strong Yellow Green]	Diameter : 89mm:3-1/2" Cone height : 38mm:1-1/2" No. of lobes : 5+5+ps Alt. diameter: 76mm:3" Alt. cone ht.: 35mm:1-3/8" Petal length : 52mm:2-1/16" [Double, occasionally semidouble]; hose- in-hose; widely funnel-shaped; lobes overlapping, wavy	<i>As registered:</i> RHS 62C (light purplish Pink); small, inconspicuous red blotch and peripheral spotting on dorsal lobes of some flowers <i>Measured 1992-93:</i> 92: RHS 55C / RHS 63D (light purplish Pink) 93: RHS 54D (moderate purplish Pink) / RHS 55C (light purplish Pink)	2-3 fls./bud Semi-dwarf [low], broad, branching well (dense) --- Mid May
'Nigel' Ref. No.: N33-2 (Indian hybrid "No. 1" x 'La Lumiere') x sibling of seed parent  IRR 1984/85 (in RH 1985/86:105)	Elliptic 40mm:1-9/16" x 18mm:11/16 " --- 5mm:3/16" strong Yellow Green (144B)	Diameter : 60mm:2-3/8" Cone height : 28mm:1-1/8" No. of lobes : 5 Alt. diameter: 60mm:2-3/8" Alt. cone ht.: 29mm:1-1/8" Petal length : 40mm:1-9/16" Single; broadly funnel-shaped; [lobes moderately broad, slightly overlapping]	<i>As registered:</i> RHS 43C (deep yellowish Pink) to RHS 44A (vivid Red); spotted RHS 46A (strong Red) to RHS 53A (deep Red) <i>Measured 1992-93:</i> 92: RHS 34A / RHS 42A (vivid reddish Orange) <i>Measurements 3 days later:</i> RHS 42A (vivid reddish Orange) / RHS 44A (vivid Red) 93: RHS 45C (vivid Red) / RHS 42A (vivid reddish Orange)	(2-)3 fls./bud Low, [spreading to mounding, dense] --- Early May

Cultivar Name Reference Number Parentage Published Source	Spring Leaf Shape & Size --- Follicaceous Calyx Length & Color	Corolla Size and Shape —Registration Diameter & Cone Height —Number of Lobes —Alternate Diameter, Cone Height, & Petal Length —Form	Corolla Color —As Registered —Measured 1992-93	Flowers/Bud Habit --- Flowering Period
'Olga Niblett' Ref. No.: T50-8 'Oakland' x 'Kaigetsu' x 'Carol') IRR 1984/85 (in RH 1985/86:105-6)	Elliptic to broadly elliptic 38mm:1-1/2" x 22mm:7/8" --- Absent	Diameter : 60mm:2-3/8" Cone height : 35mm:1-3/8" No. of lobes : 5 Alt. diameter: 60mm:2-3/8" Alt. cone ht.: 35mm:1-3/8" Petal length : 44mm:1-3/4" [Single;] hose-in-hose; openly funnel- shaped; [lobes moderately broad, slightly overlapping]	<i>As registered:</i> White, overlaid with faint greenish Yellow haze at first; spotted RHS 149C (brilliant Yellow Green) <i>Measured 1992-93:</i> 92: RHS 157A (pale yellowish Green) / RHS 145D (light yellowish Green) 93: RHS 157A / RHS 157B (pale yellowish Green)	2 fls./bud [Medium height, somewhat upright, loose] --- Mid May
'Ormsby' Ref. No.: T45-3 'Louise Gable' x 'Yozakura' [Sat- suki] IRR 1984/85 (in RH 1985/86:106)	Narrowly elliptic to elliptic 50mm:1-15/16" x 19mm:3/4" --- 3mm:1/8" strong Yellow Green (144B)	Diameter : 63mm:2-1/2" Cone height : 30mm:1-3/16" No. of lobes : 5 Alt. diameter: 66mm:2-5/8" Alt. cone ht.: 30mm:1-3/16" Petal length : 43mm:1-11/16" Double (sometimes irregular); broadly funnel-shaped	<i>As registered:</i> RHS 43C (deep yellowish Pink) to RHS 48C (strong Pink) overlaid with deep yellowish Pink; spotted RHS 61B (strong purplish Red) <i>Measured 1992-93:</i> 92: RHS 48B / RHS 47B (deep Pink) 93: RHS 47C / RHS 44D (deep yellowish Pink)	2 fls./bud [Medium height, mounding to somewhat upright, dense] --- Late May
'Papineau' Ref. No.: R8-5 'Glacier' x 'Swansong' ARS 31(2):120-1; IRR 1977 (in RH 1977:119)	Elliptic 73mm:2-7/8" x 38mm:1-1/2" --- 10mm:3/8" light green	Diameter : 89mm:3-1/2" Cone height : 29mm:1-1/8" No. of lobes : 5 Alt. diameter: 95mm:3-3/4" Alt. cone ht.: 40mm:1-9/16" Petal length : 62mm:2-7/16" [Single;] widely funnel-shaped; lobes wavy	<i>As registered:</i> White; throat pale green; [spotted RHS 145A (strong Yellow Green)] <i>Measured 1992-93:</i> 92: RHS 155C (greenish White) / RHS 155D (yellowish White) 93: RHS 157B / RHS 157A (pale yellowish Green)	2-3 fls./bud [Medium height], upright, branching well --- Mid May
'Pat Erb' Ref. No.: T36-3 'Louise Gable' x 'Tama-giku' x 'Tama-sugata' IRR 1991/92	Elliptic 30mm:1-3/16" x 14mm:9/16" --- 3mm:1/8" strong Yellow Green (145A)	Diameter : 58mm:2-5/16" Cone height : 30mm:1-3/16" No. of lobes : 5+5+ps Alt. diameter: 50mm:1-15/16" Alt. cone ht.: 30mm:1-3/16" Petal length : 42mm:1-5/8" Irregular double; hose-in-hose; openly funnel-shaped; corolla lobes wavy- edged	<i>As registered:</i> White flushed with RHS 49C (light Pink); occasional flecks, stripes, or sectors RHS 52C (deep Pink) <i>Measured 1992-93:</i> 92: RHS 50D (light Pink) / RHS 37D (light yellowish Pink) 93: RHS 50D / RHS 49C (light Pink)	(1-)2 fls./bud Dwarf, spreading, dense --- End of May, early June
'Peg Hugger' Ref. No.: U1-8 'Louise Gable' x 'Tama-giku' x 'Kaigetsu' x 'Carol') IRR 1984/85 (in RH 1985/86:106)	Elliptic 45mm:1-3/4" x 21mm:13/16" --- 2mm:1/16" strong Yellow Green (143C)	Diameter : 64mm:2-1/2" Cone height : 32mm:1-1/4" No. of lobes : 5 Alt. diameter: 64mm:2-1/2" Alt. cone ht.: 32mm:1-1/4" Petal length : 37mm:1-7/16" Irregular double; broadly funnel-shaped	<i>As registered:</i> RHS 49A-52D (strong Pink); occasional flecks and striping RHS 47C (deep yellowish Pink); throat RHS 157C (pale Yellow Green); spotted RHS 54A (strong purplish Red) <i>Measured 1992-93:</i> 92: RHS 48D (strong Pink) / RHS 55C (light purplish Pink) 93: RHS 49A / RHS 50C (strong Pink)	2-3 fls./bud [Low to medium height, mounding to somewhat upright] --- Mid/late May
'Peter Pooker' Ref. No.: U15-1 'Louise Gable' x 'Tama-giku' x 'Shinnyo-no-tsuki' IRR 1984/85 (in RH 1985/86:106)	Elliptic 42mm:1-5/8" x 20mm:13/16" --- 4mm:3/16" light Yellow Green (145B)	Diameter : 85mm:3-3/8" Cone height : 40mm:1-9/16" No. of lobes : 5 Alt. diameter: 75mm:2-15/16" Alt. cone ht.: 35mm:1-3/8" Petal length : 53mm:2-1/16" Single; broadly funnel-shaped; lobes [broad, overlapping; margins] frilled	<i>As registered:</i> RHS 69A (very pale Purple) to White tinted RHS 73C (light purplish Pink); throat slightly greenish White; spotted RHS 62B (moderate purplish Pink) <i>Measured 1992-93:</i> 92: RHS 65B (light purplish Pink) / RHS 75C (very light Purple) 93: RHS 70D (moderate purplish Pink) / RHS 62C (light purplish Pink)	1 fl./bud [Low, spreading, dense] --- Late May

Cultivar Name Reference Number Parentage  Published Source	Spring Leaf Shape & Size --- Follicaceous Calyx Length & Color	Corolla Size and Shape —Registration Diameter & Cone Height —Number of Lobes —Alternate Diameter, Cone Height, & Petal Length —Form	Corolla Color —As Registered —Measured 1992-93	Flowers/Bud Habit --- Flowering Period
'Pucken' Ref. No.: T62-6 Indian hybrid "No. 2" x 'Carol'  IRR 1984/85 (in RH 1985/86:107)	Elliptic 54mm:2-1/8" x 27mm:1-1/16" --- [Absent]	Diameter : 64mm:2-1/2" Cone height : 28mm:1-1/8" No. of lobes : 5 Alt. diameter: 62mm:2-7/16" Alt. cone ht.: 32mm:1-1/4" Petal length : 42mm:1-5/8" Single to slightly semidouble; hose-in- hose; broadly funnel-shaped; lobes [broad, overlapped; margins] very frilled	<i>As registered:</i> RHS 58B (strong purplish Red) to RHS 61C (vivid purplish Red); spotted RHS 53A (deep Red) <i>Measured 1992-93:</i> 92: RHS 61C / RHS 57B (vivid purplish Red) 93: RHS 57B (vivid purplish Red) / RHS 58B (strong purplish Red)	2(-3) fls./bud [Low, mounding, somewhat loose] --- Mid May
'Red Tip' Ref. No.: W20-10 (parentage unknown)  IRR 1984/85 (in RH 1985/86:107)	Elliptic 66mm:2-5/8" x 30mm:1-3/16" --- 7mm:1/4" light Yellow Green (145B)	Diameter : 72mm:2-13/16" Cone height : 37mm:1-7/16" No. of lobes : 5 Alt. diameter: 84mm:3-5/16" Alt. cone ht.: 40mm:1-9/16" Petal length : 62mm:2-7/16" Single (occasionally with small petalodes); openly funnel-shaped; [lobes moderately broad, slightly overlapping]	<i>As registered:</i> White margined with RHS 55A (deep purplish Pink) to RHS 58C (strong purplish Red); color often concentrated at petal tips in mature specimens; spotted RHS 54B (deep purplish Pink) to RHS 179C (moderate reddish Orange) <i>Measured 1992-93:</i> 92: RHS 51A (strong Red) / RHS 58B (strong purplish Red) 93: RHS 54A (strong purplish Red) / RHS 54B (deep purplish Pink)	2 fls./bud [Medium height, upright, open] --- Late May
'Redmond' Ref. No.: T21-1 ( 'Louise Gable' x 'Tama-giku' ) x 'Heiwa'  ARS 31(2):121; IRR 1977 (in RH 1977:121)	Elliptic to broadly elliptic  29mm:1-1/8" x 16mm:5/8" --- [5]10mm:3/8" light green	Diameter : 76mm:3" Cone height : 32mm:1-1/4" No. of lobes : 5 Alt. diameter: 85mm:3-3/8" Alt. cone ht.: 32mm:1-1/4" Petal length : 58mm:2-5/16" [Single]; tubular [widely] funnel-shaped; flat faced; lobes overlapping, evenly rounded	<i>As registered:</i> RHS 39B (deep yellowish Pink); dorsal lobes spotted RHS 47B (strong Red) <i>Measured 1992-93:</i> 92: RHS 44D / RHS 39B (deep yellowish Pink) 93: RHS 44D (deep yellowish Pink) / RHS 39A (strong Red)	1-3 fls./bud Dwarf to semidwarf [low], broad, rounded, branching well --- Early June
'Richie' Ref. No.: V3-6 'Shinryo-no-Tsuki' x ('Louise Gable' x 'Tama-giku')  IRR 1991/92	Elliptic to slightly obovate 38mm:1-1/2" x 19mm:3/4" --- 5mm:3/16" strong Yellow Green (144A/B)	Diameter : 65mm:2-9/16" Cone height : 30mm:1-3/16" No. of lobes : 5 Alt. diameter: 50mm:1-15/16" Alt. cone ht.: 25mm:1" Petal length : 39mm:1-9/16" Single; broadly funnel-shaped	<i>As registered:</i> RHS 47C (deep yellowish Pink), with haze of vivid reddish Orange <i>Measured 1992-93:</i> 92: RHS 50A / RHS 39A (strong Red) 93: RHS 50A (strong Red) / RHS 45C (vivid Red)	2 fls./bud [Medium height, somewhat upright] --- Mid May
'Robin Dale' Ref. No.: T24-8 'Oakland' x 'Heiwa'  IRR 1991/92	Elliptic 40mm:1-9/16" x 20mm:13/16" --- 6mm:1/4" strong Yellow Green (143C)	Diameter : 82mm:3-1/4" Cone height : 33mm:1-5/16" No. of lobes : 5(-6) Alt. diameter: 85mm:3-3/8" Alt. cone ht.: 40mm:1-9/16" Petal length : 56mm:2-3/16" Single, or occasionally with some petalodes; [broadly] funnel-shaped; lobes [broad,] overlapping, wavy-edged	<i>As registered:</i> White (sometimes with pale greenish Yellow cast); some with flecks, stripes, and sectors RHS 68C-D (moderate to light purplish Pink) or self-colored RHS 63C (strong purplish Pink); throat pale greenish White; spotted RHS 145B (light Yellow Green) on White or RHS 61A (deep purplish Red) on Pink ground <i>Measured 1992-93:</i> 92: self—RHS 58B / RHS 58C (strong purplish Red) 93: self—RHS 54B (deep purplish Pink) / RHS 54A (strong purplish Red)	1 fl./bud [Medium height, mounding to somewhat upright] --- Mid May

Cultivar Name Reference Number Parentage  Published Source	Spring Leaf Shape & Size --- Foliaceous Calyx Length & Color	Corolla Size and Shape —Registration Diameter & Cone Height —Number of Lobes —Alternate Diameter, Cone Height, & Petal Length —Form	Corolla Color —As Registered —Measured 1992-93	Flowers/Bud Habit --- Flowering Period
'Robin Hill Congo' Ref. No.: E2-2 (parentage unknown)  IRR 1984/85 (in RH 1985/86:107)	Narrowly elliptic 60mm:2-3/8" x 22mm:7/8" --- 10mm:3/8" light Yellow Green (145B)	Diameter : 72mm:2-13/16" Cone height : 32mm:1-1/4" No. of lobes : 5 Alt. diameter: 75mm:2-15/16" Alt. cone ht.: 33mm:1-5/16" Petal length : 54mm:2-1/8" Single; broadly funnel-shaped	<i>As registered:</i> RHS 74B (vivid reddish Purple) to RHS 78B (strong reddish Purple); prominently spotted RHS 187A (dark Red) to RHS 61A (deep purplish Red) <i>Measured 1992-93:</i> 92: RHS 80A (vivid Purple) / RHS 72B (strong reddish Purple) 93: RHS 72B (strong reddish Purple) / RHS 80A (vivid Purple)	2(-3) fls./bud [Low, widely spreading, dense] --- Early May
'Robin Hill Elsa' Ref. No.: T20-7 (('Treasure' x 'Mavis') x 'Getsu-toku')  IRR 1984/85 (in RH 1985/86:107)	Elliptic 44mm:1-3/4" x 22mm:7/8" --- 7mm:1/4" strong Yellow Green (144B)	Diameter : 90mm:3-9/16" Cone height : 45mm:1-3/4" No. of lobes : 5(-6) Alt. diameter: 90mm:3-9/16" Alt. cone ht.: 40mm:1-9/16" Petal length : 65mm:2-9/16" Single; openly funnel-shaped; [lobes broad, overlapping, margins wavy]	<i>As registered:</i> RHS 73B (strong purplish Pink) to RHS 65B- 73C (light purplish Pink), often margined White, or nearly White with flush of color spreading from axis of each lobe; spotted RHS 174C (grayish reddish Orange), or RHS 57A (vivid Red) over strong color <i>Measured 1992-93:</i> 92: RHS 74D (light reddish Purple) / RHS 64D (deep purplish Pink) 93: RHS 74D (light reddish Purple) / RHS 64D (deep purplish Pink)	1(-2) fls./bud [Low to medium height, spreading but with some upright growth] --- Late May
'Robin Hill Erik' Ref. No.: P5-2 Indian hybrid "No. 1" x 'Margie'  IRR 1991/92	Elliptic 49mm:1-15/16" x 23mm:7/8" --- Absent	Diameter : 58mm:2-5/16" Cone height : 35mm:1-3/8" No. of lobes : 5+5 Alt. diameter: 50mm:1-15/16" Alt. cone ht.: 30mm:1-3/16" Petal length : 40mm:1-9/16" Single, hose-in-hose, funnel-shaped	<i>As registered:</i> RHS 43C-47C (deep yellowish Pink); spotting darker <i>Measured 1992-93:</i> 92: RHS 47C (deep yellowish Pink) / RHS 50B (deep Pink) 93: RHS 48A (deep Pink) / RHS 39B (deep yellowish Pink)	3 fls./bud [Medium height, somewhat upright, open] --- Early/mid May
'Robin Hill Frosty' Ref. No.: N31-9 (('Oakland' x (Indian hybrid "No. 1" x 'Carol')) x ('Louise Gable' x 'Tama- giku'))  ARS 32(1):48; IRR 1977 (in RH 1977:121)	Narrowly elliptic 29mm:1-1/8" x 10mm:3/8" --- [4]6mm:1/4" light green	Diameter : 70mm:2-3/4" Cone height : 25mm:1" No. of lobes : 5 Alt. diameter: 72mm:2-13/16" Alt. cone ht.: 32mm:1-1/4" Petal length : 51mm:2" [Single]; tubular [openly] funnel-shaped; lobes wavy	<i>As registered:</i> RHS 62A (strong purplish Pink); lighter edging RHS 62D (pale purplish Pink); conspicuous blotch [spotting] RHS 55A (deep purplish Pink) <i>Measured 1992-93:</i> 92: RHS 54B (deep purplish Pink) / RHS 66D (moderate purplish Pink) 93: RHS 66D (moderate purplish Pink) / RHS 64D (deep purplish Pink)	2-3 fls./bud Dwarf to semidwarf [low], upright, branching well --- Mid May
'Robin Hill Gillie' Ref. No.: T13-6 (('Oakland' x (Indian hybrid "No. 1" x 'Carol')) x 'Getsu- toku')  ARS 31(2):121; IRR 1977 (in RH 1977:121)	Elliptic 44mm:1-3/4" x 19mm:3/4" --- [8]6mm:1/4" pale green	Diameter : 89mm:3-1/2" Cone height : 44mm:1-3/4" No. of lobes : 6 Alt. diameter: 94mm:3-11/16" Alt. cone ht.: 45mm:1-3/4" Petal length : 70mm:2-3/4" [Single]; openly funnel-shaped; lobes very broad, margins wavy	<i>As registered:</i> RHS 42C (strong reddish Orange); dorsal lobes spotted dark Red <i>Measured 1992-93:</i> 92: RHS 44D / RHS 39B (deep yellowish Pink) 93: RHS 39B / RHS 44D (deep yellowish Pink)	1-3 fls./bud Dwarf [low], broad, rounded, branching well --- Mid May

Cultivar Name Reference Number Parentage  Published Source	Spring Leaf Shape & Size --- Follicaceous Calyx Length & Color	Corolla Size and Shape —Registration Diameter & Cone Height —Number of Lobes —Alternate Diameter, Cone Height, & Petal Length —Form	Corolla Color —As Registered ---Measured 1992-93	Flowers/Bud Habit --- Flowering Period
'Robin Hill Palmyra' Ref. No.: T49-3 'Oakland' x ('Louise Gable' x 'Tama- giku')  IRR 1984/85 (in RH 1985/86:107)	Elliptic 46mm:1-13/16* x 24mm:15/16* --- 4mm:3/16" light Yellow Green (145B)	Diameter : 70mm:2-3/4* Cone height : 32mm:1-1/4* No. of lobes : 5 Alt. diameter: 68mm:2-11/16* Alt. cone ht.: 32mm:1-1/4* Petal length : 44mm:1-3/4* Semidouble [to double]; broadly funnel- shaped	<i>As registered:</i> RHS 67C (deep purplish Pink) to RHS 62A- 67D (strong purplish Pink); spotted RHS 61B (strong purplish Red) <i>Measured 1992-93:</i> 92: RHS 66C (deep purplish Pink) / RHS 57D (vivid purplish Red) 93: RHS 66C (deep purplish Pink) / RHS 57D (vivid purplish Red)	(2-)3 fls./bud [Medium height, somewhat upright, loose] --- Mid May
'Robin Hill Rosanne' Ref. No.: V1-7 'Glacier' x ('Louise Gable' x 'Tama- giku')  IRR 1984/85 (in RH 1985/86:107)	Broadly elliptic 40mm:1-9/16* x 24mm:15/16* --- 3mm:1/8" light Yellow Green (145B)	Diameter : 68mm:2-11/16* Cone height : 27mm:1-1/16* No. of lobes : 5 Alt. diameter: 70mm:2-3/4* Alt. cone ht.: 25mm:1* Petal length : 45mm:1-3/4* Single (sometimes with small petalodes); openly funnel-shaped; [lobes moderately broad, slightly overlapping]	<i>As registered:</i> White, margined RHS 58C (strong purplish Red) to RHS 61D (deep purplish Pink), or occasionally nearly selfed; spotting faint <i>Measured 1992-93:</i> 92: RHS 65B / RHS 62C (light purplish Pink) 93: RHS 63D / RHS 68D (light purplish Pink)	(1-)2 fls./bud Low to medium height, [mounding, fairly dense] --- Late May
'Robin Hill Wendy' Ref. No.: T21-3 ('Louise Gable' x 'Tama-giku') x 'Heiwa'  IRR 1984/85 (in RH 1985/86:107)	Elliptic 46mm:1-13/16* x 21mm:13/16* --- 5mm:3/16" strong Yellow Green (144B)	Diameter : 90mm:3-9/16* Cone height : 48mm:1-7/8* No. of lobes : 5 Alt. diameter: 78mm:3-1/16* Alt. cone ht.: 35mm:1-3/8* Petal length : 58mm:2-5/16* Single; openly funnel-shaped; lobes [broad, overlapping; margins] frilled	<i>As registered:</i> Light tints of 52D (strong Pink); throat slightly greenish White; variously flecked, striped, or sectored RHS 52C (deep Pink); spotted RHS 174D (grayish reddish Orange), or RHS 57C (vivid purplish Red) over strong color <i>Measured 1992-93:</i> 92: RHS 50D / RHS 39D (light purplish Pink) sector—RHS 48B / RHS 47D (deep Pink) 93: RHS 50D / RHS 39D (light Pink)	1 fl./bud [Low, mounding, dense] --- Early June
'Roddy' Ref. No.: T18-1 ('Treasure' x o.p. sdlg. from 'Mucronatum') x 'Getsu-toku'  IRR 1984/85 (in RH 1985/86:108)	Elliptic 64mm:2-1/2* x 32mm:1-1/4* --- 9mm:3/8" light Yellow Green (145B)	Diameter : 96mm:3-3/4* Cone height : 40mm:1-9/16* No. of lobes : 5 Alt. diameter: 90mm:3-9/16* Alt. cone ht.: 40mm:1-9/16* Petal length : 65mm:2-9/16* Single; broadly funnel-shaped; lobes [broad, slightly overlapping, margins] frilled	<i>As registered:</i> White; spotted RHS 151B (strong greenish Yellow) <i>Measured 1992-93:</i> 92: RHS 156D (yellowish White) / RHS 155C (greenish White)	1 fl./bud [Low to medium height, mounding to somewhat upright, fairly dense] --- Late May
'Sara Holden' Ref. No.: T22-5 'Oakland' x 'Heiwa'  IRR 1984/85 (in RH 1985/86:109)	Narrowly elliptic to oblanceolate 45mm:1-3/4* x 15mm:9/16* --- 6mm:1/4" strong Yellow Green (144A)	Diameter : 92mm:3-5/8* Cone height : 38mm:1-1/2* No. of lobes : (5-)6 Alt. diameter: 100mm:3-15/16* Alt. cone ht.: 35mm:1-3/8* Petal length : 63mm:2-1/2* Single; broadly funnel-shaped; lobes [broad, overlapping, margins] frilled	<i>As registered:</i> White, variously flecked, striped, sectored, or with flush of RHS 49C (light Pink) to RHS 48D-52D (strong Pink) spreading from axis of each lobe; occasionally margined or selfed RHS 50A (strong Red) to RHS 50B (deep Pink); throat RHS 154D (light Yellow Green); spotted RHS 154C (brilliant Yellow Green) on White ground, or RHS 53A (deep Red) on Pink ground <i>Measured 1992-93:</i> 92: RHS 156D / RHS 196D (yellowish White) light sector—RHS 51D / RHS 49B (moderate Pink) self—RHS 47C / RHS 44D (deep yellowish Pink) 93: self—RHS 39B (deep yellowish Pink) / RHS 48B (deep Pink)	(1-)2 fls./bud [Low to medium height, spreading to mounding, somewhat loose] --- Late May



Cultivar Name Reference Number Parentage	Spring Leaf Shape & Size --- Foliaceous Calyx Length & Color	Corolla Size and Shape —Registration Diameter & Cone Height —Number of Lobes —Alternate Diameter, Cone Height, & Petal Length —Form	Corolla Color —As Registered —Measured 1992-93	Flowers/Bud Habit --- Flowering Period
Published Source				
'Scott Gartrell' Ref. No.: N31-1 ( 'Oakland' x (Indian hybrid "No.1" x 'Carol') x ('Louise Gable' x 'Tama- giku' )	Elliptic 54mm:2-1/8" x 24mm:15/16" --- 3mm:1/8" strong Yellow Green (144B)	Diameter : 68mm:2-11/16" Cone height : 42mm:1-5/8" No. of lobes : 5 Alt. diameter: 70mm:2-3/4" Alt. cone ht.: 40mm:1-9/16" Petal length : 52mm:2-1/16" Double (sometimes irregular); hose-in- hose; openly funnel-shaped; lobes [broad, overlapped; margins] very frilled	<i>As registered:</i> RHS 64D-66C (deep purplish Pink) to RHS 68B (strong purplish Pink); throat slightly greenish White; spotted RHS 60A (deep Red) <i>Measured 1992-93:</i> 92: RHS 66C (deep purplish Pink) / RHS 63B (strong purplish Red) 93: RHS 66C / RHS 64D (deep purplish Pink)	2 fls./bud [Medium height, somewhat upright, loose] --- Late May
IRR 1984/85 (in RH 1985/86:109)				
'Sherbrooke' Ref. No.: X55-9 ( 'Vervaeaneum' x ('Louise Gable' x 'Tama-giku') x (parentage unknown)	Elliptic 51mm:2" x 25mm:1" --- 10mm:3/8" moderate Yellow Green (139C)	Diameter : 44mm:1-3/4" * Cone height : 32mm:1-1/4" No. of lobes : 5+ps Alt. diameter: 85mm:3-3/8" Alt. cone ht.: 35mm:1-3/8" Petal length : 50mm:1-15/16" [Irregular double; sometimes appearing hose-in-hose]; openly funnel-shaped; lobes wavy; variable number of petaloid stamens (* 3" in RDG's notes)	<i>As registered:</i> RHS 78B (strong reddish Purple); prominently spotted RHS 74A (vivid reddish Purple) on dorsal and adjacent lobes <i>Measured 1992-93:</i> 92: RHS 80B / RHS 77B (strong Purple) 93: RHS 77B / RHS 80B (strong Purple)	2-3 fls./bud [Low], upright, branching well with stiff upright branches --- Mid May
ARS 37(2):114; IRR 1983/84 (in RH 1984/85:96)				
'Sir Robert' Ref. No.: T15-8 ( 'Glacier' x 'Tama- giku' ) x 'Getsu- toku'	Narrowly elliptic 64mm:2-1/2" x 19mm:3/4" --- [6(-7)mm:1/4"] 16mm:5/8" light green	Diameter : 89mm:3-1/2" Cone height : 51mm:2" No. of lobes : 5-6 Alt. diameter: 88mm:3-7/16" Alt. cone ht.: 30mm:1-3/16" Petal length : 60mm:2-3/8" [Single]; openly funnel-shaped; lobes very broad, wavy	<i>As registered:</i> [Tints of] RHS 55D (pale purplish Pink); throat lighter; unmarked [markings RHS 54B (deep purplish Pink); spotted RHS 56A (pale purplish Pink) or, over markings, RHS 61B (strong purplish Red)] <i>Measured 1992-93:</i> 92: axial—RHS 55C (light purplish Pink) / RHS 54D (moderate purplish Pink) 93: axial—RHS 55C (light purplish Pink) / RHS 48D (strong Pink)	2 fls./bud [Low], rounded, branching well with stiff upright branches --- Early June
ARS 37(2):114; IRR 1983/84 (in RH 1984/85:96)				
'Spink' Ref. No.: K34-3 (parentage unknown)	Elliptic 25mm:1" x 16mm:5/8" --- [Absent]	Diameter : 38mm:1-1/2" Cone height : [31mm:1-1/4"] No. of lobes : 5+5 Alt. diameter: 38mm:1-1/2" Alt. cone ht.: 30mm:1-3/16" Petal length : 35mm:1-3/8" [Single]; hose-in-hose; widely funnel- shaped; lobes evenly rounded	<i>As registered:</i> RHS 62A (strong purplish Pink) <i>Measured 1992-93:</i> 92: RHS66C (deep purplish Pink) / RHS 57D (vivid purplish Red) 93: RHS 66C / RHS 54B (deep purplish Pink)	2-3 fls./bud Dwarf [low], upright, branching well --- Beginning of May
ARS 32(1):49; IRR 1977 (in RH 1977:123)				
'Talbot' Ref. No.: T16-10 ( 'Glacier' x 'Tama- giku' ) x 'Getsu- toku'	Elliptic 36mm:1-7/16" x 18mm:11/16" --- 4mm:3/16" strong Yellow Green (144B)	Diameter : 75mm:2-15/16" Cone height : 40mm:1-9/16" No. of lobes : 5 Alt. diameter: 60mm:2-3/8" Alt. cone ht.: 30mm:1-3/16" Petal length : 42mm:1-5/8" Single; openly funnel-shaped	<i>As registered:</i> Light tints of RHS 49B (moderate Pink) to RHS 56A (pale purplish Pink), occasionally marginated White; throat greenish White; spotted RHS 53D (strong Red) <i>Measured 1992-93:</i> 92: RHS 50D (light Pink) / RHS 37D (light yellowish Pink)	1 fl./bud Low, [spreading to mounding, fairly dense] --- Early June
IRR 1984/85 (in RH 1985/86:110)				

Cultivar Name Reference Number Parentage Published Source	Spring Leaf Shape & Size Follicaceous Calyx Length & Color	Corolla Size and Shape —Registration Diameter & Cone Height —Number of Lobes —Alternate Diameter, Cone Height, & Petal Length —Form	Corolla Color —As Registered —Measured 1992-93	Flowers/Bud Habit — Flowering Period
'Tamino' Ref. No.: V1-8 'Kaigetsu' x ('Nancy of Robinhill' x "Ledifolium Roseum" [a form of 'Mucronatum']])  ARS 37(4):233; IRR 1983/84 (in RH 1984/85:98)	Elliptic 51mm:2" x 25mm:1" --- 6mm:1/4" strong Yellow Green (144B)	Diameter : 83mm:3-1/4" Cone height : 32mm:1-1/4" No. of lobes : 5 Alt. diameter: 72mm:2-13/16" Alt. cone ht.: 30mm:1-3/16" Petal length : 46mm:1-13/16" [Single]; openly funnel-shaped; lobes wavy	<i>As registered:</i> White suffused to RHS 63B (strong purplish Red) - RHS 63C (strong purplish Pink) at margins; spotted on dorsal (and somewhat on adjacent) lobes RHS 160B (light Yellow); [faint appearance of] silvery iridescence overall <i>Measured 1992-93:</i> 92: margin—RHS 57D (vivid purplish Red) / RHS 63B (strong purplish Red) 93: margin—RHS 61C / RHS 57C (vivid purplish Red)	2 fls./bud [Low], broad, creeping, branching well with decum- bent branches --- Late May
'Tan Dilly' Ref. No.: U2-9 'Lady Louise' x ( 'Kaigetsu' x 'Carol' )  ARS 37(4):233; IRR 1983/84 (in RH 1984/85:98)	Elliptic 32mm:1-1/4" x 16mm:5/8" --- [3]6mm:1/4" light green	Diameter : 64mm:2-1/2" Cone height : 44mm:1-3/4" No. of lobes : 5 Alt. diameter: 56mm:2-3/16" Alt. cone ht.: 25mm:1" Petal length : 43mm:1-11/16" [Single, sometimes with petaloid stamens]; openly funnel-shaped; lobes wavy	<i>As registered:</i> RHS 49C (light Pink), [often RHS 174D (grayish reddish Orange), i.e., "tan," at tips]; spotted, often faintly, on dorsal and adjacent lobes, RHS 54C (strong Pink) to RHS 181D (dark yellowish Pink) <i>Measured 1992-93:</i> 92: RHS 49A / RHS 50C (strong Pink) 93: RHS 50C / RHS 48C (strong Pink)	2 fls./bud Dwarf [low], broad, branching well with some stiff, upright branches --- Mid May
'Turk's Cap' Ref. No.: T60-6 (parentage unknown)  IRR 1991/92	Narrowly elliptic to elliptic 54mm:2-1/8" x 22mm:7/8" --- 5mm:3/16" (strong Yellow Green) (143B)	Diameter : 82mm:3-1/4" Cone height : 28mm:1-1/8" No. of lobes : 5 Alt. diameter: 85mm:3-3/8" Alt. cone ht.: 25mm:1" Petal length : 55mm:2-3/16" Single, broadly funnel-shaped; lobes not overlapping, tips often recurve	<i>As registered:</i> RHS 44C (vivid reddish Orange) to RHS 45D (strong Red) at margins; spotted RHS 185A (deep Red) <i>Measured 1992-93:</i> 92: RHS 42A (vivid reddish Orange) / RHS 45C (vivid Red) 93: RHS 42B (strong reddish Orange) / RHS 34A (vivid reddish Orange)	(1-)2 fls./bud [Medium height,] upright, loose --- Mid May
'Verena' Ref. No.: T49-4 'Oakland' x ('Louise Gable' x 'Tama- giku')  IRR 1984/85 (in RH 1985/86:110)	Elliptic 66mm:2-5/8" x 32mm:1-1/4" --- 6mm:1/4" strong Yellow Green (143B)	Diameter : 72mm:2-13/16" Cone height : 42mm:1-5/8" No. of lobes : 5-6 Alt. diameter: 75mm:2-15/16" Alt. cone ht.: 40mm:1-9/16" Petal length : 52mm:2-1/16" Single; openly funnel-shaped; lobes [broad, overlapping; margins] slightly frilled	<i>As registered:</i> RHS 68D-73C (light purplish Pink) to RHS 73D (very pale Purple); throat slightly greenish White; spotted RHS 64D (deep purplish Pink) <i>Measured 1992-93:</i> 92: RHS 65B / RHS 62C (light purplish Pink) 93: RHS 65B (light purplish Pink) / RHS 75C (very light Purple)	2(-3) fls./bud [Medium height, mounding to somewhat upright, loose] --- Late May
'Watchet' Ref. No.: T28-10 'Amagasa' x ( 'Louise Gable' x 'Tama-giku' )  ARS 31(2):121-2; IRR 1977 (in RH 1977:125)	Narrowly elliptic 38mm:1-1/2" x 13mm:1/2" --- [6mm:1/4"] 2mm:1/16" light green	Diameter : 89mm:3-1/2" Cone height : 25mm:1" No. of lobes : 5 Alt. diameter: 76mm:3" Alt. cone ht.: 44mm:1-3/4" Petal length : 58mm:2-5/16" [Single]; widely funnel-shaped; lobes wavy to slightly frilled	<i>As registered:</i> RHS 49B (moderate Pink); dorsal lobes faintly spotted RHS 49A (strong Pink) <i>Measured 1992-93:</i> 92: RHS 48D (strong Pink) / RHS 55C (light purplish Pink) 93: RHS 48D / RHS 49A (strong Pink)	1-3 fls./bud Dwarf [low], broad, branching well (dense) --- Late May
'Wee Willie' Ref. No.: V2-10 'Shinnyo-no-tsuki' x ('Louise Gable' x 'Tama-giku')  IRR 1991/92	Elliptic to narrowly obovate 26mm:1" x 12mm:1/2" --- 3mm:1/8" light Yellow Green (145C)	Diameter : [68mm:2-11/16"] Cone height : [27mm:1-1/16"] No. of lobes : 5 Alt. diameter: 54mm:2-1/8" Alt. cone ht.: 28mm:1-1/8" Petal length : 38mm:1-1/2" Single, broadly funnel-shaped, lobes broadly overlapping, wavy-edged	<i>As registered:</i> Light tint of RHS 52D (strong Pink) to RHS 54D (moderate purplish Pink), sometimes with very slight reddish Orange haze; throat slightly greenish White; spotted faint tint of RHS 55B (strong purplish Pink) <i>Measured 1992-93:</i> 92: RHS 54D (moderate purplish Pink) / RHS 51D (moderate Pink) 93: RHS 51D / RHS 49B (moderate Pink)	2 fls./bud Dwarf [low], mounding, dense --- Early June

Cultivar Name Reference Number Parentage	Spring Leaf Shape & Size --- Foliaceous Calyx Length & Color	Corolla Size and Shape —Registration Diameter & Cone Height —Number of Lobes —Alternate Diameter, Cone Height, & Petal Length —Form	Corolla Color —As Registered —Measured 1992-93	Flowers/Bud Habit --- Flowering Period
Published Source				
'Welmet' Ref. No.: T24-5 'Oakland' x 'Heiwa'  IRR 1984/85 (in RH 1985/86:111)	Narrowly elliptic to oblanceolate 51mm:2" x 17mm:11/16" --- 7mm:1/4" strong Yellow Green (143C)	Diameter : 92mm:3-5/8" Cone height : 40mm:1-9/16" No. of lobes : (5-)6 Alt. diameter: 86mm:3-3/8" Alt. cone ht.: 30mm:1-3/16" Petal length : 53mm:2-1/16" Single; broadly funnel-shaped; lobes [broadly overlapping; margins] slightly frilled	<i>As registered:</i> RHS 61D (deep purplish Pink) to RHS 62A (strong purplish Pink); throat slightly greenish White; spotted RHS 60A (deep Red) <i>Measured 1992-93:</i> 92: RHS 64D / RHS 66C (deep purplish Pink) 93: RHS 66C (deep purplish Pink / RHS 57D (vivid purplish Red)	2 fls./bud [Medium height, mounding to somewhat upright, loose] --- Late May/early June
'White Hart' Ref. No.: J12-1 ('Gumpo' x 'Glacier' x 'Snowclad'  IRR 1991/92	Broadly elliptic 30mm:1-3/16" x 20mm:13/16" --- 6(-7)mm:1/4" strong Yellow Green (143C-144B)	Diameter : [85mm:3-3/8"] Cone height : [28mm:1-1/8"] No. of lobes : 5 Alt. diameter: 85mm:3-3/8" Alt. cone ht.: 30mm:1-3/16" Petal length : 58mm:2-15/16" Single, broadly funnel-shaped; lobes broad, wavy-edged	<i>As registered:</i> White, occasionally with flecks of RHS 74D (moderate purplish Pink); throat tinted pale greenish Yellow; spotted distinct RHS 145B (light Yellow Green) to RHS 150C (brilliant Yellow Green) <i>Measured 1992-93:</i> 92: RHS 155C (greenish White) / RHS 155D (yellowish White) 93: RHS 155C / RHS 157D (greenish White)	2(-3) fls./bud [Medium height, mounding to somewhat upright, somewhat loose] --- Mid May
'White Moon' Ref. No.: T17-7 ('Glacier' x 'Tama- giku') x 'Getsu- toku'  ARS 31(2):122; IRR 1977 (in RH 1977:125)	Broadly elliptic 32mm:1-1/4" x 22mm:7/8" --- [5]3mm:1/8" light green	Diameter : 89mm:3-1/2" Cone height : 25mm:1" No. of lobes : 6 Alt. diameter: 90mm:3-9/16" Alt. cone ht.: 35mm:1-3/8" Petal length : 58mm:2-5/16" [Single]; broadly funnel-shaped; lobes overlapping, wavy; very round and flat faced	<i>As registered:</i> White, occasionally with sectoring RHS 43C (deep yellowish Pink); spotted RHS 149D (pale yellow Green) [or, over sectoring, RHS 58B (strong purplish Red)] <i>Measured 1992-93:</i> 92: self—RHS 47A (moderate Red) / RHS 47B (strong Red)	1-2 fls./bud Low to medium height, rounded, branching fairly well --- Early June
'Whitehead' Ref. No.: T2-4 'Glacier' x 'Getsu- toku'  IRR 1984/85 (in RH 1985/86:111)	Elliptic 40mm:1-9/16" x 20mm:13/16" --- 5mm:3/16" strong Yellow Green (144B)	Diameter : 80mm:3-1/8" Cone height : 30mm:1-3/16" No. of lobes : 5-6 Alt. diameter: 85mm:3-3/8" Alt. cone ht.: 30mm:1-3/16" Petal length : 53mm:2-1/16" Single; broadly funnel-shaped; [lobes broad, overlapping]	<i>As registered:</i> White, frequently with flush of RHS 55C (light purplish Pink) spreading from axis of each lobe; or variously flecked, striped, sectored, or selfed RHS 50B (deep Pink); prominently spotted RHS 60B (strong purplish Red) <i>Measured 1992-93:</i> 92: axial—RHS 49A / RHS 52D (strong Pink) 93: axial—RHS 48D / RHS 49A (strong Pink)	1 fl./bud [Low, mounding, dense] --- End of May/early June
'Oakland' [not a Robin Hill] Parentage unknown; possibly <i>kaempferi</i> hybrid; named only because a parent in 15 Robin Hill crosses.  ARS 47(3):164	Elliptic to ovate 59mm:2-5/16" 28mm:1-1/8" --- 6mm:1/4" strong Yellow Green (143C)	Diameter : 58mm:2-5/16" Cone height : 44mm:1-3/4" No. of lobes : 5 Single; open funnel-shaped; lobes wavy- edged	<i>As registered:</i> RHS 57D (vivid purplish Red), spotted RHS 59B (deep purplish Red) on dorsal lobes	(2-)3 fls./bud [Tall], upright, openly branching --- Early May

# Flowers, Fungus, Bugs, and Worms

William C. Miller III

Bethesda, Maryland

Each season brings with it a raft of opportunities. Every year is a little different, and each year provides us with an opportunity to improve our understanding of azalea behavior. If we take the time to notice, we may be able to make sense out of our observations. For example, why does the flower color of some cultivars seem more vivid some years? Is there some relationship between winter temperatures and color pigment production? Why are some semi-double cultivars more double some years? Could the transmutability of stamen into petal-like structures be affected by the amount or timing of rainfall? Why do previously stable cultivars throw multiple sports some years? These are all good questions, and I am sure that we have all noted similar situations.

The winter of 1993-1994 was pretty rough—cold temperatures, snow, and ice. Those of us who were involved with flower shows in 1994 experienced more anxiety than usual. We knew there was damage, and as you might expect, there was no way to anticipate the extent of the loss until the last minute. Picture, for a moment, holding a formal, competitive, flower show with few if any entries. Fortunately, the Brookside show (April 28-May 1, 1994) was its usual success, and the public was oblivious to the anxious anticipation. In retrospect, the later blooming varieties like the Satsukis and the Robin Hills bloomed poorly or failed

to bloom at all. In my yard, camellias, *Nandina*, and *Aucuba* were companion plants that were hit particularly hard in 1994.

A severe winter also provides opportunities of a more positive nature. Hybridizers benefit by being able to evaluate seedlings for cold hardiness. In my own situation, tender seedlings succumbed, marginally hardy seedlings became obvious, and those seedlings which performed well were identified and will continue in the evaluation process perhaps to be introduced some day.



For years, the Glenn Dale 'Morning Star' had bloomed as a self-colored flower (described as Rose with a yellow undertone by (Lee) or deep purplish pink with a yellow undertone (Galle) with no suggestion of sporting. In 1988, 'Morning Star' produced two distinctly different sports. In retrospect, this does not seem so remarkable given what we have learned to expect from anything derived from 'Vittata Fortunei', but was there an environmental trigger?

Two examples of peculiar azalea behavior. **RIGHT:** One sepal is elongated and carries a pigmented stripe the color of the corolla, as if the flower momentarily considered becoming hose-in-hose but changed its mind. **LEFT:** While most azalea flowers commonly carry five and sometimes six petals, a comparatively rare, but proportionally perfect, eight petal flower was produced.



*Steinernema carpocapsae*, a biorational option for controlling many pest insects. About one-half millimeter (approximately 0.02 inches) in length, this round worm is yet another weapon in the Integrated Pest Management arsenal. Thanks to Dr. Mike Raupp of the University of Maryland for helping me locate this slide. Photo credit: Randy Gaugler, Ecogon, Inc.

Similarly, the hard winter of 1993-1994 provided us with an opportunity to test a question that a colleague had previously posed regarding petal blight. Would a severe winter have any impact on petal blight? As far as I could tell, *Ovulinia azaleae* Weiss, the causative fungal agent, was unfazed. At about the time that 'Martha Hitchcock' bloomed, petal blight made its unwelcome appearance.

A mixed positive note, I recorded the return of *Rhinocapsus vanduzeei* Uhler, the little red bug with the painful bite that I discovered in my yard in 1993 [1]. I was not sure whether it would be able to withstand a bad winter. Despite the fact that it is a plant eater, no appreciable damage was noticed on the azaleas; lace bug which it also eats did not seem to be much of a factor; and I was bitten several times while minding my own business.

For several years, I have been watching two populations of *Callirhopalus bifasciatus* Roelofs (two-banded Japanese weevil) in my yard [2]. With weevil adults notching the leaves and larvae feeding on roots, I knew that this pest really should not be ignored, and I decided to do something about it last year. Always on the lookout for a better (safer, cheaper) way to deal with problems of this type, I noticed in the catalogs that entomopathogenic ("causing disease in insects") nematodes were recommended for the control of Japanese beetle grubs, cutworms, cabbage root maggots, and *Otiorynchus sulcatus* Fabricius (black vine weevil), a similar root weevil pest. Not to be confused with other nematodes that attack plants and are pests, these beneficial microscopic roundworms, averaging about one-half millimeter in length, enter their host's body and release a bacterium (*Xenorhabdus* sp.) which kills the host in several days.

This had real possibilities, since this approach afforded me an opportunity to learn more about predacious nematodes while evaluating a "biorational" alternative to Orthene® for weevil control. In the beginning, the plan was to treat one group of plants with the nematodes and the other group of plants with Orthene®. The basis for comparison would be the amount of leaf notching that resulted post treatment. However, it occurred to me that the proposed experimental design might have some shortcomings. For example, what if the winter killed both populations of weevils? That would give the false positive appearance that both methods are highly effective. I decided not to use the Orthene®, so it would be a comparison between no treatment and treatment with nematodes.

Currently, the most widely used nematodes are *Steinernema carpocapsae* and *Heterorhabditis bacteriophora* or Strain Sc and Strain Hb respectively. The supplier offered both, so I chose the Hb strain, which was described as being more aggressive in seeking its prey. A \$34.00 order for 25 million Hb nematodes was placed in early April. Several weeks later, a padded mailer containing instructions and three individually packaged sponges arrived. As the soil temperature had to be at least 50° F, I waited several weeks to apply the nematodes. As instructed, I thoroughly watered the area around the plants that I was planning to treat, extracted the nematodes from the sponge carriers by repeatedly squeezing the sponge carriers in a bowl of lukewarm water, and poured the resulting solution into the soil surrounding the plants. The instructions called for using a garden syringe or a sprayer to permit a measured and even application of nematodes, but I was more interested in ensuring that I applied

nematodes in excess of what would be necessary. I had no means of gauging stock viability, and allowing for as little as 50% viability, twelve million nematodes should still have been adequate for my purposes.

I periodically monitored both sites and observed leaf notching on the non-treated plants first. This was anticipated and resolved my concern about the severe winter wiping out the weevils. Unfortunately, I later detected leaf notching on the treated plants and subsequently observed adults at both sites. What conclusions could I draw from my results? Perhaps the Hb strain is not appreciably effective as a means of treatment for this particular weevil under the conditions that I provided, or perhaps there was a problem with my shipment of nematodes (dead stock). Even though my results were not what I expected, I succeeded in learning more about what may yet prove to be a useful weapon in the Integrated Pest Management arsenal.

## REFERENCES

- (1) Miller III, W.C. *Rhinocapsus vanduzeei* Uhler, *A Little Known Pest of Azaleas*. **THE AZALEAN**, September 1993, 15 (3), 58-59.
- (2) Smith, D.C. and M.J. Raupp. *Leaf Notching Weevils*. **THE AZALEAN**, June 1985, 7 (2), 30-31.

*Bill Miller is a former vice president of the Azalea Society of America, co-chairman of the Membership Committee, chairman of the Public Information Committee, and chairman of the Glenn Dale Preservation Committee. He is a member and past president of the Brookside Gardens Chapter. A biologist by training, he is a licensed pesticide consultant, the founder of The Azalea Works, and a frequent contributor to THE AZALEAN.* □

# High Variability Incidences of *Rhododendron calendulaceum* Exhibited on a Mountain Slope in the Southern Appalachians

Parker L. Little  
Beaverdam, Virginia

A newly discovered population of *Rhododendron calendulaceum* in southern West Virginia displays some unusual color variations. On a gentle southwest mountain slope above the Greenbrier River Valley, *R. calendulaceum* exhibits colors of white with a light pink blush, white with a light yellow border, deep pink, strong yellow, deep salmon-red, to deep orange. Predominant color types within this population are salmon and pink. The area containing these specimens is an acre in size at an elevation of 2,400 feet.

Plant species associated with the population are *Quercus alba*, *Q. coccinea*, *Q. prinus*, *Hamamelis virginiana*, *Rhododendron maximum*, *Magnolia acuminata*, *Pinus strobus*, *P. echinata*, *Betula lenta*, *Nyssa sylvatica*, *Vaccinium pallidum*, *Epigaea repens* and *Gaultheria procumbens*. The heights of *R. calendulaceum* vary from three to ten feet. Forest growth is beginning to enter a mature stage.

Local elevations on this mountain between 2,400 and 2,800 feet escape late frosts that occur in May and June. Within this "frost free" zone the opportunity for successful pollination is maximized, allowing for more variable characteristics to appear. All specimens were in full bloom and full leaf on May 28, 1994 while scattered frost was in the valley.

The largest specimen of *R. calendulaceum* found within the acre-size population was a light pink clone ten feet tall by 14 feet wide. It is probably the parent of the numerous unusual specimens. Although no white flowering specimen was found, a white mutation of *R. calendulaceum* may be responsible for the numerous color variations found within this population. Unlike the hybrid populations found at a higher elevation on a slope of Spruce Knob in West Virginia (4,861 feet), *R. viscosum*, *R. arborescens*, and *R. periclymenoides* have not been found within miles of the site to produce white hybrids [1].

Other variations found within the study area are a specimen with narrow pointed leaves and salmon-pink flowers, one with very large orange-pink flowers, one deep orange with star-shaped flowers, a specimen with two color patterns on each truss (the truss was compact) and three specimens producing flowers with ruffled edges. A late salmon clone was found within the population on June 20, 1992. Also, a small star-like yellow-orange specimen with narrow upright growth

habit was found three-fourths of a mile away at a lower elevation on May 28, 1994. Cytological testing is needed to determine if it is a diploid.

Red color types of *R. calendulaceum* on this mountain range begin to appear at 2,400 feet and become the dominant color phase above 3,000 feet. Galle reports that "the orange-red to red forms of this species are usually from higher elevations and later flowering" [2]. Yellow forms begin to appear below 2,750 feet and become the dominant color phase below 2,450 feet. The typical orange phase is interspersed on the entire mountain, but appears as the dominant phase between 2,300 feet and 2,750 feet.

Unfortunately, some of the most striking scarlet specimens found near old logging roads are disappearing rapidly. Extirpation of the red to scarlet forms is causing this color phase to become absent particularly above 2,750 feet. The chances of extirpation are increased at higher elevations on this mountain range since there are fewer acres above 2,750 feet. Extirpation may have been occurring for at least 150 years, with noticeable damage occurring in the last 15 years.

Cuttings were taken from 16 specimens of the selected population on July 2, 1994 with variations in rooting success. Propagation success percentage was very high for a specimen of white flowers with a light pink blush, and for a deep pink specimen. Others had low propagation success rates. Selected clones have been named and will be registered soon. One hopes that a few varieties will be available in the near future.

## ASA NEW MEMBERS

### AT-LARGE MEMBERS

Leland J. Cameron  
P. O. Box 811  
Purvis, MS 29475  
PHONE: (601) 794-8833

Doyle Hughes  
P. O. Box 105  
Gig Harbor, WA 98335  
PHONE: (206) 851-7601

J. R. Quick  
6021 Caledonia Street  
Raleigh, NC 27609  
PHONE: (919) 848-4768

Fred Steinert  
5272 N. Natoma Avenue  
Chicago, IL 60656  
PHONE: (312) 775-7056

LOUISIANA CHAPTER  
Mr. & Mrs. Carl G. Cappel  
1099 St. Tammany Avenue  
Slidell, LA 70460  
PHONE: (504) 643-5481

### NORTHERN VIRGINIA CHAPTER

Mary Claire Deschenes  
P. O. Box 2561  
Woodbridge, VA 22193  
PHONE: (703) 670-5250

### OCONEE CHAPTER

James W. Cochran  
110 Gate Dancer Way  
Alpharetta, GA 30202  
PHONE: (404) 772-0895

## REFERENCES

- 1 Skinner, Henry T., April 1955, "In Search of Native Azaleas". *Morris Arboretum Bulletin*, Vol. 6, No. 2, pgs 19-20.
- 2 Galle, Fred C. 1985, *Azaleas*, Timber Press, Portland, OR pgs 68-69.

*Parker L. Little has a degree in Landscape Architecture. He designs gardens in the Richmond, Virginia area.* □

---

## 1995 Convention Reminder

---

As a reminder, the 1995 Convention and Annual Meeting, sponsored by the Brookside Gardens Chapter will be held May 4-7, 1995 in Rockville, Maryland. Details are in the December 1994 issue of **THE AZALEAN**. Please plan to attend.

### Registration Check List

- (1) Make your room reservations directly with the Woodfin Suites Hotel. The phone number is 1-800-237-8811, and you should identify yourself as a member of the Azalea Society. The hotel accepts Diner's Club, VISA, American Express, DISCOVER, MasterCard, and Enroute cards.
- (2) Your check should be made out to: Brookside Gardens Chapter, ASA.
- (3) Complete the Convention Registration Form that was on the wrapper of your December 1994 issue of **THE AZALEAN** and send it, with your check, to the Convention Registrar:

**Mrs. Carolyn R. Beck**  
Convention Registrar  
10808 Stanmore Drive  
Potomac, MD 20854

If you should decide to attend at the last minute the directions to the convention hotel are as follows: If you are proceeding south on Interstate 270, take the Shady Grove Road exit, Ext 8. Turn left at the stoplight at the end of the exit ramp toward east Gaithersburg. At the third stoplight, turn right onto Gaither Road. When Gaither Road ends, turn right onto Redland Road. At the next stoplight, turn left onto Picard Drive. The hotel is on the right. If you are northbound on Interstate 270, take the Shady Grove Road exit, Exit 8. As you enter the exit ramp, make a sharp right onto Redland Road. At the first stoplight, turn

right onto Picard Drive. The hotel will be on your right. (If you accidentally miss the turn onto Redland Road, continue on to Shady Grove Road. Stay to the right, proceed two stoplights, and turn right onto Gaither Road. At the end of Gaither Road turn right onto Redland Road. At the next stoplight, turn left onto Picard Drive. The hotel is on the right.)

The hotel can also be reached from Maryland Route 355. From 355 turn onto West Gude Drive. At the next stoplight, turn right onto Picard Drive and the hotel is on the left. □

### Princess Azalea Introductions

Three new Princess azaleas will be featured at the 42nd Annual Landon Azalea Garden Festival, May 5-7: 'PrincessMargaret' a double salmon-orange, 'Princess Gwyneth' a double white, and 'Princess Lindsey' a double pink. A more detailed description of these cultivars will be published in the June 1995 issue of **THE AZALEAN**. □

---

## Report of the Nominating Committee

---

The open positions for the 1995 election are President, Vice-President and three At-Large Directors, each to serve for a two-year term starting with the 1995 annual meeting. The nominees were selected by the Nominating Committee based on their knowledge, enthusiasm, experience, geographical location and commitment to the aims of the Azalea Society of America.

### **PRESIDENT: Steve Brainerd, Rowlett, Texas**

After graduating from Oklahoma State University in 1968 with a Bachelor's degree in Chemistry, Steve entered the U.S. Navy's non-pilot flight training program. He received his wings in February 1969, subsequently volunteering for service in Vietnam. His highly decorated career included over 200 combat missions in the F-4 PHANTOM fighter operating from the aircraft carrier USS MIDWAY, graduation from the Navy Fighter Weapons School (TOPGUN), command of an F-14 TOMCAT fighter squadron and retirement with a rank of Captain.

Steve enrolled in the Landscape Architecture program at the University of Texas at Arlington, leaving before receiving a Master's degree to work for Naud Burnett and Partners, a landscape architecture firm in Dallas, Texas. He joined the staff at the Town of Highland Park in September 1993 working in the Parks Department with a title of Landscape Design and Planning. Steve was named the Highland Park employee of the year for 1994. He was licensed by the State of Texas in May as a Landscape Irrigator. Steve has served the past four years as the

President of the Dallas Chapter of the Azalea Society of America.

Steve is married to the former Mary (Bunny) Feiler of Yuma, Arizona who is a flight attendant with American Airlines. Their daughter Heather, age eight, is the light of their lives. Steve's two older daughters, Steffanie and Tiffany, are college students, one a freshman and one a senior graduating in May.

Steve is an avid reader and collector of books on landscape architecture and man's interaction with his environment. His garden at home is a constant source of enjoyment with a planting of 400 azaleas including over 100 different varieties.

### **VICE PRESIDENT: Jim Thornton, Conyers, GA**

Jim is best known as a founding member and first President of the Oconee Chapter. Retired from AT&T

after 31 years, he and wife Patsy now preside over an ample and rather mature garden of mostly azaleas (he also does orchids). From ASA point of view, it is his great skill as an organizer, mover and shaker, that recommends him to you.

#### **AT-LARGE DIRECTORS:**

**Fred Minch, Puyallup, WA**

A sitting Director, Fred and his wife Jean have worked with azaleas for over 30 years. Currently they operate Seaview Inc., an azalea nursery devoted exclusively to hybridization. Fred is a veteran of WWII and the Korean conflict. Since that time he has worked for Crown-Zellerbach as an ink-and-die specialist, and been a tavern owner/operator for 20 years. In addition to active membership in ASA for almost a decade, Fred is a long-time member of ARS, now serving as chairman of their Azalea Committee.

**Rosalie Nachman, Richmond, VA**

A two-term Director of ASA, Rosalie is a founding member of the Richmond Chapter, and a long-time member of its Executive Committee. She is also a Director of the Lewis Ginter Botanical Garden. Still, it is her superb garden for which she is best known; a must stop on any tour in the Richmond area.

**Arthur Vance, New Bern, NC**

Though a long-time regular at annual conventions few seem to know that Art is a past-president of the Northern Virginia Chapter and the third president of the Society itself. In 1989 Art retired from the Department of Defense, Office of the Secretary, and brought over 400 varieties from his collection to eastern North Carolina where he and his wife, Diane, now garden and collect. □

#### **Ben Morrison Chapter**

**Nuran Miller, President**

The last meeting of the Ben Morrison Chapter was the annual Christmas Party and was held December 11, 1994 at the home of Carol and Dale Flowers. Members continued to make plans for the flower show to be held in Southern Maryland at St. Paul's Church in Prince Frederick the weekend of May 13. A flower show planning meeting was held at the home of Joe and Nuran Miller on February 26 at 3:00PM. The committee includes Joe Miller, Chairman, Deac Moore for plant donations, Sue and George Switzer for the educational table and Carol Segree for publicity. Bob and Bee Hobbs, Nuran Miller, Carol Flowers, Allen Jones, June Thomas will all have responsibilities. Margaret Church was requested to do a display on companion plants. We shared good food, nice gifts and all the joys of the Christmas season. □

#### **Brookside Gardens Chapter**

**Carol Allen, President**

The meeting of the Brookside ASA Chapter was held December 6, 1994 at the Twinbrook Library in Rockville, Md. The election of officers took place. Carol Allen was elected to be the new president for the upcoming year with the vice-president, treasurer and secretary remaining in place.

Our speaker, Barbara Bullock, Curator of the Azalea Collection at the National Arboretum, presented a wonderful talk on the azalea collection with slides from the early days right up to the latest changes including the new stone walls and paths for the visitors, complete rebuilding of the pond in the Lee Garden, and the restoration work in the Morrison Garden and hillside areas. She stressed the work done by her crew of volunteers, some from the ASA, in the clearing of vines and downed trees in the on-going work of bringing the collection back into shape. The highlight of the night was the pre-

senting of the Frederic P. Lee Award to Bob Stelloh, richly deserved by Bob, who has been a faithful and productive Azalea Society member. Without his dedication to the building of the George Harding Memorial Garden in both planning and actual labor, the garden would not be in existence today. He personally contacted the members and nurseries for the plants that are contained in the garden. There are over 600 plants now, waiting to put their show on in the spring.

The evening was completed with refreshments and the raffle of two lovely Christmas wreaths made by our past president, Bill Johnson. □

#### **Dallas Chapter**

**Linda McDowell, Secretary**

The chapter has entered into an agreement with the Dallas Arboretum and Botanical Society for the construction of a greenhouse on the grounds. The greenhouse will serve as a base for the chapter membership, providing a center for education on azalea propagation and culture. Rooted cuttings from the Arboretum's azalea collection will be offered for sale to the public through the gift shop. It is anticipated that the working relationship between the Arboretum and the chapter will be broadened to include research projects utilizing the 2000+ azalea cultivar collection. □

#### **Oconee Chapter**

**Pheleta Hambrick, Secretary**

The chapter held its September 11 meeting at 2:00PM in the First Baptist Church of Conyers, Georgia. The program included the election of our new officers. Dave Butler discussed evaluation of newly rooted cuttings, and Jim Thornton presented an economical misting system.

At our September meeting, President David Butler recognized our visitors and welcomed two new members:



Mike Vuocolo and Powell Harrison. He then introduced our speaker, Richard Giadrosich of Pike Nursery.

Mr. Giadrosich's topic was "Azaleas and Companion Plantings". His information on perennials, ground covers, shrubs for shade, camellias, and water gardens, along with suggestions for landscaping, was most interesting. Mr. Giadrosich also answered questions posed from some of our members. At the conclusion of his program, a gift certificate from Pike Nursery was raffled. Dot Hester from Fayetteville, Georgia was the winner.

Ralph Bullard invited everyone to the Atlanta History Center September 21 at 8:00PM to hear ASA President Malcolm Clark speak on the Robin Hill azaleas. This was sponsored by the Azaleas Chapter of the American Rhododendron Society.

Two flats of James Harris azalea cuttings (ready for transplanting in one gallon containers) were donated by Fred Sorg. These plants were for purchase at one dollar each with proceeds going to our Chapter. Names of these were 'Midnight Flare' and 'James Harris'. Twenty-nine dollars was collected for our treasury. Thanks, Fred!

General consensus of the members present was that the June Cutting Swap was great. Several members reported excellent success and growth from their cuttings. □

#### **Glenn Dale Preservation Project 1995** William C. Miller III *Bethesda, Maryland*

The ASA's National project at the Glenn Dale station is entering its 13th year. This year the project is adopting a new focus. In the past, much effort was expended in establishing a published schedule of work days for the purpose of providing ASA members an opportunity to participate in this worthwhile National project. Given the consistently inadequate response to the opportunities provided to this point, the idea of established work days

has long since ceased to make sense and is being scrapped in favor of a more flexible approach.

It was reported previously that the woods area is divided into discrete plots. In 1993, with the assistance of Dick West, a thorough analysis of Plot 9 was undertaken. The plant that we tentatively identified as 'Alexandria', one of the Glenn Dale hybrids that was never officially distributed, bloomed as a self colored flower which is consistent with the description in Monograph 20. This plant may well be the only documented specimen of 'Alexandria' anywhere.

Finally, an initial attempt was made to define some of the plots; that is, to determine where they began and ended. With stakes, a tape measure, and a pocketful of assumptions, we

tried to make sense out of the plot records. Given that some of the plots apparently have been done over at least once, we had mixed success in using the records as a tool to identify specific cultivars. One such noteworthy find, however, was a group of 'Narcissiflorum', an interesting double, white form of *Mucronatum*. □

#### **In Memory**

Mrs. Allison (Fran) Fuqua died at her home in Jackson, Georgia on October 28, 1994. She was a great lover of the azalea and rhododendron. An active woman, she was a member of both the Oconee Chapter of the Azalea Society of America and the American Rhododendron Society. She is survived by her husband, Allison, and will be greatly missed by all who knew her. □

## ===== *Azalea Calendar* =====

1995

- April 4** Dallas Chapter Meeting at 7:00PM at the Dallas Arboretum and Botanical Society (DABS)
- April 4** Brookside Gardens Chapter Meeting at 7:30PM at the Twinbrook Library
- April 15** Deadline for receiving material (articles, advertisements, and chapter news) for the June issue of **THE AZALEAN**
- April 29** Brookside Gardens Chapter Azalea Sale at the National Arboretum starting at 9:00AM
- May 4-7** Azalea Society Annual Meeting and Convention to be held by the Brookside Gardens Chapter in Maryland Suburbs of Washington, D.C.
- May 5-7** Landon School Azalea Festival, 10:00AM to 5:00PM
- May 10-14** American Rhododendron Society 50th Celebration Convention, Portland, Oregon
- May 13** Brookside Gardens Chapter Azalea Sale at Woodward Center at 9:00AM
- May 13-14** Ben Morrison Chapter Flower Show at St. Paul's Church in Prince Frederick, Maryland
- June 6** Dallas Chapter Meeting at 7:00PM at the DABS
- June 6** Brookside Gardens Chapter Meeting at 7:30PM at the Twinbrook Library
- July 15** Deadline for receiving material (articles, advertisements, and chapter news) for the September issue of **THE AZALEAN**
- September 26** Dallas Chapter Meeting at 7:00PM at DABS
- October 15** Deadline for receiving material (articles, advertisements, and chapter news) for the December issue of **THE AZALEAN**
- October 24** Dallas Chapter Meeting at 7:00PM at DABS

**Transplant Nursery**  
*Rare and Unusual Plants*

Choice groups of azaleas,  
rhododendrons, and  
native deciduous azaleas  
**Catalogue \$1.00**

(706) 356-8947  
1586 Parkertown Road  
Lavonia, GA 30553

***We Do Not Ship!***  
***Visitors Welcome!***

**Azalea Mart**



**Advertising Rates**  
1/18 page \$12  
1/9 page \$20  
2/9 page \$36  
1/3 page \$50  
1/2 page \$75  
Full page \$150  
Back cover \$250  
Special rates for members  
Send copy or write  
Robert W. Hobbs, Editor

*A Distinguished  
Collection*

**AZALEAS  
RHODODENDRONS  
RARE TREES  
and EVERGREENS  
UNUSUAL PLANTS**

MAIL ORDER CATALOG \$2.00

**Roslyn  
Nursery**

DEPT C 211 BURRS LANE  
DIX HILLS, N.Y. 11746

**THE BOVEES NURSERY**

Vireya (tropical) Rhododendrons  
American Species Azaleas  
Japanese Species Azaleas  
Beltsville Dwarf Azaleas  
Special Rock Garden Plants

*We ship, catalog \$2.00*  
*VISA & Mastercard*

**1737 SW Coronado**  
**Portland, Oregon 97219**

**503-244-9341 or**  
**1-800-435-9250**

**Shepherd Hill Farm**



Shepherd Hill Farm  
200 Peekskill Hollow Road  
Putnam Valley, NY 10579  
(914) 528-5917

**Growers of Rhododendrons and Azaleas**

***Call or Write for Our New Catalog***  
***Postpaid Shipping***

**ASA BOOKSTORE**

**'A Brocade Pillow—  
Azaleas of Old Japan'**  
by Ito Ihei  
with an introduction  
by John L. Creech  
\$15.00  
Postage Paid

All Timber Press  
Publications at  
substantial  
discount

**'Success With  
Rhododendrons  
and Azaleas'**  
by  
H. Edward Reiley  
\$27.50  
Postage Paid

**'Azaleas'**  
by Fred Galle  
\$59.00  
Postage Paid

Please inquire:  
Ms. Jean Cox  
5604 La Vista Drive  
Alexandria, VA 22310  
PHONE: (703) 971-8669

**GREER GARDENS**

1280 Goodpasture Island Rd  
Eugene, OR 97401  
ph: 503/686-8266

Call or send for our catalog, \$3.



*Azalea 'Lawrence Olson'*

*Justly Famous for the Rare and Unusual*

## THE BELL BOOK

*A Companion to Monograph 20  
Indexes of Cultivar Names, PI Number, Bell Number Seed Lot Number  
and Sisterhood Tables for the Glenn Dale Azaleas*

Order from:  
**THE AZALEA WORKS**  
7613 Quintana Court  
Bethesda, MD 20817  
(301) 365-0692  
\$22.00 plus shipping and handling  
Maryland Residents add \$1.10 sales tax

Shipping and Handling  
USA \$3.00  
Canada, Mexico and Western Hemisphere \$4.00  
Europe \$6.00  
Asia, Africa, & The Pacific Rim \$8.00

Pay by Bank Check in U.S. Dollars or  
International Money Order  
Checks made out to  
THE AZALEA WORKS

## Muccio's Nurseries

INCORPORATED

*Growers of Rare  
Camellias and Azaleas  
since 1935  
hundreds of varieties  
Send for FREE catalog*

3555 CHANEY TRAIL  
MAILING ADDRESS; P.O. BOX 6160  
ALTADENA, CALIFORNIA 91003  
(818) 794-3383

**Your  
Advertisement  
Could  
Appear  
Here**



## AZALEA TRACE

**450 Varieties**

*The Best "DOERS" From Our  
Collection of Over 1500 Varieties*  
Potted Plants (6", 8", 10" Pots)  
Grown in Calvert County, MD

5510 STEPHEN REID ROAD  
HUNTINGTOWN, MD 20639  
PHONE: (301) 855-2305  
(410) 257-0837

## Southern Plants

- ☛ Southeastern Natives
- ☛ Heat-Tolerant Deciduous Azaleas
- ☛ Magnolias
- ☛ Rare Introduced Plants

Mail Order Catalog \$1.00

P O Box 232  
Semmes, AL 36575  
(205) 649-5221

## THE CUMMINS GARDEN

Dwarf Rhododendrons  
Deciduous Azaleas  
Dwarf Evergreens  
Companion Plants

YES, We Ship!  
Catalog \$2.00  
(Refundable With Order)



22 Robertsville Rd.  
Marlboro, NJ 07746  
Phone: (908) 536-2591

## garden information manager (gim, pronounced 'Jim')

Previously available only to public gardens and arboreta, gim has now been tailored to also meet the needs of private plant enthusiasts.

*gim* runs on any Macintosh computer as your plant information partner, keeping such details for each of your plants as source, size history, colors, bloom time, culture, comments, "to do" notes, and its precise location in your garden.

The *gim* maps of your garden and plants let you instantly find any plant, "grow" the garden over time, see it in "bloom" at any season – and easily replace your lost labels. *gim* also has extensive, flexible, easy to use on-screen and printed reports, including plant labels.

For full information, call or write:  
Oakhill Nursery / 15241 Springfield  
Road Germantown, MD 20874  
301-840-1714 301-417-9123 (fax)

TEN OAKS NURSERY  
Mr. Andy Adams, Jr.  
13060 Triadelphia Mill Road  
Clarksville, MD 21029  
410-531-2361

Introducers of the Princess Series

## Withstanding The Times... Glenn Dale Azaleas

Over 40 years of testing since the early 50's

Central Maryland Above 450 ft. Altitude, 10° - 15° Below Zero, Zone 6

### Special Collection Offer

If you wish to try a collection of the new Glenn Dale Hybrid Azaleas, our selection, in a variety of colors, and time of bloom, here is a chance to try them out. You will not be disappointed. Orders taken for collection, only on advance notice.

**10 all different**, 2 to 4 inches, width, once transplanted for **\$15.00**

**25 all different**, 2 to 4 inches, width, once transplanted for **\$36.00**

**40 all different**, 2 to 4 inches, width, once transplanted for **\$56.00**

*2 to 4 inch collections available Spring only. (May) • All plants labeled  
Shipped Prepaid East of the Mississippi (Add \$5.00 west of Mississippi)*

Girard Yellow Pom-Pom



*Girard Nurseries*

BOX 428 • GENEVA, OHIO 44041

Phone (216) 466-2881 Fax (216) 466-3999

Azaleas • Rhododendrons • Evergreens • Holly • Seeds • Bonsai

### NEW GIRARD AZALEA INTRODUCTIONS

#### GIRARD DOUBLE DECIDUOUS AZALEAS

Girard Red Pom-Pom - Red  
Girard Yellow Pom-Pom - Yellow  
Girard Arista - orange, salmon pink, white  
Girard Wedding Bouquet - bicolor pink & white  
Girard Pink Delight - double pink

#### GIRARD HARDY EVERGREEN AZALEAS

Girard Saybrook Glory  
Girard National Beauty  
Girard Hot Shot  
Girard Fuschia  
Girard Renee Michele

Growers of Many Native Rhododendrons and Azaleas

Write for Free Color Catalog.

ORIGINATORS AND GROWERS OF THE GIRARD\* GROUP OF HARDY EVERGREEN AND DECIDUOUS AZALEAS  
AND HARDY RHODODENDRONS.

42nd Annual

May 5, 6, 7  
10 A.M. to 5 P.M.

## LANDON AZALEA GARDEN FESTIVAL

- PERKINS AZALEA GARDEN: 2-1/2 ACRES - 15,000 AZALEAS - 1500 VARIETIES
  - AZALEA SOCIETY OF AMERICA SHOW
- ON SALE: AZALEAS (FIELDGROWN, NATIVE, UNUSUAL, POPULAR HYBRIDS), WILD-FLOWERS, HERBS, ANNUALS, ROSES, SHRUBS, PLANT EXPERTS AVAILABLE
  - SCHOLARSHIP FUND BENEFIT

6101 WILSON LANE, BETHESDA, MARYLAND (301) 320-3200

FREE Parking  
and Admission

INTRODUCING NEW  
PRINCESS AZALEAS

Antique Show  
Admission \$6.00