



# JC Raulston Arboretum

AT NC STATE UNIVERSITY

Planning and planting for a better world

Friends of the JC Raulston Arboretum Newsletter

Number 7, Spring 1999

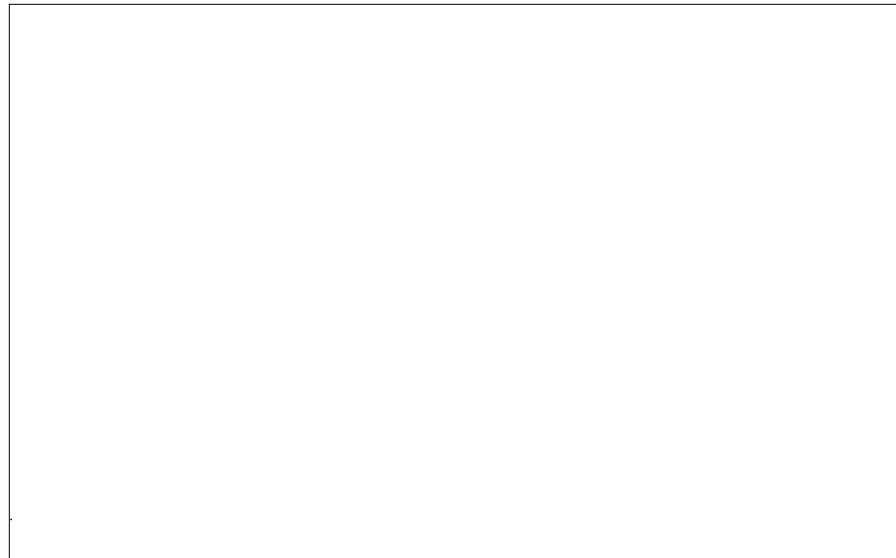
## York Challenge Announced at Gala

On May 2, 672 revelers streamed through the Arboretum to celebrate the 1999 Gala in the Garden. They shopped at the hat boutique to capture designer creations by **Susan Stephenson**. They vied for the fantasy bird houses decorating the paths and the tables. They competed hotly for items in the silent auction, strolled the garden, and settled in for a dinner under the big top. The spired white tent, rising from a floor constructed over the annual trial gardens, allowed all the gala guests to dine together for the first time since the gala's inception.

The biggest news of the evening, however, came during a surprise announcement made by **Chancellor Marye Anne Fox**. She told guests of a \$300,000 challenge grant extended by **Lib and Willie York** to support the future Education Center.

**William C. Friday**, Executive Director of the William R. Kenan, Jr. Charitable Trust and former president of the UNC system, spoke eloquently to the significance of the York's challenge.

"The Arboretum represents the fulfillment of the great dreams of



**Lib and Willie York and their daughter, Phyllis Brookshire, enjoy a moment under the arbor in the Finley Rose Garden.**

Photo by Ginger Long

**Professor Raulston** and all that he has meant to the greening of North Carolina," Friday said. "At this place, he developed whole new industries for our people. Now, the state, through its friends, will build here a lasting tribute to this man whose noble spirit impacted each of us.

"Lib and Willie York are the strong right arm of JC Raulston in making his dreams come true. They have devoted so much of their lives to making NC State the important institution that it is today."

**Bill Wilder**, chairman of the Arboretum Board of Advisors and legislative liaison for the NC Association of Nurserymen, officially accepted the challenge.

"Lib and Willie York have challenged the Arboretum community to raise \$3.4 million in legislative funding and \$800,000 in private funds to build the future Education Center," Wilder said. "On behalf of the Arboretum Board of Advisors and the North Carolina green industry, I accept that challenge,

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## Director's Letter

Remember that movie from the sixties, something like "If this is Tuesday it must be Belgium?" Well, I have been following a similar course for the past two months as I traverse the state to meet our members, advocates, and other supporters. Destinations in North Carolina and beyond are being covered, and will continue to be for several months ahead. These meetings enable me to not only introduce myself, but also articulate our mission and express the need to complete the new Master Plan, including the Education Center. I am very excited about the potential benefits which can be derived from these new facilities, and I've made it a priority issue in my travels and talks. Remember, improved facilities for the entire JC Raulston Arboretum (JCRA) staff and volunteers are also integral to the Master Plan and we critically need them. This is particularly true when you consider the major upgrade in computer systems

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## York, cont. from p. 1

and thank Lib and Willie York for this generous commitment and this motivation to move forward."

Wilder asked the legislators and other friends of the Arboretum present to work with him toward the passage of legislation currently introduced in NC House and Senate. He and Libby Wilder also pledged the first \$1,000 toward

matching the York Challenge.

Lib and Willie York and Marye Anne Fox and Jim Whitesell served together as honorary co-chairmen of the Gala in the Garden.

"Jim and I were honored to serve as honorary co-chairs alongside such great friends of NC State," said Fox. "Lib and Willie York have both brought strong leadership to the Arboretum and to this University. NC State is a far greater institution as a result of their unwavering friendship and support."

Arboretum director **Bob Lyons** also expressed his gratitude for the York's commitment and for all those who made the 1999 Gala in the Garden a success.

"This challenge is a tremendous inspiration to all of us, and we can never thank Lib and Willie enough for this latest example of their leadership and generosity. In

recognition of their commitment, the auditorium in the future Education Center will bear their name. This is a fitting legacy to two individuals whose contributions can be seen everywhere in the JC Raulston Arboretum, and a family that, for four generations, has been - and are still - integral to the history of NC State University."

"I also want to thank event co-chairs **Pickett Guthrie** and **Charlotte Martin**, the rest of the amazingly talented and dedicated committee, and all the very generous sponsors who made this evening possible."

The gala raised over \$61,000 toward the construction of the Education Center. Ground breaking for the center will begin as soon as the \$4.2 million necessary for construction is raised.

See the summer issue of the newsletter for more on the gala! ■

# Plant News

## Evergreen Magnoliaceae Evaluations

By Pat McCracken

The collection of Magnoliaceae at the JC Raulston Arboretum at North Carolina State University has become extensive over the past several years. As curator of the magnolia collection, I have taken a personal interest the last few years in the evergreen members of this family. Most people are familiar with the popular southern magnolia (*Magnolia grandiflora*); however, most people have never seen the more exotic species of evergreen Magnoliaceae. One of my goals is to introduce the gardening public to this diverse and landscape worthy group of plants. To my knowledge, a thorough and serious collection of these plants has not been done to date.

Initially, I decided to emphasize *Magnolia grandiflora* cultivars. The collection now contains over 100 selections of this wonderful species and represents one of the largest collections of this species in the world. Unfortunately these plants require a tremendous amount of space, and can not all be grown at the arboretum. The collection is being housed by Taylor's Nursery in Raleigh, NC and will be maintained there for the duration of the evaluations. Taylor's has graciously agreed to donate several

Can you imagine the above magnolia flower in shades of pink and red growing on a trellis in your garden? Breeder Pat McCracken can! photo by JC Raulston

acres of field space for this extensive collection. I am currently also trying to collect all other species and cultivars of evergreen Magnoliaceae for evaluation.

One of the primary interests in the *Magnolia grandiflora* collection is to evaluate for cold hardiness. This will be done with cooperative research with Dr. Paul Cappiello at Bernheim Arboretum in Kentucky. Dr. Cappiello will be conducting laboratory experiments to determine the theoretical minimum temperatures each cultivar can withstand. At the termination of the laboratory trial, we will conduct extensive field trials of the hardiest cultivars in northern test sites. This knowledge will be invaluable to the nursery industry because it will allow us to aggressively make selections of magnolias that can be marketed far north of the current market. It will also be of great value in magnolia breeding. By crossing the hardiest *Magnolia grandiflora* cultivars with other less hardy species it should be possible to produce cold hardy hybrids with great garden merit.

The other evergreen species will also be evaluated for cold hardiness and landscape value. There is a large number of species that may have commercial value in the warmer regions of the United States. In the following section, I will discuss my breeding ideas in more detail.

### Breeding Work within the Evergreen Magnoliaceae

Plant breeders have long overlooked evergreen magnolia species (and other evergreen genera in the Magnoliaceae). This remarkable group of plants offers a wide range of hardiness, plant size and growth habit, leaf form, flower size and flower fragrance. Flower color has been basically only white (with a very few pink selections in genera other than *Magnolia*).

Hardiness ranges from a limited number of plants that will survive zone 5 all the way to plants that are

See **Magnolia**, next page

## Magnolia, continued

tropical zone 10 hardy. The primary problem with evergreen magnolias has always been cold hardiness. The large evergreen leaves are extremely susceptible to desiccation during the winter. There are a few selections of *Magnolia grandiflora* and *Magnolia virginiana* that have done fairly well in zone 5a climates. These same species also extend at least into zone 9. These two species will be the focus on breeding for more cold hardy evergreen Magnoliaceae.

Plant size and growth habit are extremely variable within the evergreen members of the Magnoliaceae. Plants like *Magnolia grandiflora* can easily grow to be 60 feet tall with equal or greater spread. I know of a single plant in southern Georgia that is over 100 feet wide! Smaller members of this family are small shrubs. Growth habit can range from wide-spreading to narrowly upright. *Mangletia yunnanensis* has a very upright, formal growth habit and appears to be an ideal candidate for breeding. I have been successful in crossing *Magnolia grandiflora* 'Little Gem' with this species. The reciprocal cross has not been successful. I have tried crossing many evergreen and deciduous species onto *Mangletia yunnanensis* and to date have been able to produce no viable seeds.

Leaf form varies widely within the evergreen members of the Magnoliaceae. The largest leaf forms would be found on *Magnolia delavayii* or *Magnolia grandiflora*, with leaves often over twelve inches in length and over five inches wide. Some of the smaller leaves can be found on *Michellia* species. *Michellia figo* has leaves usually two inches long and one inch wide. Extremely long, narrow leaves are found

within the genus *Mangletia*. *Mangletia yunnanensis* has leaves six inches long and three-quarter inches wide. Some species have leaves that are extremely glossy on the upper surface (*Magnolia grandiflora*), and others have leaves with very dull, matte surfaces (*Magnolia guatemalensis* and several other subtropical species). Some species have extremely heavy indentations on the lower surface of the leaves (*Magnolia grandiflora*) and some species have a white or silvery lower leaf surface (*Magnolia virginiana*).

Flower size ranges from extremely large blooms over 15 inches wide (*Magnolia delavayii* and *Magnolia grandiflora*), to very small flowers less than one inch wide (*Michellia figo*). Fragrance can range from overpowering musty smells to sweet, tropical fruity smells. Most evergreen members of the Magnoliaceae do have a distinct fragrance. Flower color is basically an off-white or cream color. As flowers age they often develop a yellow cast to them. Yellow (often with green or purple undertones) flower color can be found in *Michellia figo*. Rare pink flowers can be found in *Magnolia virginiana*, *Michellia affinis* and *Mangletia insignis*. A red flowered form of *Magnolia delavayii* has been reported. I am planning on working with *Magnolia virginiana*, *Magnolia delavayii* and *Mangletia insignis* to bring pink flower color into other species of evergreen Magnoliaceae.

## Breeding Goals For The Future

1. Develop cold hardy *Magnolia grandiflora* cultivars (hardy into zone 4b?)

2. Develop large pink/red flowering evergreen magnolias that are hardy to at least zone 7b. This may be difficult since *Magnolia delavayii* "red flowered form" is a zone 9 plant.

3. Develop improved growth habit and flowering characteristics. I would like to develop hybrids with *Magnolia grandiflora* and other species (both evergreen and deciduous) that have bright red stamens.

4. This, perhaps, should be listed under "delusions of grandeur for the future," but I hope to cross evergreen Magnoliaceae with the magnolia vine (*Scasandra* species). The goal here would be to develop an evergreen, large flowered (maybe even with pink flowers!), vining magnolia! One can only dream!

5. Under the same category above, I hope to cross *Liriodendron tulipifera* into *Magnolia*. The dream is to bring in the orange flower color found in *Liriodendron* into the rest of the magnolia family. This will be attempted with both evergreen and deciduous species of magnolia.

This will be more work than I can hope to accomplish within my lifetime. However, this is a passion that I have developed (especially after having the honor to work with August Kehr of Hendersonville, NC) and I'm sure it will be a lot of fun!

I would love to hear if you have any comments or ideas on breeding projects or if you know of any *Magnolia grandiflora* that are growing in zone 5 or colder.

See **Magnolia**, next page

# Plant News

## Magnolia, continued

### Cultivars needed for evaluation

If you have any of the following cultivars and would be willing to send either cuttings or small rooted plants, please contact me by the various means listed at the end of the article.

Magnolia grandiflora 'Cairo'  
Magnolia grandiflora 'Calla Lily-leaf'  
Magnolia grandiflora 'Dauber'  
Magnolia grandiflora 'Eisenberg'  
Magnolia grandiflora 'Exmouth'  
Magnolia grandiflora 'Exoniensis'  
Magnolia grandiflora 'Gloriosa'  
Magnolia grandiflora 'Goliath'  
Magnolia grandiflora 'Greenspire'  
Magnolia grandiflora 'Lanceolata'  
Magnolia grandiflora 'Main Street'  
Magnolia grandiflora 'Majestic Beauty'  
Magnolia grandiflora 'Pygmae'  
Magnolia grandiflora 'Slankard'  
Magnolia x 'Timeless Beauty'  
Magnolia delayvii (Red Flowered Form)

### List of evergreen Magnoliaceae at the JC Raulston Arboretum

Magnolia grandiflora 'Baby Doll'  
Magnolia grandiflora 'Bracken's Brown Beauty'  
Magnolia grandiflora 'CoCo'  
Magnolia grandiflora 'Dearing Street'  
Magnolia grandiflora 'Edith Bogue'  
Magnolia grandiflora 'Ferruginea'  
Magnolia grandiflora 'Gallisoniere'  
Magnolia grandiflora 'Goliath'  
Magnolia grandiflora 'Harold Poole'  
Magnolia grandiflora 'Hasse'  
Magnolia grandiflora 'Jubilee'  
Magnolia grandiflora 'Little Gem'  
Magnolia grandiflora 'Pioneer'  
Magnolia grandiflora 'Poconos'  
Magnolia grandiflora 'Reigle'  
Magnolia grandiflora 'Satin Leaf'  
Magnolia grandiflora 'Semmes'  
Magnolia grandiflora 'Southern Lights'  
Magnolia grandiflora 'Southern Pride' TM  
Magnolia grandiflora 'St. Mary'  
Magnolia grandiflora 'Symme's Select'  
Magnolia grandiflora 'Variegated'  
Magnolia grandiflora 'Victoria'  
Magnolia tamaulipana 'Bronze Sentinel'  
Magnolia virginiana 'Dodd's Dwarf'  
Magnolia virginiana 'Green Bay'  
Magnolia virginiana 'Henry Hicks'  
Magnolia virginiana 'Kousa'  
Magnolia virginiana 'Milton'  
Magnolia virginiana 'Mt. Pulaski'  
Magnolia virginiana 'Perdido'  
Magnolia virginiana 'Santa Rosa'  
Magnolia virginiana 'Willowleaf'

Magnolia x 'Freeman'  
Manglietia chingii  
Manglietia insignis  
Manglietia moto  
Manglietia yunnanensis  
Michelia figo  
Michelia figo 'Port Wine'  
Michelia foveolata  
Michelia martinii  
Michelia maudiae  
Michelia platypetala  
Michelia sinensis  
Michelia skinneriana  
Michelia tsoi  
Michelia x foggii  
Michelia x Magnolia #3  
Michelia x 'Picotee'  
Tsoongiodendron odoratum

### List of the evergreen cultivars and species currently housed by Taylor's Nursery

Magnolia grandiflora 'Al's Golden' grafted  
Magnolia grandiflora 'Atlanta'  
Magnolia grandiflora Black Stem'  
Magnolia grandiflora 'Bracken's Brown Beauty'  
Magnolia grandiflora 'Bronze leaf seedling from Brown Velvet'  
Magnolia grandiflora 'Brown Velvet'  
Magnolia grandiflora 'Charles Dickens'  
Magnolia grandiflora 'D. D. Blanchard'  
Magnolia grandiflora 'Deering Street'  
Magnolia grandiflora 'Dr. Henry Orr'  
Magnolia grandiflora 'Edith Bogue'  
Magnolia grandiflora 'Fairhope'  
Magnolia grandiflora 'Ferruginea'  
Magnolia grandiflora 'Foothills'  
Magnolia grandiflora 'Gallisonensis'  
Magnolia grandiflora 'Green Giant'  
Magnolia grandiflora 'Greenback' (Mgtig)  
Magnolia grandiflora 'Griffin'  
Magnolia grandiflora 'Harold Poole'  
Magnolia grandiflora 'Hartline Seedling'  
Magnolia grandiflora 'Hasse'  
Magnolia grandiflora 'Hasse Variegated'  
Magnolia grandiflora 'Head-Lee # 2'  
Magnolia grandiflora 'Head-Lee #1'  
Magnolia grandiflora 'Hillcrest Selection'  
Magnolia grandiflora 'Ingleside Plantation Nursery # 14'  
Magnolia grandiflora 'Ingleside Plantation Nursery # 13'  
Magnolia grandiflora 'Ingleside Plantation Nursery # 18'  
Magnolia grandiflora 'Ingleside Plantation Nursery # 4'  
Magnolia grandiflora 'Ingleside Plantation Nursery # 7'  
Magnolia grandiflora 'Jubilee'  
Magnolia grandiflora 'Little Gem'  
Magnolia grandiflora 'Little Gem' x M. sieboldii 'Genesis'  
Magnolia grandiflora 'Little Gem' x Manglietia yunnanensis

Magnolia grandiflora 'Margaret Davis'  
Magnolia grandiflora 'Maryland'  
Magnolia grandiflora 'Minus 24'  
Magnolia grandiflora 'Mossy Creek'  
Magnolia grandiflora 'NA 7707-8' grafted  
Magnolia grandiflora 'NA 7707-8' ???  
Magnolia grandiflora (Old tree from Scituate, MA)  
Magnolia grandiflora 'Parris Select'  
Magnolia grandiflora 'Phil Savage'  
Magnolia grandiflora 'Pittsburg - from Gabriel'  
Magnolia grandiflora 'Pocanos'  
Magnolia grandiflora 'Ruff'  
Magnolia grandiflora 'Russet'  
Magnolia grandiflora 'Samuel Sommer'  
Magnolia grandiflora 'Santa Cruz'  
Magnolia grandiflora 'Satin Leaf'  
Magnolia grandiflora 'Seedling of Charles Dickens'  
Magnolia grandiflora 'Semmes'  
Magnolia grandiflora 'Shady Grove #6'  
Magnolia grandiflora 'Small leaved seedling of St. Mary'  
Magnolia grandiflora 'Smith Fogle'  
Magnolia grandiflora 'Southern Pride'  
Magnolia grandiflora 'Southern Lights'  
Magnolia grandiflora 'Spring Grove #16'  
Magnolia grandiflora 'St. Mary'  
Magnolia grandiflora 'Suede'  
Magnolia grandiflora 'Susquehanna'  
Magnolia grandiflora 'Symmes Select'  
Magnolia grandiflora 'Topaz'  
Magnolia grandiflora 'Victoria'  
Magnolia grandiflora 'Wagner'  
Magnolia grandiflora 'Weston's Selection'  
Magnolia guatemalensis  
Magnolia tamaulipana  
Magnolia virginiana 'Perdido'  
Magnolia virginiana 'Santa Rosa'  
Magnolia virginiana 'Tensaw'  
Magnolia x 'Riegel'  
Magnolia x 'Sweet Summer'  
Manglietia fordiana  
Manglietia insignis  
Manglietia yunnanensis  
Michelia dolsoipa  
(Michelia x foggii) x Michelia figo

If you have any information on any of the cultivars listed anywhere in this article (breeder or originator, cold hardiness information, date of release, nomenclature, etc.) please send me that information.

•Email: pmccrca000@aol.com

•Fax: 919-231-7688

•Phone: 919-365-7878 (H)  
919-231-6161 (W)

•Address: Home: 8025 Fowler,  
Zebulon, NC 27579

•Work: Taylor's Nursery, 3705  
New Bern Ave., Raleigh, NC 27610

## Plant News

### Plants to Create a Garden of Winter Delights

Green and Growin' Show  
Winston-Salem, NC  
January 14-15, 1999

Plant descriptions by  
Jonathan Nyberg and Douglas  
Ruhren

Plants selected by  
Douglas Ruhren, Mitzi Hole, Bryce  
Lane and Jonathan Nyberg

*The follow plants were displayed by the Arboretum at the Green and Growin' trade show, January 14-15, 1999.*

***Arum italicum*** (Araceae) "Italian Arum" This plant is known as the hosta of the winter garden. Its ideal site is the same as for hosta, and its foliage dies back in May and reappears in October – talk about an ideal time share arrangement! Showy orange berries. Zone 6-8.

***Aspidistra elatior 'Asahi'*** (Convallariaceae) "Asahi Cast Iron Plant" White tipped foliage. Zone 7b or sheltered site in zone 7a.

***Aspidistra elatior 'Variegata'*** (Convallariaceae) "Variegated Cast Iron Plant" Evergreen foliage plant for shade gives that tropical look. Elegant...and truly as tough as cast iron. This cultivar striped with white. Zone 7b or sheltered site in zone 7a.

***Chimonanthus praecox*** (Calyconthaceae) "Fragrant Wintersweet" No need for anything but a average nose to enjoy the aptly named fragrance of this slow growing shrub/small tree in January. Open flowers recently survived 15 degrees at the Arb with no problem, and reportedly will

take much lower temps. No insect or disease problems. Branches easily forced inside. This plant is a big should for the gardener who appreciates the finer things in life. Zone 6-9 (flowers more reliable in zone 7).

***Cornus alba*** (Cornaceae) "Red Twig Dogwood"

There are many cultivars of this beautiful and well-adapted deciduous shrub. Prune to ground each spring to maintain brilliant color of twigs in the winter landscape. 3-5 feet; zone 3-8.

***Cornus mas 'Spring Glow'*** (Cornaceae) "Cornelian Cherry Dogwood" Blooming near the end of winter, *Cornus mas* blooms at a time when there is little competition from other flowering plants. 'Spring Glow' is a selection made by JC as a good-flowering clone for zone 7, where, although the tree does well, the flowers are generally not as prolific as they are further north. Beautiful bark adds to the value of this 20 foot tree in the winter garden. Zone 4-8.

***Cornus sanguinea 'Midwinter Fire'*** (Cornaceae) "Bloodtwig Dogwood" This has been one of the most stunning plants in the winter garden the past two years. We cut it back to the ground last March and it has grown four feet of upright orange/red branches. It looks especially good on cloudy days. It looks best of all, however, on a drizzly day when the moist-

**Valerie Tyson** makes a new friend at a staff party generously hosted by Arborem volunteer **Gay Gallins** in her unique Winston-Salem home. photo by Jonathan Nyberg

ened branches are glowing like the sun setting through polluted air. Now, how valuable is a plant that looks so good on a rainy, gray winter day? Priceless. For the rest, there's Mastercard. Zone 4-7.

***Cornus stolonifera 'Silver and Gold'*** (Cornaceae) "Yellow Twig Dogwood" Yellow twigs in winter and white variegated foliage in summer. Zone 3-8.

***Crataegus viridis 'Winter King'*** (Rosaceae) "Green Hawthorn" Come to the far West side of the Arboretum, see the majestic Winter King hold court, and you will soon be under the reign of this regal tree that truly lives up to its name. The prolific fruits are larger than the species. Introduced by Simpson Nursery of Indiana in 1955. 20' to 25' tall and less susceptible to rust than other hawthorns. If you have room for one tree this size in your winter garden, this would be the choice. Zone 4 to 7.

See **Winter**, next page

# Plant News

## Winter, continued

***Danae racemosa*** (Ruscaceae)  
"Poet's Laurel" Elegant, arching stems with evergreen leaves and orange berries make this a must for the winter garden. Cut stems are good for indoor arrangements. Zone 7b-9.

***Daphne odora*** 'Variegata'  
(Thymelaeaceae) "Variegated Daphne" Gardeners who are able to grow this temperamental shrub taller than 2 feet often have a little air of superiority – until one day, for no known reason, their source of pride withers and dies overnight. "Oh, how the mighty have fallen!" This cream-edged beauty is worth killing over and over again. Zone 4-7.

***Edgeworthia papyrifera***  
(Thymelaeaceae)  
"Paperbush" Choice shrub for a woodland winter garden. It needs high organic matter soils, light to moderate shade and some protection if possible. The flower clusters hang down showing a hairy, white sheen most of the winter. The foliage gives a little bit of a tropical look during the summer. Zone 7-9.

***Euonymus alata*** 'Montrosus'  
(Celastraceae) "Montrosus Winged Euonymus" A selection with even more pronounced wings and corky bark. Good, rock solid specimen shrub in the winter garden to underplant with crocus and daffodils. 15' to 20' tall. Zone 4-8.

***Hamamelis X intermedia***  
(Hamamelidaceae) "Witchhazel" Winter / spring flowering hybrids of *H. mollis* and *H. japonica*. Small, loosely spreading trees to 15-20 feet, generally excellent fall color, and fragrant flowers (if you have a good nose). Zone 5-8.

'Diane' – bronze, copper-red flowers

'Early Bright' — yellow

'Jelena' – red, orange and yellow mix gives a strong coppery look.

***Hedera helix*** (Adult Form)  
(Araliaceae) "Adult Ivy" "Don't get Jonathan started on this plant," I can hear my co-workers advising.

shade. Zone 4-9.

'Goldheart' (Adult Form) Bold yellow variegation; slow growing.  
***Hedera helix* ssp. *poetarum*** 'Poetica Arborea' (Adult Form) Yellow / orange berries.

***Helleborus foetidus***  
(Ranunculaceae) "Stinking Hellebore" If ever a plant needs an agent to negotiate a name change this is it. The stinking part comes from an unpleasant smell, released when the leaves are crushed, but there's no real reason to go around crushing the leaves. *H. foetidus* is the herbaceous workhorse of the winter garden, a strong grower and a free seeder with long lasting handsome foliage, bracts and pale green flowers. Humus-rich soil and partial shade is best, but it is adaptable to many sites. Zone 6-8.

***Ilex crenata*** 'Yellow Fruits'  
(Aquifoliaceae)  
"Japanese Holly" This plant, which is just outside of the Klein-Pringle White Garden at the Arb, consistently catches one's attention with its pretty, understated, creamy-yellow berries. Well worth searching out. Zone 5-8.

***Ilex decidua*** 'Finch's Gold'  
(Aquifoliaceae) "Possumhaw" Yellow-fruited form of the native Possumhaw holly. Zone 5-9.

Karen Jones, Shep Lassiter and Anita Kuehne (left to right) sell the popular Arboretum T-shirts and hats. photo by Jonathan Nyberg

My only question is this, with so many green blobs in the landscape, why not plant an interesting green blob? Consider: lustrous, green leaves that just shine year around; globose, white flowers in late summer that are insect magnets; blackish fruits all winter. Plus, it's IVY! Meaning it's very hard to kill, widely adaptable to site and will not only live, but live well, in dry

See **Winter**, next page

# Plant News

## Winter, continued

***Ilex X 'Carolina Cardinal'***  
(Aquifoliaceae) "Carolina Cardinal Holly" *I. verticillata X I. serrata* hybrid seedling selected by JC for its low spreading habit, ultimate size probably under 8 feet. Fruits heavily practically every year at the Arboretum. Deciduous hollies are a must for any winter garden. Zone 5-9.

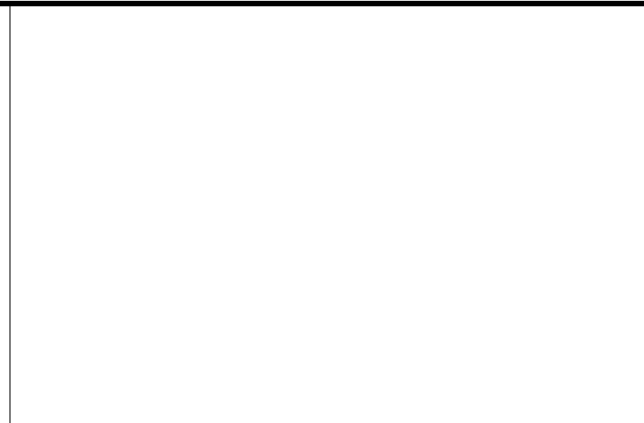
***Koelreuteria bipinnata***  
(Sapindaceae) Very much like *K. paniculata* but larger; blooming in late summer. Zone 6-8.

***Koelreuteria paniculata 'September'*** (Sapindaceae) "Golden Raintree" This well known small tree is grown for its eye-catching yellow flowers in summer. 'September' was selected for its late flowering. At the Arb, we appreciate the dried fruits all winter. Zone 4-8.

***Lonicera fragrantissima***  
(Caprifoliaceae) "Winter Honey-suckle" Well known, old-fashioned, 10 foot tall shrub that has to be somewhere in the winter garden, if only to bring its fragrant branches inside during the winter. Not invasive in woodlands as are some of its relatives. Zone 4-8.

***Nandina domestica 'Alba'***  
(Berberidaceae) "Heavenly Bamboo" The yellow berries on this *Nandina* look incredibly good if one plant is mixed into a block of red berried ones. Great for Christmas decoration, too. A high percentage come true from seed. 4' to 6' high; zone 6-9.

***Phellodendron amurense*** (Rutaceae) "Amur Corktree" Fast growing 30' to 40' tree was often touted by JC for its toughness, ornamental



Look who showed up to help us take down the booth!  
Dan Hinkley, left, and Richard Olsen. photo by Jonathan Nyberg

qualities and easy propagation from seed. We highlight it here for the attractive black fruit that persist all winter on a female tree. Zone 3-8.

***Pinus densiflora 'Oculus Draconis'***  
(Pinaceae) "Dragon's Eye Japanese Red Pine" Well known cultivar with yellow banded needles. Zone 3b-7

***Poncirus trifoliata 'Flying Dragon'***  
(Rutaceae) "Contorted Hardy Orange" This cultivar has been around awhile so we were surprised at SNA last summer when a specimen received more attention than any other plant. It's like the TV rerun promos - if you haven't seen it, it's new to you! Forms impenetrable hedge for all creatures except elephants or rhinos; fragrant, white, gorgeous flowers in spring; and barely edible, ornamental oranges in winter. Zone 5-9.

***Prunus mume*** (Rosaceae) "Japanese Apricot" One of JC's most beloved trees. He once said that his goal was to plant one at every McDonalds so people would see them. JC was able to convert Mike Dirr, who writes glowingly of mumes in his new addition of the *Manual of Woody Landscape Plants*. Small tree to 15-20 feet, showy

flowers Dec.-Feb., many cultivars are sweetly fragrant. Zone 6-9. Easily propagated by softwood cuttings in summer.

'Kobai' - red, semi-double flowers.

'Peggy Clarke' - double, deep rose flowers with long stamens and red calyx.

***Rhapidophyllum hystrix***  
(Arecaceae)

"Needle Palm" SE native. One of the hardiest palms. Survived the winter of 1984 in the Arboretum. Reliable through zone 7. Sun or shade. 10 feet tall.

***Sabal minor*** (Arecaceae) "Bush Palmetto" A hardy palm for zone 7 gardens. The broad, fan-shaped leaves make this a great textural plant. The blue/black berries which are borne on 6 foot stalks make it even more valuable in the winter garden. Zone 7-10.

***Symphoricarpos orbiculatus***  
(Caprifoliaceae) "Coralberry, Indian Currant" Purple berries persist all winter on this adaptable native shrub. Great choice for a woodland winter garden. Zone 2-8.

***Ulmus alata f. pendula 'Lace Parasol'*** (Ulmaceae) "Lace Parasol Winged Elm" The outstanding specimen at the Arb is memorable by all who are fortunate enough to see it at its winter peak. This is a plant to build a winter garden around. The original found in the wilds of Person Co., NC Zone 6-9.



### In England, conflicting desires and a fast-growing conifer add up to hedge rage

Reprinted by permission from the Associated Press.

*"The leyland cypress in NC is closely associated with The NCSU Arboretum (for better or worse!)", wrote JC Raulston in 1988. Because of this association, I thought our friends would find the following article amusing. The article calls it the "American leyland cypress tree." The parents of this intergeneric hybrid are American (Cupressus macrocarpa and Chamaecyparis nootkatensis), however it should be pointed out the first cross was made in Great Britain just over 100 years ago. —JN*

Suburbanites brandish axes and chain saws. The government is on the brink of joining battle. The national news media are on the scene. Towering green aliens are here and they are marching across Britain, pitting neighbor against neighbor and killing off innocent lawns wherever they cast their 30-foot shadows.

*Cupressocyparis leylandii*, the American leyland cypress tree — which grows more than three feet per year—can cause great distress when planted between neighbors as a hedge. Hundreds of these hedges are sprouting nationwide as homeowners discover the almost instant privacy they provide.

"It's our highest-selling conifer," says Simon Eade, manager of the Alexandra Palace Garden Center. "It's definitely not for the small garden," he added.

Privacy is not the only motive for planting a leylandii hedge. The petty-minded might be tempted to retaliate for past grievances with the folks next door by allowing untrimmed leylandii to shade the neighbor's patio and turn their cherished lawn into a brown patch. Rage sometimes takes root on the shady side of the shrubbery, for which the British use the Latin name, pronounced lay-LAN-dee-eye.

At the nub of the leylandii problem is a conflict of national characteristics: the sunlight cravings of a cool,

A neighbor's leyland hedge left Jones without enough sunshine for a decent herbaceous border.

damp, northerly nation; a pride and pleasure in gardening; and a profound desire for privacy. Add to this the conviction that a man's home is his castle, and you have the makings of a neighborhood war.

Britain's chief leylandii warrior is Michael Jones, who won a six year; \$168,000 court fight against his neighbor, whose 24-foot hedge left Jones without enough sunshine for a decent herbaceous border. To build a fence higher than six feet in a garden, a homeowner has to apply for planning permission. But no such permission is required for hedges of trees.

So Jones took matters into his own hands a couple of times, lopping off 5 feet, then 4 feet. His neighbor took him to court, alleging damage

and trespassing—and ended up with a hedge reduced to 12 feet and a bill for all the court courts.

Jones' widely publicized ordeal struck a chord with other leylandii sufferers. About 2,000 people have joined Hedgeline, a support group he established "to provide fellowship in adversity," and to convince the government that leylandii legislation is needed. The Daily Mail newspaper is waging a national campaign to bring leylandii planting under legal controls, and the government has set up a leylandii working group to determine what should be done. Hedgeline's goal is to get hedges listed with other "statutory nuisances" under environmental law.

On its Web site, Hedgeline warns members that lopping off a neighbor's hedges is still illegal, despite Jones' victory, made possible only because local regulations gave him leverage most others don't have. Instead, pending national legislation, the organization recommends sufferers "appeal gently" to their neighbors' sense of fair play before resorting to the local government or small-claims court.

And speaking of gentle appeals, how are relations nowadays between Jones and his neighbor? Another hedge has been planted behind the infamous one and Jones judges it to be about 20 feet high. We don't exchange Christmas cards," he said. ■

# Development News

## ***An open letter from Redge and Jane Hanes***

### *Honorary Chairs of the Raise the Roof Campaign*

The long awaited day has arrived. On February 1, 1999, **Dr. Robert E. Lyons** assumed the directorship of the JC Raulston Arboretum at NC State University, opening the door on a new and exciting era for the Arboretum. He is already hard at work meeting constituents, working with staff, and spending time in the Arboretum, gathering information and developing strategies to enrich the Arboretum's plant collections and educational outreach.

This also signals a new beginning for us, as Friends of the Arboretum, in our work to support the future Education Center at the Arboretum. After the uncertainty of a two year interim period, we can point with confidence to a talented new leader, to increasing university support, and to the reaffirmation of the Arboretum's unique central mission: to promote new and better adapted plants for a better world.

We were pleased to learn that Bob Lyons fully embraces the plan for the Education Center, and considers its expedient construction a top priority. He shares our vision of a unique facility that will set a new standard for the integration of garden and architecture, and be a vibrant hub for the education of students, schoolchildren, the green industry, and gardeners everywhere.

Over the coming months, he will

meet Arboretum constituents at a series of regional receptions across the state. Bob's infectious enthusiasm for the Arboretum and its goals is guaranteed to inspire and energize. These meetings will provide a forum for your questions about the Arboretum, a springboard for new ideas and new programs, and momentum to achieve the goals ahead.

The tour got off to a great start in Wilmington on March 24. Other

**Thanks to leadership from Redge and Jane Hanes, the Raise the Roof Campaign has received \$50,000 from the James G. Hanes Memorial Fund and the JW and Anna Hodgin Ganes Foundation.**

events are scheduled in Asheville, Greensboro, and High Point, and planning is underway for receptions in Charlotte, Chapel Hill and northeastern NC. We hope you'll join us at the one nearest you.

## **Michel Foundation supports Education Center**

**Marge and Jake Michel** have always been champions of education. Now, with a gift of \$10,000 from the Michel Family Foundation to the Arboretum Education Center, they've

broadened their patronage of horticultural education.

Their first foray into public horticulture was at **Richmond Hill**, an inn and conference center they developed in Asheville, North Carolina. The inn was developed as a gardener's wonderland, and has become a venue for garden education.

"In addition to this generous gift, the Michels have made a major contribution to horticulture through their vision to create fine gardens and horticultural events at Richmond Hill," said landscape architect **Chip Callaway**. "Annual symposia at Richmond Hill have brought in renowned gardeners such as Penelope Hobhouse, Peter Loewer, and Rosemary Alexander.

"They've contributed to the community in so many ways," said Callaway. "They also recently provided support for an architectural history of Greensboro.

"We were delighted to make this gift in honor of Chip Callaway and **Hunter Stubbs**," said Mrs. Michel. "Chip did a tremendous job at Richmond Hill, not only with the landscape design, but also with the overall planning. And now, the gardens continue to evolve so beautifully through the wonderful teamwork between Hunter and Chip. They have both put all their heart and talent into making Richmond Hill what it is today."

Both professional educators, Dr. and Mrs. Michel run the Education Center, a educational publishing firm located in Greensboro. ■

# Volunteer News

by Harriet Bellerjeau

## TOP 10 MOST WANTED VOLUNTEER POSITIONS

**Database entry:** Two volunteers are needed, one as back up. Computer skills a plus, our system is user friendly. Must be available to train Tuesday or Thursday. Once proficient, can schedule own hours at the Volunteer Office or on campus. Weekdays, evenings and weekends 2 – 4 hours per week.

**Spiff-er Up-ers:** These 2 – 4 challenging positions require expertise in small and large broom handling. Leaf raking skills are a must. Seriously, we need a small team of folks who have a keen eye for detail and a passion for keeping things fresh and well maintained. Emphasis is on keeping paved areas swept, groundcover areas free of leaves and plant debris picked up. This team will be responsible for maintaining the What's-In-Bloom display in the Visitor Center. Orientation is required. Schedule your own hours, regular and weekly.

**Telephone Callers:** Two or three volunteers who have time available in the evening or on weekends, this is a great opportunity to serve. Requires dialing skills, persistence, patience and the ability to give clear and concise instructions to other volunteers. Callers are needed for mailings and special projects. Call from home or the volunteer office. Flexible times, once or twice per month.

**T-shirts Team:** One leader and two volunteers are needed to manage the t-shirt sales. Volunteers should have good organizational and

accounting skills. The job entails seeking designs, taking inventories, ordering and stocking as well as coordinating a t-shirt booth for special events and Arboretum functions. One year rotation, 2 – 4 hours per week shared.

**Curators:** Positions are open for experienced gardeners with strong knowledge of the care, maintenance and identification of plants in a specialty area. Work is coordinated with Arboretum staff and other volunteers. Supervisory skills are a plus. Opportunities for expanding and promoting collections. Must be willing to commit 3 - 4 hours weekly.

**Volunteer Office Staff:** Several positions are available. Volunteers give directions, answer questions about the Arboretum, sell t-shirts, make phone calls, answer the phone etc. Computer training provided – we've got the latest and the greatest! Several afternoons, Saturday and some Sundays need coverage. 3 – 4 hours weekly. Substitutes also needed.

All interested volunteers should contact the Volunteer Coordinator at 515-3132 or complete a Volunteer Interest Forms located in the Visitor Center.

## NEW CURATORS

**CJ Dykes** joins us as curator of the **Wisteria Garden**. He will be taking on the weekly pruning during the growing season. He was a personal friend of JC's and thought it was time to give something back. CJ is supervisor of Landscape and Grounds for the Wake County Public Schools.

**Pam Baggett** will become the curator for the new **Entrance Gardens**. Pam is currently the owner of **Singing Springs Nursery** in Cedar Grove, NC. Her experience and expertise in tender,

and unusual perennials will provide a special welcome to visitors.

**Susan Cheatham** has been waiting in the wings for the opportunity to become the Klein-Pringle White Garden curator. Susan has a wealth of experience to share with us, as a designer, horticulturalist/gardener and a painter.

## MANY THANKS!

We have recently completed our annual Tour Guide Training. Now that the challenging task of bringing some 15 new guides on board and encouraging experienced guides to continue is over, **Vivian Finklestein** can relax. Well almost. At the time of this writing, she is preparing for a special "Story Tour" in which she will tell anecdotes and stories about JC Raulston and many of the plants in the Arboretum's collections. Not to despair if you missed hearing it in person. Thanks to **Harley Mudge**, we have a new lapel mic and voice activated recorder to tape the tours. Tapes are available in the Volunteer Office for guides who find them especially useful in preparing for their tours.

Many, many thanks to all the guides for providing such a valuable outreach. To new guides, we look forward to having you with us and to experienced guides, thanks for yet another season. Thanks to **Kathe Rauch** and **Carolyn Weathers**, **Roy Dicks** and **Bob Lyons** for taking the time to lead tours and trainings. Thanks to **Fran Johnson**, **Carolyn Fagan** and **Vivian** we're off to a wonderful season of tours! ■

# Reviews and Previews

by Jonathan Nyberg

## Ruhren Winter Garden Open House

On February 21, 1999, Douglas Ruhren generously opened his Durham house and winter garden to Arboretum staff and volunteers. The winter garden was at its peak with drifts of hellebores, cyclamens, crocus, daffodils and iris reflecting the beauty of the blue winter sky and warm sun. Tours were also led across the boardwalk to the hidden serpentine pond in the back yard.

The Arboretum staff presented Douglas a gift of fresh pears and other goodies in appreciation of his recent efforts as Arboretum horticultural advisor. Thanks to Douglas for opening his house and garden to us, and thanks for the hours of effort freely given over the years in support of the JC Raulston Arboretum.

Here is the recipe for Doug's famous **Cranberry Cake**, which was very popular.

- Preheat oven to 325 degrees.
- Bottom of 10-12" pie pan or tart pan place **2-3 cups whole fresh cranberries, 3/4 cup chopped walnuts or pecans, 1 cup cane sugar.**
- make a batter of **3/4 cup melted unsalted butter, 2 eggs beaten, 1 cup sugar, 1 cup flour, 2 teaspoons almond extract.**
- mix till blended and pour batter over ingredients in cakepan.
- Bake for 45-60 minutes until lightly golden brown.
- Either leave in pan and serve, or try and turn it out (It usually sticks a little.)
- Serve with whipped cream.
- This recipe is 100% fat and cholesterol free! ■

Many Arboretum members were involved in the recent Rock Garden Society Winter Study Weekend. Above, Bobby Ward visits the magnificent magnolia display at the Arboretum table. Many gardeners from the north asked if we grew them in a greenhouse!? We don't need a greenhouse down here in paradise.  
photo by Jonathan Nyberg

Yes, pink elephants joined the flamingos in welcoming Director Bob Lyons!  
photo by Jonathan Nyberg

# 1998 Accessions

- 981002 - *Abelia chinensis*; Mike Dirr, GA; 3" pot; 10/9/98  
 981003 - *Abelia chinensis*; Mike Dirr, GA; 3" pot; 10/9/98  
 981004 - *Abelia chinensis*; Mike Dirr, GA; 3" pot; 10/9/98  
 981005 - *Abelia chinensis*; Mike Dirr, GA; 3" pot; 10/9/98  
 981006 - *Abelia chinensis*; Mike Dirr, GA; 3" pot; 10/9/98  
 981007 - *Abelia chinensis*; Mike Dirr, GA; 3" pot; 10/9/98  
 981008 - *Abelia chinensis*; Mike Dirr, GA; 3" pot; 10/9/98  
 981009 - *Abelia chinensis*; Mike Dirr, GA; 3" pot; 10/9/98  
 981010 - *Abelia chinensis*; Mike Dirr, GA; 3" pot; 10/9/98  
 981011 - *Abelia chinensis*; Mike Dirr, GA; 3" pot; 10/9/98  
 981012 - *Abelia chinensis*; Mike Dirr, GA; 3" pot; 10/9/98  
 981013 - *Abelia chinensis*; Mike Dirr, GA; 3" pot; 10/9/98  
 981014 - *Abelia chinensis*; Mike Dirr, GA; 3" pot; 10/9/98  
 980733 - *Abelia serrata*; Camellia Forest N. NC; cutting; 7/13/98  
 980197 - *Abelia X grandiflora* 'Compacta'; Johnson's N, NC; 1g; 2/14/98  
 981091 - *Abelia X grandiflora* 'Little Richard'; Tarheel Native Trees,  
 981035 - *Abelia X grandiflora* 'Sherwood'; Pender N, NC; 3g; 10/23/98  
 980647 - *Abies magnifica* v. *shastensis*; U of CA BG; seed; 5/30/98  
 980865 - *Abutilon tridens*; Strybing Arb, CA; seed; 9/5/98  
 980894 - *Acacia longifolia*; Portugal Instituto de Botanica; seed; 9/5/98  
 981133 - *Acalypha* sp.; Plant Delights, NC; 1 qt; 12/9/98  
 980840 - *Acanthus* sp.; Richard Olsen, NC; seed; 8/20/98  
 980344 - *Acer argutum*; Forest Farm, OR; 2 tube; 3/26/98  
 980621 - *Acer barbinerve*; Chollipo Arboretum, Korea; seed; 5/30/98  
 980317 - *Acer campestre* 'Royal Ruby'; Forest Farm, OR; 1g; 3/25/98  
 980391 - *Acer cappadocicum* subsp. *sinicum*; Camellia Forest, NC;  
 980349 - *Acer fabri*; Forest Farm, OR; 2 tube; 3/26/98  
 980089 - *Acer griseum*; Brown resident; Rich Folk Bldg; seed; 1/12/98  
 980024 - *Acer palmatum* 'Bloodgood'; Head-Lee N. SC; 2g; 1/12/98  
 980025 - *Acer palmatum* 'Bloodgood'; Head-Lee N. SC; 1 qt; 1/12/98  
 981152 - *Acer palmatum* f. *palmetissectum* 'Omurayama'; Wilkerson  
 980989 - *Acer palmatum* 'Glowing Embers'; Mike Dirr, GA; 3"; 10/9/98  
 980802 - *Acer palmatum* 'Matsugae'; Head Lee Nursery, SC; 2g; 8/9/98  
 980803 - *Acer palmatum* 'Sango-kaku'; Head Lee N., SC; 2 g; 8/9/98  
 981155 - *Acer pilosum* var. *stenolobum*; Wilkerson Mill, GA 12/16/98  
 980053 - *Acer rubrum* 'October Glory'; Head-Lee N SC; 5 g; 1/11/98  
 980101 - *Acer trilobum*; N. Am. Rock Garden Society; seed; 1/28/98  
 980242 - *Achillea* 'Snowsport'; Mich Gardens, NC; 1 gal; 2/27/98  
 980835 - *Acorus gramineus* 'Minimus Aureus'; P Baggett, NC; 9/29/98  
 980091 - *Acorus gramineus* 'Ogon'; Doug Ruhren, NC; BR; 1/15/98  
 980622 - *Actinidia arguta*; Chollipo Arboretum, Korea; seed; 5/30/98  
 980231 - *Agarista populifolia*; Piedmont Carolina N. NC; 3 g; 2/20/98  
 981140 - *Agastache* 'Apricot Sunrise'; Fall 98 PAX plantsale; 1qt; 12/15/98  
 981141 - *Agastache* 'Blue Fortune'; Fall 98 PAX plant sale; 1qt; 2/15/98  
 980148 - *Agave lechuguilla*; Plant Delights, NC; 6 pot; 2/10/98  
 980143 - *Agave* sp.; Plant Delights, NC; AIM-55; 1 qt; 2/10/98  
 980146 - *Agave* sp.; Plant Delights, NC; T45M-1155-101; 6" pot; 2/10/98  
 981054 - *Agave xalapensis*; Neil Bell, OSU, OR; T75-13; liner; 11/5/98  
 980886 - *Ajuga iva*; Portugal Instituto de Botanica; seed; 9/5/98  
 980877 - *Alberta magna*; Strybing Arb, CA; seed; 9/5/98  
 981162 - *Allium hollandicum* 'Purple Sensation'; D. Ruhren, NC; 12/17/98  
 981170 - *Allium hollandicum* 'Purple Sensation'; D. Ruhren, NC;  
 980061 - *Allium stellatum*; Shaw Arboretum, MO; seed; 1/13/98  
 981125 - *Alnus* sp.; Plant Delights, NC; YD 73-62; 3" pot; 12/9/98  
 980385 - *Alpinia* sp.; Camellia Forest, NC; 295; 4" pot; 4/10/98  
 981101 - *Alstroemeria psittacina*; Ted Stephens, SC; BR 11/20/98  
 980618 - *Alternanthera ficoidea* *betzickiana*; Morris Arboretum, PA;  
 980609 - *Amaranthus caudatus*; Logan s Trading Post, NC; 5/30/98  
 980499 - *Amsonia ciliata* var. *filifolia*; Tony Avent, NC; 1 qt; 4/30/98  
 980490 - *Anemone* *thalictroides*; Tony Avent, NC; 1 qt; 4/30/98  
 980611 - *Anisodonta julii*; Landcraft Environment; 5/30/98  
 980836 - *Anthriscus sylvestris* 'Ravenswing'; P. Baggett, NC; 1qt; 9/29/98  
 980681 - *Antirrhinum hispanicum* 'Roseum'; Logee's Ghse, CT; 6/11/98  
 980561 - *Aptenia cordifolia*; Logee s Greenhouse, CT; 2.5 pot; 5/7/98  
 980688 - *Arabis procurrans* 'Variegata'; Ferdinand Coburgi; 3"; 6/12/98  
 980370 - *Aralia californica*; Mt. Pisgah Arb. Eugene OR; seed; 4/08/98  
 980102 - *Aralia continentalis*; N. Am. Rock Garden Soc; seed; 1/28/98  
 981055 - *Arbutus* aff. *xalapensis*; N. Bell, OSU, OR; T72-31; liner; 11/5/98  
 981060 - *Arbutus xalapensis*; N. Bell, OSU, OR; T72-68; liner; 11/5/98  
 980155 - *Arctotis fastuosa*; Seeds of Change, NM; seed; 2/11/98  
 980266 - *Arctotis venusta*; Seeds of Distinction 3/6/98  
 980405 - *Ardisia japonica* 'Variegata'; PAX Club, NCSU; 1 g; 4/24/98  
 980386 - *Ardisia shuilensis*; Camellia Forest, NC; 1 qt; 4/10/98  
 980387 - *Ardisia* sp.; Camellia Forest, NC; 96CY-3; 1 qt; 4/10/98  
 980512 - *Arisaema pensulanae*; Tony Avent, NC; 1 qt; 4/30/98  
 980118 - *Arisaema serratum*; N. Am. Rock Garden Soc; seed; 1/28/98  
 980119 - *Arisaema thunbergii* ssp. *urashima*; NARGS; seed; 1/28/98  
 980848 - *Aristolochia californica*; Strybing Arb, CA; seed; 9/5/98  
 980157 - *Aristolochia clematitis*; Roy. Hort. Soc., UK; seed; 2/11/98  
 980080 - *Aristolochia tomentosa*; Shaw Arb., MO; seed; 1/13/98  
 980774 - *Armeria maritima*; Campbell Road Nursery, NC; 8/1/98  
 980580 - *Armeria maritima* 'Splendens'; Park Seed, SC; seed; 05/23/98  
 980599 - *Aronia arbutifolia* 'Brilliantissima'; Smithfield GC, VA 3g 4/4/98  
 981028 - *Aronia melanocarpa* 'Autumn Magic'; Gossler Farms N, OR;  
 981027 - *Aronia* 'Viking'; Gossler Farms Nursery, OR; 1 gal; 10/23/98  
 980158 - *Aronia X prunifolia*; Roy. Hort. Soc., England; seed; 2/11/98  
 980563 - *Artemesia fibriatum*; Beds and Borders, NY; 4" pot; 5/7/98  
 980936 - *Artemesia schmidtiana* 'Nana'; Mich Gardens, NC; 1g; 0/7/98  
 980248 - *Artemesia arborescens* 'Powis Castle'; Hills of Haw, 2/27/98  
 980243 - *Artemesia schmidtiana* 'Silver Mound'; Mich Gar, NC; 2/27/98  
 981136 - *Arum concinatum*; Andy Upshaw, NC; 1 qt; 12/9/98  
 980090 - *Arum italicum*; Doug Ruhren, NC; bare root; 1/15/98  
 980358 - *Arum italicum*; Edith Eddleman's parents garden; 4/02/98  
 981135 - *Arum italicum* 'Billy Hunt'; Andy Upshaw, NC; 1qt; 12/9/98  
 981138 - *Arum italicum* 'Grandma'; Andy Upshaw, NC; 1 qt; 12/9/98  
 980833 - *Arum* 'Legs'; Pam Baggett, NC; 1 qt; 9/29/98  
 980218 - *Asarum campniforme*; Plant Delights, NC; 4" pot; 2/19/98  
 980531 - *Asarum canadense*; Niche Gardens, NC; 5/2/98  
 980460 - *Asarum kumageanum* 'Green Leaf Form'; TAvent, NC 4/30/98  
 980893 - *Asclepias fruticosa*; Portugal Instituto de Bot; seed; 9/5/98  
 980060 - *Asclepias purpurascens*; Shaw Arb, MO; seed; 1/13/98  
 980303 - *Asclepias tuberosa* Gay Butterflies Group; AHS; 3/11/98  
 980629 - *Asparagus schoberioides*; Chollipo Arb, Korea; seed; 5/30/98  
 980442 - *Asparagus* sp.; Morris Arboretum, PA; 4" pot; 4/29/98  
 980156 - *Asphodelus ramosus*; Roy. Hort. Soc., UK; seed; 2/11/98  
 980131 - *Aster cordifolius*; Niche Gardens, NC; seed; 2/4/98  
 980190 - *Aster divaricatus*; Pender s Nursery, NC; 1 gal; 2/12/98  
 980552 - *Aster laevis* 'Calliope'; Washfield N, Kent UK; 6 pot; 5/7/98  
 980249 - *Aster novae-angliae* 'Monte Cassino'; Hills of Haw, 2/27/98  
 980341 - *Athrotaxis cupressoides*; Forest Farm, OR; 2 tube; 3/26/98  
 980159 - *Athrotaxis X laxifolia*; Roy. Hort. Soc., UK; seed; 2/11/98  
 981034 - *Athyrium nipponicum* 'Pictum'; Pender N, NC; 1g; 10/23/98  
 980562 - *Barleria speciosa*; Logee s Greenhouse, CT; 2.5 pot; 5/7/98  
 980004 - *Bauhinia bevaroides*; David Creech, S. F. Austin Arb; 1/6/98  
 980684 - *Begonia grandis* 'Gentling Red'; Peter Gentling, NC; 2"; 6/11/98  
 980259 - *Begonia grandis* var. *alba*; Hills of the Haw, NC; 1g; 2/27/98  
 980518 - *Begonia sutherlandii*; Tony Avent, NC; 1 qt; 4/30/98  
 981119 - *Berberis fremontii*; Plant Delights, NC; liner; 12/9/98  
 980325 - *Berberis vernae*; Forest Farm, OR; 2 tube; 3/25/98  
 980318 - *Berberis X hybrido-gagnepainii* 'Red Jewel'; Forest Farm, OR;  
 981148 - *Berberis X rubrostilla*; Wilkerson Mill Gar, GA; 12/16/98  
 981049 - *Beschorneria* sp.; Neil Bell, OSU, OR; T73-80; liner; 11/5/98  
 980225 - *Betula costata*; Tony Avent, NC; 2 gal; 2/18/98  
 981114 - *Betula davurica*; Plant Delights, NC; 1 pt; 12/9/98  
 980783 - *Betula humilis*; Washington Park Arb, WA; seed; 8/7/98  
 980087 - *Betula nigra* 'Duraheat'; Select Trees; B&B; 1/13/98  
 980088 - *Betula nigra* 'Heritage'; Select Trees; B&B; 1/13/98  
 980103 - *Betula tianshanica*; NARGS seed; 1/28/98  
 980081 - *Blephilia ciliata*; Shaw Arboretum, MO; seed; 1/13/98  
 980084 - *Blephilia hirsutus*; Shaw Arboretum, MO; seed; 1/13/98  
 980870 - *Bocconia arborea*; Strybing Arb, CA; seed; 9/5/98  
 980250 - *Boltonia asteroides* 'Snowbank'; Hills of Haw, NC; 1g; 2/27/98  
 980696 - *Browallia americana*; Beds & Borders, NC; 1 qt; 6/12/98  
 980832 - *Brunnera macrophylla* 'Langtrees'; P. Baggett, NC; 1g; 9/29/98

## 1998 Accessions

- 980227 - *Brunnera macrophylla* 'Hadspen Cream'; TAvent; 2/19/98  
 981130 - *Buddleja asiatica*; Plant Delights, NC; 1 qt; 12/9/98  
 980560 - *Buddleja fallowiana*; Logee s Greenhouse, CT; 2.5pot;5/7/98  
 980063 - *Bumelia lanuginosa*; Shaw Arboretum, MO; seed; 1/13/98  
 980755 - *Caesalpinia mexicana*; Hannah Wende, Israel; seed; 7/15/98  
 980426 - *Calamagrostis brachytricha*; Hoffman's N. NC; 3g; 4/27/98  
 980424 - *Calamagrostis X acutiflora* 'Karl Foerster'; Hoffman's N. NC; 4/27/98  
 980425 - *Calamagrostis X acutiflora* 'Overdam'; Hoffman's N. NC; 4/27/98  
 981097 - *Calamintha nepeta* subsp. *glandulosa* 'White Cloud'; Hills of Haw, NC; 1 gal; 11/8/98  
 980554 - *Calibracoa* 'Cherry Pink'; Flora Design Assoc., PA; 4" 5/7/98  
 980501 - *Callirhoe involucrata* var. *tenuissima*; T. Avent, NC; 4/30/98  
 980600 - *Callirhoe tennussima*; Fairview GC, NC; 1 gal; 5/27/98  
 980509 - *Callisia rosea*; Tony Avent, NC; 1 qt; 4/30/98  
 980104 - *Callistemon macropunctatus*; NARGS; seed; 1/28/98  
 980105 - *Callistemon rigidus*; NARGS 1/28/98  
 980222 - *Callitris drummondii*; Tony Avent, NC; 1 gal; 2/18/98  
 980378 - *Calocedrus decurrens*; Mt. Pisgah Arb, Eugene OR; seed 4/08/98  
 980648 - *Calocedrus decurrens*; U. of California BG; seed; 5/30/98  
 980093 - *Calocassia leichtlinii* ssp. *Suksdorfii*; NE Wildfl Soc; 1/21/98  
 980987 - *Camellia sinense*; Mike Dirr, GA; 3" pot; 10/9/98  
 980497 - *Campanula glomerata* 'Joan Elliott'; T. Avent, NC; 2.5"; 4/30/98  
 980891 - *Campanula lusitanica*; Portugal Instituto Bot.; seed; 9/5/98  
 981100 - *Campanula punctata* 'Wedding Bells'; Hills of Haw, 11/8/98  
 980579 - *Capsicum* sp.; Park Seed, SC; seed; 5/23/98  
 980279 - *Carex morrowii*; Atlantic Ave. Lawn & Garden, NC; 3/7/98  
 980770 - *Carex morrowii*; Big Bloomers, NC; 7/29/98  
 980620 - *Carex morrowii* 'Variegata'; Smithfield GC, VA; 4" pot; 4/4/98  
 981143 - *Carex muskigumensis* 'Oehme'; Fall 98 PAX; 1gal; 12/15/98  
 980823 - *Carex oshimensis* 'Evergold'; Briggs N., WA; liner; 8/19/98  
 980470 - *Carex phyllocephala* 'Sparkler'; T. Avent, NC; 1 qt; 4/30/98  
 980830 - *Carex phyllocephala* 'Sparkler'; P. Baggett, NC; 1qt; 9/29/98  
 980411 - *Carex* sp. Larry Henson, NC; 1 qt; 4/25/98  
 981056 - *Carex* sp.; Neil Bell, OSU, OR; T75-10; liner; 11/5/98  
 981126 - *Carpinus* sp.; Plant Delights, NC; T72-57; 3" pot; 12/9/98  
 980723 - *Carpinus turczaninowii*; Dr. Mike Dirr, GA; 3 gal; 6/6/98  
 980342 - *Carpinus viminea*; Forest Farm, OR; 2 tube; 3/26/98  
 980320 - *Caryopteris odorata*; Forest Farm, OR; 1 gal; 3/25/98  
 980399 - *Castanea crenata*; donation Frank; 2 gal; 4/24/98  
 980400 - *Castanea henryi*; - donation Frank; 2 gal; 4/24/98  
 980106 - *Ceanothus americanus*; NARGS; seed; 1/28/98  
 980288 - *Ceanothus americanus*; Mt. Holyoke Coll. BG; seed; 3/11/98  
 980546 - *Ceanothus americanus*; Woodlanders N, SC; 1 gal; 5/7/98  
 980597 - *Ceanothus X delileanus* 'Gloire de Versailles'; 3 gal; 5/27/98  
 980538 - *Ceanothus X delileanus* 'Gloire de Versailles'; D. Bir, NC; 5/4/98  
 980818 - *Cedrus deodara* 'BBC'; Head Lee Nursery, SC; 1 qt; 8/9/98  
 980019 - *Cedrus deodara* 'Bill's Blue'; Head-Lee Nur, SC; 5g; 1/12/98  
 980819 - *Cedrus deodara* 'Bill's Blue'; Head Lee Nur SC; 1 qt; 8/9/98  
 980127 - *Cedrus deodara compacta*; Champion Nur, NC; 5g; 1/30/98  
 980797 - *Cedrus deodara* 'Silver'; Head Lee Nur, SC; 4 gal; 8/9/98  
 980339 - *Celtis tenuifolia*; Forest Farm, OR; 2 tube; 3/26/98  
 980203 - *Centranthus ruber* 'Albus'; Park Seed Co., SC; seed; 2/16/97  
 980771 - *Centranthus ruber* 'Albus'; Big Bloomers, NC; cell; 7/29/98  
 980549 - *Cephalanthus occidentalis*; Woodlanders Nur, SC; 1g; 5/7/98  
 980625 - *Cephalotaxus koreana*; Chollipo Arb, Korea; seed; 5/30/98  
 980507 - *Ceratostigma griffithii*; Tony Avent, NC; 1 qt; 4/30/98  
 980396 - *Cercidiphyllum japonicum* f. *pendulum*; PAX; 5g; 4/21/98  
 980353 - *Cercis canadensis* 'Covey'; Brotzman Nur; 3" pot; 3/28/98  
 980909 - *Cercis canadensis* 'Forest Pansy'; NCAN, FL nur; 5g; 9/26/98  
 980329 - *Cercis griffithii*; Forest Farm, OR; 2 tube; 3/25/98  
 980016 - *Cercis racemosa*; Head-Lee Nursery, SC; 1 gal; 1/12/98  
 980092 - *Cestrum elegans*; Nurseries Carolinana, SC; 1 gal; 1/16/98  
 980188 - *Chaenomales X superba* 'Jet Trail'; Pender s; 3 gal; 2/12/98  
 980790 - *Chamaecyparis obtusa* 'Filicoides'; HeadLee N, SC; 1g; 8/9/98  
 980036 - *Chamaecyparis obtusa* 'Gracilis'; HeadLee N, SC; 1g; 1/12/98  
 980792 - *Chamaecyparis obtusa* 'Gracilis'; HeadLee N, SC; 1g; 8/9/98  
 980020 - *Chamaecyparis obtusa* 'Nana Gracilis'; Head-Lee, SC; 1/12/98  
 980791 - *Chamaecyparis obtusa* 'Nana Lutea'; HeadLee SC; 1g; 8/9/98  
 980027 - *Chamaecyparis obtusa* 'Tetragonia Aurea'; HeadLee SC; 1/12/98  
 980017 - *Chamaecyparis obtusa* 'Torulosa'; Head-Lee, SC; 1g; 1/6/98  
 980816 - *Chamaecyparis obtusa* 'Torulosa'; Head-Lee SC; 1g; 8/9/98  
 980939 - *Chamaecyparis thyoides*; Mike Dirr, GA; 2" pot; 10/9/98  
 980942 - *Chamaecyparis thyoides*; Mike Dirr, GA; 2" pot; 10/9/98  
 980943 - *Chamaecyparis thyoides*; Mike Dirr, GA; 2" pot; 10/9/98  
 980944 - *Chamaecyparis thyoides*; M Dirr, GA; A 13047; 2" pot; 10/9/98  
 980946 - *Chamaecyparis thyoides*; M Dirr, GA; AA 102284; 2"; 10/9/98  
 980947 - *Chamaecyparis thyoides*; Mike Dirr, GA; 2" pot; 10/9/98  
 980948 - *Chamaecyparis thyoides*; M Dirr, GA; AA129681; 3"; 10/9/98  
 980949 - *Chamaecyparis thyoides*; Mike Dirr, GA; 3" pot; 10/9/98  
 980950 - *Chamaecyparis thyoides*; Mike Dirr, GA; 3" pot; 10/9/98  
 980952 - *Chamaecyparis thyoides*; Mike Dirr, GA; 3" pot; 10/9/98  
 980953 - *Chamaecyparis thyoides*; Mike Dirr, GA; 3" pot; 10/9/98  
 980954 - *Chamaecyparis thyoides*; Mike Dirr, GA; 3" pot; 10/9/98  
 980955 - *Chamaecyparis thyoides*; M Dirr, GA; 23 UL; 3"; 10/9/98  
 980957 - *Chamaecyparis thyoides*; M Dirr, GA; 23 WL; 3" pot; 10/9/98  
 980958 - *Chamaecyparis thyoides*; Mike Dirr, GA; 3" pot; 10/9/98  
 980959 - *Chamaecyparis thyoides*; Mike Dirr, GA; 3" pot; 10/9/98  
 980960 - *Chamaecyparis thyoides*; Mike Dirr, GA; 3" pot; 10/9/98  
 980961 - *Chamaecyparis thyoides*; Mike Dirr, GA; 3" pot; 10/9/98  
 980964 - *Chamaecyparis thyoides*; Mike Dirr, GA; 3" pot; 10/9/98  
 980951 - *Chamaecyparis thyoides* 'Aqua Velva'; M Dirr, GA; 3"; 10/9/98  
 980940 - *Chamaecyparis thyoides* 'Aqua Velva'; M Dirr, GA; 2"; 10/9/98  
 980945 - *Chamaecyparis thyoides* 'Aurea'; M Dirr, GA; 2"; 10/9/98  
 980438 - *Chamaecyparis thyoides* 'Blue Sport'; Scott Arb, PA; 4/29/98  
 980941 - *Chamaecyparis thyoides* 'Compacta Glauca'; M Dirr, GA; 10/9/98  
 980963 - *Chamaecyparis thyoides* 'Emily'; M Dirr, GA; 3"; 10/9/98  
 980126 - *Chamaecyparis thyoides* 'Ericoides Red Star'; Champion Nur 1/30/98  
 980962 - *Chamaecyparis thyoides* 'Glaucia Pendula'; M Dirr, GA; 10/9/98  
 980956 - *Chamaecyparis thyoides* 'Variegata'; M Dirr, GA; 3"; 10/9/98  
 980160 - *Chamaecytisus supinus*; Roy. Hort. Soc., UK; seed; 2/11/98  
 980608 - chard - Rainbow; Ruth Amick; 5/30/98  
 980415 - *Chasmanthium latifolium*; Hoffman s N, NC; 1 gal; 4/27/98  
 980493 - *Cheilanthes argentea*; Tony Avent, NC; 1 qt; 4/30/98  
 980495 - *Cheilanthes lanosa*; Tony Avent, NC; 1 qt; 4/30/98  
 980463 - *Chlorophytum majus*; Tony Avent, NC; 1 qt; 4/30/98  
 981051 - *Chrysactinia mexicana*; NBell, OSU, OR; T72-10; iner; 11/5/98  
 981099 - *Chrysanthemum* 'Venus'; Hills of Haw, NC; 1 gal; 11/8/98  
 980332 - *Chrysanthemum weyrichii* 'White Bomb'; Forest Farm, OR; 3/26/98  
 981043 - *Cilantro*; Wellspring, NC; seed; 11/1/98  
 980634 - *Cimifuga dahurica*; Chollipo Arb, Korea; seed; 5/30/98  
 980635 - *Cimifuga dahurica*; Chollipo Arb, Korea; seed; 5/30/98  
 980636 - *Cimifuga dahurica*; Chollipo Arb, Korea; seed; 5/30/98  
 980107 - *Cistus albidus*; N. Am. Rock Garden Society; seed; 1/28/98  
 980895 - *Cistus albidus*; Portugal Instituto de Botanica; seed; 9/5/98  
 980161 - *Cistus heterophyllus*; Roy. Hort. Soc., UK; seed; 2/11/98  
 980165 - *Cistus hirsutus* var. *psilosepalus*; R H S, UK; seed; 2/11/98  
 980162 - *Cistus incanus* ssp. *creticus*; RHS, UK; seed; 2/11/98  
 980108 - *Cistus laurifolius*; NARGS; seed; 1/28/98  
 980163 - *Cistus laurifolius*; Roy. Hort. Soc., England; seed; 2/11/98  
 980166 - *Cistus parviflorus*; Roy. Hort. Soc., England; seed; 2/11/98  
 980882 - *Cistus salviifolius*; Portugal Instituto de Bot; seed; 9/5/98  
 980164 - *Cistus* sp.; RHS; , England; seed; 2/11/98  
 981129 - *Citrus ichangense*; Plant Delights, NC; 3 qt; 12/9/98  
 980874 - *Clematis aristata*; Strybing Arb, CA; seed; 9/5/98  
 980526 - *Clematis cirrhosa*; Tony Avent, NC; 1 qt; 4/30/98  
 980568 - *Clematis cirrhosa*; Montrose Nursery, NC; 1 pt; 5/14/98  
 980194 - *Clematis* 'Duchess of Edinburgh'; Pender's, NC; 2g; 2/12/98  
 980228 - *Clematis* 'Duchess of Edinburgh'; Piedmont Carolina Nursery, NC; 5 gal; 2/20/98  
 980056 - *Clematis fremontii*; Shaw Arboretum, MO; seed; 1/13/98

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- 980193 - Clematis henryi; Pender s Nursery, NC; 2 gal; 2/12/98  
 980195 - Clematis paniculata; Pender s Nursery, NC; 2 gal; 2/12/98  
 980875 - Clematopsis scabiosifolia; Strybing Arb, CA; seed; 9/5/98  
 980682 - Clethra acuminata; Denny Werner, NC; seedlings; 6/11/98  
 981000 - Clethra alnifolia; Mike Dirr, GA; 1" pot; 10/9/98  
 981149 - Clethra alnifolia 'Chattanooga'; Wilkerson Mill, GA; 12/16/98  
 980994 - Clethra alnifolia 'Compacta'; Mike Dirr, GA; 1" pot; 10/9/98  
 980996 - Clethra alnifolia 'Creel's Calico'; M Dirr, GA; 1" pot; 10/9/98  
 980995 - Clethra alnifolia 'EarthShade'; M Dirr, GA; 1" pot; 10/9/98  
 981001 - Clethra alnifolia 'Fern Valley Late Sweet' Dirr, GA; 1"; 10/9/98  
 980991 - Clethra alnifolia 'Hokie Pink'; M Dirr, GA; 1" pot; 10/9/98  
 980997 - Clethra alnifolia 'Nova Scotia'; M Dirr, GA; 1" pot; 10/9/98  
 980998 - Clethra alnifolia 'Paniculata'; Mike Dirr, GA; 1" pot; 10/9/98  
 980999 - Clethra alnifolia 'Paniculata'; Mike Dirr, GA; 1" pot; 10/9/98  
 980992 - Clethra alnifolia 'Ruby Spice'; M Dirr, GA; 1" pot; 10/9/98  
 980993 - Clethra alnifolia 'Ruby Spice'; M Dirr, GA; 1" pot; 10/9/98  
 980683 - Clethra barbinervis; Denny Werner, NC; seedlings; 6/11/98  
 981103 - Clethra cavaleri; Plant Delights, NC; cell; 12/9/98  
 980807 - Cleyera japonica 'Fortunei'; Head Lee Nur, SC; 1 gal; 8/9/98  
 980619 - Coleus 'Black Frills';  
 980575 - Colocasia sp.; A&B Plants, Brown Summit NC; bulb; 05/21/98  
 980751 - Cordia podocephala; David Creech, TX; 1 pt; 7/14/98  
 980548 - Coreopsis integrifolia; Woodlanders Nursery, SC; 1qt; 5/7/98  
 980547 - Coreopsis palmata; Woodlanders Nursery, SC; 1 qt; 5/7/98  
 980347 - Cornus alba 'Kesselringii'; Forest Farm, OR; 2 tube; 3/26/98  
 980289 - Cornus amomum; Mt. Holyoke College BG; seed; 3/11/98  
 980587 - Cornus capitata; Atlanta BG, GA; 209M; 4" pot; 5/26/98  
 980571 - Cornus kousa 'Lustgarten Weeping'; Keith Cote; 3g; 05/21/98  
 980290 - Cornus racemosa; Mt. Holyoke College BG; seed; 3/11/98  
 980284 - Cornus rugosa; Mt. Holyoke College BG; seed; 3/11/98  
 980213 - Corydalis elata; Plant Delights, NC; 4" pot; 2/19/98  
 980519 - Corydalis elata; Tony Avent, NC; 1 qt; 4/30/98  
 980467 - Corydalis flexuosa 'China Blue'; T. Avent, NC; 1 qt; 4/30/98  
 980397 - Corydalis ochroleuca; David Duch; 3" pot; 3/31/98  
 980724 - Corylopsis sinensis var. calvescens f. veitchiana; M Dirr, GA;  
 980825 - Corylopsis spicata; Briggs Nursery, WA; liner; 8/19/98  
 980224 - Corylus chinensis; Tony Avent, NC; 2 gal; 2/18/98  
 980280 - Corylus cornuta; Mt. Holyoke College BG; seed; 3/11/98  
 981157 - Cotoneaster X watereri 'Rothschildiinaus'; Wilkerson Mill  
 981052 - Crataegus sp.; Neil Bell, OSU, OR; T74-3; liner; 11/5/98  
 981084 - Crocus chrysanthus 'Ard Schenk'; Daffodil Mart, CT; bulb  
 981085 - Crocus chrysanthus 'Cream Beauty' Daffodil Mart, CT; 11/7/98  
 981086 - Crocus chrysanthus 'Gypsy Girl'; Daffodil Mart, CT; 11/7/98  
 981083 - Crocus chrysanthus 'Moonlight'; Van Engelton, CT; 11/7/98  
 981164 - Crocus imperati 'de Jaeger'; Avon Bulbs, UK; bulb; 12/17/98  
 981166 - Crocus lavigatus 'Fontenayi'; Avon Bulbs, UK; bulb; 12/17/98  
 981167 - Crocus sieberi 'Bowles White'; Avon Bulbs, UK; bulb; 12/17/98  
 981088 - Crocus sieberi subsp. sublimis 'Tricolor'; The Daffodil Mart,  
 981089 - Crocus tommasinianus 'Barr's Purple'; The Daffodil Mart,  
 981087 - Crocus tommasinianus 'Ruby Giant'; The Daffodil Mart, CT;  
 981165 - Crocus tommasinianus 'White Well Purple'; Avon Bulbs, UK;  
 980436 - Cryptomeria japonica; Scott Arboretum, PA; 1 qt; 4/29/98  
 980439 - Cryptomeria japonica; Scott Arb, PA; cutting; 4/29/98  
 980786 - Cryptomeria japonica 'Ben Franklin'; Head-Lee SC; 1g; 8/9/98  
 980032 - Cryptomeria japonica 'Black Dragon' Head-Lee SC; 1/12/98  
 980785 - Cryptomeria japonica 'Black Dragon'; Head-Lee SC; 8/9/98  
 980015 - Cryptomeria japonica 'Elegans Aurea'; Head-Lee SC; 1/12/98  
 980028 - Cryptomeria japonica 'Giokumo'; Head-Lee, SC; 1g; 1/12/98  
 980788 - Cryptomeria japonica 'Giokumo'; Head-Lee, SC; 1g; 8/9/98  
 980030 - Cryptomeria japonica 'Globosa Nana'; Head-Lee SC; 1g; 1/12/98  
 980013 - Cryptomeria japonica 'Monstrosa'; Head-Lee, SC; 2g; 1/12/98  
 980026 - Cryptomeria japonica 'Sekkan-sugi'; Head-Lee, SC; 1g; 1/12/98  
 980784 - Cryptomeria japonica 'Sekkan-sugi'; Head-Lee SC; 1g; 8/9/98  
 981090 - Cryptomeria japonica 'Tarheel Blue'; Tarheel Native Trees  
 980789 - Cryptomeria japonica var. sinensis 'Purple Sentinel'  
 980031 - Cryptomeria japonica 'Yellow Twig'; Head-Lee SC; 1/12/98  
 980018 - Cryptomeria japonica 'Yoshino'; Head-Lee SC; 3g; 1/12/98  
 980787 - Cryptomeria japonica 'Yoshino'; Head-Lee SC; 1 g; 8/9/98  
 980861 - Cuphea aequipetala; Strybing Arb, CA; seed; 9/5/98  
 980862 - Cuphea micropetala; Strybing Arb, CA; seed; 9/5/98  
 980863 - Cuphea oreophila; Strybing Arb, CA; seed; 9/5/98  
 980864 - Cuphea pinetorum; Strybing Arb, CA; seed; 9/5/98  
 980021 - Cupressus arizonica var. glabra 'Silver Smoke'; Head-Lee  
 Nursery, SC; 3 gal; 1/12/98  
 980351 - Cupressus lusitania; Forest Farm, OR; 2 tube; 3/26/98  
 980649 - Cupressus sargentii; U. of California BG; seed; 5/30/98  
 980316 - Cynara cardunculus; Hills of the Haw, NC; 3 gal; 3/18/98  
 980885 - Cynara humilis; Portugal Instituto de Botanica; seed; 9/5/98  
 980216 - Cypripedium calceolus; Plant Delights, NC; 4" pot; 2/19/98  
 980567 - Cypripedium calceolus; Peg Fisher, NC; 1 gal; 5/14/98  
 980217 - Cypripedium henryi; Plant Delights, NC; 4" pot; 2/19/98  
 981019 - Cyrilla arida; Ted Stephens, SC; 1 gal; 10/9/98  
 980739 - Cyrilla racemiflora 'Small Leaf'; D Creech, TX; 1g; 7/14/98  
 980043 - Cyrtomium fortunei; Mich Gardens, NC; 1 gal; 1/11/98  
 981145 - Cytisus battandieri; subfamily fabioideae; Wilkerson Mill  
 980572 - Cytisus sp.; unknown cultivar; Keith Cote; 3 gal; 05/21/98  
 980576 - Dahlia 'Autumn Fairy'; Logan's, Raleigh NC; 1 gal; 05/21/98  
 980605 - Dahlia 'Bednall Beauty'; Beds & Borders, NC; 5/30/98  
 980849 - Dahlia coccinea; Strybing Arb, CA; seed; 9/5/98  
 980601 - Dahlia 'Fascination'; Beds & Borders, NC; 1 gal; 5/30/98  
 980698 - Dahlia mignon 'G. F. Hemerick'; Fairview GC, NC; 6/12/98  
 980699 - Dahlia mignon 'Red Riding Hood'; Fairview Garden Center,  
 980603 - Dahlia 'Patty'; Beds & Borders, NC; 1 gal; 5/30/98  
 980602 - Dahlia 'Roxy'; Beds & Borders, NC; 1 gal; 5/30/98  
 980604 - Dahlia 'Wissensee'; Beds & Borders, NC; 5/30/98  
 980109 - Daphne acutiloba; NARGS; seed; 1/28/98  
 980273 - Daphne bholua; Heronswood, WA; 3" pot; 3/4/98  
 980110 - Daphne giraldii; NARGS; seed; 1/28/98  
 980167 - Daphne giraldii; Roy. Hort. Soc., England; seed; 2/11/98  
 980299 - Daphne laureola; American Hort. Society; seed; 3/13/98  
 980356 - Daphne odora f. alba; Briarwood Nursery; 1 gal; 4/01/98  
 980111 - Daphne oleoides; NARGS; seed; 1/28/98  
 980168 - Daphne oleoides; Roy. Hort. Soc., England; seed; 2/11/98  
 980824 - Daphne X burkwoodii 'Brigg's Moonlight' Briggs WA 8/19/98  
 980475 - Daphne X burkwoodii 'Briggs Moonlight'; T Avent, 4/30/98  
 980735 - Daphniphyllum macropodum; D Creech, TX; 2" pot; 7/14/98  
 980373 - Darlingtonia californica; Mt. Pisgah Arb, OR; seed; 4/08/98  
 980650 - Darlingtonia californica; U of California BG; seed; 5/30/98  
 980610 - Datura metel; Dick Birr, NC; 5/30/98  
 980564 - Datura metel 'Yellow Queen'; S Todd, R Bailey, NC; 3"; 5/7/98  
 980672 - Datura sp.; 6/11/98  
 980112 - Decaisnea fargesii; NARGS; seed; 1/28/98  
 980731 - Delosperma cooperi; Niche Gardens, NC; 3" pot; 7/13/98  
 980085 - Delphinium carolinianum; Shaw Arb, MO; seed; 1/13/98  
 980062 - Delphinium carolinianum var. viridiflora; Shaw Arb, MO;  
 980883 - Delphinium pentagynum; Portugal Instituto de Bot; 9/5/98  
 980880 - Delphinium peregrinum; Portugal Instituto de Bot 9/5/98  
 980382 - Deutzia gracilis; Karen Nowell, NC; 3 gal; 4/08/98  
 981104 - Deutzia scabra 'Variegata'; Plant Delights, NC; cell; 12/9/98  
 980594 - Deutzia sp. Atlanta Botanical Garden, GA; 5/26/98  
 980593 - Deutzia X wilsonii; Atlanta BG, GA; 4" pot; 5/26/98  
 980055 - Dianthus sp.; Frank Sink; 2 gal; 1/11/98  
 980377 - Dicentra formosa ssp. oregana; Mt. Pisgah, OR; seed; 4/08/98  
 980477 - Dicentra scandens 'Athens Yellow'; T Avent, NC; 1qt; 4/30/98  
 980478 - Dicentra scandens 'Athens Yellow'; T Avent, NC; 1qt; 4/30/98  
 981098 - Dicentra 'Snowdrift'; Hills of Haw, NC; 1 gal; 11/8/98  
 981017 - Dichorisandra sp. Ted Stevens, NC; 2 gal; 10/9/98  
 980207 - Dichroa febrifuga; Plant Delights, NC; 1 gal; 2/19/98  
 980169 - Dierama igneum; Roy. Hort. Soc., England; seed; 2/11/98  
 980170 - Dierama jucundum; Roy. Hort. Soc., England; seed; 2/11/98  
 980779 - Dierama pulcherrimum; Washington Park, WA; seed; 8/7/98  
 980494 - Digitalis obscura; Tony Avent, NC; 1 qt; 4/30/98  
 980002 - Diospyros cathayana; D Creech, S F Austin Arb; 1/6/98  
 980298 - Disanthus cercidifolius; Tono Assoc Shidekobushi 3/12/98  
 981142 - Disanthus cercidifolius; PAX plant sale; 3 gal; 12/15/98

## 1998 Accessions

- 980469 - *Disporopsis fusco-picta*; Tony Avent, NC; 1 qt; 4/30/98  
 980465 - *Disporopsis pernyi*; Tony Avent, NC; 1 qt; 4/30/98  
 980271 - *Distylium racemosum* 'Akebono'; Heronswood, WA; 3", 3/4/98  
 980756 - *Dodonaea viscosa* 'Purpurea'; H Wende, Israel; seed; 7/15/98  
 980491 - *Dracunculus vulgaris*; Tony Avent, NC; 1 qt; 4/30/98  
 980189 - *Dryopteris erythrosora*; Pender's; 1 gal; 2/12/98  
 980407 - *Dryopteris erythrosora*; PAX Club, NCSU; 1 gal; 4/24/98  
 980482 - *Dryopteris erythrosora*; Tony Avent, NC; 1 qt; 4/30/98  
 981033 - *Dryopteris erythrosora*; Pender Nursery, NC; 1 g; 10/23/98  
 980487 - *Dryopteris filix-mas* 'Linearis Congesta'; T Avent, NC; 4/30/98  
 980492 - *Dryopteris sieboldii*; Tony Avent, NC; 1 qt; 4/30/98  
 980483 - *Dryopteris wallichiana*; Tony Avent, NC; 1 qt; 4/30/98  
 980853 - *Echeveria viridissima*; Strybing Arb, CA; seed; 9/5/98  
 980120 - *Echinacea angustifolia*; NARGS; seed; 1/28/98  
 980058 - *Echinacea simulata*; Shaw Arboretum, MO; seed; 1/13/98  
 980906 - *Echinops sphaerocephalus* 'Arctic Glow' Barefoot Path NC 9/30/98  
 981018 - *Edgeworthia chrysantha*; Ted Stevens, NC; 2 gal; 10/9/98  
 980272 - *Eleagnus viridis* var. *delavayi*; Heronswood, WA; 3", 3/4/98  
 980406 - *Elettaria cardamomum*; PAX Club, NCSU; 1 gal; 4/24/98  
 980686 - *Eleutherococcus gracilistylus*; Plt Delights, NC; 5 gal; 6/12/98  
 980295 - *Eleutherococcus sieboldianus* 'Variegatus'; Nurseries Caroliniana; 1 gal; 3/12/98  
 980879 - *Entelea arborescens*; Strybing Arb, CA; seed; 9/5/98  
 980473 - *Epimedium grandiflorum* 'Rose Queen'; T Avent, NC; 4/30/98  
 980522 - *Epimedium sempervirens*; Tony Avent, NC; 1 qt; 4/30/98  
 980527 - *Epimedium X perralchicum*; Tony Avent, NC; 1 qt; 4/30/98  
 980461 - *Epimedium X youngianum* 'Niveum'; T Avent, NC; 1 qt; 4/30/98  
 980464 - *Epimedium X youngianum* 'Roseum'; T Avent, NC; 1 qt; 4/30/98  
 981082 - *Eranthis hyemalis*; Van Engelman, CT; bulb; 11/7/98  
 980847 - *Eryngium pandanifolium*; Strybing Arb, CA; seed; 9/5/98  
 981058 - *Eryngium* sp.; Neil Bell, OSU, OR; T75-3; liner; 11/5/98  
 981064 - *Eryngium* sp.; Neil Bell, OSU, OR; T73-87; liner; 11/5/98  
 980340 - *Escallonia X exoniensis* 'Frades'; Forest Farm, OR; 3/26/98  
 980765 - *Eucomis comosa* 'Burgundy'; David Creech, TX; 1 qt; 7/15/98  
 980098 - *Euonymus americanus*; Cure Nursery, NC; 1 gal; 1/22/98  
 980743 - *Euonymus americanus* 'Narrowleaf'; D Creech, TX; 7/14/98  
 980064 - *Euonymus atropurpureus*; Shaw Arb, MO; seed; 1/13/98  
 980128 - *Euonymus atropurpureus*; Bartlett Arboretum; seed; 2/4/98  
 980239 - *Euonymus fortunei* 'Gracilis'; Plantworks, NC; cell; 2/27/98  
 980778 - *Euonymus fortunei*; Washington Park, WA; seed; 8/7/98  
 980261 - *Euonymus nanus* var. *turkestanicus*; Heronswood WA; 3/4/98  
 980687 - *Euonymus nanus* var. *turkestanicus*; Plant Delights; 6/12/98  
 980623 - *Euonymus planipes*; Chollipo Arb, Korea; seed; 5/30/98  
 980624 - *Euonymus planipes*; Chollipo Arb, Korea; seed; 5/30/98  
 980301 - *Eupatorium purpureum* ssp. *maculatum* 'Gateway' AHS 3/11/98  
 980606 - *Eupatorium rugosum* 'Chocolate'; Fairview GC, NC; 5/30/98  
 980931 - *Eupatorium rugosum* 'Chocolate'; Mich Gardens, NC; 10/7/98  
 981123 - *Eupatorium viburnoides*; Plant Delights, NC; cell; 12/9/98  
 980845 - *Euphorbia amygdaloides* 'Rubra'; Big Bloomer's, NC; 9/3/98  
 980355 - *Euphorbia characias* ssp. *wulfenii*; E\* Garden, NC; 3/26/98  
 980057 - *Euphorbia corollata*; Shaw Arb, MO; seed; 1/13/98  
 980888 - *Euphorbia maculata*; Portugal Instituto de Bot; seed; 9/5/98  
 980899 - *Euphorbia peplis*; Portugal Instituto de Bot; seed; 9/5/98  
 980697 - *Euphorbia* sp.; Niche Gardens, NC; 1 qt; 6/12/98  
 980844 - *Euphorbia X martinii*; Big Bloomer's, NC; 9/3/98  
 980220 - *Euptelea pleiosperma*; Tony Avent, NC; 1 gal; 2/18/98  
 980392 - *Euptelea polyandra*; Camellia Forest, NC; 3 gal; 4/10/98  
 980541 - *Euptelea polyandra*; Forestfarm, OR; 3 gal; 5/7/98  
 980357 - *Exochorda giraldii*; Karen Nowell, NC; 1 gal; 4/01/98  
 980232 - *Exochorda X macrantha* 'The Bride'; Piedmont Carolina NC 2/20/98  
 980508 - *Fabiana imbricata* f. *violaceae*; T Avent, NC; 1 qt; 4/30/98  
 980300 - *Fallugia paradoxa*; American Hort. Society; seed; 3/13/98  
 980130 - *Farfugium japonicum*; Bartlett Arboretum; seed; 2/4/98  
 980468 - *Farfugium japonicum* 'Aureomaculatum'; T Avent, NC; 4/30/98  
 980831 - *Farfugium japonicum* 'Crispatum'; P Baggett, NC; 9/29/98  
 981039 - *Fatsia japonica*; Pender Nursery, NC; B&B; 10/23/98  
 980045 - *Festuca glauca*; Mich Gardens, NC; 1 gal; 1/11/98  
 980458 - *Festuca glauca* 'Golden Toupee'; T Avent, NC; 1 qt; 4/30/98  
 981105 - *Ficus sarmentosa* var. *nipponica* 'Tyler Form'; Plant Delights, NC 12/9/98  
 981124 - *Ficus sarmentosa* var. *nipponica* X *carica* T Avent, NC; 12/9/98  
 980985 - *Fothergilla major*; Mike Dirr, GA; 1 " pot; 10/9/98  
 980986 - *Fothergilla major* 'Beaver Creek'; M Dirr, GA; 3" pot; 10/9/98  
 980352 - *Franklinia alatamaha*; Lamtree Farm, NC; 1 gal; 3/26/98  
 980685 - *Fraxinus chinensis* ssp. *rhynchophylla*; T Avent, NC; 6/12/98  
 980077 - *Fraxinus tomentosa*; Shaw Arboretum, MO; seed; 1/13/98  
 980614 - *Fuchsia* 'Ballerina Blau'; Landcraft Environment; 5/30/98  
 980868 - *Fuchsia jimenezii*; Strybing Arb, CA; seed; 9/5/98  
 980616 - *Fuchsia* 'Leineperle'; Landcraft Environment; 5/30/98  
 980612 - *Fuchsia* 'Mrs. John D. Fredericks' Beds & Borders, NC; 5/30/98  
 980615 - *Fuchsia* 'Nikki's Findling'; Landcraft Environment; 5/30/98  
 980613 - *Fuchsia* 'Schneckerl'; Landcraft Environment; 5/30/98  
 980869 - *Fuchsia woytkowski*; Strybing Arb, CA; seed; 9/5/98  
 980007 - *Gaillardia aestivalis* var. *winklerii*; D Creech, SF, Austin 1/6/98  
 980766 - *Gaillardia aestivalis* var. *winklerii*; D Creech, TX; 7/15/98  
 981031 - *Gardenia augusta* 'Chuck Hayes'; Taylor's N, NC; 0/23/98  
 981122 - *Gardenia augusta* 'Lynn Lowrey'; T Avent, NC; 12/9/98  
 980336 - *Garrya elliptica* 'James Roof'; Forest Farm, OR; 3/26/98  
 980246 - *Gaura lindheimeri* 'Whirling Butterflies'; Mich Gardens, NC; 2/27/98  
 980124 - *Genista sagittalis*; NARGS; seed; 1/28/98  
 980072 - *Gentiana flavida*; Shaw Arboretum, MO; seed; 1/13/98  
 980059 - *Gentiana puberulenta*; Shaw Arboretum, MO; seed; 1/13/98  
 980208 - *Gentiana saponaria*; Plant Delights, NC; 4" pot; 2/19/98  
 980577 - *Geranium* 'Brookside'; Plant Delights, NC; 05/21/98  
 980858 - *Geranium brycei*; Strybing Arb, CA; seed; 9/5/98  
 980553 - *Geranium oxonianum* 'Walter's Gift'; Washfield N, Kent England; 5/7/98  
 980252 - *Geranium sanguineum* 'Album'; Hills of Haw, NC; 2/27/98  
 980897 - *Gladiolus imbricatus*; Portugal Instituto de Bot; seed; 9/5/98  
 980773 - *Gomphrena* sp. Campbell Road Nursery, NC; 8/1/98  
 980201 - *Gypsophila elegans* 'Snow Fountain'; Cook's Garden 2/17/98  
 980689 - *Habranthus tubispathus texanus*; T Avent, NC; 4"; 6/12/98  
 980095 - *Halesia monticola* 'Silverbell'; Lamtree Farm, NC; 3g; 1/21/98  
 981115 - *Hechtia* sp.; Plant Delights, NC; YD #T75-15 97; 3"; 12/9/98  
 980842 - *Hedera colchica*; Wellspring Grocery, NC; cutting; 8/28/98  
 980296 - *Hedera helix*; heart shaped leaf; originally from Mick Bailey, NC; Marguerite Tyson, OR; cutting; 3/12/98  
 981040 - *Hedera helix*; adult form, probably 'Glacier'; UGA 10/28/98  
 980141 - *Hedera helix* 'Conglomerata'; Head Lee Nursery, SC; 2/5/98  
 980566 - *Hedera helix* 'Silbermueve'; Hedera Etcetera; 3" pot; 5/7/98  
 980240 - *Hedera helix* 'Treetop'; Richard Davis, VA; 1 gal; 2/26/98  
 980565 - *Hedera helix* 'Wingersburg'; Hedera Etcetera; 3" pot; 5/7/98  
 981107 - *Hedera helix* X *colchica*; Plant Delights, NC; cell; 12/9/98  
 980241 - *Hedera rhombea*; adult form; R Davis, VA; 3 gal; 2/26/98  
 980073 - *Hellenium flexuosum*; Shaw Arboretum, MO; seed; 1/13/98  
 980200 - *Helianthus annuus* 'Italian White'; Cook's Gar; seed; 2/17/98  
 980850 - *Helichrysum rutidolepis*; Strybing Arb, CA; seed; 9/5/98  
 980431 - *Helictotrichon sempervirens* 'Sapphire'; Hoffman's Nursery, NC; 1 gal; 4/27/98  
 981076 - *Helleborus*; Pine Knot Farm, VA; 11/7/98  
 981095 - *Helleborus*; Pine Knot Farm, VA; 6" pot; 11/8/98  
 981096 - *Helleborus*; Pine Knot Farm, VA; 6" pot; 11/8/98  
 980843 - *Helleborus argutifolius*; Big Bloomer's, NC; 1 qt; 9/3/98  
 981077 - *Helleborus atrorubens*; Pine Knot Farms, VA; 1 gal; 11/7/98  
 980125 - *Helleborus foetidus*; Edith Eddelman, NC; 3 gal; 1/29/98  
 981169 - *Helleborus foetidus*; Douglas Ruhren, NC; BR; 12/31/98  
 980265 - *Helleborus niger*; Seeds of Distinction; seed; 3/6/98  
 980935 - *Helleborus niger*; Mich Gardens, NC; 1 qt; 10/7/98  
 981074 - *Helleborus niger* 'Nell Lewis Strain' Pine Knot VA 1 qt 11/7/98



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- 980212 - *Helleborus niger* 'Potter's Wheel'; P. Delights, NC; 2/19/98  
 981080 - *Helleborus odoratus*; Pine Knot Farm, VA; 1 gal; 11/7/98  
 981093 - *Helleborus* 'Pamina'; Pine Knot Farm, VA; 6" pot; 11/8/98  
 980822 - *Helleborus* Royal Heritage Strain; Briggs N, WA; 8/19/98  
 981094 - *Helleborus* 'Snow Queen'; Pine Knot, VA; 6" pot; 11/8/98  
 980511 - *Helleborus thibetanus*; Tony Avent, NC; 1 qt; 4/30/98  
 981070 - *Helleborus* X *Ashwood* Gar hybrid; Pine Knot, VA; 1qt; 11/7/98  
 981071 - *Helleborus* X *Ashwood* Garden hybrid; Pine Knot, VA; 1 qt; 11/7/98  
 981075 - *Helleborus* X *Ashwood* Garden hybrid; Pine Knot Farms, VA; 11/7/98  
 981078 - *Helleborus* X *Ashwood* Garden hybrid; Pine Knot Farm, VA; 1 gal; 11/7/98  
 981079 - *Helleborus* X *Ashwood* Garden hybrid; Pine Knot Farms, VA; 1 gal; 11/7/98  
 981069 - *Helleborus* X *Pine Knot Plum* Strain; Pam's Early Purple Pine Knot Farm, VA; 1 qt; 11/7/98  
 980513 - *Helleborus* X *sternii*; Tony Avent, NC; 1 qt; 4/30/98  
 980834 - *Helleborus* X *sternii*; Pam Baggett, NC; 1 qt; 9/29/98  
 981072 - *Helleborus* X *sternii* 'Blackthorn Strain'; Pine Knot Farms, VA; 11/7/98  
 981073 - *Helleborus* X *sternii* 'Boughton Beauty Strain'; Pine Knot Farms, VA; 11/7/98  
 980504 - *Hemerocallis* 'Penny's Worth'; T Avent, NC; 1 qt; 4/30/98  
 980757 - *Heterolepis glauca*; Hannah Wende, Israel; seed; 7/15/98  
 980821 - *Heteropterys glabra*; Riverbanks Zoo, SC; 1 gal; 8/14/98  
 980044 - *Heuchera americana* 'Palace Passion'; Mich G, NC; 1g; 11/11/98  
 980932 - *Heuchera* 'Frosty'; Mich Gardens, NC; 1 gal; 10/7/98  
 980079 - *Heuchera richardsonii*; Shaw Arb, MO; seed; 1/13/98  
 980481 - *Heuchera* 'Strawberry Swirl'; Tony Avent, NC; 1 qt; 4/30/98  
 980245 - *Hibiscus* 'Blue River II'; Mich Gardens, NC; 2 gal; 2/27/98  
 980459 - *Hieracium lanatum*; Tony Avent, NC; 1 qt; 4/30/98  
 980171 - *Holodiscus discolor*; Roy. Hort. Soc., England; seed; 2/11/98  
 980884 - *Hyacinthoides italica*; Portugal Instituto de Bot; seed; 9/5/98  
 980360 - *Hyacinthus orientalis*; Edith Eddleman's parents; 4/02/98  
 980192 - *Hydrangea anomala* subsp. *petiolaris*; Penders, NC; 2/12/98  
 980264 - *Hydrangea arborescens* 'Annabelle'; Apex Nur, NC; 3g; 2/27/98  
 981036 - *Hydrangea arborescens* 'Annabelle'; Pender, NC; 3g; 10/23/98  
 980596 - *Hydrangea aspera*; Villosa Group; T Lasseigne, NC; 5/27/98  
 980229 - *Hydrangea macrophylla* 'Mariesii'; Piedmont Carolina  
 981037 - *Hydrangea macrophylla* 'Mariesii Variegata'; Pender Nursery, NC; 3 gal; 10/23/98  
 980230 - *Hydrangea macrophylla* 'Teller White'; Piedmont Carolina  
 980988 - *Hydrangea paniculata* 'Chantilly Lace'; M Dirr, GA; 10/9/98  
 980275 - *Hydrangea paniculata* 'Webb's Grandiflora'; Heronswood,  
 980187 - *Hydrangea quercifolia*; Pender s; 10 gal; 2/12/98  
 981153 - *Hydrangea quercifolia* 'Harmony'; Wilkerson Mill Gardens  
 980595 - *Hydrangea serrata*; T. Lasseigne, NC; ; 5 gal; 5/27/98  
 981154 - *Hydrangea umbellata*; Wilkerson Mill Gar., GA; 12/16/98  
 980176 - *Hypericum androsaemum* 'Albury Purple'; RHS UK; 2/11/98  
 980172 - *Hypericum bellum* ssp. *latisepalum*; RHS UK; seed; 2/11/98  
 980173 - *Hypericum henryi* ssp. *uraloides*; RHS, England; 2/11/98  
 981380 - *Hypericum* 'Hidcote'; Cure Nursery, NC; 2/12/98  
 980174 - *Hypericum hircinum*; RHS, England; seed; 2/11/98  
 980175 - *Hypericum hyssopifolium*; RHS, England; seed; 2/11/98  
 980177 - *Hypericum pseudohenryi*; RHS, England; seed; 2/11/98  
 981024 - *Hypericum* 'Purple Fountain'; Gossler Farms OR; 1g; 0/23/98  
 980281 - *Hypericum virginianum*; Mt. Holyoke BG seed; 3/11/98  
 980315 - *Hypericum* X *inodorum* 'Summergold'; Big Bloomer's, NC; 3/18/98  
 980202 - *Hypoestes* 'Splash Select Red'; Park Seed, SC; seed; 2/16/97  
 980037 - *Iberis sempervirens*; Mich Gardens, NC; 1/11/98  
 980924 - *Ilex aquifolium* 'Atlas'; Taylor's Nursery, NC; 3 gal; 10/7/98  
 980915 - *Ilex aquifolium* 'Belgica'; Taylor's Nur, NC; 3 gal; 10/7/98  
 980918 - *Ilex aquifolium* 'Bicolor'; Taylor's Nur, NC; 3 gal; 10/7/98  
 980910 - *Ilex aquifolium* 'Ferox'; Taylor's Nursery, NC; 3 qt; 10/7/98  
 980926 - *Ilex aquifolium* 'Firecracker'; Taylor's Nur, NC; 3 g; 10/7/98  
 980912 - *Ilex aquifolium* 'Gold Flush'; Taylor's Nur. NC; 3 g; 10/7/98  
 980914 - *Ilex aquifolium* 'Handsworth'; Taylor's Nur, NC; 3g; 10/7/98  
 980919 - *Ilex aquifolium* 'Hascombensis'; Taylor's NC; 3g; 10/7/98  
 980917 - *Ilex aquifolium* 'Intermedia'; Taylor's Nur NC; 3g; 10/7/98  
 980921 - *Ilex aquifolium* 'Latispina'; Taylor's, NC; 3 gal; 10/7/98  
 980927 - *Ilex aquifolium* 'Recurva'; Taylor's Nur, NC; 3 gal; 10/7/98  
 980920 - *Ilex aquifolium* 'Rubricaulis Aurea'; Taylor's NC; 3g; 10/7/98  
 980922 - *Ilex aquifolium* 'Scotch Gold'; Taylor's NC; 3 gal; 10/7/98  
 980923 - *Ilex aquifolium* 'Short Spru'; Taylor's, NC; 3 gal; 10/7/98  
 980913 - *Ilex aquifolium* 'Silvary'; Taylor's Nursery, NC; 3g; 10/7/98  
 980808 - *Ilex crenata* 'Sky Pencil'; Head Lee Nursery, SC; 1 g; 8/9/98  
 980011 - *Ilex decidua*; David Creech, Stephen F. Austin Arb; 1/6/98  
 980971 - *Ilex glabra*; Mike Dirr, GA; 1 " pot; 10/9/98  
 980972 - *Ilex glabra*; Mike Dirr, GA; 1 " pot; 10/9/98  
 980974 - *Ilex glabra*; Mike Dirr, GA; 1 " pot; 10/9/98  
 980975 - *Ilex glabra*; Mike Dirr, GA; 1 " pot; 10/9/98  
 980980 - *Ilex glabra*; Mike Dirr, GA; 1 " pot; 10/9/98  
 980981 - *Ilex glabra*; Mike Dirr, GA; 1 " pot; 10/9/98  
 980968 - *Ilex glabra* 'Cape Cod'; Mike Dirr, GA; 1 " pot; 10/9/98  
 980984 - *Ilex glabra* 'Cape Cod'; Mike Dirr, GA; 1 " pot; 10/9/98  
 980976 - *Ilex glabra densa*; Mike Dirr, GA; 1 " pot; 10/9/98  
 980982 - *Ilex glabra densa*; Mike Dirr, GA; 1 " pot; 10/9/98  
 980983 - *Ilex glabra densa*; Mike Dirr, GA; 1 " pot; 10/9/98  
 980969 - *Ilex glabra* 'Hawks Ridge'; Mike Dirr, GA; 1 " pot; 10/9/98  
 980966 - *Ilex glabra* 'Ivory Queen'; Mike Dirr, GA; 1 " pot; 10/9/98  
 980973 - *Ilex glabra* 'Nigra'; Mike Dirr, GA; 1 " pot; 10/9/98  
 980967 - *Ilex glabra* 'Nordic'; Mike Dirr, GA; 1 " pot; 10/9/98  
 980970 - *Ilex glabra* 'Nova Scotia'; Mike Dirr, GA; 1 " pot; 10/9/98  
 980979 - *Ilex glabra* 'Shamrock'; Mike Dirr, GA; 1 " pot; 10/9/98  
 980977 - *Ilex glabra* 'Winter Wine'; Mike Dirr, GA; 1 " pot; 10/9/98  
 980978 - *Ilex glabra* 'Woodlander's Compact'; M Dirr, GA; 1 " ; 10/9/98  
 980395 - *Ilex latifolia*; PAX Club, NCSU; 3 gal; 4/21/98  
 980006 - *Ilex myrtifolia* 'Woodlander's Weeping'; D Creech, TX; 1/6/98  
 980734 - *Ilex myrtifolia* 'Woodlander's Weeping'; D Creech, TX; 7/14/98  
 980763 - *Ilex opaca*; David Creech, TX; 1 gal; 7/15/98  
 981047 - *Ilex opaca* 'Pearle Le Clair'; D Kelso, NC; 5 gal; 11/2/98  
 980437 - *Ilex opaca* 'Sunburst'; Scott Arboretum, PA; 1 qt; 4/29/98  
 981150 - *Ilex serrata* 'Sundrops'; Wilkerson Mill, GA; 1 gal; 12/16/98  
 980003 - *Ilex* sp.; D Creech, Stephen F. Austin Arb; NA28255; 1/6/98  
 980009 - *Ilex* sp.; David Creech, Stephen F. Austin Arb; 1/6/98  
 980738 - *Ilex* sp.; David Creech, TX; NA28255; 1 gal; 7/14/98  
 980760 - *Ilex* sp.; David Creech, TX; Selection #4; 1 gal; 7/15/98  
 980929 - *Ilex spinigera*; Taylor's Nursery, NC; 3 gal; 10/7/98  
 980930 - *Ilex spinigera*; Taylor's Nursery, NC; 3 gal; 10/7/98  
 980928 - *Ilex* 'Venus'; Taylor's Nursery, NC; 3 gal; 10/7/98  
 980322 - *Ilex verticillata* 'Winter Gold'; Forest Farm, OR; 3/25/98  
 980262 - *Ilex vomitoria* 'Nana'; Adcock's Nursery; 3 gal; 2/27/98  
 980911 - *Ilex* X *altacrerensis* 'Camelliifolia'; Taylor's, NC; 3g; 10/7/98  
 980916 - *Ilex* X *altacrerensis* 'Green Maid'; Taylor's, NC; 3 g; 10/7/98  
 980925 - *Ilex* X *altacrerensis* 'Louise'; Taylor's, NC; 3 gal; 10/7/98  
 980394 - *Ilex* X *attenuata* 'Foster's #2'; PAX Club; 3 gal; 4/21/98  
 980488 - *Impatiens omeiana*; Tony Avent, NC; 1 qt; 4/30/98  
 980274 - *Indigofera pendula*; Heronswood, OR; 3" pot; 3/4/98  
 980772 - *Ipheion* sp.; Doris Huneycutt, NC; bulbs; 7/30/98  
 980762 - *Ipomoea batatas* 'Black Beauty'; D Creech, TX; 1 g; 7/15/98  
 980617 - *Ipomoea batatas* 'Ivory Jewel'; Landcraft Environ; 5/30/98  
 980673 - *Ipomoea batatas* 'Ivory Jewel'; 6/11/98  
 981134 - *Ipomoea batatas* 'Summer Frost'; T Avent, NC; 1qt; 12/9/98  
 980542 - *Ipomoea carnea* subsp. *fistulosa*; Woodlanders, SC; 1g; 5/7/98  
 981102 - *Ipomoea macrorhiza*; Tho Jensen Archer, FL; seed; 11/8/98  
 981081 - *Iris danfordiae*; Van Engelson, CT; bulb; 11/7/98  
 980651 - *Iris douglasiana*; U of California Botanic Gar; seed; 5/30/98  
 980486 - *Iris lazica*; Tony Avent, NC; 1 qt; 4/30/98  
 980628 - *Iris pallasii* var. *chinensis*; Chollipo Arb, Korea; seed; 5/30/98  
 980247 - *Iris siberica* 'White Swirl'; Mich Gardens, NC; 1 gal; 2/27/98  
 980679 - *Iris* sp. 1; Edith's parents; 6/11/98  
 980678 - *Iris* sp. 2; Betty Perry; 6/11/98

## 1998 Accessions

- 981168 - *Iris unguicularis*; Douglas Ruhren, NC; 1 clump; 12/17/98  
 980607 - *Iris virginica* 'Pink Haze'; Fairview GC, NC; 5/30/98  
 981023 - *Itea* 'Little Henry'; Gossler Farms OR; 1 gal; 10/23/98  
 980583 - *Jasminum* sp.; Atlanta Botanical Gar, GA; 4" pot; 5/26/98  
 980401 - *Juglans ailanthifolia*; Frank; 1 gal; 4/24/98  
 980652 - *Juniperus occidentalis*; Uof California BG; seed; 5/30/98  
 980372 - *Juniperus occidentalis* var. *occidentalis*; Mt. Pisgah, Eugene OR; seed; 4/08/98  
 980889 - *Juniperus oxycedrus*; Portugal Instituto de Bot; seed; 9/5/98  
 980892 - *Juniperus phoenicea*; Portugal Instituto de Bot; seed; 9/5/98  
 980223 - *Juniperus virginiana*; Tony Avent, NC; 1 gal; 2/18/98  
 980827 - *Juniperus virginiana* var. *silicicola* 'Brodie'; Head Lee Nursery, SC; 2g; 8/9/98  
 980878 - *Keckiella cordifolia*; Strybing Arb, CA; seed; 9/5/98  
 980856 - *Kennedia rubicunda*; Strybing Arb, CA; seed; 9/5/98  
 980314 - *Kerria japonica* 'Kin Kan'; Barefoot Nur, NC; 3 gal; 3/18/98  
 981379 - *Kerria japonica* 'Kin Kan'; Edith Eddleman, NC; BR; 4/8/98  
 980846 - *Kniphofia pumila*; Strybing Arb, CA; seed; 9/5/98  
 980574 - *Lablab purpureus*; 1 qt; 05/21/98  
 980039 - *Lamium maculatum* 'White Nancy' Mich Gar, NC; 1g; 1/11/98  
 980376 - *Lathyrus japonicus*; Mt. Pisgah, Eugene OR; seed; 4/08/98  
 980354 - *Lavandula* 'Alba'; Shepards; 3" pot; 3/28/98  
 980410 - *Lavandula angustifolia* 'Rosea'; Park Seed, SC; seed; 4/25/98  
 980703 - *Lavandula stoechas* subsp. *pedunculata* 'Avonview' Plant Delights; 6/12/98  
 980704 - *Lavandula stoechas* subsp. *pedunculata* 'Wine Red'; Plant Delights; 6/12/98  
 980866 - *Lavatera assurgentiflora*; Strybing Arb, CA; seed; 9/5/98  
 980744 - *Lavatera thuringiaca* 'Barnsley'; D Creech, TX; 1 pt; 7/14/98  
 980485 - *Lepisorus bicolor*; Tony Avent, NC; 1 qt; 4/30/98  
 980041 - *Leucanthemum Xsuperbum* 'Becky' Mich Gar, NC; 1g; 1/11/98  
 980178 - *Leucothoe walteri*; Roy. Hort. Soc., England; seed; 2/11/98  
 980937 - *Leycesteria formosa*; Bramblewood Nur, NC; 1 gal; 10/8/98  
 980429 - *Leymus arenarius*; Hoffman s Nursery, NC; 3 gal; 4/27/98  
 980428 - *Leymus arenarius* 'Blue Dune'; Hoffman's, NC; 1g; 4/27/98  
 980066 - *Liatris cylindracea*; Shaw Arboretum, MO; seed; 1/13/98  
 980412 - *Liatris* sp.; Van Bourgondien, NY; bulb; 4/18/98  
 980443 - *Ligularia dentata*; Morris Arboretum, PA; 4" pot; 4/29/98  
 980180 - *Ligustrum delavayanum*; Roy. Hort. Soc., UK; seed; 2/11/98  
 980269 - *Ligustrum delavayanum*; Heronswood, WA; 3" pot; 3/4/98  
 980569 - *Ligustrum quihouii*; Montrose Nursery, NC; 1 qt; 5/14/98  
 980369 - *Lilium columbianum*; Mt. Pisgah, Eugene OR; seed; 4/08/98  
 980379 - *Lilium columbianum*; Mt. Pisgah, Eugene OR; seed; 4/08/98  
 980630 - *Lilium hansonii*; Chollipo Arboretum, Korea; seed; 5/30/98  
 980555 - *Lilium 'Muscadet'*; Barnes Supply, NC; bulb; 5/7/98  
 980556 - *Lilium regale*; Barnes Supply, NC; bulb; 5/7/98  
 980524 - *Lilium superbum*; Tony Avent, NC; 1 qt; 4/30/98  
 980631 - *Lilium tsingtauense*; Chollipo Arb, Korea; seed; 5/30/98  
 980570 - *Lindera angustifolia*; Wave Hill, NY; 10 gal; 05/18/98  
 980769 - *Lindera salicifolia*; Todd Lasseigne, NC; 3" pot; 7/21/98  
 980581 - *Liriope spicata* 'Pee Dee Ingot'; T Lasseigne, NC; 1qt; 5/26/98  
 980343 - *Lithocarpus densiflorus* var. *echinoides*; Forest Farm, OR; 3/26/98  
 980293 - *Lobelia cardinalis*; Mt. Holyoke College BG; seed; 3/11/98  
 980530 - *Lobelia cardinalis*; Big Bloomers, NC; 5/2/98  
 980480 - *Lobelia cardinalis* 'Rose Beacon' Tony Avent, NC; 1qt; 4/30/98  
 980529 - *Lobelia* 'Queen Victoria Scarlet'; Big Bloomers, NC; 5/2/98  
 980413 - *Lobelia* sp.; Campbell Nursery, NC; 4/18/98  
 980479 - *Lobelia* 'Summit Snow'; Tony Avent, NC; 1 qt; 4/30/98  
 980873 - *Loeselia coerulesa*; Strybing Arb, CA; seed; 9/5/98  
 980761 - *Lonicera alseuosmoides*; David Creech, TX; 1 gal; 7/15/98  
 980777 - *Lonicera chrysantha*; Washington Park Arb, WA; 8/7/98  
 980598 - *Lonicera* 'Harlequin'; 1 qt; 5/27/98  
 980181 - *Lonicera henryi*; Roy. Hort. Soc., England; seed; 2/11/98  
 980722 - *Lonicera japonica* 'Michelle's Rose'; Dr. M Dirr, GA; 6/6/98  
 980539 - *Lonicera* 'Mandarin'; Dick Bir, NC; liner; 5/4/98  
 980001 - *Lonicera* 'Pam's Pink'; David Creech, S F. Austin Arb; 1/6/98  
 981106 - *Lonicera prolifera*; Plant Delights, NC; cell; 12/9/98  
 981156 - *Lonicera sempervirens* 'Alabama Crimson'; Wilkerson Mill Gardens, GA; 12/16/98  
 980584 - *Lonicera* sp.; Atlanta Botanical Garden, GA; 4" pot; 5/26/98  
 980589 - *Lonicera yunnanensis*; Atlanta BG, GA; 005J; 4" pot; 5/26/98  
 980719 - *Loropetalum chinense* 'Bicolor'; Dr. M Dirr, GA; 6/6/98  
 980717 - *Loropetalum chinense* 'Blush'; Dr. M Dirr, GA; 6/6/98  
 980716 - *Loropetalum chinense* 'Burgundy'; Dr. M Dirr, GA; 6/6/98  
 980710 - *Loropetalum chinense* 'Compacta'; Dr. M Dirr, GA; 6/6/98  
 980708 - *Loropetalum chinense* 'Daybreak's Flame' M Dirr, GA 6/6/98  
 980721 - *Loropetalum chinense* Fire Dance TM; M Dirr, GA; 6/6/98  
 980718 - *Loropetalum chinense* 'Pipa's Red'; M Dirr, GA; 6/6/98  
 980709 - *Loropetalum chinense* Plum Delight TM; M Dirr, GA; 6/6/98  
 980707 - *Loropetalum chinense* Razzle Berri TM; M Dirr, GA; 6/6/98  
 980715 - *Loropetalum chinense* 'Ruby'; Dr. Mike Dirr, GA; 6/6/98  
 980713 - *Loropetalum chinense* 'Sizzlin' Pink'; M Dirr, GA; 6/6/98  
 980720 - *Loropetalum chinense* Snow Dance TM; M Dirr, GA; 6/6/98  
 980714 - *Loropetalum chinense* 'Suzanne' M Dirr, GA; 6/6/98  
 980712 - *Loropetalum chinense* var. *rubrum*; Piroche M Dirr, GA; 6/6/98  
 980711 - *Loropetalum chinense* 'Variegata'; M Dirr, GA; 3" pot; 6/6/98  
 980795 - *Loropetalum chinense* 'Zhuzhou Fuchsia'; Head Lee 8/9/98  
 980674 - *Lotus berthelotii*; 6/11/98  
 980375 - *Lupinus arboreus*; Mt. Pisgah Arb, Eugene OR; 4/08/98  
 980775 - *Luzula parviflora*; Washington Park Arb, WA; seed; 8/7/98  
 980179 - *Lycesteria formosa*; Roy. Hort. Soc., England; seed; 2/11/98  
 980182 - *Lycium barbarum*; Roy. Hort. Soc., England; seed; 2/11/98  
 980199 - *Lycopersicon esculentum* 'White Wonder' 2/17/98  
 980292 - *Lyonia ligustrina*; Mt. Holyoke College BG; seed; 3/11/98  
 980285 - *Lysimachia terrestris*; Mt. Holyoke College BG 3/11/98  
 980890 - *Macfadyena unguis-cati*; Portugal Instituto de Bot; 9/5/98  
 980633 - *Magnolia biondii*; Chollipo Arb, Korea; seed; 5/30/98  
 980729 - *Magnolia biondii*; Dr. Mike Dirr, GA; 2 gal; 6/30/98  
 980813 - *M. grandiflora* 'Bracken's Brown Beauty'; Head Lee; 8/9/98  
 980826 - *M. grandiflora* 'Coco'; Head Lee Nursery, SC; 2 gal; 8/9/98  
 980811 - *M. grandiflora* 'D. D. Blanchard'; Head Lee, SC; 8/9/98  
 980029 - *M. grandiflora* 'Edith Bogue'; Head-Lee, SC; 2 gal; 1/12/98  
 980809 - *M. grandiflora* 'Edith Bogue'; Head Lee, SC; 2 gal; 8/9/98  
 980046 - *M. grandiflora* 'Ferruginea'; Head-Lee SC; 2 gal; 1/11/98  
 980051 - *M. grandiflora* 'Glen St. Mary'; Head-Lee SC; 2 gal; 1/11/98  
 980133 - *M. grandiflora* 'Harold Poole'; Head-Lee, SC; 2/5/98  
 980134 - *M. grandiflora* 'Highway Way'; Head-Lee, SC; 1 gal; 2/5/98  
 980035 - *M. grandiflora* 'Little Gem'; Head-Lee SC; 2 gal; 1/12/98  
 980814 - *M. grandiflora* 'Little Gem'; Head Lee SC; 2 gal; 8/9/98  
 980815 - *M. grandiflora* 'Maryland'; Head Lee SC; 2 gal; 8/9/98  
 980812 - *M. grandiflora* 'Samuel Sommer'; Head Lee SC; 8/9/98  
 980810 - *M. grandiflora* 'Simme's Select'; Head Lee, SC; 2 gal; 8/9/98  
 980050 - *M. grandiflora* 'Simmes Select'; Head-Lee SC; 2 gal; 1/11/98  
 980023 - *M. grandiflora* 'Victoria'; Head-Lee SC; 2 gal; 1/12/98  
 980730 - *M. officinalis*; Dr. Mike Dirr, GA; 2 gal; 6/30/98  
 981110 - *M. sieboldii*; Plant Delights, NC; 12/9/98  
 980297 - *M. stellata*; Tono Association for Shidekobushi Co; 3/12/98  
 980135 - *M. virginiana* 'Silver Savage'; Head-Lee SC; 7 g; 2/5/98  
 981131 - *Magnolia* 'Willowood'; Plant Delights, NC; 12/9/98  
 980776 - *Mahonia nervosa*; Washington Park Arb, WA; seed; 8/7/98  
 980321 - *Mahonia repens*; Forest Farm, OR; 2 tube; 3/25/98  
 981048 - *Manfreda* sp.; Neil Bell, OSU, OR; T73-89; liner; 11/5/98  
 981050 - *Manfreda* sp.; Neil Bell, OSU, OR; T74-39; liner; 11/5/98  
 981067 - *Matelea* sp.; Neil Bell, OSU, OR; T73-27; liner; 11/5/98  
 980121 - *Matelia obliqua*; NARGS; 1/28/98  
 981042 - *Medicago sativa*; Wellspring, NC; seed; 11/1/98  
 980113 - *Melianthus major*; NARGS; seed; 1/28/98  
 980898 - *Melianthus major*; Portugal Instituto de Bot; 9/5/98  
 980642 - *Meliosma myriantha*; Chollipo Arboretum, Korea; 5/30/98  
 980365 - *Mentha pulegium*; Jane Heilman, NC; 4/07/98  
 980393 - *Mentha pulegium*; Jane Heilman, NC; 4/21/98  
 980287 - *Menzesia pilosa*; Mt. Holyoke College BG; seed; 3/11/98  
 980210 - *Mertensia maritima*; Plant Delights, NC; 4 pack; 2/19/98

# 1998 Accessions

- 981144 - *Michelia* 'Jack Fogg'; Fall 98 PAX plant sale; 3 gal; 12/15/98  
980742 - *Michelia* *mandinana*; David Creech, TX; 1 gal; 7/14/98  
980764 - *Michelia* sp.; David Creech, TX; 1 gal; 7/15/98  
980008 - *Milletia* *japonica* 'Alba' D Creech, S.F. Austin Arbo; 1/6/98  
981030 - *Miscanthus* *sinensis* 'Adagio'; Hoffman s Nur, NC 4/27/98  
980421 - *M. sinensis* var. *condensatus* 'Cabaret' Hoffman's, NC4/27/98  
980420 - *Miscanthus* *sinensis* var. *condensatus* 'Cosmopolitan';  
980867 - *Monochaetum* *tenellum*; Strybing Arb, CA; seed; 9/5/98  
980417 - *Muhlenbergia* *capillaris*; Hoffman s Nursery, NC; 4/27/98  
980418 - *Muhlenbergia* *diversa*; Hoffman s Nursery, NC; 4/27/98  
980419 - *Muhlenbergia* *lindheimeri*; Hoffman s Nursery, NC; 4/27/98  
980871 - *Muhlenbergia* *macroura*; Strybing Arb, CA; seed; 9/5/98  
980586 - *Myrsine* *semiserrata*; Atlanta Bot. Gar, GA; 178M; 5/26/98  
981108 - *Myrtus* *communis* 'Ft. Worth'; Plant Delights, NC; 12/9/98  
980136 - *Nandina* *domestica* 'Harbour Dwarf'; Head Lee, SC; 2/5/98  
981160 - *Narcissus* *jonquilla*; Douglas Ruhren, NC; bulb; 12/17/98  
980896 - *Narcissus* *papyraceus*; Portugal Instituto de Bot; 9/5/98  
980359 - *Narcissus* *pseudonarcissus* ssp. *moschatus*; DRuhren4/02/98  
981092 - *Narcissus* 'Rijnveld's Early Sensation' T. Stephens, SC; 12/9/98  
981137 - *Narcissus* 'Rijnveld's Early Sensation'; Daff Mart, CT; 12/1/98  
981163 - *Narcissus* X *tenuis*; Douglas Ruhren, NC; bulb; 12/17/98  
980578 - *Narissus* sp.; James & Catherine Watson, NC; 04/30/98  
981068 - *Nectandra* *salicifolia*; Neil Bell, OSU, OR; T72-82; 11/5/98  
980282 - *Nemopanthus* *mucronatus*; Mt. Holyoke College BG 3/11/98  
980283 - *Nemopanthus* *mucronatus*; Mt. Holyoke Coll. BG 3/11/98  
980334 - *Nepeta* *nuda*; Forest Farm, OR; 2 tube; 3/26/98  
980244 - *Nepeta* 'Six Hills Giant'; Mich Gardens, NC; 1 gal; 2/27/98  
980144 - *Nolina* *durangensis*; Plant Delights, NC; 1 qt; 2/10/98  
980147 - *Nolina* *microcarpa*; Plant Delights, NC; 6 pot; 2/10/98  
980145 - *Nolina* *parryi*; Plant Delights, NC; 6 pot; 2/10/98  
980559 - *Ocimum* *tenuiflorum*; Logee Greenhouse, CT; 5/7/98  
980366 - *Oemleria* *cerasiformis*; Mt. Pisgah Arb, Eugene OR; 4/08/98  
980067 - *Oenothera* *macrocarpa*; Shaw Arboretum, MO; 1/13/98  
980453 - *Oenothera* *macroscles*; Tony Avent, NC; 1 qt; 4/30/98  
980383 - *Oenothera* sp.; Karen Nowell, NC; 1 gal; 4/08/98  
980523 - *Omphalodes* *cappadocica* 'Starry Eyes'; T Avent, NC; 4/30/98  
980793 - *Ophiopogon* *japonicus*; Head Lee Nursery, SC; 1 qt; 8/9/98  
980138 - *Ophiopogon* *planiscapus*; Head Lee Nursery, SC; 2/5/98  
980794 - *Ophiopogon* *planiscapus* 'Arabicus'; Head Lee N. SC; 8/9/98  
980907 - *Origanum* *laevigatum* 'Hopleys'; Barefoot Path, NC; 9/30/98  
981159 - *Ornigogalum* *nutans*; Douglas Ruhren, NC; bulb; 12/17/98  
980881 - *Ornithogalum* *pyrenaicum*; Portugal Instituto de Bot 9/5/98  
980122 - *Orostachys* *japonicus*; NARGS seed; 1/28/98  
981020 - *Osmanthus* *armatus* 'Clemson'; Ted Stevens, NC; 10/9/98  
980829 - *Osmanthus* *fragrans* 'Fudingzhu'; PAX; 2 gal; 9/27/98  
980012 - *Osmanthus* *heterophyllus* 'Goshiki'; Head-Lee, SC; 1/12/98  
980590 - *Osteomeles* *schweriniae*; Atlanta BG, GA; 5/26/98  
980304 - *Osteospermum* 'Glistening White'; Thom. & Mor. NJ; 3/18/98  
980498 - *Oxalis* *brasilensis*; Tony Avent, NC; 1 qt; 4/30/98  
981139 - *Oxydendrum* *arborescens*; Fall 98 PAX plant sale; 12/15/98  
980345 - *Oxydendrum* *arborescens* 'Chameleon'; Forest Farm, 3/26/98  
981151 - *Oxydendrum* *arborescens* 'Mountain Charm'; Wilkerson Mill  
980040 - *Pachysandra* *terminalis* 'Variegata'; Mich Gar, NC; 1/11/98  
980234 - *Paeonia* *lactiflora* 'Festiva Maxima'; Piedmont Carolina  
980434 - *Panicum* *virgatum* 'Cloud Nine'; Hoffman's N, NC; 4/27/98  
980433 - *Panicum* *virgatum* 'Heavy Metal'; Hoffman's N, NC; 4/27/98  
980432 - *Panicum* *virgatum* 'Prairie Sky'; Hoffman s N, NC; 4/27/98  
980701 - *Panicum* *virgatum* 'Prairie Sky'; Buchanan's; 6/12/98  
980267 - *Papaver* *orientale* 'Choir Boy'; Seeds of Distinction; 3/6/98  
980094 - *Parnassia* *grandiflora*; NE Wildflower Society; seed; 1/21/98  
980129 - *Parodia* *leninghausii*; Bartlett Arboretum; seed; 2/4/98  
981022 - *Parrotia* *persica* 'Pendula'; Gossler Farms Nur, OR; 10/23/98  
980065 - *Parthenium* *hispidum*; Shaw Arboretum, MO; seed; 1/13/98  
980070 - *Parthenium* *integrifolium*; Shaw Arboretum, MO; 1/13/98  
981112 - *Parthenocissus* sp.; Plant Delights, NC; 1 gal; 12/9/98  
980551 - *Pavonia* *cymbalaria*; Woodlanders Nursery, SC; 5/7/98  
980543 - *Pavonia* *hastata*; Woodlanders Nursery, SC; 1 gal; 5/7/98  
980736 - *Pavonia* *lasiopetala*; David Creech, TX; 1 gal; 7/14/98  
980503 - *Pennisetum* *alopecuroides* 'Little Honey' T Avent, 4/30/98  
980114 - *Pennisetum* *compteroides*; NARGS; seed; 1/28/98  
980257 - *Pennisetum* *orientale*; Hills of the Haw, NC; 1 gal; 2/27/98  
980416 - *Pennisetum* *orientale*; Hoffman s Nursery, NC; 4/27/98  
980841 - *Pennisetum* *orientale*; Hoffman s Nursery, NC; 4/27/98  
980422 - *Pennisetum* *orientale* 'Tall Tails'; Hoffman's N, NC; 4/27/98  
980071 - *Penstemon* *cobaea* var. *purpureus*; Shaw Arb, MO; 1/13/98  
980038 - *Penstemon* *digitalis* 'Husker's Red'; Mich Gar, NC 1/11/98  
980502 - *Penstemon* *dissectus*; Tony Avent, NC; 1 qt; 4/30/98  
980082 - *Penstemon* *pallidus*; Shaw Arboretum, MO; seed; 1/13/98  
980074 - *Penstemon* *tubaeflorus*; Shaw Arboretum, MO; 1/13/98  
980557 - *Pentas* *lanceolata*; Logee s Greenhouse, CT; 2.5 pot; 5/7/98  
980558 - *Pentas* *lanceolata*; Logee s Greenhouse, CT; 2.5 pot; 5/7/98  
980780 - *Phellodendron* *sachalinense*; Wash Park Arb, WA; 8/7/98  
981029 - *Philadelphus* *coronarius* 'Aureus'; Gossler Farms N, 10/23/98  
981025 - *Philadelphus* *lemoinei* 'Belle Etoile' Gossler Farms N, 10/23/98  
980588 - *Philadelphus* sp. Atlanta Botanical Garden, GA; 5/26/98  
980533 - *Phlox* 'Eco Happy Traveler'; Big Bloomers, NC; 5/2/98  
980251 - *Phlox* *paniculata* 'David' Hills of the Haw, NC; 2/27/98  
980534 - *Phlox* 'Snow White'; Big Bloomers, NC; 5/2/98  
980532 - *Phlox* sp.; Big Bloomers, NC; 5/2/98  
980042 - *Phlox* *stolonifera* 'Sherwood Purple'; Mich Gar, NC; 1/11/98  
980537 - *Phlox* *subulata*; Big Bloomers, NC; 5/2/98  
980535 - *Phlox* *subulata* 'Candy Stripe'; Big Bloomers, NC; 5/2/98  
980054 - *Phlox* *subulata* 'Crimson Beauty'; Mich Garden; 1g; 1/11/98  
980457 - *Phlox* *subulata* 'Laurel Beth'; Tony Avent, NC; 1 qt; 4/30/98  
980536 - *Phlox* *subulata* 'Red Wing'; Big Bloomers, NC; 5/2/98  
980876 - *Photinia* *niitakayamensis*; Strybing Arb, CA; seed; 9/5/98  
980741 - *Photinia* sp. (Greg Grant); D. Creech, TX; 2g; 7/14/98  
980752 - *Phygellus* X *rectus* 'Tommy Knockers'; D Creech, TX; 7/14/98  
980550 - *Physostegia* *virginiana* 'Vivid'; Woodlanders N, SC; 5/7/98  
980183 - *Phyteuma* *nigrum*; Roy. Hort. Soc., England; seed; 2/11/98  
980184 - *Phyteuma* *scheuchzeri*; Roy. Hort. Soc., UK; seed; 2/11/98  
980662 - *Picea* *breweriana*; U of California Botanic Gar; seed; 5/30/98  
980817 - *Picea* *glauca* var. *albertiana* 'Conica'; Head Lee N, 18/9/98  
980643 - *Picrasma* *quassioides*; Chollipo Arb, Korea; seed; 5/30/98  
980514 - *Pinellia* *tripartita* 'Atropurpurea'; T Avent, NC; 4/30/98  
980440 - *Pinus* *armandii*; Morris Arb, PA; seedling; 4/29/98  
980653 - *Pinus* *attenuata*; U of California Botanic Gar; seed; 5/30/98  
980655 - *Pinus* *attenuata*; U of California Botanic Gar; seed; 5/30/98  
980441 - *Pinus* *bungeana*; Morris Arb, PA; 95 X 125; 4" pot; 4/29/98  
980654 - *Pinus* *contorta* ssp. *murrayana*; U of California BG 5/30/98  
980656 - *Pinus* *coulteri*; U of California Botanic Gar; seed; 5/30/98  
980657 - *Pinus* *jeffreyi*; University of California Botanic Gar 5/30/98  
980658 - *Pinus* *lambertiana*; U of California BG; seed; 5/30/98  
980659 - *Pinus* *monticola*; U of California Botanic Gar; seed; 5/30/98  
981065 - *Pinus* *nelsonii*; Neil Bell, OSU, OR; T72-77; liner; 11/5/98  
980660 - *Pinus* *sabineana*; U of California Botanic Gar; seed; 5/30/98  
980661 - *Pinus* *sabineana*; U of California Botanic Gar; seed; 5/30/98  
981113 - *Pittosporum* sp.; Plant Delights, NC; 1 pt; 12/9/98  
981059 - *Platanus* *lindeniana*; Neil Bell, OSU, OR; 11/5/98  
980670 - *Plectranthus* sp.; 6/11/98  
980705 - *Plectranthus* sp.; 6/5/98  
980851 - *Podochaenium* *pachyphyllum*; Strybing Arb, CA; 9/5/98  
981066 - *Polianthes* aff. *gemniflora*; Neil Bell, OSU, OR; 11/5/98  
981061 - *Polianthes* sff. *gemniflora*; Neil Bell, OSU, OR; 11/5/98  
980626 - *Pollia* *japonica*; Chollipo Arboretum, Korea; seed; 5/30/98  
980294 - *Polygonatum* *pubescens*; Mt. Holyoke College BG 3/11/98  
980489 - *Polygostichum* *tussimense*; Tony Avent, NC; 1 qt; 4/30/98  
980700 - *Porter's* weed; Stowe Botanical Garden; 1 gal; 6/12/98  
980725 - *Portulaca* 'Yubie's Gold'; Logan s Trading Post, NC; 6/23/98  
980828 - *Primula* 'Dale Henderson'; PAX; 3" pot; 9/27/98  
980398 - *Primula* *vulgaris* ssp. *sibthorpii*; Camellia Forest, NC; 4/23/98  
980209 - *Primula* 'Wanda Mix'; Plant Delights, NC; 4" pot; 2/19/98  
980005 - *Prunus* *jacquemontii*; D Creech, S F. Austin Arb 1/6/98  
981038 - *Prunus* *lauocerasus* 'Otto Luyken'; Pender N, NC; 10/23/98

# 1998 Accessions

- 980198 - *Prunus persica*; Dr. D. Werner, NCSU; B&B; 2/17/98  
 980238 - *Prunus persica* 'Corinthian Mauve'; D. Werner, NCSU; 2/25/98  
 980237 - *Prunus persica* 'Corinthian Pink'; D. Werner, NCSU; 2/25/98  
 980236 - *Prunus persica* 'Corinthian Rose'; D. Werner, NCSU; 2/25/98  
 980235 - *Prunus persica* 'Corinthian White'; D. Werner, NCSU; 2/25/98  
 980384 - *Prunus persica* 'Bonfire Patio'; Logan s Trading Co, 4/09/98  
 980639 - *Prunus takesimensis*; Chollipo Arb, Korea; seed; 5/30/98  
 980663 - *Pseudotsuga menziesii*; Uof California Botanic Gar; 5/30/98  
 980270 - *Pterostyrax psilophylla*; Heronswood, WA; 3" pot; 3/4/98  
 980933 - *Pulmonaria officinalis* "Sissinghurst White"; Mich Gar. NC; 10/7/98  
 980520 - *Pulmonaria rubra* 'David Ward'; T Avent, NC; 1 qt; 4/30/98  
 980484 - *Pyrrosia hastata*; Tony Avent, NC; 1 qt; 4/30/98  
 981117 - *Quercus liaotungensis*; Plant Delights, NC; 3" pot; 12/9/98  
 981116 - *Quercus prinoides*; Plant Delights, NC; 3" pot; 12/9/98  
 980221 - *Quercus virginiana*; T Avent, NC; 1 gal; 2/18/98  
 980226 - *Quercus virginiana*; Tony Avent, NC; 3 gal; 2/18/98  
 980371 - *Ranunculus orthorhynchus* var. *orthorhynchus*; Mt. Pisgah Arboretum, Eugene OR; seed; 4/08/98  
 980664 - *Rhamnus californicus* ssp. *occidentalis*; U of CA BG; 5/30/98  
 980665 - *Rhamnus californicus* var. *californica*; U of CA BG 5/30/98  
 980337 - *Rhamnus rubra*; Forest Farm, OR; 2 tube; 3/26/98  
 981032 - *Rhaphiolepis indica* 'Blueberry Muffin'; Taylor's 10/23/98  
 980666 - *Rhododendron macrophyllum*; U of CA BG; seed; 5/30/98  
 980196 - *Rhododendron* ('Niblett' X 'Melody'); M Phillips; 2/13/98  
 980286 - *Rhododendron* sp. Mt. Holyoke College BG 3/11/98  
 980573 - *Rhododendron* 'Windsor Peach'; Keith Cote; 2 gal; 05/21/98  
 981062 - *Rhus muellerii*; Neil Bell, OSU, OR; T72-34; liner; 11/5/98  
 981109 - *Rhus pachyrachis*; Plant Delights, NC; liner; 12/9/98  
 980140 - *Rohdea japonica*; Head Lee Nursery, SC; 2/5/98  
 980310 - *Rosa* 'Cherokee'; Antique Rose Emporium, TX; 3/18/98  
 980308 - *Rosa* 'Climbing Sombreuil' Antique Rose Em, TX; 3/18/98  
 980185 - *Rosa glauca*; Roy. Hort. Soc., England; seed; 2/11/98  
 980311 - *Rosa* 'Madame Alfred Carriere'; Antique Rose, TX; 3/18/98  
 980759 - *Rosa* 'Marie Daly'; David Creech, TX; 1 qt; 7/15/98  
 980307 - *Rosa* 'Moonlight'; Antique Rose Emporium, TX; 3/18/98  
 980312 - *Rosa* 'Prosperity'; Antique Rose Emporium, TX; 3/18/98  
 980444 - *Rosa* sp.; Morris Arb, PA; 3 gal; 4/29/98  
 981121 - *Rosa* 'Spice'; Plant Delights, NC; cell; 12/9/98  
 980313 - *Rosa* Trier TM; Antique Rose Emporium, TX; 2 gal; 3/18/98  
 980306 - *Rosa* X alba 'Albèric Barbier'; Antique Rose Em, TX; 3/18/98  
 980309 - *Rosa* X fortuneana; Antique Rose Em, TX; 2 gal; 3/18/98  
 980727 - *Rosa* X Pink Flower Carpet; Zelenka Nursery; 6/25/98  
 980726 - *Rosa* X White Flower Carpet; Zelenka Nursery; 6/25/98  
 980305 - *Rosmarinus officinalis* 'Albnus'; Rasland Farm, NC; 3/18/98  
 981147 - *Rubus* 'Betty Ashburned'; Wilkerson Mill Gar, GA; 12/16/98  
 980380 - *Rubus spectabilis*; Mt. Pisgah Arb, Eugene OR; 4/08/98  
 980086 - *Rudbeckia missouriensis*; Shaw Arboretum, MO; 1/13/98  
 980076 - *Rudbeckia subtomentosa*; Shaw Arboretum, MO; 1/13/98  
 981132 - *Ruellia* 'Blue Shades'; Plant Delights, NC; 12/9/98  
 980496 - *Ruellia brittoniana* 'Katie'; Tony Avent, NC; 1 qt; 4/30/98  
 980010 - *Ruellia brittoniana* 'Strawberries N Cream'; D Creech, 1/6/98  
 980186 - *Rumex sanguineus* var. *sanguineus*; RHS, UK; seed; 2/11/98  
 980153 - *Sabal mexicana*; Plant Delights, NC; 2 gal; 2/10/98  
 980150 - *Sabal minor*; Plant Delights, NC; 8 pot; 2/10/98  
 980151 - *Sabal palmetto*; Plant Delights, NC; 6 pot; 2/10/98  
 980152 - *Sabal palmetto*; Plant Delights, NC; 6 pot; 2/10/98  
 980324 - *Sali* 'Flame'; Forest Farm, OR; 2 tube; 3/25/98  
 980327 - *Salix alba* 'Snake'; Forest Farm, OR; 2 tube; 3/25/98  
 980097 - *Salix melanostachys*; E.C. Piotter & Sons, MO; 2 gal; 1/22/98  
 980142 - *Salix sachalinensis* 'Sekka'; Head Lee Nursery, SC; 2/5/98  
 980900 - *Salvia bulleyana*; Barefoot Path Nursery, NC; 1 gal; 9/30/98  
 980745 - *Salvia* 'Cherry Chief'; David Creech, TX; 1 pt; 7/14/98  
 980747 - *Salvia chiapensis*; David Creech, TX; 1 pt; 7/14/98  
 980732 - *Salvia coccinea* 'White'; Niche Gardens, NC; 3" pot; 7/13/98  
 980737 - *Salvia discolor*; David Creech, TX; 1 pt; 7/14/98  
 980680 - *Salvia farinacea*; 6/11/98  
 980749 - *Salvia* 'Firebrand'; David Creech, TX; 1 pt; 7/14/98  
 980838 - *Salvia forsskaolii*; Barefoot Paths Nursery, NC; 9/30/98  
 980903 - *Salvia greggii* 'Alba'; Barefoot Path Nursery, NC; 9/30/98  
 980750 - *Salvia* 'Hildalgo'; David Creech, TX; 1 pt; 7/14/98  
 980748 - *Salvia microphylla* 'Oxford'; David Creech, TX; 7/14/98  
 980938 - *Salvia microphylla* 'San Carlos Festival'; Messenbrinks, NC;  
 980901 - *Salvia moorcroftiana*; Barefoot Path Nursery, NC; 9/30/98  
 980500 - *Salvia nipponica* 'Fuji Snow'; Tony Avent, NC; 1 qt; 4/30/98  
 980740 - *Salvia puberula* 'El Butano'; David Creech, TX; 1 pt; 7/14/98  
 980904 - *Salvia pulchella*; Barefoot Path Nursery, NC; 1 qt; 9/30/98  
 980839 - *Salvia regla* 'Jamie'; Barefoot Path Nursery, NC; 9/30/98  
 980505 - *Salvia roemeriana*; Tony Avent, NC; 1 qt; 4/30/98  
 980905 - *Salvia roemeriana*; Barefoot Path Nursery, NC; 9/30/98  
 980860 - *Salvia scabra*; Strybing Arb, CA; 9/5/98  
 980746 - *Salvia* sp.; David Creech, TX; 1 pt; 7/14/98  
 980902 - *Salvia transylvanica*; Barefoot Path Nursery, NC; 9/30/98  
 980837 - *Salvia verticillata*; Barefoot Path Nursery, NC; 1 gal; 9/30/98  
 980517 - *Sanguinaria canadensis* f. *multiplex*; T Avent, NC; 4/30/98  
 980402 - *Sarcandra glabra*; PAX Club, NCSU; 1 gal; 4/24/98  
 980361 - *Sarcococca confusa*; Woodlanders, SC; 4/3/98  
 980403 - *Sarcococca confusa*; PAX Club, NCSU; 1 gal; 4/24/98  
 980388 - *Sarcococca hookeriana*; Camellia Forest, NC; 1 qt; 4/10/98  
 980364 - *Sarcococca hookeriana* var. *digyna*; Woodlanders, SC; 4/3/98  
 980404 - *Sarcococca ruscifolia*; PAX Club, NCSU; 1 gal; 4/24/98  
 980362 - *Sarcococca ruscifolia* var. *chinensis*; Woodlanders, SC; 4/3/98  
 980363 - *Sarcococca saligna*; Woodlanders, SC; 4/3/98  
 980389 - *Sarcococca* sp.; Camellia Forest, NC; 4/10/98  
 980115 - *Saruma henryi*; NARGS Society; seed; 1/28/98  
 980516 - *Saruma henryi*; Tony Avent, NC; 1 qt; 4/30/98  
 980854 - *Scabiosa africana*; Strybing Arb, CA; seed; 9/5/98  
 980052 - *Scabiosa columbaria*; Mich Gardens, NC; 1 gal; 1/11/98  
 980646 - *Schima wallichii*; Chollipo Arboretum, Korea; seed; 5/30/98  
 980390 - *Schima wallichii* subsp. *noronhae* var. *superba*; Camellia Forest, NC; 4/10/98  
 980430 - *Schizachyrium scoparium* 'The Blues' Hoffman's, NC; 4/27/98  
 981053 - *Schoenocaulon* sp.; Neil Bell, OSU, OR; 11/5/98  
 980116 - *Scilla scilloides* 'Alba'; NARGS; seed; 1/28/98  
 980448 - *Scutellaria baicalensis*; Tony Avent, NC; 1 qt; 4/30/98  
 980449 - *Scutellaria suffrutescens* 'Texas Rose' T Avent, NC; 4/30/98  
 980627 - *Securinega suffruticosa*; Chollipo Arb, Korea; seed; 5/30/98  
 980455 - *Sedum confusum*; Tony Avent, NC; 1 qt; 4/30/98  
 980452 - *Sedum* 'Frosty Morn'; Tony Avent, NC; 1 qt; 4/30/98  
 980331 - *Sedum* 'John Creech'; Forest Farm, OR; 2 tube; 3/26/98  
 980408 - *Sedum lineare* 'Variegatum'; PAX Club, NCSU; 4/24/98  
 980510 - *Sedum pallidum* var. *bithynicum*; T Avent, NC; 4/30/98  
 980456 - *Sedum tetractinum*; Tony Avent, NC; 1 qt; 4/30/98  
 980671 - *Senecio confusus*; Logee s Greenhouse, CT; 6/11/98  
 980855 - *Senna multiglandulosa*; Strybing Arb, CA; seed; 9/5/98  
 980137 - *Sequoia sempervirens* 'Albospicata'; Head Lee N SC; 2/5/98  
 980323 - *Sequoia sempervirens* 'Aptos Blue'; Forest Farm, 3/25/98  
 981021 - *Sequoia sempervirens* 'Henderson Blue'; Gossler Farms, OR 10/23/98  
 980206 - *Serissa foetida*; Frank Simpson, NC; 2 gal; 2/17/98  
 980990 - *Serissa japonica*; Mike Dirr, GA; 3" pot; 10/9/98  
 980083 - *Silphium perfoliatum*; Shaw Arboretum, MO; seed; 1/13/98  
 980754 - *Sinningia cordatum*; Hannah Wende, Israel; seed; 7/15/98  
 980014 - *Sinocalycanthus chinensis*; Head-Lee Nursery, SC; 1/12/98  
 980796 - *Sinocalycanthus chinensis*; Head Lee Nursery, SC; 8/9/98  
 980476 - *Sisyrinchium bermudianum*; Tony Avent, NC; 1 qt; 4/30/98  
 980632 - *Smilacina japonica*; Chollipo Arb, Korea; seed; 5/30/98  
 980215 - *Smilacina trifolia*; Plant Delights, NC; 4" pot; 2/19/98  
 980544 - *Smilax fragrans*; Woodlanders Nursery, SC; 1 gal; 5/7/98  
 980545 - *Smilax walteri*; Woodlanders Nursery, SC; 1 gal; 5/7/98  
 980204 - *Solanum melongena* 'Asian Bride' Shepherd's Seed; 2/17/98  
 980205 - *Solanum melongena* 'Snow'; Shepherd's Seed; seed; 2/17/98  
 980702 - *Solenostemon* 'Black Blister'; Landcraft Env, NY; 6/12/98  
 980706 - *Solenostemon* 'Dark Heart'; Beds & Borders, NY; 6/5/98

# 1998 Accessions

- 980676 - *Solenostemon* 'Hurricane'; Beds & Borders, NC; 6/11/98  
980675 - *Solenostemon* 'Sunset' Beds & Borders, NC; 1 qt; 6/11/98  
980078 - *Solidago caesia*; Shaw Arboretum, MO; seed; 1/13/98  
980414 - *Solidago* sp.; Park Seed Co., SC; seed; 4/18/98  
980753 - *Sophora affinis*; David Creech, TX; 1 gal; 7/14/98  
980768 - *Sophora davidii*; Mary Edith Alexander, NC; seed; 7/16/98  
981118 - *Sorbus dunnii*; Plant Delights, NC; 98-0528-29; 12/9/98  
980328 - *Sorbus prathii*; Forest Farm, OR; 2 tube; 3/25/98  
980506 - *Spigelia marilandica*; Tony Avent, NC; 1 qt; 4/30/98  
981041 - Spinach oleracea; Burpee's; seed; 11/1/98  
980367 - *Spiraea douglasii*; Mt. Pisgah Arb, Eugene OR; 4/08/98  
980335 - *Spiraea japonica* 'Candle Light' Forest Farm, OR; 3/26/98  
980423 - *Spodiopogon sibiricus*; Hoffman s Nursery, NC; 4/27/98  
980427 - *Sporobolus heterolepis*; Hoffman s Nursery, NC; 4/27/98  
980887 - *Stachys germanica*; Portugal Instituto de Botanica; 9/5/98  
980582 - *Stachyurus chinensis*; Ozzie Johnson, GA; 5 gal; 5/26/98  
981016 - *Stachyurus yunnanensis*; Ted Stevens, NC; 2 gal; 10/9/98  
980781 - *Staphylea X coulombieri*; Washington Park Arb, WA; 8/7/98  
980872 - *Stipa ramosissima*; Strybing Arb, CA; seed; 9/5/98  
980435 - *Stipa tenuissima*; Hoffman s Nursery, NC; 3 gal; 4/27/98  
980820 - *Styrax japonicus* 'Pink Cascade' Japan Tree Growers 6/30/98  
980728 - *Styrax japonicus* 'Rubra Pendula'; Japan Tree Growers 8/12/98  
980368 - *Styrax officinale*; Mt. Pisgah Arb, Eugene OR; seed; 4/08/98  
980068 - *Swertia caroliniensis*; Shaw Arboretum, MO; seed; 1/13/98  
980154 - *Sylvestris nicotiana*; Seeds of Change, NM; seed; 2/11/98  
980096 - *Symphoricarpos orbiculatus*; Lamtree Farm, NC; 1/21/98  
980515 - *Symphytum* 'Goldsmith'; Tony Avent, NC; 1 qt; 4/30/98  
980644 - *Symplocos chinensis* f. pilosa; Chollipo Arb, Korea; 5/30/98  
980645 - *Symplocos chinensis* f. pilosa; Chollipo Arb, Korea; 5/30/98  
980069 - *Taenidia integerrima*; Shaw Arboretum, MO; seed; 1/13/98  
980374 - *Taxus brevifolia*; Mt. Pisgah Arb, Eugene OR; seed; 4/08/98  
980857 - *Tephrosia grandiflora*; Strybing Arb, CA; seed; 9/5/98  
981146 - *Tetracentron sinense*; Wilkerson Mill Gardens, GA; 12/16/98  
980640 - *Tetradium daniellii*; Chollipo Arboretum, Korea; 5/30/98  
980641 - *Tetradium rutaecarpa*; Chollipo Arb, Korea; seed; 5/30/98  
980637 - *Thalictrum filamentosum*; Chollipo Arb, Korea; 5/30/98  
980638 - *Thalictrum filamentosum*; Chollipo Arb, Korea; 5/30/98  
980462 - *Thalictrum kiusianum*; Tony Avent, NC; 2.5 pot; 4/30/98  
981057 - *Thalictrum* sp.; Neil Bell, OSU, OR; T72-18; liner; 11/5/98  
980022 - *Thuja occidentalis* 'George Washington'; Head-Lee 1/12/98  
980033 - *Thuja occidentalis* 'Smaragd' Head-Lee Nursery, SC; 1/12/98  
980219 - *Thuja orientalis* 'Southport'; Plant Delights, NC; 2/19/98  
980034 - *Thuja plicata* 'Albo Spicata'; Head-Lee SC; 1 gal; 1/12/98  
980801 - *Thuja plicata* 'Albo-spicata'; Head Lee SC; 1 gal; 8/9/98  
980047 - *Thuja plicata* 'Clemson Sel. #1'; Head-Lee SC;  
980048 - *Thuja plicata* 'Clemson Sel. #2'; Head-Lee SC; 1 gal; 1/11/98  
980798 - *Thuja plicata* 'Clemson Selection #1'; Head Lee SC; 8/9/98  
980799 - *Thuja plicata* 'Clemson Selection #2'; Head Lee SC; 8/9/98  
980049 - *Thuja plicata* 'Hogan'; Head-Lee Nursery, SC; 1 gal; 1/11/98  
980800 - *Thuja plicata* 'Hogan'; Head Lee Nursery, SC; 3 gal; 8/9/98  
981044 - *Thymus*; Buchanan's Nursery, NC; 11/1/98  
980528 - *Thymus praecox* subsp. arcticus; Big Bloomers, NC; 5/2/98  
980276 - *Thymus serpyllum*; Park Seed, SC; seed; 3/6/98  
981045 - *Thymus vulgaris*; Anne Deloria; pint; 12/5/98  
980934 - *Tiarella* 'Elizabeth Oliver'; Mich Gardens, NC; 10/7/98  
980466 - *Tiarella* 'Mint Chocolate'; Tony Avent, NC; 1 qt; 4/30/98  
980474 - *Tiarella* 'Pink Bouquet'; Tony Avent, NC; 1 qt; 4/30/98  
980782 - *Tilia mongolica*; Washington Park Arb, WA; seed; 8/7/98  
980471 - *Titanotrichum oldhamii*; Tony Avent, NC; 1 qt; 4/30/98  
980540 - *Titanotrichum oldhamii*; Ozzie Johnson, GA; 3 gal; 5/7/98  
980852 - *Tithonia tubiformis*; Strybing Arb, CA; seed; 9/5/98  
980191 - *Trachelospermum jasminoides*; Pender s Nur, NC; 2/12/98  
980075 - *Tradescantia bracteata*; Shaw Arboretum, MO; seed; 1/13/98  
980525 - *Tricyrtis* 'Amanagawa'; Tony Avent, NC; 1 qt; 4/30/98  
980472 - *Tricyrtis flava*; Tony Avent, NC; 1 qt; 4/30/98  
980211 - *Tricyrtis formosana* 'Samurai'; Plant Delights, NC; 2/19/98  
980214 - *Tricyrtis hirta* 'Moonlight'; Plant Delights, NC; 2/19/98  
980521 - *Tricyrtis* 'Kohaku'; Tony Avent, NC; 1 qt; 4/30/98  
980260 - *Trillium grandiflorum*; Hills of the Haw, NC; 1 qt; 2/27/98  
980669 - *Triteleia ixioides* ssp. cookii; U of California BG; 5/30/98  
981158 - *Triteleia laxa* 'Koenigin Fabiola'; D Ruhren, NC; 12/17/98  
981128 - *Tsuga chinensis*; Plant Delights, NC; 1998-0025; 1 qt; 12/9/98  
980381 - *Tsuga mertensiana*; Mt. Pisgah Arb, Eugene OR; 4/08/98  
981171 - *Tulipa* 'Apeldorn Elite'; Douglas Ruhren, NC; bulb; 12/31/98  
980100 - *Tulipa clusiana* var. chrysantha 'Tubergen's Gem'; D Ruhren,  
981174 - *Tulipa* 'Maureen'; Douglas Ruhren, NC; bulb; 12/31/98  
981172 - *Tulipa* 'Parade'; Douglas Ruhren, NC; bulb; 12/31/98  
981173 - *Tulipa* 'Pink Impression'; Douglas Ruhren, NC; 12/31/98  
981161 - *Tulipa* 'Queen of Sheba'; Douglas Ruhren, NC; 12/17/98  
980667 - *Umbellularia californica*; U of California Botanic Gar; 5/30/98  
980668 - *Umbellularia californica*; U of California BG; 5/30/98  
981120 - *Ungnandia* sp. Plant Delights, NC; liner; 12/9/98  
980767 - *Vaccinium ashei* 'Woodard'; Odyssey School, NC; 7/15/98  
980139 - *Vaccinium crassifolium* 'Well's Delight'; Head Lee SC; 2/5/98  
980099 - *Vaccinium* sp.; 1/22/98  
981026 - *Vaccinium* 'Sunshine Blue'; Gossler Farms OR; 10/23/98  
980268 - *Verbascum phoeniceum* 'Flush of White'; Seeds Distinction;  
980677 - *Verbena* 'Chatto's Lavender'; Beds & Borders, NC; 6/11/98  
980693 - *Verbena kleopatra*; Beds & Borders, NC; 1 qt; 6/12/98  
980694 - *Verbena kleopatra*; Beds & Borders, NC; 1 qt; 6/12/98  
980695 - *Verbena kleopatra*; Beds & Borders, NC; 1 qt; 6/12/98  
980692 - *Verbena kleopatra* 'Cherry Red'; Beds & Bord. NC; 6/12/98  
980258 - *Verbena tenuisecta* f. alba; Hills of the Haw, NC; 2/27/98  
980333 - *Veronica forrestii*; Forest Farm, OR; 2 tube; 3/26/98  
980330 - *Veronica onoei*; Forest Farm, OR; 2 tube; 3/25/98  
980454 - *Veronica reptans* 'Sunshine'; Tony Avent, NC; 1 qt; 4/30/98  
980277 - *Veronica spicata* 'Blauteeppich'; Park Seed, SC; seed; 3/6/98  
980908 - *Veronica subsessilis* 'Blue Pyramid'; Barefoot Path 9/30/98  
980346 - *Viburnum betulifolium*; Forest Farm, OR; 2 tube; 3/26/98  
980255 - *Viburnum* 'Cayuga'; Shiloh Nursery, NC; B&B; 2/27/98  
980591 - *Viburnum cylindricum*; Atlanta BG, GA; 195M; 5/26/98  
980254 - *Viburnum* 'Eskimo'; Shiloh Nursery, NC; B&B; 2/27/98  
980348 - *Viburnum grandiflorum*; Forest Farm, OR; 2 tube; 3/26/98  
980326 - *Viburnum hupehense*; Forest Farm, OR; 2 tube; 3/25/98  
980253 - *Viburnum* 'Mohawk'; Shiloh Nursery, NC; B&B; 2/27/98  
980965 - *Viburnum nudum* 'Earth Shadow'; M Dirr, GA; 10/9/98  
981111 - *Viburnum ovatum*; Dodd s form; Plant Delights, NC; 12/9/98  
980278 - *Viburnum plicatum* f. tomentosum 'Maresii' City Gard; 2/98  
980233 - *Viburnum plicatum* 'Summer Snowflake'; Piedmont Carolina  
981127 - *Viburnum prunifolium*; Plant Delights, NC; 2 gal; 12/9/98  
980291 - *Viburnum recognitum*; Mt. Holyoke College BG; 3/11/98  
980350 - *Viburnum rufidulum* 'Royal Guard'; Forest Farm, OR  
980585 - *Viburnum* sp.; Atlanta Botanical Garden, GA; 202M; 5/26/98  
980592 - *Viburnum* sp.; Atlanta Botanical Garden, GA; 198M; 5/26/98  
980302 - *Viburnum wrightii*; American Horticultural Society 3/11/98  
980319 - *Viburnum X burkwoodii* 'Conoy' Forest Farm, OR; 3/25/98  
980256 - *Viburnum X rhytidophylloides* 'Alleghany' Shiloh Nur NC  
980338 - *Weigela florida* 'Rumba'; Forest Farm, OR; 2 tube; 3/26/98  
980758 - *Wisteria dishogo*; David Creech, TX; 1 gal; 7/15/98  
980806 - *Wisteria frutescens* 'Alba'; Head Lee Nursery, SC; 8/9/98  
980804 - *Wisteria frutescens* 'Amethyst Falls'; Head Lee, SC; 8/9/98  
980805 - *Wisteria frutescens* 'Amethyst Falls'; Head Lee SC; 8/9/98  
980263 - *Yucca filamentosa*; Apex Nursery, NC; 3 gal; 2/27/98  
980123 - *Yucca glauca*; North American Rock Garden Society; 1/28/98  
980149 - *Yucca schottii*; Plant Delights, NC; 6 pot; 2/10/98  
980690 - *Zephyranthes* 'Capricorn'; Plant Delights, NC; 6/12/98  
980447 - *Zephyranthes* 'Capricorn Strain'; Tony Avent, NC; 4/30/98  
980451 - *Zephyranthes drummondii*; Tony Avent, NC; 1 qt; 4/30/98  
981063 - *Zephyranthes drummondii*; Neil Bell, OSU, OR; 11/5/98  
980691 - *Zephyranthes flavissima*; Plant Delights, NC; 4" pot; 6/12/98  
980117 - *Zephyranthes fosteri* X simpsonii; NARGS 1/28/98  
980446 - *Zephyranthes grandiflora* 'LaBuffa Rose' T Avent, NC; 4/30/  
980445 - *Zephyranthes reginae*; Tony Avent, NC; 1 qt; 4/30/98  
980450 - *Zephyranthes traubii* 'San Carlos Form'; T Avent, NC; 4/30/98

# Editor's News

## Calendar

Look in the upcoming summer issue of this newsletter for our slate of fall 1999 FOA lectures, workshops and classes.

For those of you in the plant industry, be sure and stop by our booth at the following summer trade shows.

**Southern Nursery Association**  
July 30 - August 1, 1999. 100th Anniversary year. Atlanta, Ga. Contact SNA for further information. Phone: 770-973-9026.

**NCAN Charlotte Show**  
August 20 - 21, 1999. Merchandise Mart, Charlotte, NC. Contact NCAN for further information. Phone: 919-266-3322,

## Invasive Species

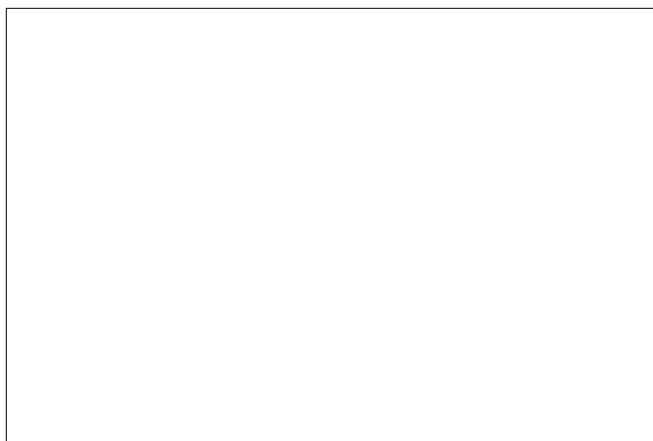
President Clinton recent issued an executive order entitled *Invasive Species*. Members are highly encouraged to read this order. We have set up a link to this executive order at our website <http://arb.ncsu.edu>

Look to upcoming issues of this newsletter for comments and discussion of this executive order, which could possibly have a profound impact on all aspects of the plant industry as well as the home garden. There are a lot of rumors about this executive order. Please, read it for yourself. If you don't have access to the Internet, and can't bug a friend to get it for you, send a self-addressed stamped envelope to us and we will be glad to mail you a copy. Send it to: JC Raulston Arboretum, Executive Order, Box 7609, Raleigh, NC 27695-7609.

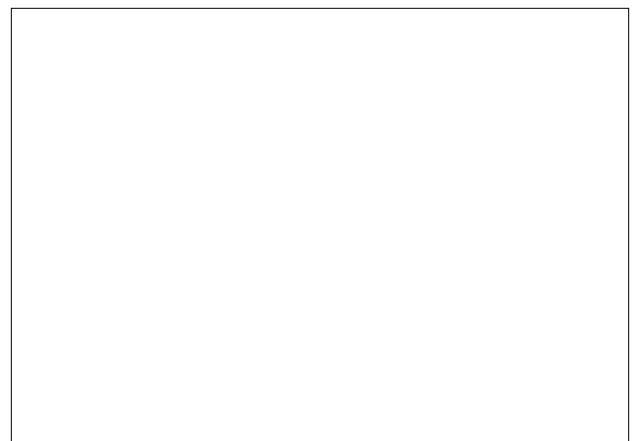
## Dragon Watch

We have distributed a plant under the wrong name. If you received a *Cryptomeria japonica* 'Giokumo' in any of our distributions, know that it is actually *Cryptomeria japonica* 'Black Dragon'. The Black Dragon in our collection has been here since Kim Tripp's days, and is now over 7' tall, with dark green foliage and upright conical habit. Please don't let this get confused in your garden or nursery with the shrubbier Giokumo. Both are garden worthy, but produce very different results. Come see our collection of the Japanese cedar varieties. They're great!

It's with great sadness we say farewell to two of our part-time staffers, **Karen Jones** and **Douglas Ruhren**. Karen is leaving to become a home gardener, raising children along with her vegetables and flowers. We wish her and hubby Chris only the happiest of times. Douglas will continue to volunteer as co-curator of the perennial borders, and inspire all of us with his knowledge and generosity of spirit. Douglas and Karen truly leave the Arboretum a better place. They epitomize what has made the Arboretum great -- quality people who deposit their love along with their physical efforts.



Karen's range of skills will sorely be missed. Above, she spends a rainy day repairing plastic label-making machines. photo by Jonathan Nyberg



Douglas's final official act was to design this brilliantly colorful display of winter interest plants at the January, 1999 Green and Growin' Show in Winston-Salem, NC. photo by Jonathan Nyberg

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## The JC Raulston Arboretum at NC State University

Department of Horticultural Science

Box 7609

Raleigh, NC 27695-7609

World Wide Web Address: <http://arb.ncsu.edu>

*Friends of the JC Raulston Arboretum Newsletter* is published four times a year.

Jonathan Nyberg, Editor

### JC Raulston Arboretum Staff

Director	Bob Lyons	515-1192
Development Director	Catherine Maxwell	515-2000
Program Coordinator	Jonathan Nyberg	515-3132
Volunteer Coordinator	Harriet Bellerjeau	515-3132
Arboretum Secretary	Pamela Christie-Tabron	515-3132
Arboretum Technician	Mitzi Hole	515-1632
Plant Recorder	Valerie Tyson	515-1632
Arboretum Volunteer Office	Staffed by volunteers	515-7641

### Volunteer Curators (\* indicates help needed)

Butterfly Garden*	Chris Allen	732-0902
Blue Bird Houses	Bill Satterwhite	787-5248
Blue Conifer Collection*	Guy Meilleur	387-7045
Entrance Gardens	Pam Baggett	732-9403
Iris Curator	Catherine Gaertner	380-5172
Japanese Garden*	Dan Howe	848-5462
JC Raulston Archives	Mary & Claude Caldwell	515-3132
Labeling*	Tom Bumgarner	231-7450
Labyrinth	Natalie Sadler	968-6921
Lath House*	Bob Roth	481-9911
Magnolia Curator	Pat McCracken	365-7878
Mixed Shrub Border*	Amelia Lane	787-6228
Paradise Garden	Frankie Fanelli	546-8745
Perennial Borders*	Edith Eddleman	286-7691
	Douglas Ruhren	688-0240
Rose Garden	Harvey Bumgardner	832-5426
	Anne Clapp	787-9852
Southwest Garden*	Ken Zearfoss	846-7211
T-shirt Coordinator	<b>Curator needed</b>	
Tour Guide Coordinator	Fran Johnson	847-5274
Visitor Center Coordinator*	Kathleen Thompson	469-0991
Volunteer rep. to Arboretum Board	Anne Clapp	787-9852
Volunteer Office* <b>Weekends needed</b>	Harriet Bellerjeau	515-3132
Water Garden	Alicia Berry	829-2524
White Garden	Susan Cheatham	834-7095
	Jeff Briggs	836-0969
Garden of Winter Delights	Jonathan Nyberg	688-0240
Wisteria Garden*	CJ Dykes	856-8012

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## Director, cont. from page 2

we've recently completed. We're running faster, we're upgrade-ready for future software innovations, and we've put a computer into the volunteer office for improved communications, printing, and access to JCRA information.

Widespread incorporation of information technology is an issue we'll constantly face with open arms. Apart from our website (<http://arb.ncsu.edu>) which is generously maintained by Dr. Arthur Kelley, we've got a couple other mechanisms to keep ourselves and others "in the loop." Vivian Finklestein, another tireless volunteer, worked with Art to initiate an email listserve for volunteer guides, but anyone is welcome to subscribe and participate.....and all of us hope you will! Its main purpose is to permit and encourage rapid access to very timely happenings at the JCRA for possible guide use in upcoming tours. I hope that such discussions will also make novice guides more at ease with their roles after "listening in" on anything from historical perspectives, curator comments, personal impressions from recent visits, and the appearance of noteworthy plant features. To get on board, send an email to "guides@arb.ncsu.edu" (don't use the quote marks) and in the SUBJECT line of your email, type the word "subscribe" but leave off the quotes again. A reply goes to everyone on the list, which is great if you have a question needing quick attention.

And speaking of tour guides, I recently conducted the final training tour for the new group coming up through the ranks. It is a pleasure to work with people who donate their time and then share their enthusiasm for the JCRA with others via touring. Thanks! Now, if

you'd simply like to get some fast accounts of what's happening at the JCRA each week, then you're welcome to be added to my special email list of JCRA current plant events. It currently goes to the entire Horticultural Science department throughout the state and is freely passed along to other email groups by recipients. Each Sunday or Monday I post a few bullets of timely observations based on my own walks through the JCRA.....what's in flower at the moment, what happened to those plants that used to be there, what's that curator doing.....you get the picture. This is not a listserve so if you want on, please send me an email ([bob\\_lyons@ncsu.edu](mailto:bob_lyons@ncsu.edu)); I'm happy to add you.

Well, there's much more to talk about but, before I close, I'd like to extend special thanks to two very

important people to the JCRA. Karen Jones and Doug Ruhren have been associated with us informally for a long time, eventually being employed as the Klein-Pringle White Garden Curator (Karen) and JCRA Horticulturist (Doug; who also shares Perennial Border curatorship with Edith Eddleman). Their departures won't mean an absence, however, they are just getting way too busy. Their talents and insights will be missed but never far off. Thanks to both of you!

I guess I'll sign off with a reminder to check out our annual listing of new acquisitions at the JCRA in this issue, it's a long one! Stay tuned, spread the word, and visit often!

Bob Lyons

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