



JC Raulston Arboretum

AT NC STATE UNIVERSITY

"Plan and plant for a better world."

Friends of the JC Raulston Arboretum Newsletter

Number 1, Fall, 1997

Director's Letter

I want to thank all of you for your incredible support during this time of transition. Friends and volunteers locally, across the country and around the world have worked even harder than ever before to keep the garden and its programs moving ahead. We simply can never thank you enough.

You may have already heard that the recent round of interviews did not yield a new Arboretum director, in spite of stellar efforts by the search committee, unprecedented support from the university, and tremendous participation by many of you. Though this was a disappointment, good came from the experience as well. The interview process was a terrific coming together and confirmation of the Arboretum community. We saw common vision and common commitment to supporting both a new director and the Arboretum itself. One candidate summed it up by saying that with the Arboretum's focused mission, and university and community support now in place, "There is no doubt that the JC Raulston Arboretum will continue to soar."

In the meantime, I have been appointed director for a term of one year: September 1997 through October 1998. I want to assure you that I am not only committed to personally serving as director to the best of my ability, but also to securing the resources

for staffing, equipment, and infrastructural improvements that were promised to the directoral candidates.

To this end, the college has already released additional lapsed salary funding, which will enable us to fund positions for interim staff. Diane Flynt and Tony Avent, who served in interim roles through August of this year, have gone back to their full time jobs. After fine tuning of our interim structure, other part time staff are already stepping into place to keep things going strong. I want to take this opportunity to welcome them, and let you know a bit about them.

Many of you already know Doug Ruhren as the volunteer co-curator of the perennial borders. I am delighted to report that Doug will come on staff this month as our horticultural advisor. He will help make decisions on plant collection, evaluation, and distribution. Doug has tremendous horticultural expertise, and we are very fortunate to be able to call upon him in this capacity.

Jonathan Nyberg is now working with us three days each week as our program coordinator, planning and facilitating Friends of the Arboretum lectures, educational programs, and events. He is also responsible for the newsletter and for coordinating with the NC Association of Nurserymen on promotion of the JC Raulston Selections, a new facet of the plant intro-

duction program. Jonathan has really hit the ground running to put together a great fall calendar, successfully organize Campus Color Explosion, produce this newsletter, and handle myriad issues in the Arboretum office. You can reach Jonathan on Mondays, Tuesdays, and Fridays at 919-515-3132.

Harriet Bellerjeau is already hard at work as our part time volunteer coordinator. Harriet will support current volunteer activities and recruit and train new volunteers to fill existing needs. Harriet comes to us with vast experience coordinating volunteers in the Raleigh Housing Authority community gardening program. She is a landscape designer and a certified horticultural therapist. She has volunteered over the past year doing background work for a grant proposal to enhance children's programming. You may reach Harriet on Tuesday mornings and all day on Thursdays at 919-515-3132.

I hope you'll join me in welcoming Doug, Jonathan, and Harriet to the team. Thanks to them, to our permanent staff, and to all our friends and supporters near and far, the Arboretum continues to grow and flourish. It is an honor and a privilege to work with you all to fulfill the Arboretum's mission: promoting new and better adapted plants for a better world.

Bryce Lane
Arboretum Director

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Editor's Mailbox

Would everyone please take a minute to do a favor for the Arboretum? It won't even cost a penny. Go into your database or address book and change the Arboretum's address to: JC Raulston Arboretum, Department of Horticultural Science, Box 7609, Raleigh, NC 27695-7609. Thank you.

This year is the 50th anniversary of the Holly Society of America. The US Postal Service is celebrating the event with an American Holly stamp in October. The Holly Society has asked the Arboretum to do something to celebrate their golden anniversary. Any budding Holly enthusiasts care to organize an event?

At the summer trade show in Charlotte, a man in the snack food industry was looking for *Thaumatococcus daniellii* (sweet prayer plant), a plant used as a sweetener in Africa and China. He thinks there is a market for it here as a commercial sweetener. If you want to get in on the ground floor and know something about this plant, contact: Gary Dunn, 1400 Goldmine Rd. Monroe, NC 28111, 704-366-1518.

The new address of the North Carolina Arboretum is: The North Carolina Arboretum, 100 Frederick Law Olmsted Way, Asheville, NC 28806. The telephone number remains 704-665-2492. Everyone is encouraged to visit and see what they have done.

While visiting my hometown of Chillicothe, MO this summer, I went to a State Park that contained the last

wet-prairie habitat in the state. Much of Northwest MO was covered by these wetlands before being drained for farming. I observed a spectacular plant with obvious ornamental value, *Cephalanthus occidentalis* (Buttonbush). With dark green, glossy leaves and intriguing white flower balls, it seems a must shrub for anyone lucky enough to have wet areas, bogs or ponds. The September 15, 1997 American Nurseryman has a more complete profile on its back page. One local source is Cure Nursery, 880 Buteo Rd., Pittsboro NC 27312, 919-542-6186. If anyone knows other sources or has experience growing it, please contact Jonathan Nyberg, 919-515-3132.

Publications

For Japanese gardening enthusiasts, you might want to peruse a new publication: Roth-Journal of Japanese Gardening. Their flyer said, "We would like to down play the religious and symbolic aspects and focus on designing, building and maintaining Japanese Gardens." The address is: PO Box 159, Dept. B, Orefield, PA 18069.

The proceedings of the tenth conference on Restoring Southern Gardens and Landscapes have been published in a volume titled, The Influence of Women on the Southern Landscape. The jacket reads, "The essays in this volume bring together for the first time research on the relationship of women to the landscape of the South. They span centuries and cultures—from prehistoric women and horticulture, the backcountry housewife's use of

plants, and the life of the plantation mistress, to spirituality and memory in the gardens of modern-day African-American women." To order, contact: Old Salem, Box 10400, Winston-Salem, NC 27108, Attention: Mail Order. 800-822-5151.

Winston-Salem extension agent Toby Bost has authored the North Carolina Gardener's Guide. He is donating part of his proceeds from the book to the JC Raulston Arboretum. Take a look in your local bookstore, library or order directly from the publisher, Cool Springs Press at 888-591-5117. Thanks, Toby, for such generosity!

A special publication, "Horticultural Therapy and the Older Adult Population" is available from the American Horticultural Therapy Association for \$28.00. Call 301-948-3010 ext. 16 for more information. If you garden with the elderly at home or at work, consider buying this publication.

Plant News

JC Raulston Selections Program

In general, humans have an aversion to new things. People like what they know. They like what has been successful, especially if spending money is involved. "My daddy drove a chevy. My mamma planted yellow bells." People seek plants that are familiar, with proven performance. JC was very keen on involving the Arboretum more directly with retail customers. He saw that the Arboretum was in a position to act as a link between wholesale growers, retailers and the general public. With the JC Raulston Selections (JCRS) program, his vision has begun to take shape. The Arboretum is reaching directly to the retail customer to allay their fears about buying new plants. The JCRS tag on the plant will have the unwritten messages: this is a good plant, it has been tested at the JC Raulston Arboretum, trust it. If we are successful in getting that message across, more of the plants that JC promoted will be planted in the landscape. Thus, one of the missions of the Arboretum, to attain a more diverse landscape, will be advanced.

The JCRS is a joint program between the Arboretum and the NC Association of Nurserymen (NCAN). Twelve plants, chosen by committee for their beauty, adaptability, and mass marketability, have been selected for the inaugural release. One or more plants will be released annually. NCAN provided money for a greenhouse at the Arboretum to propagate future releases. They are also funding a part-time propagator.

Color display boards are available for retail outlets that will explain the program to customers. Plant tags are attached to the plants to identify it as a JCRS. Tags can be put on the plants by either the retailer or wholesaler. Leaflets developed for each plant will provide cultural information.

Ongoing information on the plants and on the program itself will be disseminated through trade publications and the popular press.

How can you support this program? By buying and growing these plants. If you are a wholesale grower or have a retail business and want information on purchasing JCRS tags, posters or leaflets, contact: Bill Wilder, NC Association of Nurserymen, PO Box 400, Knightdale, NC 27545, 919-266-3322. If you are a retail customer and want to purchase any of these plants, go to your favorite garden center. If they aren't currently selling the plants, ask them to special order the ones you want.

Huge thanks are due to Bill Wilder, his NCAN staff, and marketing committee members, David Johnson and Joe Stuffregan for the tremendous effort they are making to help put this program together. The Arboretum is very lucky to have them as collaborators!

Here are the inaugural JC Raulston Selections.

Eleutherococcus sieboldianus 'Variegatus' (Beautybriar Shrub, Fiveleaf Aralia). I call this plant, The Plant Formerly Known As *Acanthopanax* or TPFKAA. Yes, those pesky taxonomists searched far and wide for a name more intimidating than *Acanthopanax*—and they found it! Still, I predict great things for this shrub. It is deciduous with short, inconspicuous thorns which are quite sharp. This means the deer won't eat it, which I believe is becoming one of the most important determinants for shrub use in the suburban landscape. Another plus is its ability to thrive in dry shade, which we have in abundance around here. And finally, it just looks darn good. It has a soft, fluffy, creamy appearance that belies its thorny interior. TPFKAA grows in sun or shade, wet or dry

soils, 8' high and 8' wide. There's one at the Arboretum in the mixed shrub border. If you need a screen, cluster or specimen in a difficult area, consider TPFKAA. Just go to your garden center and say, "Do you have The Plant Formerly Known As *Acanthopanax*?" Zone 4.

Illicium parviflorum (Anise Shrub) This fairly well known southeastern US native broadleaved evergreen can give a different look depending on how it is sited. I've seen it in shady sites with the leaves 8"-10" long and 4"-5" wide, giving it a lush, tropical look. The color is an appealing olive-green. In contrast, when planted in full sun on poorer soils, it usually has much smaller leaves and more yellow color. In both cases, though, the leaves hold an extremely pleasant licorice fragrance that is released when crushed. For me, the fragrance alone is reason to grow this *Illicium*. It has no disease or insect problems and can grow 8' to 14' tall. Zone 7.

Viburnum awabuki 'Chindo' (Chindo Viburnum) This plant came back with JC from the 1985 Korean expedition. He selected it from a schoolyard on Chindo Island for its large mass of red berries. Unfortunately, it doesn't seem to set fruit here. The 15' high plant at the Arboretum was covered with clusters of small white flowers this spring but set only scattered fruits. Fortunately, there are other reasons to grow this plant and it is now widely available at garden centers in the Triangle. It is also popular in 10 gallon containers and larger for landscapers. Its use is mainly for hedges or screens. The Chindo has very handsome, glossy evergreen 6" leaves. It grows quickly to 15' but can be pruned to maintain a lower hedge. It is tolerant of sun or shade, wet or dry soils, with no pest problems. The Chindo does appear to be a solid zone 7 plant, however the colder the winter the better it will

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do with some protection. It produces extremely strong upright branches and can be planted close together for hedges. Once you recognize the Chindo, you'll see how widespread it is being planted, even making it into suburban development entrance plantings. The Chindo has great potential for overuse as a fast-growing, evergreen hedge. The leaves are so glossy and it grows so fast—who can resist?

***Ardisia japonica* 'Chirimen'** (Chirimen Ardisia) This was selected by the Arboretum for its hardiness. It is a non-aggressive spreader with deep green leaves that have bronzed tips. It is a plant for all seasons with delicate, star-shaped pink and white flowers in late spring and bright red fruits in winter. Plant this among your ferns, hostas, azaleas or other shade-loving plants. Zone 7b.

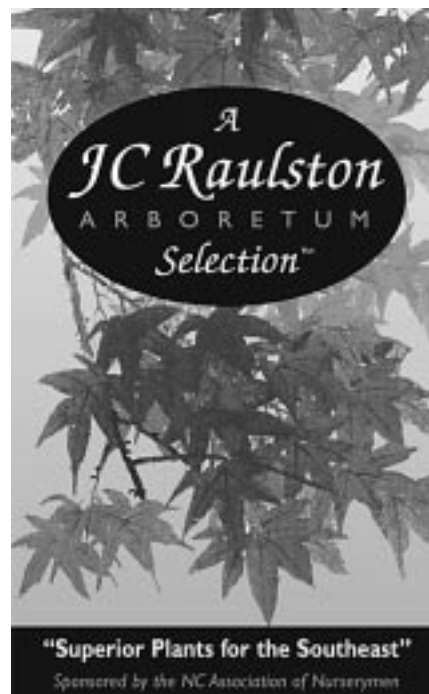
Ilex X 'Carolina Sentinel' (Carolina Sentinel Holly) This is a narrow, upright evergreen for hedges and screens. It has glossy 1"-2" leaves with red berries in winter. It grows at a moderate rate to 20' and is beginning to be available in the wholesale trade. I saw a three year old hedge at J.C. Taylor's house on the Fall Garden Tour. He planted them as cuttings in a shady location and they are now about three feet tall. It has no pest problems and tolerates sun or shade, wet or dry soils. At the Arboretum there is a hedge growing behind the JC Raulston Arboretum sign on Beryl Road. Drive by and see what you think. Zone 6.

***Campsis grandiflora* 'Morning Calm'** (Vine of the Morning Calm) This is a selection made by JC in Korea. It is a cousin of our native trumpetvine, *Campsis radicans*, but is decidedly less aggressive. Once you see the luscious 3" coral flowers

with yellow throats and hot pink veins, you can't even sleep until you possess one or two. However, you'd better get over it pretty quickly because it is not widely available. In fact, Gilbert's Nursery is the only source I was able to track down. It seems that it roots best on juvenile wood but flowers best on adult wood. So, there are production problems to overcome and it probably won't be widely available for some time. Look on the trellis in the mixed shrub border at the Arboretum to admire one and fuel your dreams. If you get one, plant it and have a little patience—you will be greatly rewarded. Zone 6.

Liquidambar styraciflua* var. *rotundifolia (Fruitless Sweetgum Tree) You can't use those nasty gumballs as an excuse not to plant sweetgums. I'm sure most people know the story of how this tree was found in the 1930's and languished around until JC started pushing it. The leaves are rounded, it tolerates a variety of sites, has excellent fall color, grows quickly to 60' and has no pest problems. Zone 6.

***Loropetalum chinense* var. *rubrum* 'Burgundy'** (Pink Loropetalum) Has a plant ever gone from 0 to 20 million in eight years? This plant was not even in the US before 1989, when it entered by many routes, causing enough confusion that DNA testing was employed to sort out all of the cultivars (see J. Environ. Hort. 14(1):38-41, March 1996; also see Dirr in Nursery Management and Production 11:30-31, 1995). JC was one of the first in the country to get this plant. It was named 'Burgundy' by the National Arboretum. It has burgundy evergreen leaves and sizzling pink flowers in late spring, blooming sporadically throughout the summer and fall. It grows rapidly into an irregularly rounded shrub 8'-12' high and wide. The main reason for the



This ID tag will be placed on JC Raulston Selection plants by either wholesalers or retailers.

millions in production is that it looks good during homeowner spring fever frenzy. It looks so cute in a one gallon pot it's hard to imagine it would ever get to 15'-20'. Give it plenty of space, unless you want to prune it regularly. For you folks that have a strong cutting instinct, espalier it in the ground or in a container. I've seen 3 gallon plants trellised and clipped at nursery trade shows and they are everything! This plant is very widely available. Zone 7.

Ilex X 'Carolina Cardinal' (Carolina Cardinal Holly) A deciduous holly is a notoriously hard sell in the nursery business. People just aren't going to garden centers in great numbers when the red berries are at their peak. They look very nondescript in leaf. The Carolina Cardinal has some nice features, though. First, the plant has a very heavy fruit set and the berries are quite persistent throughout the

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winter. Second, it has a lovely spreading habit that looks good in a small garden. It is a good deciduous holly for garden designers to keep in mind. It grows in sun or shade, moist or dry soil to 8' tall and about as wide. This holly is from a seedling, probably an *I. serrata* hybrid. The branches make colorful decorations during the holidays. The berries attract birds all winter. Zone 5.

***Hydrangea macrophylla* 'Pia'** (Pia Hydrangea) At the Arboretum, we planted this one foot dwarf hydrangea seven years ago. It is now a very rounded shrub three feet high and wide. It is healthy and vigorous with profuse pink blooms, of the hortensia type, throughout most of the summer. Ours is planted in fairly deep shade, where Pia performs best. Unlike many hydrangeas, Pia flowers remain pink even in acid soils. It is of unknown origin but according to one source, "...named in honor of Pia di Tolomei, one of Dante's tragic heroines in 'The Divine Comedy.'" The Pia has found a strong niche in the marketplace and is widely available. It is being sold for use in shady patio or courtyard gardens, or for mixing with larger hydrangeas. Zone 6.

***Rosa pimpinellifolia* 'Petite Pink Scotch'** (Petite Pink Scotch Rose) This is one of few roses JC ever promoted. It was discovered near Wilmington, NC and came to JC's attention via The Antique Rose Emporium of Texas. It has very fine foliage that reminds me of asparagus fern. In May it is solid with small pink flowers. There are two plantings in my Durham neighborhood that turn quite handsome the other 50 weeks. It grows rapidly to two-three feet and tolerates almost any soil conditions. I think it looks best where it can trail over a low wall. I've been told by

several people it doesn't do well near the coast. If anyone can tell me more about that I'd appreciate it. If you have a spot in the garden that gets hot sun and has little water then this might be a good plant to try. Zone 6.

***Gardenia jasminoides* 'Kleim's Hardy'** (Kleim's Hardy Gardenia) In the last Update I requested help in tracking down the source of this plant. Several calls led me to a West coast plantsman named Don Kleim. Unfortunately, Mr. Kleim died last November. It sounds like he was an extraordinary man who was involved in plant breeding, wholesale and retail nurseries, and landscaping. He was thought to have the most complete collection of deciduous magnolias in the US and worked extensively with Japanese maples—just the kind of man JC would have sought out. His business, Henderson Experimental Gardens in Clovis, CA, can't find records of a Kleim's Hardy Gardenia, but is still looking through Mr. Kleim's extensive estate. Given the above information I think it is safe to say that the cultivar name is spelled correctly.

On the question of hardiness, I talked to many people. Most report that the tops die back between 5-10 degrees F. But there are still reports of it surviving 0 degrees with no damage to the tops. It is selling well at garden centers and is becoming widely available. The flowers are single, 1" to 3" long and occur profusely in May, June, and sporadically until frost. They are extremely fragrant but tend to turn an unsightly brown when finished blooming. It grows best in part sun to light shade and prefers winter protection. The leaves are evergreen, 2" to 4" long, thick and glossy. Plant it near a deck, walkway or patio where people can enjoy its tantalizing fragrance. Zone 7b(?).

Jonathan Nyberg
Program Coordinator

Plants Distributed at 1997 NCAN Charlotte Short Course and Trade Show

Each year superior, yet underutilized, plants are selected by the JC Raulston Arboretum and distributed at the North Carolina Association of Nurserymen (NCAN) annual summer trade show to interested nurserymen. This distribution serves to introduce a greater diversity of potential landscape plants into the nursery industry for trial, observation, and commercial production. Since 1980, over 76,500 plants comprising 413 species and cultivars have been released through this program. As part of our active campaign to continually introduce plants into the market, the JC Raulston Arboretum invites interested parties to attend the summer trade show in Charlotte and participate in our introductions program. In addition, nursery professionals are encouraged to take cuttings at the Arboretum (with prior approval). Please call (919) 515-3132 for further information.

The following plants were released this year at the NCAN trade show in Charlotte. A wide range of plants, both woody and herbaceous, native and exotic, are represented by this year's selections. Some plants chosen are personal "favorites" of Arboretum staff, while several others are re-releases from previous distributions.

These plants were also on display at the Southern Nursery Association trade show in Atlanta, August 1-3, 1997.

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The 1997 Distribution Plants

9701 *Athyrium japonicum* — “black lady fern” or “Japanese lady fern” (Woodsiaceae / Dryopteridaceae) — This fern, native to much of eastern Asia, was collected by JC on the 1985 Korean Expedition. Related to the commonly grown Japanese painted fern (*Athyrium niponicum* ‘Pictum’), black lady fern is valued for its dark green, nearly black, fronds which emerge later than other ferns. Hardy to Zone 6, black lady fern has performed very well in Raleigh area gardens, but is only rarely sold. It is a slowly spreading fern, with the fronds rising up to 18-24", and is deciduous during the winter. References list it under several other names, including *Lunathyrium japonicum* (Jones, Encyclopedia of Ferns), *Deparia japonica* (Flora of North America, vol. 2), and *Deparia petersenii* (Griffiths, RHS Index of Garden Plants; but Flora of North America, vol. 2, indicates that this name refers to a different fern species). Under whichever name is followed, black lady fern deserves wider use in American gardens, especially those in the Southeast.

9702 *Aucuba japonica* ‘Rozannie’ — “Rozannie’ Japanese aucuba” (Cornaceae) — Brought to North Carolina by JC from England in 1988, ‘Rozannie’ is a compact, green-leaved cultivar of the widely grown Japanese aucuba. Ten-year-old plants are only 3' tall in the Arboretum. Whereas most aucubas are valued for their showy, variegated foliage, ‘Rozannie’ is grown for its large fruit, being a self-fruitful (hermaphroditic) clone. (Aucubas are dioecious shrubs, with male plants needed to pollinate flowers on female plants. ‘Rozannie’ is an exception to this generalization.) Dutch nurseries have promoted ‘Rozannie’ as a decorative

potted plant in Europe due to its heavy fruit set on small, young specimens. However, plants grown in the southeastern U.S. have not been particularly fruitful, thus far. This plant is in need of further trial and research to find out if plants can flower and set fruit without cross-pollination in the Southern climate, thereby assuring heavy fruit set. Alternatively, any observations from nurserymen on whether flowers are perfectly formed or not would provide useful information in solving this perplexing problem, which is limiting an otherwise potentially highly ornamental aucuba cultivar. ‘Rozannie’ is less sun tolerant than other aucubas, with foliar bleaching occurring on specimens grown in full sun. Plants are easily rooted from semi-hardwood and softwood cuttings.

9703 *Baptisia pendula* — “false white indigo” or “nodding white indigo” (Leguminosae) — A superb native perennial, beautiful both in flower and foliage, while also one of the toughest plants available, *Baptisia pendula* deserves wider use. White, pea-like flowers are held above the foliage on 2' erect racemes. Pods are inflated, green at first, turning black at maturity, and pendant. A 10-year-old plant at the Arboretum now measures over 4' across and 3' tall. The green foliage, tinted blue, persists until first frost. Taxonomically, this species is now lumped with the related *Baptisia alba* by some botanists (see Armitage Herbaceous Perennial Plants..., 2nd ed., for more information); although plants can easily be distinguished by the pendulous (*B. pendula*) versus erect (*B. alba*) pods. British horticultural references still recognize *Baptisia pendula* as a species (Griffiths RHS Index of Gardening; Lord RHS Plant Finder). Perhaps this plant should now be referred to as *Baptisia alba* Pendula group (see RHS Plant Finder for explanation of the “group” concept). Plants are readily

propagated by seed, where available, or hardened cuttings in early summer, although overwintering has been reportedly problematic for cutting-grown plants. *Baptisia* species will readily hybridize when grown in close proximity. Therefore, seed-grown plants must be collected from isolated specimens to obtain true-to-type plants.

9704 *Buxus sempervirens* ‘Pyramidalis’ — “pyramidal English boxwood” (Buxaceae) — Most boxwoods grown in the U.S. are small, compact “green meatballs”. This rarely-offered cultivar is just the opposite, a tall shrub (maybe a small tree in 50 years) with a broad pyramidal shape. A mature plant at the Arboretum now measures nearly 12' tall and 8' wide at the base. This selection is offered as a potential tough, albeit slow-growing, screen. Pyramidal English boxwood will work superbly in formal landscapes where a large, sheared, upright specimen plant is needed. Unlike most hollies, this plant is easily maintained at a constant size without constant pruning, due to its slower growth rate. This boxwood is easily rooted from semi-hardwood stem cuttings.

9705 *Buxus sinica* — “Chinese boxwood” (Buxaceae) — This Chinese relative of the much more commonly cultivated Japanese boxwood (*Buxus microphylla* var. *japonica*) should be considered for wider use in the southeastern U.S. *Buxus sinica* has larger leaves and grows taller than most of the commonly grown boxwoods. Without shearing, Chinese boxwood develops a more open habit than other boxwoods. The leaves mature to a lime-green color, not as dark as the lustrous, dark green color associated with English boxwood. Foliage color is darker in shade than sun. Chinese boxwood is shade tolerant, has withstood Raleigh (Zone 7b) winters, and is hardy to Zone 6. Plants

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are easily rooted from semi-hardwood cuttings. Most references list this species as a variety of the littleleaf boxwood: *Buxus microphylla* var. *sinica*.

9706 *Camellia japonica* 'Alba Superba' — “white-flowered Japanese camellia” (Theaceae) — A large-flowered, semi-double to incompletely double Japanese camellia, ‘Alba Superba’ offers some of the largest flowers available in a white-flowered camellia. It also readily produces the curious, quince-like fruits. Being one of the older camellia cultivars, ‘Alba Superba’ is rarely offered except by nurserymen who specialize in camellias. The specimen located at the Arboretum, planted on a site with little protection, does show signs of previous winter injury (probably dating back to one of the extremely cold winters of the early 1980’s). Hardy in more “typical” Southern winters. Plants are propagated by late winter hardwood cuttings. Plants can also be propagated by grafting.

9707a *Camellia sasanqua* 'Hiryu' — “‘Hiryu’ sasanqua camellia” (Theaceae) — ‘Hiryu’, a sasanqua camellia with crimson-red, single to semi-double flowers, is an infrequently cultivated cultivar of the commonly grown sasanquas. Whereas many pink- to white-flowered sasanquas are readily found in the nursery trade, few good red cultivars are available (e.g. ‘Yuletide’, ‘Bonanza’). A mature plant of ‘Hiryu’ now measures 8’ tall in the Arboretum and has no signs of previous winter damage.

OR

9707b *Camellia* X ‘Carolina Moonmist’ — “‘Carolina Moonmist’ camellia (Theaceae) — This re-re-

lease of a camellia selected from a plant at the Arboretum, ‘Carolina Moonmist’ is a relatively new hybrid valued for its hardiness. One of the parents is *Camellia oleifera*, the tea-oil camellia from China, which imparts extreme cold hardiness onto other camellias with which it is crossed. ‘Carolina Moonmist’ blooms pink flowers, semi-double, in autumn. It is a vigorous grower, and will more so resemble the sasanqua than the Japanese camellias in stature over time.

9708 Dropped from distribution schedule. Potential release next year.

9709 *Chamaecyparis thyoides* — “Atlantic white-cedar” (Cupressaceae) — A vastly underutilized, native conifer which grows in boggy environments, Atlantic white-cedar is also tolerant of conditions found in many urban settings. Valued for its medium to dark to blue-green, soft foliage, this conifer has much potential both as a Leyland cypress replacement and as a Christmas tree. Superior selections of this conifer are being evaluated in programs at the JC Raulston Arboretum as well as at the University of Georgia and interested nurseries. Plants are easily propagated from cuttings or seed. Plants distributed are seed grown from various provenances.

9710 Dropped from distribution schedule. Potential release next year.

9711 *Dasyllirion* sp. — “blue sotol” (Agavaceae) — A *Yucca* relative from Mexico and the southern U.S. with blue-tinted linear leaves, studded with marginal spines, this *Dasyllirion* was originally collected by the intrepid plant explorers at Yucca Do Nursery, Texas. Although not yet identified to species, this sotol has thrived in the Arboretum and other Raleigh locations, thus indicating its hardiness.

Mature plants produce stunning 15’ spikes laden with tiny lily-like greenish-white flowers. Plants are propagated from seed.

9712 X*Fatsyhedera lizei* ‘Monstrosa Variegata’ — “variegated fatsyhedera” (Araliaceae) — With some protection, this uncommon variegated cultivar of fatsyhedera (*Fatsia japonica* (*Hedera helix*)) has overwintered well at the Arboretum. This cultivar has leaves edged with a thin, white margin, and a marbled-white overlay over the rest of the leaf. Variegation is not as showy, however, under high fertilization rates. Fatsyhedera is a highly shade tolerant plant which will form a medium-sized shrub of loose habit, weakly climbing, sometimes arching over under its own weight, in time. It is a great accent plant for dark corners.

9713 *Hedera nepalensis* var. *sinensis* ‘Marbled Dragon’ — “variegated Nepal ivy” or “variegated Himalayan ivy” (Araliaceae) — This vine or groundcover is an ivy with interesting broad lime-green venation patterns set within narrow 3-lobed leaves. Nepal ivy will grow in similar settings as does the much more familiar English ivy. Hardiness is listed as Zone 8 (in British references); however plants have survived for years at the Arboretum in Zone 7b. (A commonly observed phenomenon is that plants brought to the U.S. from England are observed to be 10-20% F more cold hardy here due to summer ripening of the wood from our hot summers. This may explain why we have successfully grown Nepal ivy in Raleigh.) Mature plants of ‘Marbled Dragon’, which are not yet extant in the southern U.S., exhibit striking yellowish-orange fruit in umbels like those found on mature English ivy (which has black fruit). Plants are very easily rooted, with only single-node cuttings needed to produce new plants.

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9714 *Hypericum frondosum* — “golden St. Johnswort” or “shrubby St. Johnswort” (Hypericaceae / Clusiaceae) — Golden St. Johnswort is a superb, highly attractive, native shrub forming a low (3-4' tall) rounded dome in time. It is grown for its rich blue-green foliage, which adds a soothing effect to the harsh Southern summer heat, and the shocking, golden-yellow summer flowers. The flowers open over an extended period, rather than all at once, thereby increasing the plant's utility as a shrub providing weeks of interest during the heat of mid-summer. Multi-season ornamental value is also evident in the winter aspect of the plant, due to the showy, rich, cinnamon-colored, flaking bark. Few plants can provide ornamental interest throughout the year as golden St. Johnswort does. Of the many native hypericums, *Hypericum frondosum* is one of the finest, a vastly underutilized shrub displaying superb landscape adaptability and versatility and sheer toughness.

9715 *Ligustrum japonicum* 'Green Meatball' — “Green Meatball” Japanese privet” (Oleaceae) — A new introduction of a widely cultivated species, ‘Green Meatball’ (a name given to the plant by JC, but inspired by colloquial terminology coined by Dr. Michael Dirr of the University of Georgia) is a compact selection of Japanese privet derived from seed collected by JC in Korea on the 1985 Expedition. ‘Green Meatball’ is characterized by slightly smaller leaves than ‘Recurvifolium’ and ‘Texanum’ and a globe-shaped habit which is attained without shearing — a feature observed by visiting nurserymen at the Arboretum. As with other ligustrums, ‘Green Meatball’ is readily propagated from stem cuttings year-round.

9716 *Ligustrum sinense* 'Wimbei' — “dwarf privet” (Oleaceae) — ‘Wimbei’ (originally called ‘Wimbish’) is a cultivar of Chinese privet with upright growth and very densely packed leaves, appearing as a bonsai subject. The original plant in the Arboretum is now 8' tall with an open habit at the base, but could be kept smaller and denser with shearing. Although appearing to be a specialty plant, ‘Wimbei’ attract much interest from passers-by in the Arboretum. It is adaptable to almost any growing condition and is easily propagated from cuttings. This plant was previously released as *Ligustrum sinense* ‘Wimbish’.

9717a *Maesa hupehensis* — “Hubei maesa” (Myrsinaceae) — A species from Hubei Province (formerly called Hupeh Province) in central China, *Maesa hupehensis* is related to the more familiar *Ardisia*. The genus *Maesa* contains nearly 200 species, of which none are widely known in cultivation. The genus is unfamiliar even in botanical collections. [Flora of China](#) (vol. 15) lists 29 species of *Maesa* native to China. The plants being distributed were received as seed collected in China. These seed readily germinated and have now grown to fill gallon pots within 3 months of transplanting from seedling flats. *Maesa hupehensis* will form a large shrub (up to 12' tall). It is grown primarily for its glossy, dark green, evergreen foliage, with inconspicuous flowers produced in axillary racemes. Foliage color is best in shade, with bleaching occurring on sun-grown plants. The leaves are coarsely toothed (a factor which easily separates this species from the Japanese maesa, *Maesa japonica*, which has more blunt toothed leaves). Cold hardiness is unknown, although most references ([Hortus III](#); Griffiths, [RHS Index of Gardening](#)) indicate that related species are confined to

Zone 10 (tropical). Since parts of Hubei Province have a climate similar to USDA Zone 7, this species may be hardy in parts of the southern U.S. (Many plants native to Yunnan Province, far to the southwest of Hubei Province, have proven hardy in Raleigh.) Plants are distributed for trial purposes only. Any information regarding this species' performance relayed back to the JC Raulston Arboretum will be greatly appreciated. Plants do not exactly fit the description for *Maesa hupehensis* in [Flora of China](#) vol. 15, thus making the species' identification tentative.

9717b *Maesa japonica* — “Japanese maesa” (Myrsinaceae) — Native from southern Japan across eastern Asia, *Maesa japonica* is only rarely encountered in botanical collections in U.S. botanical institutions. Like its Chinese cousin, Japanese maesa forms a small- to medium-sized shrub (3-10') at maturity. Specimens grown at the Arboretum from seed (readily germinated) have grown very fast in containers. The evergreen foliage is an attractive blue-green to light-green color, with bleaching occurring on specimens grown in full sun. Plants grown in light to heavy shade remain dense. Ohwi ([Flora of Japan](#)) indicates that this species is dioecious, producing milky white, globose fruit in short axillary racemes on female plants. Although prior accessions of *Maesa japonica* have proven to be tender in Zone 7, the seed sent to us from China may represent more cold tolerant germplasm, especially since the species has such a broad geographic distribution. Plants are being distributed for trial purposes only.

9718 *Nolina microcarpa* — “sacahuista bear-grass” (Agavaceae) — A *Yucca* and *Dasyllirion* relative native to the Southwest and Mexico, *Nolina microcarpa* forms a dense
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basal rosette of narrow, grasslike leaves with razor-sharp edges. Flower spikes occur on mature plants and rise to 18" tall, bearing many tiny, yellowish, lily-like flowers. Several years may be required before plants reach flowering size. Several *Nolina* species, including this one, have proven both cold hardy and adaptable to Piedmont clay soils at the Arboretum.

9719 *Nyssa sinensis* — “Chinese black gum” (Nyssaceae / Cornaceae) — A Chinese relative to our native black gum (*Nyssa sylvatica*), *Nyssa sinensis* has larger leaves and quickly attains tree proportions. Chinese black gum possesses superior red-orange fall color as well as adaptability to harsh soils, including poorly drained soils. Plants are grown from seed from a 30' tree in the Arboretum. (With other *Nyssa* planted nearby, however, these progeny may be of hybrid origin.) Seedling growth rates are very fast, especially when fertilized. Cutting propagation is still not a viable means of propagation. Plants are hardy at least to Zone 7.

9720 *Phellodendron amurense* — “Amur cork tree” (Rutaceae) — Amur cork tree is a deciduous, medium-sized (30-50' tall) shade tree normally encountered only in northern U.S. cities and arboreta, but which has performed splendidly in Raleigh. It is native to Japan, Korea, northern China and extreme southeastern Russia. The literature on this plant commonly cites the species' high tolerance to urban conditions, including air pollution, extremes of soil pH, and drought. However, Dirr ([Manual of Woody Landscape Plants](#)) indicates that some of these claims do not hold upon close observation of planted specimens. The plant located at the Arboretum adjacent to the parking lot has grown well, with rapid growth in

youth and clear green, unblemished summer foliage. Perhaps the original plant at the Arboretum was grown from seed collected in a part of east Asia with higher summer temperatures than the collecting sites for much of the original introductions of *Phellodendron amurense* into the northeastern U.S. Clearly, our specimen at the Arboretum does not exhibit any symptoms of stress as has been observed by Dirr and others on plants grown from trees in the northeastern U.S., suggesting that the tree in Raleigh might represent germplasm better adapted to the Southern climate. Fall color on Raleigh plants is a clear butter-yellow. Attractive corky bark is found on older plants. We believe that this plant has potential as a future street tree, since the mature (15 year-old), statuesque tree at the Arboretum now measures only 25' tall. Plants being distributed are grown from seed collected from this tree. Some damping-off has been observed on seedlings, although we believe this to be due to a batch of contaminated media used during transplanting.

9721 *Rosa* (‘Nastarina’ — “‘Nastarina’ rose” (Rosaceae) — ‘Nastarina’ rose, an introduction from the Antique Rose Emporium (Brenham, Texas), has charmed visitors to the White Garden at the Arboretum since it was first planted. Although not completely disease free (what rose is!?), ‘Nastarina’ is valued for its nearly continuous spring and summer bloom of small (1" diameter) double, light-pink to white flowers. ‘Nastarina’ climbs on structures with some support or will vine along the ground, forming a moderately dense clump. Plants are easily rooted from stem cuttings.

9722 *Scilla scilloides* — “Chinese squill” (Hyacinthaceae / Liliaceae) — A small-statured bulb, Chinese squill produces lavender flowers set on 1'

tall racemes in August to September. (Yes, we know that squills are supposed to be spring bloomers. This one didn't read the books, evidently.) Native to Korea, Japan, and China, *Scilla scilloides* has proven surprisingly adaptable to the Southeast, to the point that it actually freely self-sows. The bulbs superbly tolerate our wet and hot summer soils (a tall order for most bulbs). Plants have flourished in both sun and shade.

9723 *Stachyurus himalaicus* — “Himalayan stachyurus” (Stachyuraceae) — Related to the more “commonly” grown (not really common, though) Japanese stachyurus (*Stachyurus praecox*), Himalayan stachyurus likewise is grown as a large (10' tall) shrub, wide-spreading, which produces wine-purple to rose-pink flowers in 3-4" long axillary racemes. Hardiness of this species is still not exactly known, as it has not yet been growing long enough in the Southeast for accurate cold hardiness assessments. The plants being distributed are grown from Chinese seed. With a broad geographic distribution from the eastern Himalayas to central China, Himalayan stachyurus should prove adaptable to the climate of the Carolinas. No information exists about cutting propagation for this species.

9724 Dropped from distribution schedule. Potential release next year.

9725 *Trachycarpus fortunei* — “windmill palm” or “Chusan palm” (Palmae) — The hardiest tree-form palm in cultivation, windmill palm has long graced Zone 8 (and warmer) gardens in the southern U.S. Performance in Zone 7 has been mixed, with old specimens growing well until the harsh freezes of the 1980's and other more recent severe winters. The seedlings being distributed were

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collected from an old, established tree at Taylor's Nursery (Raleigh, NC) which has survived at least -15 F. The offspring from this plant are at least 1 cold hardiness zone hardier than typically encountered windmill palms, and should be hardy to Zone (6) 7-10. Plants are best grown in full sun, although light shade is tolerable. Seedlings should be protected for the first 2-3 years during harsh freezes, however. Windmill palms tend to acquire maximum cold tolerance after several years' growth. Plants can only be propagated by seed.

9726 *Ungadia speciosa*—“Mexican buckeye” or “Texas buckeye” (Sapindaceae) — Not really a buckeye at all, Mexican buckeye is instead related to the goldenrain trees (*Koelreuteria*) and soapberries (*Sapindus*). This plant forms a small tree, up to 30' tall, and produces rose-pink flowers before the leaves emerge in spring. Many people are fooled into thinking the plant is an 'Okame' cherry (*Prunus* ('Okame')) from a distance when the plant is in flower. Leaves are alternate and pinnately compound with 5-9 leaflets. Plants being distributed are propagated by seed from a mature plant at the Arboretum. Mexican buckeye remains a vastly underappreciated U.S. native.

Todd Lasseigne
Laura Jull
NCSU PhD Candidates

Editor's note: The Arboretum was very fortunate this summer to have graduate students Laura Jull and Todd Lasseigne working with us. Todd is a real Cajun from Thibodaux, Louisiana—and cooks a mean jambalaya. He received his bachelor's degree in horticulture from the University of Southwestern Loui-

siana and his master's degree from the University of Georgia at Athens. Todd knows more about plants than anyone should at such a tender age. His PhD work is studying the heat tolerance of ornamental plants at NCSU.

Laura received her bachelor's degree in horticulture from Michigan State University in 1991 and her master's in horticulture from NCSU in 1994. Her PhD work is in seed germination and heat tolerance of *Chamaecyparis thyoides*. After completing her PhD 6 months from now, her goal is to “get a life” while teaching at a university or working at a public garden. Thanks to Laura and Todd for all of their work this summer, working at both SNA and Charlotte, and especially for writing these profiles.

Plants Under Evaluation at the Arboretum

The following plants were displayed at the 1997 NCAN summer trade show in Charlotte and at the SNA trade show in Atlanta. They are being evaluated for cold hardiness, heat tolerance and landscape adaptability.

1. ***Acer ningpoense***—“Formosan trident maple” (Aceraceae)—This maple species is native to the island of Taiwan and is most closely related to the commonly cultivated trident maple (*Acer buergerianum*). It is also sometimes classified as a subspecies of trident maple, *Acer buergerianum* ssp. *ningpoense*. Although possibly not as cold hardy as trident maple (due to its nativity in Taiwan, located off the southeastern Chinese coast). Formosan trident maple may be more heat tolerant and thus adaptable to Zone 9, where *Acer buergerianum* is not a strong grower. Plants are rooted from semi-hardwood cuttings.

2. ***Boeninghausenia albiflora***—no common name (Rutaceae)—An entirely new genus for us here in Raleigh, this plant is most closely related to the culinary herb “rue” (*Ruta graveolens*) and the herbaceous perennial called “gas plant” (*Dictamnus albus*) of the citrus family. Listed as hardy to Zone 8 in [Hortus III](#), but native from the Himalayas to Japan, this plant may prove more cold hardy than expected. Completely heat tolerant in a location with full sun exposure at the Arboretum. Leaves are lime-green to yellow-green in color, compound, and have a foul odor when crushed. Our plant has been in continuous bloom for over 3 months now, with small white flowers, not individually showy, but producing a white cast to the entire plant. Foliage may have a darker green color for shade-grown plants.

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3. ***Carpinus turczaninowii***—“Turczaninov’s hornbeam” (Betulaceae)—An exciting and rarely cultivated hornbeam from northern China and Korea, this plant forms a small tree in cultivation. It is noted for its striking, highly textured foliage and reddish young twigs and yellow fall color. Hardy to Zone 6. Propagation is uncertain at this writing, but semi-hardwood cuttings taken in early summer may root.

4. ***Ceris chuniana* and *Ceris racemosa***—“Chun’s redbud” and “chain-flowered redbud” (Leguminosae)—We received seed of these two redbuds from Chinese Index Semina, from which two seedlings (one of each species) now display rich red tones on young foliage, especially along the veins. Should these traits remain stable, they will offer the first truly red-pigmented foliage in a Chinese redbud species, although there is still much room for improvement. Further trial of these plants is underway at the Arboretum, along with many other redbuds.

5. ***Cornus capitata* ‘Mountain Moon’**—“Mountain Moon Himalayan evergreen dogwood” (Cornaceae)—Received from Piroche Plants (Pitt Meadows, British Columbia) this plant represents the first cultivar of *Cornus capitata*, a relative to the kousa dogwood (*Cornus kousa*). I am not aware of how ‘Mountain Moon’ differs from typical *Cornus capitata*. Himalayan evergreen dogwood is not usually regarded as being among the hardest of dogwoods. However, if the cultivar name is any hint, perhaps greater cold tolerance is embodied in this genotype. ‘Mountain Moon’ was planted out this year in the Arboretum and has yet to go through an actual winter. *Cornus capitata* is easily distinguished from the evergreen kousa dogwood (*Cornus kousa* var.

angustata) by its rounded, rather than pointed, creamy-white bracts.

6. ***Euscaphis japonica***—“sweet-heart tree” (Staphyleaceae)—A tree introduced by JC from seed collected on the Korean expedition, sweetheart tree (a name coined by plantsman extraordinaire Don Shadow) is a spectacular new plant for southeastern U.S. landscapes. Attractive, fine striped bark, glossy, dark green spring, and summer foliage, and showy, rose-pink capsular fruit all call attention to *Euscaphis* year-round. Plants, once established, are vigorous growers. Plants are propagated by seed (which possess double dormancy). Cutting propagation is still not fully known.

7. ***Ficus tikoua***—no common name (Moraceae)—Don’t look for this plant in any reference books! It’s not there! This virtually unknown creeping fig forms a coarse groundcover with interesting dark green foliage (2-3” long x 1” wide) in partial shade. A nice planting exists on the campus of the University of Southwestern Louisiana (Lafayette, LA). Although not likely fully hardy (may be root hardy, though) in Zone 7, this new creeping fig will almost certainly be a fine addition to Zone 8+ gardens. *Ficus tikoua* is nonexistent in the nursery trade, even among specialty nurseries.

8. ***Halocarpus bidwillii***—“New Zealand mountain pine” or tarwood (Podocarpaceae)—A relative of the podocarps (*Podocarpus* species), we are trialing this virtually unknown evergreen conifer originally received from Atlanta Botanical Garden for cold hardiness and heat tolerance. A plant in Atlanta is several years old and has grown well, despite competition from nearby wax myrtle, and stands at 3-4’ tall. In New Zealand, *Halocarpus bidwillii* grows in swamps and subalpine regions. Its fast growth

rate and soft, medium-green foliage make this plant a potential subject for future nursery production. Further trial of Zealand mountain pine is needed in Zones 8+. Plants were formerly named *Dacrydium bidwillii*.

9. ***Illicium mexicanum* ‘Aztec Fire’**—“Aztec Fire Mexican anise-tree” (Illiciaceae)—This superior selection of the Mexican anise-tree was found by JC when he joined the Yucca Do Nursery explorers (John Frye and Carl Schoenfeld) on an expedition to northeastern Mexico. ‘Aztec Fire’ is distinguished from typical *Illicium mexicanum* by its larger flowers, which are borne on longer peduncles, thus extending the flowers further outward away from the stems—overall, more showy in flower. Plants have been fully hardy in Raleigh. ‘Aztec Fire’ is best grown in some shade, although plants will adapt to full sunlight within three years, as long as the soil is not too dry. Plants are produced by cuttings.

10. ***Liquidambar styraciflua* ‘Starlight’**—“Starlight variegated sweet gum” (Hamamelidaceae)—This variegated selection of our native sweet gum was found as a chance seedling in the Raleigh area. The variegation pattern develops, especially with high temperature, as white speckles over the entire leaf blade. Early spring leaves are almost entirely green, but by summer the leaves appear as if spray-painted with white dots. Variegation does not appear to burn in sunlight; although shade is advisable for trial plants. This plant may be the same as ‘Frosty’, a variegated sweet gum selection found and named by Raleigh-area plantsman Tony Avent.

11. ***Lonicera* ‘Navasota, Texas’**—“Navasota honeysuckle” (Caprifoliaceae)—The name of this plant has gone from “Novasoga” to “Navasota” and has now finally come
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to rest (we hope) with "Navasota." By whatever name, this new climbing honeysuckle was discovered in the Texas town of the same name (whatever it is!!) and is valued for its clusters of two-lipped reddish-pink and white flowers produced in abundance in spring and sporadically throughout the summer. It's true identity is not yet known, but Navasota honeysuckle may simply be a form of the European woodbine (*Lonicera periclymenum*) or a hybrid of its with coral honeysuckle (*Lonicera sempervirens*). Plants possess attractive foliage with bluish-white undersides and dark purple stems. Semi-hardwood and softwood cuttings root readily.

12. ***Myrica cerifera* (variegated)** — "variegated southern wax myrtle" (Myricaceae)—Found by NCSU undergraduate horticulture student Richard Olsen, this variegated sport on the commonly grown Southern wax myrtle is currently being bulk up for future evaluation. The stability of the variegation is unknown at this point, but the plant definitely appears to have market potential.

13. ***Rhamnus alaternus* 'Variegatus'** — "variegated buckthorn" (Rhamnaceae)—An evergreen, large shrub usually seen in Europe, this buckthorn is surprisingly unknown in the eastern U.S. Native to the Mediterranean, the hardiness of this buckthorn is uncertain, and plants may need protection in Zone 7 for satisfactory garden performance. Further testing of the plant is currently underway at the Arboretum. Plants are propagated from cuttings.

Todd Lasseigne
NCSU PhD Candidate

Raise the Roof Campaign

Thanks to recent gifts, the Raise the Roof Campaign exceeded \$1.2 million in gifts and pledges for the future education center. Here are the details on some of the gifts.

SNA Campaign

At the Past President's Banquet at the Southern Nursery Association's annual conference in Atlanta on August 2, 1997, campaign leadership formally announced a fund drive to raise \$500,000 for the Arboretum education center in JC Raulston's memory. Dr. Michael Dirr, University of Georgia, Mr. Don Shadow, President of Shadow Nursery, and Mr. Bill Wilder, Executive Director of the NC Association of Nurserymen, approached the participants at the banquet with a request for significant contributions. Before people were seated in the banquet hall, four students, Todd Lasseigne, Keith Cote, Dale Witt, and myself, placed campaign pledge forms on every seat in the room.

Following the delicious meal and program, Dirr and Shadow kicked off this grassroots campaign that will take the Arboretum into the 21st century. The horticultural education center will provide not only a place for teaching, but also a location that will host dozens of speakers each year, a longtime dream of JC's.

Laura Jull

Fairview Garden Center Honors JC

In early 1997, Nelsa Cox contacted the Arboretum to discuss Fairview Garden Center's desire to do something special in memory of JC Raulston. And indeed they did.

"When we heard about JC's death,

the owners and staff of Fairview sat down to figure out some way to show appreciation of JC and all he did for us," said Nelsa. "We decided that a percentage of all tree sales for the first six months of the year would be dedicated to the education center in his memory."

This summer, Fairview Garden Center made an extraordinary gift of \$10,000 toward the education center.

"I want to express the deepest appreciation to JoAnn Dewar, Susan Rollins, Wayne Dewar, and the rest of the Dewar family, as well as to Fairview's staff," said Arboretum director Bryce Lane. "This is a meaningful and pacesetting gift, especially coming at the beginning of SNA's green industry campaign."

Fairview also is showcasing a JC Raulston Selections collection in their new display gardens.

Construction Drawing Funds

The North Carolina state legislature appropriated \$87,000 to the JC Raulston Arboretum for the completion of construction drawings for the education center. This is the first direct state funding that the Arboretum has ever received.

"We appreciate this very meaningful support, and hope that everyone will express special thanks to the bill's sponsors, Senators Plyler, Perdue, Guley, Hoyle, Kerr and Rand," said Bill Wilder, executive director of the NC Association of Nurserymen. "This is an important moment, not just for the Arboretum, but for North Carolina's green industry."

"We must now redouble our efforts in the final months of 1997 to show the strong, statewide community support for the Arboretum."

Development News

District 10 Garden Clubs Team Up

It all began on a wintry day in the Arboretum classroom, where Verna Medeiros and Anne Clapp convened a handful of District 10 garden club presidents to discuss how to raise funds for the education center.

"We are excited about the Garden Club of North Carolina's permanent headquarters being in the education center," said district director Anne Clapp. "We in District 10 were determined to be a part of helping get this center built." What followed not only raised funds for the center, but fully combined the efforts of Wake and Franklin County garden clubs for the first time in decades.

On September 27, over 700 plant lovers enjoyed a glorious day touring six diverse and delightful gardens in Cary and Apex as a part of the first District 10 Fall Garden Tour. The event raised \$6,792 toward the district's goal of \$25,000 to name the Wall Garden lining the rooftop terrace.

Event co-chairs Medeiros and Clapp were joined by committee members Barbara Tetterton, Susan Hyte, Margaret Pearson, Margorie O'Keeffe, Pauline Pasour and Pat Olejar. Thanks also go to garden hosts Mary Edith and Howard Alexander, JC and Dot Taylor, Kathleen and Walt Thompson, Suzanne Edney, Tom and Sarah Harville, and William Sherwood.

Stay tuned for 1998 spring and fall tours. The fun has only just begun!

Franklin County Clubs Raise \$800

When the District 10 committee for the Raise the Roof project met to plan a large fund raiser for the whole dis-

trict, we also discussed ways we could participate as individual clubs. With this in mind, the four federated clubs in Franklin County - the Franklinton, Louisburg, Town and Country, and Martindale Clubs - agreed to have a joint plant, bake and yard sale in hope of raising \$500.

The Franklin County Cooperative Extension Service agreed to be a cosponsor, and gave us use of the large covered facility at the local farmers market. A fact sheet about the sale, the purpose and brief history of the JC Raulston Arboretum, plus information about the Raise the Roof campaign was provided to the local radio station, radio personalities and newspapers.

Posters were made and placed in Wake Forest, Youngsville, Franklinton and Louisburg. Signs for street corners were constructed. Finally, gardens and houses were stripped of any possible salable items.

In spite of a brief thundering downpour, we far exceeded our goal, and were delighted to present Verna Medeiros and Catherine Maxwell with a check for \$800.

Margaret Pearson

Atlantic Lawn and Garden Center

Customers at Atlantic Lawn and Garden Center's Crepe Myrtle Festival enjoyed a dunking booth, a sidewalk sale, and other festivities...and helped support the Arboretum. Proceeds from the crepe myrtle sales for the day - \$1,436 - were donated toward the education center.

"We just wanted to give something back to the Arboretum in return for all it does for the community," said owner Dave Reynolds. "We're pleased to be able to help."

Arboretum Receives IMS Grant

The Arboretum received a General Operating Support grant of \$76,942 from the Institute of Museum Services. This highly competitive grant, available to museums and public gardens nationwide, was awarded to less than 17% of the applicants. The grant is designed to provide unrestricted funds for general operations.

Regional News

High Point

High Point Friends of the Arboretum have yet another great event in the making. On November 5, they will host speaker Tony Avent at the High Point Country Club for an evening of good food and garden humor.

To attend, send a check for \$35 per person written to the High Point Friends of the Arboretum, 354 Park Drive, High Point, NC 27265. Reservations are due by October 31.

Greensboro

On October 7, Greensboro Friends of the Arboretum kicked off their local Raise the Roof drive, and held the first official regional plant distribution. Deborah Glass hosted the event in her lovely garden, and Scott Keener provided gourmet refreshments.

"It feels like Christmas," one participant said. And so it was, as Greensboro members old and new experienced first hand the Arboretum's mission: *to get those plants out there!*

The Greensboro Friends' next meeting is on Tuesday, November 11. If you would like to get involved, call Diane Flynt at 910-272-5939.

Mapping News

Beauties of the Arboretum

This spring I was lucky enough to be offered a temporary job at the JC Raulston Arboretum. My assignment was to complete the computer mapping of the Arboretum, all 165 beds. This meant I had to examine every plant in every bed as I mapped their placement on the computer. It was a unique opportunity to become familiar with plants in the Arboretum.

I started work in March and was delighted to find many plants already blooming profusely. In particular, I was awed by the number and variety of *Pieris* blooming in the Lathhouse. At that time, I couldn't tell one *Pieris* from another. I just knew they all looked wonderful.

I began mapping in the West Arboretum. The plantings there are some of the oldest. Many labels were missing, but I had hand drawn maps made by JC in the summer of 1996. One of the first plants to catch my attention, was *Magnolia X 'Elizabeth'*. It is deciduous with large light yellow blooms. A late spring frost destroyed the flowers, but while in bloom, it was one of the most beautiful plants in the Arboretum.

My next discovery was *Sophora davidii*. I had always liked *Sophora* for its finely textured compound leaves, but I was only familiar with *Sophora japonica*, the Chinese Scholar tree. *Sophora davidii* is also from China, but it is a large shrub, and has smaller leaves than *Sophora japonica*. When in bloom, it is covered with small pea-like white flowers. It stayed in bloom for about 2 weeks, and caught the attention of everyone who passed by.

When I was about half-way through mapping the West Arboretum, I discovered *Juniperus virginiana 'Grey Owl'*. Unlike the species, Grey Owl

has beautiful silver blue-green foliage and a rounder habit. It needs full sun and can grow up to 10 feet high.

After finishing the West Arboretum, I started working on the beds around the Southall building. At times I thought I would never get all the boxwoods identified and mapped correctly, but I finally finished with the boxwoods and moved onto the other Southall beds. Here I found the most beautiful conifer I had ever seen! Planted within a foot of the front wall of Southall is *Sequoia sempervirens 'Simpson's Silver.'* The tree is only about 4 feet tall, but it has wonderful blue-silver foliage which contrasts well with the reddish-brown bark. The next time you come to the Arboretum, it is worth seeking out.

Once Southall was finished, I started working on the Lath house which was renovated earlier this year by Rosemary Kautzky. Over the years, the plants had crowded together and it was often hard to tell which plant belonged to which label. Rosemary moved out many plants and added several new ones. The lath house now has a much more open feeling, and something is blooming in it all the time. The *Pieris* have already developed the buds which will open next spring. Many *Hostas* still remain and the last bed has two beautiful *Thalictrums* which have both attractive foliage and flowers.

I've moved on to the Japanese garden now, and look forward to discovering "new" plants in that garden as well as in the Klein-Pringle White Garden and the rest of the East Arboretum. Coming to the Arboretum almost every day of the week allows me to see it for the excellent collection of plants that it is. Some plants look wonderful year round, but some reach their peak for only a week or two. I've been lucky to see both kinds

of plants in the rainy spring and the dry summer. I'm looking forward to the autumn to see other beauties of the Arboretum.

Catherine Gaertner
Plant Recorder

Notes From Val

A lot is going on in the mapping realm. Catherine Gaertner is busy entering the results of the "mapping extravaganza" we had last January and February. The parking lot beds and west arboretum beds are finished, and she's made significant progress on the new lath house beds as well as the Southhall gardens. Many thanks again to all of you who withstood cold wind and bad copies of incomplete lists to produce the "snapshot" map of the Arboretum early this year. This has become a valuable set of working maps as well, of course, and you'll find copies of them in four loose-leaf binders on the desk in the Arboretum office near the cats' door. Mitzi's crew and the curators are keeping them up-to-date as they plant.

Edith Eddleman said it would be very helpful to have a "mapper" to record plantings, deaths, etc. when they're working in the perennial borders, on Thursday afternoons. We have just begun trying to get these beds put in the computer, and are concentrating on creating seasonal maps for winter, spring, etc. For the PPA meeting in August, we did summer maps for some of the borders (check the visitor center and/or our web site.) Being a "border mapper" could be a very fun job for someone interested in knowing what Edith and Doug are planting. Call Edith at 286-7691 if you're interested.

Vivian Finkelstein has shared her memories of JC with us all by creating a tour map of plants that remind

See Val, Next Page

Mapping News

Val, Continued From Preceding Page

her of JC stories. There are many interesting tidbits in there from one of our oldest and dearest friends. Thank you, Vivian.

If any of you have ideas of maps you would like to create, please get in touch. I can put the maps together more and more easily as time goes on, but I hope you'll do the writing for any interpretation of items on the tour, as well as any special signs you may want to place along with the tour. These tours can be anything from "blue foliage plants" to "plants that attract children". It's a wonderful way to get to know the Arboretum better, and thousands of visitors will appreciate your sharing.

Allison Modaffari has recently begun data entry work which involves changing mapped plants from the old "one point per plant" system to the new "region" per plant mass system. This is a fun job: take a map from the notebook out to the bed and draw outlines for the plants. Then, come back inside and draw them on the computer. It's surprisingly straight forward, and there's an incredible amount of it to do. Is anyone out there interested in doing something like this evenings and/or weekends?

Donna Maroni has been helping get new accessions entered into the system, but there is still more to catch up on before the fall planting begins. This is something that can be done on campus or at the Arboretum (although computer availability is currently better on campus.)

We're slowly making progress at attaining our goal of catching up with Mitzi's work. It ain't easy.

*Val Tyson
Plant Recorder and
Computer Goddess*

Volunteer News

More than 700 volunteer hours were used to prepare for two major events in the Arboretum's plant distribution program. In late August, 20 people packed up 150 boxes of plants destined for distribution at the NCAN summer trade show in Charlotte, NC.

In early October, an army of volunteers prepared for the Friend's plant give away. More than 8000 plants were labeled, sorted and nurtured. Thanks to everyone who made these vitally important events possible.

Curators Needed

Curators are needed in the following areas. Please contact Harriet Bellerjeau at the Arboretum Office (919-515-3132) to volunteer.

Blue Garden, Conifers, Nandinas, Paradise Garden, Southwest Garden, Show Booth Coordinator and Telephone Tree Coordinator.

Volunteers Needed

Volunteers are needed to work with curators in the following areas. Please contact the curator directly.

PERENNIAL BORDER: What could possibly be finer than gardening Thursday afternoons with Edith Eddleman (286-7691) and Doug Ruhren (668-0240)?!

THE KLEIN-PRINGLE WHITE GARDEN: To work in the newly renovated Klein-Pringle white garden, call Karen Jones (484-9567). Plan to work Wednesdays 4pm-7pm, or by arrangement with Karen.

LABELING: Tom Bumgarner (231-7450) needs help Tuesdays with the important task of labeling.

THE GARDEN OF WINTER DELIGHTS: Formerly known as the winter garden. It has two new curators, Jonathan Nyberg (544-7843) and Frank Simpson (682-5754). There are no regularly scheduled times yet, but call Frank or Jonathan to express your interest.

JAPANESE GARDEN: Curator Dan Howe needs help, (828-5462).

VISITOR'S CENTER: Call Bee Weddington (782-7787).

TOUR GUIDES: Volunteers are needed weekdays. Call Fran Johnson (847-5274).

THE MIXED SHRUB BORDER: Call Amelia Lane (787-6228).

*Harriet Bellerjeau
Volunteer Coordinator*

Garden News

Hot Beds and Barbeque Served-Up for PPA

In a setting F. Scott Fitzgerald might have penned, on August 6, 1997 the JC Raulston Arboretum was a party scene with its immaculate grounds, vibrantly colorful flower beds, and the Blue Grass Experience Band playing while 927 guests from all over the world mingled. The occasion was a North Carolina barbecue for participants of the Perennial Plant Association's national meeting.

On a delightfully clear evening the main perennial border, enhanced by gazing globes and a pink flamingo, sparkled. Perennial garden co-curators Edith Eddleman and Doug Ruhren proudly presented a refurbished Elizabeth Lawrence border. A new garden designed by Doug around the Necessary featured purple and chartreuse perennials and annuals. Another new bed of perennials near the Paradise Garden highlighted plants which bloom in our sultry August climate, proof positive that flowers will dance in our hot beds even as we droop.

PPA members swarmed, comparing notes about the naming of plants, cultural habits of personal favorites, conference speakers, and running a business. Many dashed around the Arboretum collecting names of all the plants they admired, just as hundreds of visitors do during the year.

Edith Eddleman, garden tour chairman of this national meeting, thinks the quantity and quality of gardens in the state drew the record crowd. Indeed, the PPA T-shirts, designed by Ruth Amick, proclaimed the theme: "NC: Hot Bed of Perennials."

Helen Schueler of Phoenix, New York, was deeply impressed with JC

Raulston's taped lecture on native versus non-native plants. She "...could see why everyone raved about him."

David Leider, of Illinois, particularly enjoyed the main perennial border.

Sue Watkins of Tallahassee, in a letter of appreciation to Edith Eddleman, summed up the southern hospitality as, "...very special and memorable due to the attention to those little details that gave everyone a warm fuzzy feeling." She felt it, "...imperative to say how much she enjoyed the incredible hospitality you extended to everyone. You have outdone yourselves!"

Edith Eddleman and the JC Raulston Arboretum express special thanks to the following people who helped make the conference - and the Arboretum's new perennial gardens - such tremendous successes.

Cheryl Doyle
Volunteer

Plant and soil amendment contributors

Hills of the Haw Nursery
Barry Yinger
Niche Gardens
Duke Gardens
The Potting Shed
James Stevenson
NC Botanical Garden
Chuck Frederic
Pine Knotts Farms
Sta-Lite Corporation
Plant Delights Nursery
Indigo Marsh
Hoffman Nursery
Smith College Bot. Garden
Pi Alpha Xi
Barefoot Paths Nursery
Big Bloomers
Ian Simpkins
Edith Eddleman
Harlequin Gardens
We-Du Nursery

Flowerwood Nursery
Jenkins Farmer
Ridgecrest Nursery

Arboretum staff and volunteers

Mitzi Hole
Valerie Tyson
Todd Lasseigne
Laura Jull
Sarah Lane
Suzanne Edney
Morrow van Horn
Bob Roth
Ashley Frost
Jim Sherwood
Betsy Lindemuth
Sally Day Burton

Speaker's Baskets

Michelle Avent
Wendy Shipman
Larry Daniels

Garden Hosts

Nancy Goodwin
Kim Hawks
Mary Nell and Leonard Jones
Gail Foushee
Pat and Sally Patterson
Laura Baldwin
Kathleen and Walt Thompson
Stan Barone and Alan Galloway
James Stevenson
Mary Jane Baker
Dennis Werner
Edith Eddleman
Suzanne Edney
Mary Edith and Howard Alexander
JC Taylor
Norman Beal
Randy Salter
Colleen Gilbert
Pan Baggett and Chris Pokrifcak
Karen Nowell
Wyatt LeFever
Richard Defresne
John and Jill Hoffman

Bus Captains

Beth Jimenez
Donna Maroni
Hoyt Bangs

See PPA, Next Page

PPA, Continued From Preceding Page

Bobby Wilder
 MK Ramm
 Dana Gregory
 Cheryl Dorney
 LA Jackson
 Nelsa Cox
 Cinthie Kulstead
 Holly Scoggins
 Karen Nowell
 Pam Beck
 Sherrill Nowell
 Michelle de Rosa
 Valerie Tyson
 Catherine Gaertner
 Patrick Mise
 Mary Jane Baker
 Deborah Doerr
 Bobby Ward
 Susan Suggs
 Doug Champion
 Linda Watson
 Diane Kibbe
 Amelia Lane
 Anne Clapp
 Lisa Stroud
 Marian Stephenson

The Arboretum staff continues to be inspired by the numerous dedications, tributes and memorials to JC that have appeared in publications throughout the world. Here is one dedication from the recent Arborvillage Farm Nursery catalog (Holt, MO, 816-264-3911).

This Catalog is Dedicated to the Memory of JC Raulston, Plantsman Extraordinaire

Some say, "What we become depends on what we do for others along the way." Such words mirror the life of our friend, JC Raulston. He saw plants not as a treasure to hoard, but as a gift to be shared. Generosity to the great and small alike redefined itself thru his life and his charity will never be forgotten.

But now the reality of his void is upon us. Yet, as the seed falls into the ground it springs forth to yield itself a hundredfold. Before our very eyes, the birth of a legacy has begun. "Well done good and faithful servant!"

Call for JC Tapes

Tracy Traer is working on archiving JC's materials. Since JC gave talks more than he wrote, recordings of his talks are of great value to the archives. Tracy is particularly looking for a tape recording of JC's HS 531, Plant Physiology class. Please, if you have tapes, or know people who might, please contact Tracy Traer at 919-515-1190. Thanks.

As a benefit of membership, the newsletter is accepting classified ads under the following headings.

Plant/Seed for Sale/Swap Non-Commercial Only

Help Wanted

There is no charge for this service. Send your brief ad to: Classified Ads, JC Raulston Arboretum, Box 7609, Raleigh, NC 27695-7609.

1996 Accessions

- 960420 - *Abelia coreana*; Chollipo Arb, Korea; seed; 7/3/96
 960397 - *Abelia spathulata*; Chiba Univ., Japan; seed; 6/12/96
 960409 - *Abelia X grandiflora* 'Confetti'; Flowerwood Nurs,AL;1gal;7/1/96
 960683 - *Abies bracteata* 'Corbin'; Buchholz & Buchholz, OR;3";10/31/96
 960684 - *Abies cilicica*; Buchholz & Buchholz, OR; 3"; 10/31/96
 960679 - *Abies concolor* 'Blue Cloak'; Buchholz & Buch.,OR; 3"; 10/31/96
 960381 - *Abies firma*; Chiba Univ., Japan; seed; 6/12/96
 960686 - *Abies firma* 'Halgren'; Buchholz & Buchholz, OR; 3"; 10/31/96
 960429 - *Abies holophylla*; Chollipo Arb, Korea; seed; 7/3/96
 960682 - *Abies hornmuelleriana*'Barney';Buchholz & Buch,OR;3";10/31/96
 960680 - *Abies koreana* 'Goldener Traum'; Buch. & Buch.,OR;3";10/31/96
 960681 - *Abies koreana* 'Silberlocke'; Buchholz & Buch., OR; 3"; 10/31/96
 960648 - *Abies lasiocarpa*; Willowood Arb, NJ; seed; 12/17/96
 960685 - *Abies pindrow*; Buchholz & Buchholz, OR; 3"; 10/31/96
 960280 - *Abies recurvata*; Univ. of Nebraska; 94-2982; liner; 4/2/96
 960010 - *Acacia alpinus*; Roy Lancaster, Eng; cutting; 1/1/96
 960418 - *Acanthopanax chiisanensis*; Chollipo Arb, Korea; seed; 7/3/96
 960582 - *Acer cappadocicum*; Arborvillage, MO; 2 gal; 10/7/96
 960618 - *Acer circinatum* 'Little Gem'; Arborvillage, MO; 2 gal; 10/7/96
 960603 - *Acer crataegifolium*; Arborvillage, MO; 2 gal; 10/7/96
 960594 - *Acer erianthum*; Arborvillage, MO; 2 gal; 10/7/96
 960598 - *Acer forrestii*; Arborvillage, MO; 2 gal; 10/7/96
 960596 - *Acer heldreichii* ssp. *trautvetteri*; Arborvillage,MO;2 gal; 10/7/96
 960412 - *Acer mandschuricum*; Chollipo Arb, Korea; seed; 7/3/96
 960597 - *Acer mandschuricum*; Arborvillage, MO; 2 gal; 10/7/96
 960622 - *Acer maximowiczianum*; rec'd as *A. nikoense*; Arborvillage, MO; 2 gal; 10/7/96
 960413 - *Acer nipponicum*; Chollipo Arb, Korea; seed; 7/3/96
 960266 - *Acer oblongum*; Univ. of Nebraska; 94-2987; liner; 4/2/96
 960167 - *Acer oliverianum*; Heronswood Nurs, WA; 1 qt; 3/8/96
 960507 - *Acer palmatum* 'Beni Fujiki'; Peter Gentling, NC; 3" pot; 8/19/96
 960460 - *Acer palmatum* 'E.P.'; Dorremus Nursery, TX; 1 gal; 7/16/96
 960509 - *Acer palmatum* 'Linearifolium'; Peter Gentling,NC;3"pot; 8/19/96
 960508 - *Acer palmatum* 'Mikawa Yaisubusa'; P.Gentling,NC;3"pot;8/19/96
 960461 - *Acer rubrum* 'Aggie'; Treeseach Farms, TX; 1 gal; 7/16/96
 960387 - *Acer shirasawanum* var. *tenuifolium*;Chiba U,Jap; seed; 6/12/96
 960620 - *Acer tataricum* ssp. *ginnala* 'Bergiana'; Arborvillage, MO; 2 gal;10/7/96
 960634 - *Acer tegmentosum*; Camellia Forest, NC; 6 qt; 10/1/96
 960650 - *Acer triflorum*; Willowood Arb, NJ; seed; 12/17/96
 960414 - *Acer tschonoskii* var. *rubripes*; Chollipo Arb, Korea; seed; 7/3/96
 960415 - *Acer ukurunduense*; Chollipo Arb, Korea; seed; 7/3/96
 960224 - *Aconitum volubile*; Heronswood Nurs, WA; 3/8/96
 960612 - *Aesculus glabra* var. *arguta*; Arborvillage, MO; 2 gal; 10/7/96
 960445 - *Aesculus parviflora*; Barry Yinger, PA; 3" pot; 5/7/96
 960590 - *Aesculus X woerlitzensis*; Arborvillage, MO; 1 gal; 10/7/96
 960333 - *Agave aquifolia*; Joe Granato; 1 gal; 5/9/96
 960525 - *Agave deserti*; Tony Avent, NC; 1 qt; 8/28/96
 960645 - *Agave stricta*; Scott Ogden, TX;
 960053 - *Agave X*; Star Ridge Aquatics, NC; 3 gal; 1/20/96
 960677 - *Alangium platanifolium*; Camellia Forest, NC;
 960583 - *Alnus glutinosa* 'Imperialis'; Arborvillage, MO; 2 gal; 10/7/96
 960586 - *Alnus incana* 'Laciniata'; Arborvillage, MO; 2 gal; 10/7/96
 960346 - *Alocasia californica*; Rabid Gardener Plant Sale,NC;2gal; 6/3/96
 960348 - *Alocasia macrorrhiza*;Rabid Gardener Plant Sale,NC;2gal;6/3/96
 960369 - *Alocasia macrorrhiza*; Van Bloem's Nursery; bulb; 6/3/96
 960407 - *Alocasia portei*; Allen Galloway; 2 qt; 6/29/96
 960416 - *Amorphophallus kiusianus*; Chollipo Arb, Korea; seed; 7/3/96
 960689 - *Amorphophallus rivieri* 'Konjac'; Mrs. George Ordaneff, NC; corm; 11/19/96
 960365 - *Amorphophallus sauromatum venosum*; Rabid Gardener Plant Sale, NC; 1 gal; 6/3/96
 960163 - *Ampelopsis megalophylla*; Heronswood Nurs, WA; 1 qt; 3/8/96
 960501 - *Ampelopsis* sp.; James Waddick, MO; 3 gal; 8/12/96
 960380 - *Aracniodes simplicior* 'Variegata'; A. Galloway;46860;1g;6/8/96
 960343 - *Arbutus andrachne*; Martin Luther BG, Ger; seed; 5/28/96
 960286 - *Ardisia affinis*; Qingpu Paradise, China; seed; 4/30/96
 960417 - *Arisaema angustatum* var.*peninsulae*;Chol Arb,Kor.;seed;7/3/96
 960226 - *Arisaema costatum*; Heronswood Nurs, WA; 3/8/96
 960227 - *Arisaema nepenthoides*; Heronswood Nurs, WA; 3/8/96
 960228 - *Arisaema taiwanensis*;Heronswood Nurs,WA;BSWJ1879;3/8/96
 960408 - *Arisaema triphyllum*; Allen Galloway; seed; 6/29/96
 960443 - *Arisaema triphyllum*; Holden Arboretum, OH; seed; 7/9/96
 960497 - *Asarum maximum* 'Panda Ginger'; Atl. Bot Gard,GA;1gal; 8/6/96
 960231 - *Asclepias tuberosa* 'Hello Yellow'; Wayside Gardens, SC; 3/1/96
 960446 - *Asimina triloba*; Barry Yinger, PA; 3" pot; 5/7/96
 960185 - *Aucuba himalaica*; Heronswood Nurs, WA; 1 qt; 3/8/96
 960456 - *Aucuba japonica*'Wisley Nana';Dr. Tom Krenitsky,NC;1gal;7/16/96
 960002 - *Aucuba omeiensis*; Roy Lancaster, Eng; cutting; 1/1/96
 960531 - *Baptisia X* 'Purple Smoke';NC Bot. Garden, Chapel Hill, 4" pot;
 960282 - *Berberis angulosa*; Pete Ray, WA; 782/81; liner; 4/4/96
 960284 - *Berberis jaeschkeana* var. *jaeschkeana*; Pete Ray, WA; 759/81;liner;4/4/96
 960283 - *Berberis thomsoniana*; Pete Ray, WA; 4767; liner; 4/4/96
 960668 - *Berberis thunbergii* 'Crimson Giant'; Our Nursery, TN;
 960611 - *Betula platyphylla* 'Crimson Frost'; Arborvillage,MO;2gal;10/7/96
 960168 - *Betula utilis* 'Kashmir White'; Heronswood Nurs,WA; 1 qt; 3/8/96
 960172 - *Betula utilis* 'Yunnan'; Heronswood Nurs, WA; 1 qt; 3/8/96
 960472 - *Bignonia capreolata* 'Jekyll'; Riverbanks Zoo, SC; 1 qt; 8/5/96
 960444 - *Bletilla striata* 'Variegata'; Mark Starrett; 5/7/96
 960363 - *Brugmansia* sp.; Rabid Gardener Plant Sale, NC; 1 gal; 6/3/96
 960394 - *Buckleya lanceolata*; Chiba Univ., Japan; seed; 6/12/96
 960410 - *Buddleja davidii* 'White Profusion'; Home Depot,NC; 5gal;7/2/96
 960186 - *Bupleurum fruticosum*; Heronswood Nurs, WA; 1 qt; 3/8/96
 960187 - *Buxus bodinieri*; Heronswood Nurs, WA; 1 qt; 3/8/96
 960231 - *Buxus sempervirens* 'Heims Selection'; Taylor's Nursery, NC; cutting; 3/16/96
 960534 - *Buxus* sp.; Kathryn's Shrubs, NC;
 960262 - *Callicarpa macrophylla*; U. of Nebraska; 94-2891; liner; 4/2/96
 960480 - *Callitris oblonga*; Atlanta Bot Garden, GA; 1 gal; 8/6/96
 960656 - *Calocedrus decurrens*; Willowood Arb, NJ; seed; 12/17/96
 960021 - *Camellia crapnelliana*; Hong Kong Botanic Garden;seed; 1/1/96
 960467 - *Camellia sasanqua* 'Winter Maiden'; Ray Bond,TX;3"pot;7/22/96
 960468 - *Camellia sasanqua* 'Winter's Starlight'; R.Bond,TX; 3"; 7/22/96
 960465 - *Camellia X* '0049'; Ray Bond, TX; 3" pot; 7/22/96
 960466 - *Camellia X* 'Winter Rouge'; Ray Bond, TX; 3" pot; 7/22/96
 960442 - *Campsis grandiflora*; 'Dorenn's Selection' ??; David Creech, TX; 1 qt; 7/9/96
 960152 - *Campsis radicans* 'Flava'; Wayside Gardens, SC; 1 gal; 3/1/96
 960241 - *Canna X* 'Durban'; Brooklyn Bot Gard, NY; bareroot; 3/30/96
 960240 - *Canna X* 'Pretoria'; Brooklyn Bot Gard, NY; bareroot; 3/30/96
 960239 - *Canna X* 'Stuttgart'; Brooklyn Bot Gard, NY; bareroot; 3/30/96
 960328 - *Caragana koschinskii*; P. Cappiello, ME; 1 gal; 5/9/96
 960327 - *Caragana stenophylla*; P. Cappiello, ME; 1 qt; 5/9/96
 960562 - *Carpinus betulus* 'Fastigiata'; Tarheel Natives, NC;
 960649 - *Carpinus betulus* 'Frans Fontaine'; Global Gard auct. surplus?;
 960585 - *Carpinus cordata*; Arborvillage, MO; 2 gal; 10/7/96
 960024 - *Carpinus fangiana*; Univ. B.C. BG, Canada; seed; 1/1/96
 960162 - *Carpinus henryana*; Heronswood Nurs, WA; 1 qt; 3/8/96
 960624 - *Carpinus henryana*; Arborvillage, MO; 2 gal; 10/7/96
 960287 - *Carpinus simplicidentata*; Qingpu Paradise,China;seed; 4/30/96
 960008 - *Carpinus vimeana*; Roy Lancaster, Eng; scion; 1/1/96
 960246 - *Castanopsis cuspidata* 'Variegata'; Shibamichi Nursery, Japan; bareroot graft; 4/2/96
 960617 - *Catalpa bignonioides* 'Aurea'; Arborvillage, MO; 2 gal; 10/7/96
 960419 - *Catalpa fargesii* f. *duclouxii*; Chollipo Arb, Korea; seed; 7/3/96
 960556 - *Cedrus atlantica* 'Sapphire Nymph';
 960039 - *Cedrus deodara* 'BBC'; Head Lee Nursery, SC; 1 gal; 1/15/96
 960038 - *Cedrus deodara* 'Bob'; Head Lee Nursery, SC; 1 gal; 1/15/96
 960037 - *Cedrus deodara* 'Bracken'; Head Lee Nursery, SC; 1 g; 1/15/96
 960036 - *Cedrus deodara* 'Jim'; Head Lee Nursery, SC; 1 gal; 1/15/96
 960035 - *Cedrus deodara* 'Silver'; Head Lee Nursery, SC; 1 gal; 1/15/96
 960278 - *Celastrus angulatus*; Univ. of Nebraska; 94-2892; 1 gal; 4/2/96
 960440 - *Celtis edulis*; Chollipo Arb, Korea; seed; 7/3/96

1996 Accessions

- 960600 - *Celtis tournefortii*; Arborvillage, MO; 1 gal; 10/7/96
 960652 - *Cephalotaxus fortunei*; Willowood Arb, NJ; seed; 12/17/96
 960383 - *Cephalotaxus harringtonia*; Chiba Univ., Japan; seed; 6/12/96
 960574 - *Cephalotaxus harringtonia*; Camellia Forest, NC;
 960536 - *Cercis canadensis* ssp. *texensis* 'Traveller'; Gilbert Nursery, SC; 3 gal; 4/96
 960338 - *Cercis glabra*; Univ. of Nebraska; seed; 5/16/96
 960339 - *Cercis racemosa*; Univ. of Nebraska; seed; 5/16/96
 960171 - *Chaenomeles cathayensis*; Heronswood Nurs, WA; 1 qt; 3/8/96
 960492 - *Chamaecyparis funebris*; Atlanta Bot Garden, GA; 1qt; 8/6/96
 960629 - *Chamaecyparis lawsoniana* 'Golden Showers'; Montrose Nursery, NC; 3"; 10/18/96
 960142 - *Chamaecyparis nootkatensis*; Univ. of Washington Arb, WA; seed; 2/14/96
 960156 - *Chamaecyparis obtusa* 'Gold Thread'; Iseli Nursery, OR; 10 gal; 1/13/96
 960628 - *Chamaecyparis obtusa* 'Paul Jones' Crippsii'; Montrose Nursery, NC; 3"; 10/18/96
 960667 - *Chamaecyparis thyoides* 'Tom's Blue'; Mt. Cuba Center, DE; cutting; 12/19/96
 960665 - *Chamaedaphne calyculata* 'Verdant'; Mt. Cuba Center, DE; cutting; 12/19/96
 960644 - *Cinnamomum japonicum*; Camellia Forest, NC; 1 gal;
 960502 - *Cissus trifoliata*; James Waddick, MO; 3" pot; 8/12/96
 960189 - *Cistus albidus*; Heronswood Nurs, WA; 1 qt; 3/8/96
 960190 - *Cistus parviflorus*; Heronswood Nurs, WA; 3/8/96
 960188 - *Cistus* X '*Elma*'; Heronswood Nurs, WA; 1 qt; 3/8/96
 960191 - *Cistus* X '*purpureus*'; Heronswood Nurs, WA; 3/8/96
 960378 - *Citrus ichangensis*; Allen Galloway; 1 gal; 6/8/96
 960379 - *Citrus latipes*; Allen Galloway, NC; 1 gal; 6/8/96
 960430 - *Clematis chiisanensis*; Chollipo Arb, Korea; seed; 7/3/96
 960270 - *Clematis intricata*; Univ. of Nebraska; liner; 4/2/96
 960279 - *Clerodendrum fortunatum*; Univ. of Nebraska; 94-3004; liner; 4/2/96
 960260 - *Clerodendrum trichotomum*; Univ. of Nebraska; 94-2897; liner; 4/2/96
 960288 - *Clethra faberi*; Qingpu Paradise, China; seed; 4/30/96
 960192 - *Clethra fargesii*; Heronswood Nurs, WA; DJH 213; 3/8/96
 960166 - *Clethra monostachya*; Heronswood Nurs, WA; 1 qt; 3/8/96
 960353 - *Colocasia esculenta* 'Illustris'; Rabid Gardener Plant Sale, NC; 1 gal; 6/3/96
 960347 - *Colocasia fontanesii*; Rabid Gardener Plant Sale, NC; 1 pt - 1 gal; 6/3/96
 960615 - *Coriaria japonica*; Arborvillage, MO; 2 gal; 10/7/96
 960614 - *Cornus alba* 'Ivory Halo'; Arborvillage, MO; 2 gal; 10/7/96
 960390 - *Cornus brachypoda*; Chiba Univ., Japan; seed; 6/12/96
 960322 - *Cornus canadensis* 'Down Easter'; P. Cappiello, ME; 1 qt; 5/9/96
 960422 - *Cornus capitata*; Chollipo Arb, Korea; seed; 7/3/96
 960239 - *Cornus capitata* 'Mountain Moon'; Piroche Plants, Can; 3 gal; 4/2/96
 960138 - *Cornus sanguinea* 'Bloodgood'; Dr. Tom Krenitsky, NC; cutting; 2/2/96
 960051 - *Cornus* X '*Constellation*' TM; Shadow Nursery, TN; bareroot; 1/15/96
 960050 - *Cornus* X '*Stellar Pink*' TM; Shadow Nursery, TN; bareroot; 1/15/96
 960641 - *Corylopsis glabrescens* var. *gotoana*; Camellia Forest, NC; 3 gal; 10/1/96
 960558 - *Corylopsis glabrescens* var. *gotoana* 'March Jewel';
 960570 - *Corylus avellana* 'Contorta'; Tarheel Natives, NC;
 960584 - *Cotinus coggygia* 'Black Velvet'; Arborvillage, MO; 2 gal; 10/7/96
 960613 - *Cotinus coggygia* 'Day Dream'; Arborvillage, MO; 2 gal; 10/7/96
 960031 - *Cotoneaster microphyllus* 'Cooperi'; Beverley Hills Nurs, NC; 1 gal; 1/15/96
 960193 - *Craibiodendron yunnanensis*; Heronswood Nurs, WA; 3/8/96
 960351 - *Crinum* sp.; Rabid Gardener Plant Sale, NC; 1 gal; 6/3/96
 960367 - *Crinum* sp.; Van Bloem's Nursery; bulb; 6/3/96
 960368 - *Crinum* sp.; Van Bloem's Nursery; bulb; 6/3/96
 960476 - *Crinum* X '*Regina's Disco Lounge*'; might b C.X'*Jack'sPinkElsie*'; JenkinsFarmer, SC; bulb; 8/5/96
 960539 - *Cryptomeria japonica* 'Spiraliter Falcata' reversion; Atlanta Bot Garden, GA; 1qt; 8/6/96
 960137 - *Cryptomeria japonica* 'Winter Green'; Gilbert Nursery, SC; 3 gal; 2/1/96
 960003 - *Cunninghamia lanceolata*; Roy Lancaster, Eng; cutting; 1/1/96
 960653 - *Cunninghamia lanceolata*; Willowood Arb, NJ; seed; 12/17/96
 960236 - *Cupressus arizonica* var. *montana*; U.C. Berkeley BG, CA; seed; 3/27/96
 960654 - *Cupressus arizonica* var. *nevadensis*; Willowood Arb, NJ; seed; 12/17/96
 960317 - *Cupressus arizonica* var. *Revealiana*; Atlanta Bot Garden, GA; rooted cutting; 4/30/96
 960307 - *Cupressus assamica*; Atlanta Bot Garden, GA; cutting; 4/30/96
 960479 - *Cupressus assamica*; Atlanta Bot Garden, GA; 1 qt; 8/6/96
 960491 - *Cupressus austrothebetica*; Atlanta Bot Garden, GA; 1 qt; 8/6/96
 960316 - *Cupressus darjeelineenjis*; Atlanta Bot Garden, GA; cutting; 4/30/96
 960494 - *Cupressus darjeelineenjis*; Atlanta Bot Garden, GA; 1 gal; 8/6/96
 960258 - *Cupressus duclouxiana*; Univ. of Nebraska; liner; 4/2/96
 960273 - *Cupressus gigantea*; Univ. of Nebraska; 94-3009; liner; 4/2/96
 960314 - *Cupressus gigantea*; Atlanta Bot Garden, GA; rooted cutting; 4/30/96
 960481 - *Cupressus himalaica*; Atlanta Bot Garden, GA; 1 gal; 8/6/96
 960173 - *Cupressus sempervirens* var. *dupreziana*; Heronswood Nurs, WA; 1 qt; 3/8/96
 960267 - *Cupressus torulosa*; Univ. of Nebraska; 94-3010; liner; 4/2/96
 960354 - *Curcuma elata*; Rabid Gardener Plant Sale, NC; 2 gal; 6/3/96
 960406 - *Curcuma petiolata* 'Emperor'; Allen Galloway; 1 gal; 6/29/96
 960355 - *Curcuma zedoaria*; Rabid Gardener Plant Sale, NC; 1 gal; 6/3/96
 960553 - *Cyclamen cilicium* white; Montrose Nursery, NC; 2"; 9/30/96
 960548 - *Cyclamen coum*; Montrose Nursery, NC; 2"; 9/30/96
 960551 - *Cyclamen graecum*; Montrose Nursery, NC; 2"; 9/30/96
 960552 - *Cyclamen graecum* f. *album*; Montrose Nursery, NC; 2"; 9/30/96
 960342 - *Cyclamen hederifolium*; Martin Luther BG, Ger; seed; 5/28/96
 960550 - *Cyclamen hederifolium*; Montrose Nursery, NC; 2"; 9/30/96
 960547 - *Cyclamen mirabile*; Montrose Nursery, NC; 2"; 9/30/96
 960554 - *Cyclamen purpurascens*; Montrose Nursery, NC; 2"; 9/30/96
 960549 - *Cyclamen rohlfsianum*; Montrose Nursery, NC; 2"; 9/30/96
 960265 - *Cyclocarya paliurus*; Univ. of Nebraska; 94-2898; liner; 4/2/96
 960522 - *Cyrilla racemiflora*; Dr. JC Raulston, NC; cutting; 8/23/96
 960194 - *Daphne blagayana*; Heronswood Nurs, WA; 3/8/96
 960195 - *Daphne longilobata*; Heronswood Nurs, WA; 1 qt; 3/8/96
 960158 - *Daphne mezereum* 'Alba'; Heronswood Nurs, WA; 1 qt; 3/8/96
 960545 - *Daphne odora* 'Zuiko Nishiki'; Brooklyn Bot Gard, NY; 9/30/96
 960196 - *Daphne* X '*burkwoodii* 'Carol Mackie'; Heronswood Nurs, WA; 3/8/96
 960197 - *Daphne* X '*burkwoodii* 'Somerset'; Heronswood Nurs, WA; 3/8/96
 960395 - *Daphniphyllum teijsmannii*; Chiba Univ., Japan; seed; 6/12/96
 960530 - *Dasylylion longissimum*; Tony Avent, NC; 1qt; 8/28/96
 960527 - *Dasylylion* sp.; Tony Avent, NC; 1 qt; 8/28/96
 960530 - *Dasylylion* sp.; Tony Avent, NC; 1qt; 8/28/96
 960474 - *Decumaria barbara*; Riverbanks Zoo, SC; 1 qt; 8/5/96
 960475 - *Decumaria barbara* 'Chatanoga'; Riverbanks Zoo, SC; 1 qt; 8/5/96
 960506 - *Dendropanax dentiger*; James Waddick, MO; seed; 8/12/96
 960391 - *Dendropanax trifidus*; Chiba Univ., Japan; seed; 6/12/96
 960005 - *Dichotomanthes* sp.; Roy Lancaster, Eng; cutting; 1/1/96
 960498 - *Dionaea muscipula* 'Akai Ryu'; Atlanta Bot Garden, GA; 2" pot; 8/6/96

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- 960457 - *Dioone edule*; Dorremus Nursery, TX; 1 gal; 7/16/96
 960225 - *Dioscorea batatus*; Heronswood Nurs, WA; 3/8/96
 960543 - *Diospyros cathayana*; Shibamichi Nursery, Japan; 9/30/96
 960313 - *Diselma archeri*; Atlanta Bot Garden, GA; rooted cutting; 4/30/96
 960482 - *Diselma archeri*; Atlanta Bot Garden, GA; 1 gal; 8/6/96
 960364 - *Dranunculus vulgaris*; Rabid Gardener Plant Sale, NC; 1 gal; 6/3/96
 960528 - *Dregea sinensis* 'Proud Streaker'; Barry Yinger, PA; 1 qt; 8/28/96
 960335 - *Echinocactus texensis*; Joe Granato; 1 qt; 5/9/96
 960228 - *Edgeworthia chrysantha*; Tony Avent, NC; 3" pot; 3/12/96
 960238 - *Edgeworthia chrysantha*; Piroche Plants, Can; 3 gal; 4/2/96
 960253 - *Edgeworthia gardenii*; Shibamichi Nursery, Japan; bareroot graft; 4/2/96
 960139 - *Edgeworthia papyrifera* 'Jitsko Red'; Tony Avent, NC; 1 qt; 2/6/96
 960247 - *Edgeworthia papyrifera* 'Yunnan'; Shibamichi Nursery, Japan; bareroot graft; 4/2/96
 960569 - *Elaeagnus pungens* 'Greenedge Variegated'; NCSU Arb prop.;
 960052 - *Elaeocarpus decipiens*; Monrovia Nursery, CA; 3 gal; 1/15/96
 960325 - *Empetrum nigrum* 'Compass Harbor'; P. Cappiello, ME; 1 qt; 5/9/96
 960023 - *Enkianthus quinqueflorus*; Hong Kong Bot. Garden; seed; 1/1/96
 960340 - *Eryngium amethystinum*; Martin Luther BG, Ger; seed; 5/28/96
 960345 - *Eryngium giganteum*; Martin Luther BG, Ger; seed; 5/28/96
 960336 - *Escobaria dasycantha*; Joe Granato; 1 qt; 5/9/96
 960334 - *Escobaria orcuttii* var. *koensgii*; Joe Granato; 1 qt; 5/9/96
 960165 - *Eucryphia glutinosa*; Heronswood Nurs, WA; 1 gal; 3/8/96
 960198 - *Eucryphia X intermedia* 'Rostrevor'; Heronswood Nurs, WA; 3/8/96
 960199 - *Eucryphia X nymansensis*; Heronswood Nurs, WA; 1 qt; 3/8/96
 960277 - *Euonymus bungeanus*; U. of Nebraska; 94-2903; liner; 4/2/96
 960595 - *Euonymus bungeanus* 'Pink Lady'; Arborvillage, MO; 2g; 10/7/96
 960276 - *Euonymus carnosus*; Univ. of Nebraska; 94-2904; liner; 4/2/96
 960500 - *Euonymus carnosus*; Hangzhou B.G., China; 1 gal; 8/12/96
 960274 - *Euonymus chinensis*; Univ. of Nebraska; 94-3020; liner; 4/2/96
 960161 - *Euonymus europaeus* 'Red Ace'; Heronswood Nurs, WA; 1 qt; 3/8/96
 960169 - *Euonymus europaeus* 'Red Cascade'; Heronswood Nurs, WA; 1 qt; 3/8/96
 960579 - *Euonymus oxyphyllus*; Arborvillage, MO; 2 gal; 10/7/96
 960006 - *Euonymus tingens*; Roy Lancaster, Eng; cutting; 1/1/96
 960200 - *Euonymus vagans*; Heronswood Nurs, WA; 3/8/96
 960235 - *Euphorbia amygdaloides* 'Rubra'; Wayside Gardens, SC; 3/1/96
 960229 - *Euphorbia griffithii* 'Fireglow'; Wayside Gardens, SC; 3/1/96
 960261 - *Euptelea pleiosperma*; Univ. of Nebraska; 94-3021; liner; 4/2/96
 960401 - *Euryops pectinatus* ssp. *pectinus*; Longwood Gardens, PA; 930615; 4" pot; 6/26/96
 960377 - *Farfugium tussilaginea* 'Argenteum'; Allen Galloway; 2 gal; 6/8/96
 960375 - *Farfugium tussilagineum*; Allen Galloway; 1 gal; 6/8/96
 960376 - *Farfugium tussilagineum* 'Aureomaculatum'; Galloway; 1g; 6/8/96
 960320 - *Ficus carica* 'Kodota'; Alice Russell, NC; 1 gal; 5/9/96
 960393 - *Ficus erecta* var. *erecta*; Chiba Univ., Japan; seed; 6/12/96
 960405 - *Ficus tikoua*; Allen Galloway; 1 pt; 6/29/96
 960616 - *Forsythia X intermedia* 'Happy Centennial'; Arborvillage, MO; 2 gal; 10/7/96
 960567 - *Fraxinus angustifolia* 'Golden Desert'; Bailey or Schmidt?;
 960609 - *Fraxinus angustifolia* ssp. *syriaca*; Arborvillage, MO; 1 gal; 10/7/96
 960623 - *Fraxinus excelsior* 'Westhof's Glorie'; Arborvillage, MO; 3g; 10/7/96
 960344 - *Galanthus plicatus*; Martin Luther BG, Ger; seed; 5/28/96
 960392 - *Gamblea innovans*; Chiba Univ., Japan; seed; 6/12/96
 960034 - *Gardenia* sp.; Hawksridge Nurs, NC; 3 gal; 1/15/96
 960201 - *Garrya buxifolia*; Heronswood Nurs, WA; 3/8/96
 960202 - *Gaultheria cuneata*; Heronswood Nurs, WA; 3/8/96
 960203 - *Gaultheria itoana*; Heronswood Nurs, WA; 3/8/96
 960204 - *Gaultheria tetramera*; Heronswood Nurs, WA; 3/8/96
 960688 - *Gelsemium sempervirens* 'Variegatum'; Jenks Farmer, SC;
 960568 - *Glyptostrobus pensilis*; Camellia Forest, NC; 1 gal; 10/1/96
 960637 - *Gordonia lasianthus* 'Cat's Eye'; Head Lee Nurs., SC; 1g; 12/5/96
 960642 - *Gordonia lasianthus* 'Variegata'; Taylor's Nursery, NC;
 960305 - *Halocarpus bidwillii*; Atlanta Bot Garden, GA; cutting; 4/30/96
 960490 - *Halocarpus bidwillii*; Atlanta Bot Garden, GA; 1 qt; 8/6/96
 960566 - *Hamamelis X intermedia* 'Ruby Glow';
 960205 - *Hebe canterburiensis*; Heronswood Nurs, WA; 3/8/96
 960206 - *Hebe prostrata*; Heronswood Nurs, WA; 3/8/96
 960207 - *Hebe recurva*; Heronswood Nurs, WA; 3/8/96
 960208 - *Hebe salicifolia*; Heronswood Nurs, WA; 3/8/96
 960400 - *Hedera helix* 'Cockle Shell'; NCSU Conservatory; 1 gal; 6/19/96
 960015 - *Hedera helix* 'Nigra'; Roy Lancaster, Eng; cutting; 1/1/96
 960362 - *Hedychium coccineum* 'Disney'; Rabid Gardener Plant Sale, NC; 1 gal; 6/3/96
 960636 - *Hedychium curcunapetolata* 'Emperor'; Gainesville Tree Farm; 3 gal; 12/4/96
 960358 - *Hedychium spicatum* var. *acuminatum*; Rabid Gardener Plant Sale, NC; 1 gal; 6/3/96
 960361 - *Hedychium sureii*; Rabid Gardener Plant Sale, NC; 1 gal; 6/3/96
 960356 - *Hedychium X 'Elizabeth'*; Rabid Gard. Plant Sale, NC; 1g; 6/3/96
 960359 - *Hedychium X 'Gold Flame'*; Rabid Gardener Plant Sale, NC; 1 gal; 6/3/96
 960349 - *Hedychium X 'Golden Butterfly'*; Rabid Gardener Plant Sale, NC; 1 gal; 6/3/96
 960357 - *Hedychium X 'Kewense'*; Rabid Gard. Plant Sale, NC; 1g; 6/3/96
 960360 - *Hedychium X 'Kinkaku'*; Rabid Gard. Plant Sale, NC; 1g; 6/3/96
 960176 - *Helwingia chinensis*; Heronswood Nurs, WA; 1 qt; 3/8/96
 960332 - *Hemerocallis X 'Big Bird'*; Dr. A. deHertogh, NCSU; bareroot; 5/9/96
 960330 - *Hemerocallis X 'Evening Gown'*; Dr. A. deHertogh, NCSU; bareroot; 5/9/96
 960331 - *Hemerocallis X 'Gentle Shepard'*; Dr. A. deHertogh, NCSU; bareroot; 5/9/96
 960329 - *Hemerocallis X 'Hyperion'*; Dr. A. deHertogh, NCSU; bareroot; 5/9/96
 960451 - *Hibiscus dasycalyx*; David Creech, TX; 1 gal; 7/16/96
 960230 - *Hibiscus X 'Lady Baltimore'*; Wayside Gardens, SC; 3/1/96
 960471 - *Hiperkelia hybrida*; Hippeastrum X *Sprekelia*; Dr. A. deHertogh, NCSU; 5 gal; 7/30/96
 960647 - *Hippeastrum X 'Pamela'*; Dr. A. deHertogh, NCSU; 6" pot; 12/17/96
 960012 - *Holboellia latifolia*; Roy Lancaster, Eng; cutting; 1/1/96
 960573 - *Hydrangea macrophylla* 'Domotoi'; Dick Bir, NC; 1 gal; 10/1/96
 960572 - *Hydrangea macrophylla* 'Hadsbury'; Dick Bir, NC; 1 gal; 10/1/96
 960639 - *Hydrangea macrophylla* 'Schwan'; Dick Bir, NC; 1 gal; 10/1/96
 960587 - *Hydrangea paniculata* 'Brussels Lace'; Arborvillage, MO; 1 gal; 10/7/96
 960209 - *Hydrangea paniculata* 'Floribunda'; Heronswood Nurs, WA; 3/8/96
 960175 - *Hydrangea paniculata* 'Greenspire'; Heronswood Nurs, WA; 1 qt; 3/8/96
 960588 - *Hydrangea paniculata* 'Pink Diamond'; Arborvillage, MO; 2 gal; 10/7/96
 960604 - *Hydrangea paniculata* 'Webb'; Arborvillage, MO; 2 gal; 10/7/96
 960210 - *Hydrangea paniculata* 'White Moth'; Heronswood Nurs, WA; 3/8/96
 960608 - *Hydrangea paniculata* 'White Moth'; Arborvillage, MO; 2g; 10/7/96
 960211 - *Hydrangea quelpartensis*; Heronswood Nurs, WA; 3/8/96
 960464 - *Hydrangea quercifolia* 'Angola Prison'; D. Creech, TX; 1g; 7/16/96
 960045 - *Hydrangea quercifolia* 'Shadow's Select'; Shadow Nursery, TN; B&B; 1/15/96
 960470 - *Hydrangea quercifolia* 'Snow Queen'; Fourth Generation Nursery, MA; 1 pt; 7/29/96
 960591 - *Hydrangea serrata* 'Woodlanders'; Arborvillage, MO; 1 gal; 10/7/96
 960238 - *Hymenocallis caribaea* 'Variegata'; Brooklyn Bot Gard, NY; bareroot; 3/30/96
 960370 - *Hypericum androsaemum* 'Gladys Brabazon'; Montrose Gardens, NC; 2 qt; 6/5/96
 960516 - *Hypericum* sp.; Dr. JC Raulston, NC; cutting; 8/23/96
 960371 - *Hypericum X 'Hidcote Variegated'*; Montrose Gard, NC; 2 qt; 6/5/96
 960520 - *Ilex coriacea*; Dr. JC Raulston, NC; cutting; 8/23/96
 960560 - *Ilex crenata* 'Hoogendorn'; 3 gal;
 960571 - *Ilex crenata* 'Jersey Pinnacle'; Taylor's Nursery, NC; liners; 5/1/92
 960043 - *Ilex decidua* 'Warren Red'; Shadow Nursery, TN; B&B; 1/15/96
 960212 - *Ilex fargesii*; Heronswood Nurs, WA; 3/8/96
 960213 - *Ilex shennongjianensis*; Heronswood Nurs, WA; NA 49246; 3/8/96
 960030 - *Ilex vomitoria* 'Bordeaux' TM;
 960032 - *Ilex vomitoria* 'De Werth'; Flowerwood Nurs, FL; 3 gal; 1/15/96

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- 960372 - *Ilex vomitoria* 'Pendula'; Montrose Gardens, NC; 2 qt; 6/5/96
 960542 - *Illicium griffithii*; Shibamichi Nursery, Japan; 9/30/96
 960321 - *Illicium* sp.; Alice Russell, NC; 1 gal; 5/9/96
 960670 - *Illicium* X 'Woodlander's Pink';
 960264 - *Indigofera pseudotinctoria*; U. of Nebraska; 94-3034; liner; 4/2/96
 960146 - *Iris missouriensis*; U. of Washington Arb, WA; 16; seed; 2/14/96
 960473 - *Itea chinensis*; Riverbanks Zoo, SC; 1 qt; 8/5/96
 960512 - *Itea virginica* 'Shirley's Compacta'; Biltmore Estate, NC; 3 qt; 8/19/96
 960289 - *Jasminum iraidii*; Qingpu Paradise, China; seed; 4/30/96
 960669 - *Jasminum parkeri*; Valerie Tyson, NC; 1 qt; 7/7/96
 960047 - *Juniperus chinensis* 'Mac's Golden'; Iseli Nursery, OR; 3 gal; 1/13/96
 960318 - *Juniperus excelsa* var. *polycarpus*; Atlanta Bot Garden, GA; 93-1113; cutting; 4/30/96
 960630 - *Juniperus horizontalis* 'Pancake'; Montrose Nursery, NC; 3"; 10/18/96
 960309 - *Juniperus procera*; Atlanta Bot Garden, GA; cutting; 4/30/96
 960315 - *Juniperus recurva* var. *bhutanica*; Atlanta Bot Garden, GA; rooted cutting; 4/30/96
 960046 - *Juniperus squamata* 'Blue Star'; Iseli Nursery, OR; 10 gal; 1/13/96
 960290 - *Kadsura longipedunculata*; Qingpu Paradise, China; seed; 4/30/96
 960478 - *Lagarostrobos franklinii*; Atlanta Bot Garden, GA; 1 gal; 8/6/96
 960245 - *Lagerstroemia limii*; Piroche Plants, Can; 2 gal; 4/2/96
 960022 - *Lagerstroemia speciosa*; Hong Kong Botanic Garden; seed; 1/1/96
 960632 - *Leucocjum autumnale*; Montrose Nursery, NC; 3"; 10/18/96
 960664 - *Leucothoe axillaris* 'Greensprite'; Mt. Cuba Center, DE; cutting; 12/19/96
 960666 - *Leucothoe axillaris* 'Redsprite'; Mt. Cuba Center, DE; cutting; 12/19/96
 960014 - *Leucothoe keiskei* 'Royal Ruby'; Roy Lancaster, Eng; cutting; 1/1/96
 960214 - *Leycesteria crocodyrros*; Heronswood Nurs, WA; 3/8/96
 960513 - *Ligularia hodgsonii*; Peter Loewer, NC; 1 qt; 8/21/96
 960170 - *Ligustrum delavayanum*; Heronswood Nurs, WA; 1 gal; 3/8/96
 960374 - *Ligustrum quihoui*; Montrose Gardens, NC; 1 gal; 6/5/96
 960424 - *Lindera erythrocarpa*; Chollipo Arb, Korea; seed; 7/3/96
 960275 - *Lindera fruticosa*; Univ. of Nebraska; 94-2919; liner; 4/2/96
 960425 - *Lindera glauca*; Chollipo Arb, Korea; seed; 7/3/96
 960291 - *Lindera megaphylla*; Qingpu Paradise, China; seed; 4/30/96
 960426 - *Lindera obtusiloba*; Chollipo Arb, Korea; seed; 7/3/96
 960643 - *Lindera obtusiloba*; Camellia Forest, NC; 2 qt; 10/1/96
 960385 - *Lindera praecox*; Chiba Univ., Japan; seed; 6/12/96
 960427 - *Lindera sericea*; Chollipo Arb, Korea; seed; 7/3/96
 960386 - *Lindera trilobum*; Chiba Univ., Japan; seed; 6/12/96
 960423 - *Lithocarpus edulis*; Chollipo Arb, Korea; seed; 7/3/96
 960215 - *Litsea cubeba*; Heronswood Nurs, WA; 3/8/96
 960019 - *Lonicera henryi*; Roy Lancaster, Eng; seed; 1/1/96
 960477 - *Lonicera hildebrandtiana*; Riverbanks Zoo, SC; 1 qt; 8/5/96
 960216 - *Lonicera syringantha*; Heronswood Nurs, WA; 3/8/96
 960564 - *Loropetalum chinense* 'Blush';
 960499 - *Loropetalum chinense* 'Burgundy'; Gilbert Nursery, SC; 2/?/96
 960147 - *Loropetalum chinense* 'Dirr Selection'; Taylor's Nursery, NC; 1 qt; 3/1/96
 960029 - *Loropetalum chinense* 'Firedance'; Griffith Propagators, GA; 1 gal; 1/15/96
 960135 - *Loropetalum chinense* 'Firedance'; unknown; 1 pt; 1/26/96
 960148 - *Loropetalum chinense* 'Piroche'; Taylor's Nursery, NC; 1 qt; 3/1/96
 960027 - *Loropetalum chinense* 'Plum Delight' TM; Hines Nursery, TX; 1 gal; 1/15/96
 960149 - *Loropetalum chinense* 'Ruby'; Taylor's Nursery, NC; 1 qt; 3/1/96
 960281 - *Loropetalum chinense* 'Ruby'; Mark Griffin Nursery, GA; 1 gal; 4/4/96
 960028 - *Loropetalum chinense* 'Sizzling Pink'; Griffith Propagators, GA; 1 gal; 1/15/96
 960285 - *Loropetalum chinense* 'Variegata'; Mark Griffin Nursery, GA; 1 gal; 4/4/96
 960134 - *Loropetalum chinense* 'Zhuzhou Fuschia'; unknown; 1 pt; 1/26/96
 960155 - *Loropetalum chinense* 'Zhuzhou Fuschia'; Griffith Propagators, GA; 1 gal; 1/15/96
 960626 - *Lycoris rosea*; David Stephans, NC; seed; 10/13/96
 960519 - *Lyonia* sp.; Dr. JC Raulston, NC; cutting; 8/23/96
 960581 - *Maackia faurei*; Arborvillage, MO; 2 gal; 10/7/96
 960292 - *Maesa huphensis*; Qingpu Paradise, China; seed; 4/30/96
 960293 - *Maesa japonica*; Qingpu Paradise, China; seed; 4/30/96
 960396 - *Maesa japonica*; Chiba Univ., Japan; seed; 6/12/96
 960071 - *Magnolia acuminata* var. *subcordata* 'Miss Honeybee'; August Kehr, NC; 1 gal; 1/20/96
 960259 - *Magnolia biloba*; Univ. of Nebraska; 94-2927; liner; 4/2/96
 960066 - *Magnolia biondii*; August Kehr, NC; R5-28; 1 gal; 1/20/96
 960020 - *Magnolia coco*; Hong Kong Botanic Garden; seed; 1/1/96
 960103 - *Magnolia cylindrica* 'Bjuv'; August Kehr, NC; 1 gal; 1/20/96
 960063 - *Magnolia denudata* 'Forrest's Pink'; August Kehr, NC; 1 gal; 1/20/96
 960105 - *Magnolia denudata* 'Gere'; August Kehr, NC; 1 gal; 1/20/96
 960537 - *Magnolia grandiflora* 'Tulsa'; Arnold Arboretum, MA; cutting; 9/20/96
 960097 - *Magnolia hypoleuca*; August Kehr, NC; 13-8; 1 gal; 1/20/96
 960578 - *Magnolia hypoleuca*; Camellia Forest, NC;
 960079 - *Magnolia kobus* 'Edward A. Kehr'; August Kehr, NC; 19-19; 1 gal; 1/20/96
 960073 - *Magnolia kobus* 'Norman Gould'; August Kehr, NC; R12-30; 1 gal; 1/20/96
 960058 - *Magnolia kobus* 'Two Stones'; August Kehr, NC; 13-29; 1 gal; 1/20/96
 960088 - *Magnolia kobus* 'Two Stones'; August Kehr, NC; 1 gal; 1/20/96
 960677 - *Magnolia kobus* 'Two Stones'; Fairweather Gardens, NJ; 2 gal; 10/30/96
 960657 - *Magnolia macrophylla*; Willowood Arb, NJ; seed; 12/17/96
 960448 - *Magnolia sieboldii*; Richard Schock, NC; 1 gal; 7/15/96
 960658 - *Magnolia sieboldii*; Willowood Arb, NJ; seed; 12/17/96
 960128 - *Magnolia sieboldii* 'Michiko Renge'; August Kehr, NC; 16x-1; 1 gal; 1/20/96
 960114 - *Magnolia* sp.; August Kehr, NC; 15-1; 1 gal; 1/20/96
 960538 - *Magnolia* sp.; Brooklyn Bot Gard, NY; BBGRC 1164; 1 qt; 9/20/96
 960539 - *Magnolia* sp.; Brooklyn Bot Gard, NY; BBGRC 1160; 1 qt; 9/20/96
 960110 - *Magnolia sprengeri*; August Kehr, NC; 11-14; 1 gal; 1/20/96
 960081 - *Magnolia sprengeri* var. *diva*; August Kehr, NC; 1 gal; 1/20/96
 960099 - *Magnolia stellata* 'Chrysanthemiflora'; August Kehr, NC; 1 gal; 1/20/96
 960054 - *Magnolia stellata* 'Gold Star'; August Kehr, NC; 1 gal; 1/20/96
 960085 - *Magnolia stellata* 'Scented Silver'; August Kehr, NC; 1 gal; 1/20/96
 960117 - *Magnolia stellata* 'Scented Silver'; August Kehr, NC; 1 gal; 1/20/96
 960234 - *Magnolia virginiana*; Davidson College, NC; cutting; 3/7/96
 960056 - *Magnolia* X; August Kehr, NC; 9-9; 1 gal; 1/20/96
 960057 - *Magnolia* X; August Kehr, NC; 1 gal; 1/20/96
 960059 - *Magnolia* X; August Kehr, NC; 10-24; 1 gal; 1/20/96
 960064 - *Magnolia* X; August Kehr, NC; 13-12; 1 gal; 1/20/96
 960065 - *Magnolia* X; August Kehr, NC; 18-59; 1 gal; 1/20/96
 960069 - *Magnolia* X; August Kehr, NC; 9-14; 1 gal; 1/20/96
 960072 - *Magnolia* X; August Kehr, NC; R11-20; 1 gal; 1/20/96
 960077 - *Magnolia* X; August Kehr, NC; 18-60; 1 gal; 1/20/96
 960078 - *Magnolia* X; August Kehr, NC; 15-28; 1 gal; 1/20/96
 960083 - *Magnolia* X; August Kehr, NC; 1 gal; 1/20/96
 960086 - *Magnolia* X; August Kehr, NC; 1 gal; 1/20/96
 960089 - *Magnolia* X; August Kehr, NC; 7x-4; 1 gal; 1/20/96
 960092 - *Magnolia* X; August Kehr, NC; R4-8; 1 gal; 1/20/96
 960093 - *Magnolia* X; August Kehr, NC; 13X -10; 1 gal; 1/20/96
 960094 - *Magnolia* X; August Kehr, NC; 13-12; 1 gal; 1/20/96
 960095 - *Magnolia* X; August Kehr, NC; 3-18; 1 gal; 1/20/96
 960098 - *Magnolia* X; August Kehr, NC; 14x-11; 1 gal; 1/20/96
 960100 - *Magnolia* X; August Kehr, NC; 9-11; 1 gal; 1/20/96
 960111 - *Magnolia* X; August Kehr, NC; 1 gal; 1/20/96

1996 Accessions

- 960112 - Magnolia X; August Kehr, NC; 6x-1; 1 gal; 1/20/96
 960116 - Magnolia X; August Kehr, NC; 14-29; 1 gal; 1/20/96
 960121 - Magnolia X; August Kehr, NC; 16-22; 1 gal; 1/20/96
 960122 - Magnolia X; August Kehr, NC; 12-8; 1 gal; 1/20/96
 960129 - Magnolia X; August Kehr, NC; R15-3; 1 gal; 1/20/96
 960130 - Magnolia X; August Kehr, NC; R17-6; 1 gal; 1/20/96
 960131 - Magnolia X; August Kehr, NC; 14-34; 1 gal; 1/20/96
 960109 - Magnolia X brooklynensis 'Woodsman'; August Kehr, NC; 1 gal; 1/20/96
 960062 - Magnolia X 'Butterflies'; August Kehr, NC; 1 gal; 1/20/96
 960107 - Magnolia X 'Chyverton Red'; August Kehr, NC; 1 gal; 1/20/96
 960106 - Magnolia X 'Dawn'; August Kehr, NC; 1 gal; 1/20/96
 960118 - Magnolia X 'Daybreak'; August Kehr, NC; 1 gal; 1/20/96
 960075 - Magnolia X 'Deep Purple Dream'; August Kehr, NC; 1 gal; 1/20/96
 960067 - Magnolia X 'Emma Cook'; August Kehr, NC; 1 gal; 1/20/96
 960108 - Magnolia X 'Encore'; August Kehr, NC; 1 gal; 1/20/96
 960127 - Magnolia X 'Eskimo'; August Kehr, NC; 11-17; 1 gal; 1/20/96
 960125 - Magnolia X 'Gold Crown'; August Kehr, NC; 1 gal; 1/20/96
 960080 - Magnolia X 'Iolanthe'; August Kehr, NC; 1 gal; 1/20/96
 960101 - Magnolia X 'Ivory Chalice'; August Kehr, NC; 1 gal; 1/20/96
 960060 - Magnolia X 'Janaki Ammal'; Aug. Kehr, NC; R10-21; 1g; 1/20/96
 960120 - Magnolia X 'Laser'; August Kehr, NC; R11-29; 1 gal; 1/20/96
 960001 - Magnolia X 'Legend'; Dr. Tom Ranney, NCSU; 5 gal; 1/3/96
 960132 - Magnolia X 'Legend'; August Kehr, NC; 1 gal; 1/20/96
 960074 - Magnolia X loebneri 'Ballerina'; August Kehr, NC; 1 gal; 1/20/96
 960091 - Magnolia X loebneri 'Powder Puff'; August Kehr, NC; 1g; 1/20/96
 960084 - Magnolia X 'Maryland'; August Kehr, NC; 1 gal; 1/20/96
 960061 - Magnolia X 'Milky Way'; August Kehr, NC; 1 gal; 1/20/96
 960055 - Magnolia X 'Patriot'; August Kehr, NC; 1 gal; 1/20/96
 960119 - Magnolia X 'Paul Cook'; August Kehr, NC; 1 gal; 1/20/96
 960068 - Magnolia X 'Pink Goblet'; August Kehr, NC; 1 gal; 1/20/96
 960076 - Magnolia X 'Raspberry Swirl'; Aug. Kehr, NC; R13-4; 1g; 1/20/96
 960102 - Magnolia X 'Rosy Red'; August Kehr, NC; 1 gal; 1/20/96
 960133 - Magnolia X 'Sayonara'; August Kehr, NC; 1 gal; 1/20/96
 960126 - Magnolia X 'Serene'; August Kehr, NC; 1 gal; 1/20/96
 960123 - Magnolia X soulangeana 'Lombardy Rose'; August Kehr, NC; 1 gal; 1/20/96
 960082 - Magnolia X 'Star Wars'; August Kehr, NC; 1 gal; 1/20/96
 960124 - Magnolia X 'Sundance'; August Kehr, NC; 1 gal; 1/20/96
 960115 - Magnolia X 'Sunray'; August Kehr, NC; 1 gal; 1/20/96
 960087 - Magnolia X 'Vulcan'; August Kehr, NC; 1 gal; 1/20/96
 960104 - Magnolia X 'White Lips'; August Kehr, NC; 1 gal; 1/20/96
 960096 - Magnolia X 'White Rose'; August Kehr, NC; 1 gal; 1/20/96
 960090 - Magnolia X 'Yellow Bird'; August Kehr, NC; 1 gal; 1/20/96
 960113 - Magnolia X 'Yellow Lantern'; August Kehr, NC; 1 gal; 1/20/96
 960070 - Magnolia zenii; August Kehr, NC; 1 gal; 1/20/96
 960018 - Mahonia gracilipes; Roy Lancaster, Eng; seed; 1/1/96
 960144 - Mahonia nervosa; U. of Washington Arb, WA; 19; seed; 2/14/96
 960017 - Mahonia X savelli; Roy Lancaster, Eng; seed; 1/1/96
 960627 - Mahonia X wagneri; Montrose Nursery, NC; 1 qt; 10/18/96
 960458 - Malaviscus arboreus var. drummondii alba; Dorremus Nursery, TX; 1 gal; 7/16/96
 960555 - Mallotia apelta; Camellia Forest, NC;
 960244 - Manglietia insignis; Piroche Plants, Can; 1 gal; 4/2/96
 960248 - Manglietia tsoi; Shibamichi Nursery, Jap; bareroot graft; 4/2/96
 960389 - Meliosma dilleniifolia ssp. tenuis; Chiba U., Japan; seed; 6/12/96
 960388 - Meliosma hachijoensis; Chiba Univ., Japan; seed; 6/12/96
 960532 - Melliodendron xylocarpum; Camellia Forest, NC; 0.5 gal; 9/9/96
 960044 - Miscanthus sinensis 'Morning Light'; Shadow Nursery, TN; B&B; 1/15/96
 960646 - Miscanthus sinensis 'Morning Light'; Hoffman Nursery, NC;
 960398 - Mitchella undulata; Chiba Univ., Japan; seed; 6/12/96
 960352 - Musa velutina; Rabid Gardener Plant Sale, NC; 2 gal; 6/3/96
 960517 - Myrica cerifera; Dr. JC Raulston, NC; cutting; 8/23/96
 960521 - Myrica cerifera; Dr. JC Raulston, NC; cutting; 8/23/96
 960524 - Myrica cerifera; Dr. JC Raulston, NC; cutting; 8/23/96
 960535 - Myrica cerifera;
 960450 - Myrica cerifera 'Creech'; David Creech, TX; 1 gal; 7/16/96
 960140 - Myrica cerifera var. pumila; Hunter Stubbs, NC; 1 gal; 2/9/96
 960515 - Myrica cerifera var. pumila; Dr. JC Raulston, NC; cutting; 8/23/96
 960518 - Myrica heterophylla; Dr. JC Raulston, NC; cutting; 8/23/96
 960523 - Myrica heterophylla; Dr. JC Raulston, NC; cutting; 8/23/96
 960341 - Narcissus assoanus; Martin Luther BG, Ger; seed; 5/28/96
 960217 - Neillia uekii; Heronswood Nurs, WA; 3/8/96
 960294 - Neolitsea levinei; Qingpu Paradise, China; seed; 4/30/96
 960631 - Nerine filifolia; Montrose Nursery, NC; 3"; 10/18/96
 960540 - Nerine sarniensis; Suncrest Nurseries, CA; 1 gal; 9/26/96
 960526 - Nolina bigelowii; Tony Avent, NC; 1 qt; 8/28/96
 960529 - Nolina microcarpa; Tony Avent, NC; 1 qt; 8/28/96
 960633 - Onopordum acanthium; Riverbanks Zoo, SC; 1 qt; 12/2/96
 960233 - Osmanthus americanus; Davidson Symp Plant Sale, NC; 3 gal; 3/7/96
 960241 - Osmanthus fragrans 'Thunbergii'; Piroche Plants, Can; 1gal; 4/2/96
 960218 - Osmanthus heterophyllus 'Kembu'; Heronswood Nurs, WA; 3/8/96
 960009 - Osmanthus serrulatus; Roy Lancaster, Eng; cutting; 1/1/96
 960326 - Ostrya carpinifolia; P. Cappiello, ME; 1 gal; 5/9/96
 960295 - Parthenocissus laetivirens; Qingpu Paradise, China; seed; 4/30/96
 960453 - Pentas lanipolatas 'Stars and Stripes'; G. Grant, TX; 1 g; 7/16/96
 960544 - Peuraria lobata 'Sherman's Ghost'; Barry Yinger, PA; 9/30/96
 960599 - Philadelphus X 'Snow Velvet'; Arborvillage, MO; 1 gal; 10/7/96
 960219 - Phillyrea latifolia; Heronswood Nurs, WA; 3/8/96
 960404 - Phormium cookianum; Richard Olsen, NC; 1 qt; 6/28/96
 960431 - Photinia beauverdiana; Chollipo Arb, Korea; seed; 7/3/96
 960004 - Photinia prionophylla; Roy Lancaster, Eng; cutting; 1/1/96
 960432 - Photinia serratifolia; Chollipo Arb, Korea; seed; 7/3/96
 960433 - Photinia villosa; Chollipo Arb, Korea; seed; 7/3/96
 960049 - Picea abies 'Pendula'; Iseli Nursery, OR; 3 gal; 1/13/96
 960254 - Picea asperata; Univ. of Nebraska; 94-3048; liner; 4/2/96
 960575 - Picea asperata; Camellia Forest, NC;
 960041 - Picea glauca; Iseli Nursery, OR; 5 gal; 1/15/96
 960048 - Picea glauca 'Nana'; Iseli Nursery, OR; 5 gal; 1/13/96
 960255 - Picea jezoensis; Univ. of Nebraska; 94-3049; liner; 4/2/96
 960257 - Picea koyamai; Univ. of Nebraska; 94-2816; liner; 4/2/96
 960638 - Picea orientalis; Camellia Forest, NC;
 960659 - Picea orientalis; Willowood Arb, NJ; seed; 12/17/96
 960256 - Picea schrenkiana var. tianschanica; Univ. of Nebraska; 94-3052; liner; 4/2/96
 960660 - Pinus bungeana; Willowood Arb, NJ; seed; 12/17/96
 960661 - Pinus cembra; Willowood Arb, NJ; seed; 12/17/96
 960033 - Pinus mugo var. pumilio; Iseli Nursery, OR; 3 gal; 1/15/96
 960180 - Pinus yunnanensis; Heronswood Nurs, WA; 1 qt; 3/8/96
 960563 - Pittosporum daphniphyloides; Riverbanks Zoo, SC; 2 gal; 12/2/96
 960296 - Pittosporum illicioides; Qingpu Paradise, China; seed; 4/30/96
 960297 - Pittosporum truncatum; Qingpu Paradise, China; seed; 4/30/96
 960462 - Platanus mexicana; Treeseach Farms, TX; 1 gal; 7/16/96
 960306 - Platycladus orientalis var. xiangshanensis; Atlanta Bot Garden, GA; cutting; 4/30/96
 960487 - Podocarpus acutifolius; Atlanta Bot Garden, GA; 1qt; 8/6/96
 960488 - Podocarpus alpinus 'Blue Gem'; Atlanta Bot Garden, GA; 1 qt; 8/6/96
 960174 - Podocarpus lawrencei; Heronswood Nurs, WA; 1 qt; 3/8/96
 960311 - Podocarpus lawrencei; Atlanta Bot Garden, GA; rooted cutting; 4/30/96
 960489 - Podocarpus lawrencei; Atlanta Bot Garden, GA; 1qt; 8/6/96
 960181 - Podocarpus macrophyllus; Heronswood Nurs, WA; 1 qt; 3/8/96
 960485 - Podocarpus nivalis 'Bronze'; Atlanta Bot Garden, GA; 1 qt; 8/6/96
 960486 - Podocarpus nivalis 'Kralingen'; Atlanta Bot Gard, GA; 1qt; 8/6/96
 960483 - Podocarpus nivalis 'Rockery Gem'; Atlanta Botanical Garden, GA; 1 qt; 8/6/96
 960484 - Podocarpus nivalis 'Trompenburg'; Atlanta Botanical Garden, GA; 1 qt; 8/6/96
 960184 - Populus X candicans 'Aurora'; Heronswood Nurs, WA; 1qt; 3/8/96
 960229 - Primula vulgaris; Camellia Forest, NC; seedling; 3/12/96
 960011 - Prostanthera cuneata; Roy Lancaster, Eng; cutting; 1/1/96

1996 Accessions

- 960308 - *Prumnopitys andina*; Atlanta Bot Garden, GA; cutting; 4/30/96
 960635 - *Prunus mume* 'Rosebud'; Camellia Forest, NC; 2 qt; 10/1/96
 960580 - *Prunus serrula*; Arborvillage, MO; 2 gal; 10/7/96
 960662 - *Pseudolarix amabilis*; Willowood Arb, NJ; seed; 12/17/96
 960312 - *Pseudotaxus chienii*; Atlanta Bot Gard,GA;rooted cutting;4/30/96
 960493 - *Pseudotaxus chienii*; Atlanta Bot Gard, GA; 1 qt; 8/6/96
 960496 - *Pseudotaxus chienii*; Atlanta Bot Garden, GA; PB 869165 10-1395; 1 gal; 8/6/96
 960589 - *Pterocarya hupehensis*; Arborvillage, MO; 1 gal; 10/7/96
 960449 - *Quercus glaucooides* 'Lacey Oak';David Creech,TX;1gal;7/16/96
 960621 - *Quercus mongolica* var. *grosseserrata*; Arborvillage, MO; 2 gal; 10/7/96
 960337 - *Quercus prinoides*; Int'l Dendrological Society; 1 qt; 5/16/96
 960546 - *Quercus robur lacinata*; Girard Nurseries, OH; 3 gal; 9/30/96
 960601 - *Quercus robur* 'Variegata'; Arborvillage, MO; 2 gal; 10/7/96
 960447 - *Rhus ambigua* 'Seven Year Itch';Barry Yinger, PA; 3" pot; 5/7/96
 960452 - *Rhus michauxii*; Niche Gardens, NC; 2 gal; 7/16/96
 960141 - *Rosa X* 'Carefree Delight' TM; Conard-Pyle, PA; 3 gal; 2/17/96
 960557 - *Rosa X* 'Flower Carpet White';Angelica Nurs.Inc,MD;2g;11/13/96
 960454 - *Ruellia brittoniana*; David Creech, TX; 1 gal; 7/16/96
 960455 - *Ruellia brittoniana* 'Katie'; Treeseach Farms, TX; 1 gal; 7/16/96
 960503 - *Sabal* sp.; Jesse Perry, NC; 3" pot; 8/12/96
 960504 - *Sabal* sp.; Jesse Perry, NC; 3" pot; 8/12/96
 960505 - *Sabal* sp.; Jesse Perry, NC; 3" pot; 8/12/96
 960016 - *Salix caprea* 'Curly Lock'; Roy Lancaster, Eng; scion; 1/1/96
 960159 - *Sambucus racemosa* 'Sutherland Gold'; Heronswood Nurs, WA; 1 qt; 3/8/96
 960610 - *Sapindus drummondii*; Arborvillage, MO; 1 gal; 10/7/96
 960438 - *Schima liukuensis*; Chollipo Arb, Korea; seed; 7/3/96
 960384 - *Schisandra repanda*; Chiba Univ., Japan; seed; 6/12/96
 960663 - *Sciadopitys verticillata*; Willowood Arb, NJ; seed; 12/17/96
 960350 - *Selaginella uncinata*; Rabid Gard Plant Sale, NC; 2 gal; 6/3/96
 960145 - *Sinofranchetia chinensis*; Univ. of Washington Arb, WA; 120; seed; 2/14/96
 960223 - *Sinowilsonia henryi*; Heronswood Nurs, WA; 3/8/96
 960263 - *Sinowilsonia henryi*; Univ. of Nebraska; 94-3075; liner; 4/2/96
 960403 - *Sisyrinchium idahoense*; Richard Olsen, NC; 1 pt; 6/28/96
 960240 - *Sloanea sinensis*; Piroche Plants, Can; 1 gal; 4/2/96
 960268 - *Sophora flavescens*; Univ. of Nebraska; 95-3174; liner; 4/2/96
 960463 - *Sophora secundiflora* 'Grayleaf';David Creech,TX;1 gal; 7/16/96
 960434 - *Sorbaria sorbifolia* f. *incanta*; Chollipo Arb, Korea; seed; 7/3/96
 960435 - *Sorbus alnifolia* var. *hirtella*; Chollipo Arb, Korea; seed; 7/3/96
 960436 - *Sorbus commixta*; Chollipo Arb, Korea; seed; 7/3/96
 960437 - *Sorbus esserteauana*; Chollipo Arb, Korea; seed; 7/3/96
 960269 - *Sorbus pohuashanensis*; U. of Nebraska; 94-2938; liner; 4/2/96
 960592 - *Spiraea japonica* 'Dakota Goldcharm'; Arborvillage, MO; 1 gal; 10/7/96
 960150 - *Spiraea japonica* 'Magic Carpet';Wayside Gard, SC;1g;3/1/96
 960154 - *Spiraea japonica* 'Neon Flash';Wayside Gardens, SC;1gal;3/1/96
 960619 - *Spiraea japonica* 'Neon Flash'; Arborvillage, MO; 2 gal; 10/7/96
 960533 - *Stachyurus chinensis*; Camellia Forest, NC; 0.5 gal; 9/9/96
 960298 - *Stachyurus himalaicus*; Qingpu Paradise, China; seed; 4/30/96
 960554 - *Stachyurus praecox*; Camellia Forest, NC;
 960441 - *Stachyurus praecox* 'Issai'; Nurseries Caroliniana,SC;1pt;7/5/96
 960299 - *Stachyurus zuechuanensis*;Qingpu Paradise,China;seed;4/30/96
 960300 - *Styrax chinensis*; Qingpu Paradise, China; seed; 4/30/96
 960301 - *Styrax odoratissimus*; Qingpu Paradise, China; seed; 4/30/96
 960678 - *Styrax odoratissimus*; Fairweather Gardens, NJ; 2 gal; 10/30/96
 960143 - *Styrax shiraianus*; Univ. of Washington Arb, WA; seed; 2/14/96
 960302 - *Styrax tonkinensis*; Qingpu Paradise, China; seed; 4/30/96
 960220 - *Symphoricarpos X doorenbosii* 'Mother of Pearl'; Heronswood Nurs, WA; 3/8/96
 960230 - *Syringa julianae* 'Hers Variety'; M. Hayman & J. Klein, KY; 5 gal; 3/12/96
 960428 - *Syringa patula*; Chollipo Arb, Korea; seed; 7/3/96
 960221 - *Syringa protolaciniata*; Heronswood Nurs, WA; 3/8/96
 960593 - *Syringa X* 'Red Pixie'; Arborvillage, MO; 2 gal; 10/7/96
 960606 - *Taxodium distichum* 'Monarch of Illinois'; Arborvillage, MO; 2 gal; 10/7/96
 960607 - *Taxodium distichum* 'Prairie Sentinel'; Arborvillage, MO; 2 gal; 10/7/96
 960602 - *Taxodium distichum* 'Shawnee Brave'; Arborvillage, MO; 2 gal; 10/7/96
 960605 - *Taxodium distichum* var. *imbricatum* 'Nutans'; Arborvillage, MO; 2 gal; 10/7/96
 960310 - *Taxus baccata* 'Amersfoort'; Atlanta Bot Garden, GA; rooted cutting; 4/30/96
 960182 - *Taxus floridana*; Heronswood Nurs, WA; 1 qt; 3/8/96
 960183 - *Taxus globosa*; Heronswood Nurs, WA; DJH 418; 1 qt; 3/8/96
 960237 - *Ternstroemia gymnanthera* 'Narrow Leaf Form'; Hampton Gardens,NC;cutting;3/29/96
 960013 - *Tetrastigma obtectum*; Roy Lancaster, Eng; cutting; 1/1/96
 960040 - *Thuja occidentalis* 'Smaragd'; Iseli Nursery, OR; 5 gal; 1/15/96
 960439 - *Tilia tarquetii*; Chollipo Arb, Korea; seed; 7/3/96
 960495 - *Titanotrichum oldhamii*; Atlanta Bot Garden, GA; 1 gal; 8/6/96
 960242 - *Toona sinensis*; Piroche Plants, Can; 1 gal; 4/2/96
 960399 - *Trachelospermum asiaticum* 'Variegatum'; Scott Burrell; 1 gal; 6/14/96
 960232 - *Trachycarpus fortunei*; Taylor's Nursery, NC; seedling; 3/19/96
 960402 - *Tradescantia sillamontana*; Longwood Gardens, PA; 930542; 4" pot; 6/26/96
 960510 - *Tricyrtis hirta* 'Miyazaki'; Peter Gentling, NC; 3" pot; 8/19/96
 960421 - *Tripterygium regelii*; Chollipo Arb, Korea; seed; 7/3/96
 960541 - *Tsoongiodendron odorum*; Shibamichi Nursery, Japan; 9/30/96
 960382 - *Tsuga sieboldii*; Chiba Univ., Japan; seed; 6/12/96
 960303 - *Tutcheria spectabilis*; Qingpu Paradise, China; seed; 4/30/96
 960469 - *Typha latifolia* 'Variegata'; Richard Schock, NC; 2 gal; 7/26/96
 960459 - Unknown bulb; Camellia Forest, NC; 1 qt; 7/16/96
 960323 - *Vaccinium angustifolia*; P. Cappello, ME; 1 qt; 5/9/96
 960324 - *Vaccinium angustifolia* 'Burgundy'; P. Cappello, ME;
 960561 - *Veronica reptans aurea*; Pine Knott Farms, VA; 1 qt; 10/3/96
 960271 - *Viburnum burejaeticum*; U. of Nebraska; 94-3083; liner; 4/2/96
 960160 - *Viburnum cinnamomifolium*; Heronswood Nurs, WA; 1 qt; 3/8/96
 960007 - *Viburnum cylindricum*; Roy Lancaster, Eng; cutting; 1/1/96
 960042 - *Viburnum dilatatum* 'Asian Beauty'; Shadow Nursery, TN; B&B; 1/15/96
 960272 - *Viburnum mongolicum*; U. of Nebraska; 95-3176; liner; 4/2/96
 960164 - *Viburnum plicatum* 'Pink Beauty'; Heronswood Nurs, WA; 1 qt; 3/8/96
 960222 - *Viburnum sieboldii*; Heronswood Nurs, WA; 3/8/96
 960640 - *Viburnum tinus* 'Bewley's Variegated'; Head Lee Nursery, SC; 3 gal; 12/5/96
 960373 - *Vitis X* 'Triumph'; Will Hooker, NCSU; 1 gal; 6/5/96
 960252 - *Wisteria floribunda* 'Multijuga'; Shibamichi Nursery, Japan; bareroot graft; 4/2/96
 960250 - *Wisteria floribunda* 'Richin's Purple'; Shibamichi Nursery, Japan; bareroot graft; 4/2/96
 960511 - *Wisteria sinensis* 'America's First';Ted Stephens,NC;3"pot;8/19/96
 960243 - *Wisteria venusta*; Piroche Plants, Can; 1 gal; 4/2/96
 960151 - *Wisteria venusta* 'Wayside's White Flowered'; Wayside Gardens, SC; 1 gal; 3/1/96
 960251 - *Wisteria X formosa* 'Kokkuryu'; Shibamichi Nursery, Japan; bareroot graft; 4/2/96
 960366 - *Xanthosoma* sp.; Rabid Gardener Plant Sale, NC; 2 gal; 6/3/96
 960514 - *Xyris* sp.; Dr. JC Raulston, NC; 1 qt; 8/23/96
 960136 - *Zanthoxylum clava-herculis*; Tulsa Zoo Park, OK; seed; 1/26/96
 960319 - *Zea mays* 'Variegata'; Collector's Nursery, WA; 5/8/96
 960625 - *Zephyranthes macrosiphon*;Amer. Rock Gard Soc.; 3"; 10/13/96
 960304 - *Zingiber mioga*; Qingpu Paradise, China; seed; 4/30/96
 960249 - *Ziziphus jujuba* 'Inermis'; Shibamichi Nursery, Japan; bareroot graft; 4/2/96
 960411 - *Ziziphus* sp.; Kew Royal BG, Eng; seed; 7/3/96

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

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