

INTERNATIONAL REGISTER OF ORNAMENTAL PLANT CULTIVARS:

WOODY PLANTS
GENERA A - G
FALL 2018



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SENIOR REGISTRAR

www.cultivar.org

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Open Registration of Cultivars

INTRODUCTION: This is the first of three volumes in our series of woody plant cultivar registrations submitted to and discovered by the OROC Project. Originally we hoped to "just catch up" on years of missing registrations and documentation and cut off the new tree, shrub, vine, and conifer registrations at 2013. We figured there might be a few pages. In fact, doing 2013 to present eventually produced more than 180 PDF 8 x 12 in. pages of described cultivars. And that count grows every single day.

Just yesterday we found another 31 commercially offered cultivars from Europe we had missed. We don't normally read a lot of Polish and Hungarian nursery catalogs - but should! Every country has some very cool, new stuff. Cultivar.org now has 209 Ginkgo cultivars, all documented, and that number should speak volumes about how obsessed we are with finding out and learning - and of course sharing the data with absolutely everyone. And I was online this week getting new Ginkgo data from Ginkgo collectors around the world. The 209 is going to grow and it should.

This past several years has been a wonderful, exciting ride and the OROC volunteers never get tired of your email comments. More than 78,000 people have either viewed online or downloaded our free registers. There are untold more people, mainly at schools and libraries we think, who received copies second and third hand. Please continue to share these registrations. My favorite comment (and one that speaks volumes to me personally) is "I would have [loved/killed for] to have this resource when I was a student". Me too. Cubed. My second favorite comment is "I almost bought a bunch of X and you guys told me about a better cultivar with more disease resistance and a better look". I'm no eco-nut but knowing about new, superior cultivars is going to spare the world from a lot of unnecessary spraying, weeding out seedlings, cleaning up messy fruit, water consumption, and corrective maintenance. That is both green and logical.

The partner and chief funding source of OROC Woody Plant Registrations remains my own comprehensive encyclopedia, Cultivars of Woody Plants (CWP). Those volumes are getting or have received all the new OROC registrations as have the books, articles, blogs, tweets, and posts of other authors. If these registrations seem out of context, please subscribe to CWP which adds cultivars from around 700 A.D. to present and compares the new to the old. Yes, some garden trees and shrub varieties are that old. CWP is the bigger picture, spanning centuries of variety knowledge.

We have endeavored to produce as accurate and useful descriptions as possible based on all available information on these new and often very rare cultivars. This registry is never finished so if you know more (and can document it) please contact us at ornamentals@lycos.com with OROC in your subject line. Where no descriptions are placed please rely on the under URL link to view the originator's or a major vendor's description.

Before I ramble on...yet again...OROC is not pronounced like a popular, light weight, hotel lobby vacuum cleaner but as "Oh-rock" something like the snazzy and garish lime green or orange IROC Chevy Camaro you or your dad may have had in high school. If you're a Millennial...Google IROC before your phone catches fire. Hope that helps. We hope to rock.

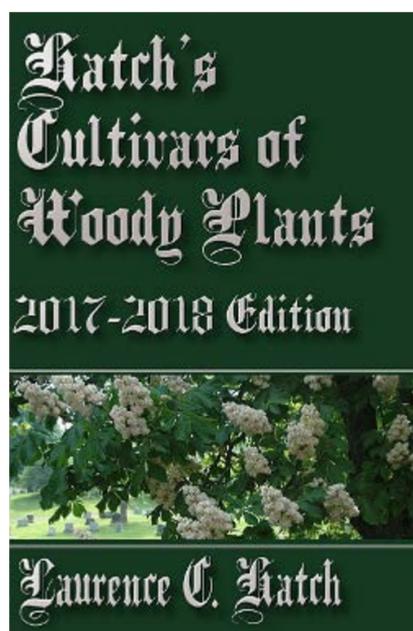
Some wise collectors, breeders, plant materials experts, students, designers, directors of this or that, consultants, big growers, plant people of all shapes and sizes, curators, taxonomists, gurus, future gurus, and otherwise well connected plant people did not know about a large percentage of the plants we registered. Neither did I. So maybe this remains a good idea.

If this book makes you or me feel more eager to learn and click, empowered, charged up, ready to dig up more of your lawn for planting beds, crazy and insane to acquire some new cool plants, happy about the general state of gardening universe, loving those devoted plant breeders, bringing your students up to pace, and with a vast new knowledge base, we at OROC have done our job. If we went "above and beyond" and we knocked your socks over to the next county, please write. If we didn't - also please write and tell us how to get better.

Your data submissions today will make those free books happen. Thank you in advance.

Tell us what you think because we truly care.

- Larry Hatch
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ABEL001 - Abelia TWIST OF ORANGE™ 'sPg-3-069' (Hawksridge Farms) - 4-5 ft. tall x wide. Leaves margined coral-orange at first, later more gold-margined, chimera 15-30% surface, very bold as such. Flowers near white, floriferous. Developed by the Southern Plant Group or sPg.

ABEL002 - Abelia SUNNY CHARM® 'MINDU01' (Plantarium.nl) - 50-110cm tall x wide, dense, subglobose. Flowers dark cream to light yellow, throat also purplish-pink to pale violet on side, main throat cream with fine golden reticulations, very odd colors for this genus, buds distinctly violet to purple on exterior, calyx more copper to reddish. Selected by Pepinieres Minier, Eur. PBR 35714.

ABEL003 - Abelia x grandiflora LUCKY LOTS (Concept Plants)

ABEL004 - Abelia x grandiflora LADY LIBERTY™ 'Keylib' - habit compact, dense. Flower corolla white tinged pink, calyx pale dusky pink. Leaves red in fall, showy. Cold hardy to -20 deg. C. Eur. PBR to breeder Klemens Keijzers, also spelled Klemens Keysers Plantipp.eu, accessed 4.25.2015.

ABEL005 - Abelia PINK PONG® 'ABENOV41' - 1.5-2.0m tall x 1.2-1.5m wide. Flowers rich lavender-pink to violet in bud opening to light pink or lavender-pink with darker markings of golden-orange in throat, calyx more light pinkish-orange to purplish-copper, highly floriferous over a long period. Selected by INRA/SAPHINOV, a 2004 cross of A. schumannii 'Bumblebee' x A. grandifolia 'Semperflorens', sapho.fr, EU PBR pending, accessed 5.31.2015.

ABEL006 - *Abelia x grandiflora* GOLD TOUCH® 'BMRGOLD' - 60-100cm tall x 60-80cm wide. Twigs orangish to red, showy, contrasting well. Leaves golden-yellow, orange and copper tints in new tips, similar but stronger tones in fall. Flower near white to pale pink. Selected by Andre Briant in cooperation with Pepinieres Minier.

ABEL007 - *Abelia x grandiflora* MYSTIC DAYDREAM 'Opstal40' USPP# 25193

ABEL008 - *Abelia* MISS LEMON™ 'Hopley's Lemon Zest' - 3 ft. tall x 4 ft. wide. Flower corolla light pink. Leaves irregularly margined golden-yellow at 5-15% surface, this chimera later more ivory-yellow to cream by the second year. In: Southern Living Plant Collection. Web: http://southernlivingplants.com/images/uploads/fact-sheets/abelia_miss_lemon.pdf, accessed 4.6.2016

ABEL009 - *Abelia x grandiflora* PINK LADY™ 'KEYLAD' - compact, irregularly spreading to mounded. Leaves broadly margined white at 15-40%, new growth bright pink, very showy as a tricolor.

In, ph: <http://www.sapho.fr/gb/trees-and-shrubs/246-abelia-x-grandiflora-pink-lady-keylad-.html>, accessed 10.13.2016

ABEL010 - *Abelia x grandiflora* 'KEYFLY' - Pat: Euro PBR CPVO #20122179 to Klemens Keyzers on April 24, 2014.

ABEL011 - *Abelia x grandiflora* 'KEYCARN' - Pat: Euro PBR CPVO #20150197 to Klemens Keyzers on January 26, 2015

ABEL012 - *Abelia x grandiflora* 'Colour Wheel' - 1m tall x wide. Leaves margined lime green, chimera 35-50% surface. Flower corolla white. Web: <http://www.touchofclassplants.com.au/products/abelia-colour-wheel/>, accessed 3.12.2017

ABEL013 - *Abelia x grandiflora* BELLA DONNA™ 'Wevo1' (incorrectly on some websites. as 'Wevol') - 20.4 cm tall x 47.4 cm wide in 15 cm containers, can reach 1 m tall x wide in time, initially sub-prostrate to low-spreading, low mounded, much lower than most other variegates as young plants, leaves margined light yellow at first, becoming a cream to white margin with maturity, very dark green base color, chimera about 5-15% surface, some "sectoring in" lines at the apex, also a midrib that may be marked yellow to white too, variegation retains from spring to winter. flower corolla nearly white, floriferous, very long summer bloom period. Pat, or: US#26126 to Landert de Vos on Nov. 24, 2015, as 'Wevo1', a sport of 'Abelops' 2008 in Reeuwijk, The Netherlands.

ABEL014 - *Abelia x grandiflora* SCENTED BLUSH™ SUNSHINE DAYDREAM 'Abelops' - legacy registration: [Please read Pat: US#20951](#)

ABEL015 - *Abelia x grandiflora* TWIST OF LEMON™ 'Gretol' - web: <http://www.gardendebut.com/plant/Twist-of-Lemon-Abelia>, accessed 12/28/2017

ABEL016 - *Abelia x grandiflora* TWIST OF LIME™ - new trademark name for 'Hopleys'. <http://www.gardendebut.com>

ABEL017 - *Abelia x grandiflora* TWIST OF VANILLA™ 'Wevo1' - <http://www.gardendebut.com>

ABEL018 - *Abelia x grandiflora* FUNSHINE™ 'Minacara1' = 2-3 ft. tall x wide, leaves with "bright marmalade-orange and caramel" all season long, older leaves lime to light green, flower corolla lavender-purple "peppering the branches all summer", fragrant, better habit and dark color than BRONZE ANNIVERSARY "which it now replaces". In: http://springmeadownursery.com/plants_details.php?id=410, accessed 12.27.2017

ABEL019 - *Abelia* PASTEL CHARM® 'Minduo2' - 1.5m tall x wide, flowers appearing light pink, on close inspection light pink with lavender-pink markings at the base of the corolla outside and in the middle of its lobes inside, new leaf tips reddish. Or: Pepinieres Minier 2014, <https://www.pepinieres-minier.fr/produit/abelia-x-pastel-charm-r-minduo2-cov>, accessed 12.27.2017

ABEL020 - *Abelia* PEACH PERFECTION™ 'SRPabeper' - 2-3 ft. tall x 4 ft. wide, compact. Leaves bright, glossy gold, holding up in sun and heat, new tips bright peach to red shades, fading to a light green, tricolor effect at time. So, in: Star Roses and Plants, online catalog 2018, https://issuu.com/starrosesandplants/docs/2018_catalog, accessed 10.31.2017

ABEL021 - *Abelia* GOLD TOUCH® 'BMRGOLD' - In, web: <http://www.sapho.fr>, accessed 10.31.2017

ABEL022 - *Abelia x grandiflora* FUNSHINE 'Minacara1' - <https://www.provenwinners.com/plants/abelia/funshine-abelia-grandiflora>, accessed 10.8.2018

ABEL023 - *Abelia x grandiflora* TWIST OF MANGO™ 'RNTOM' - <http://www.gardendebut.com/plant/Twist-of-Mango-Abelia>, accessed 10.8.2018

ABIE001 - Abies concolor 'Bugy Wugy' (Buchholz Nursery)

ABIE002 - Abies fraseri 'Green Scout' (Brotzman's Nursery) - narrowly columnar

ABIE003 - Abies balsamea 'Sticky Fingers' - compact, dense, columnar from broom, branchlets lon, finger-like, needled light green, shorter, quite resinous. Or: Mike and Cheryl Davison. Offered by www.coniferkingdom.com, accessed 2.16.2016.

ABIE004 - Abies lasiocarpa 'Blue Bear' - compact, slow, 2-4 in. a year growth rate, very rich icy blue, a different shade than the popular 'Glauca Compacta'. In, ph: <http://www.coniferkingdom.com>, accessed 10.12.2016

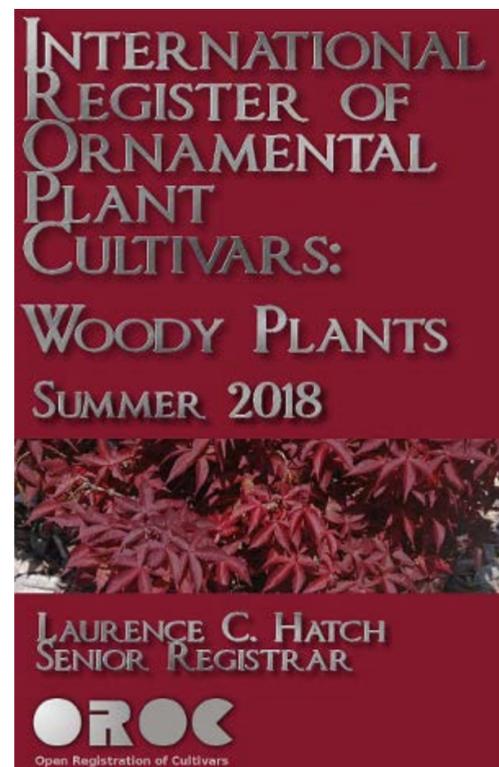
ABIE005 - Abies balsamea 'Bernadine Gold' - <http://www.inspection.gc.ca/english/plaveg/pbrpov/cropreport/firb/app00007363e.shtml>

ABIE006 - Abies balsamea 'Canada Creek Ranch' - habit upright to columnar, dense. Needles lighter green. So, in: <http://www.coniferkingdom.com>, accessed 10.31.2017, listed under new plants

ABIE007 - Abies balsamea 'Mighty Tightly' - habit slow, very dense, Or: Gary Gee from witches broom. So, in: <http://www.coniferkingdom.com>, accessed 10.31.2017, listed under new plants

ABIE008 - Abies concolor 'Hoop-dee-doo' - habit dense, very compact. Needles light blue. Or: Mike and Cheryl Davidson, found as broom at a golf course. So, in: <http://www.coniferkingdom.com>, accessed 10.31.2017, listed under new plants

ACCA001- Acca sellowiana BAMBINA™ 'TharFiona' - 3-4 ft. tall x wide, semi-dwarf, very compact. Leaves silvery, very showy, perhaps more so than species. Ch: USDA 7 as some (not all) species selections. So, in: <http://southernlivingplants.com/shrubs/plant/bambina-pineapple-guava>, accessed 10.31.2017. This ornamental-edible has fruit with a guava-like appearance but very complex flavors



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ACER001 Acer davidii VIPER® (Minier Nurseries) - an interesting bark, mostly pale greenish-white, faint stripes

ACER002 Acer rufinerve GREAT STAR® (Minier Nurseries) - bark bright green, heavily striped white (40% or so). Leaves rich carmine-red to orange shades in fall.

In: <http://www.pepinieres-minier.fr/fichePlante.php?codePlante=7983&route=pepiniere-RetDbis-research&lang=gb>

ACER004 - Acer 'Sugarflake' (A. griseum x A. saccharum)

ACER005 - Acer (Rochester Group) 'Shaved Chocolate' (Songsparrow Nursery, a Klehm introduction)

ACER006 -Acer palmatum x pseudosieboldianum ARCTIC JADE (Iseli Nursery, their own hybrid)

ACER007 - Acer palmatum DRAGON TEARS™ - Habit weeping. Leaves very bright red, deeply lobed, not classically incised or dissected. Selected by Ray and Cindy Jackson. Heritageseedlings.com, accessed April 2014.

ACER008 - Acer 'Ample Surprise' (A. amplum x A. platanoides)

ACER009 - Acer platanoides 'Beskid' (Institute of Pomology and Floriculture, Poland) - fastigate with twisted, curled leaves, something like 'Newton Sentry' and 'Crispum' were crossed. Collectors will adore this. NOTE: this link produces an automatic PDF download which may or may not load onto your screen.

ACER010 - Acer x freemannii SHELINA'S BEAUTY™

ACER011 - Acer campestre JADE PATINA™, photo courtesy of and copyright owned by www.baileynurseries.com, is a distinct improvement on the old, rampant, and ratty species. This one has a clearly incurving habit, erect-globose to ovoid in time, and a wonderful dark incised blade that reminds some of Acer griseum. The fine folks at Bailey's nursery, being in a climate where these super hardy maples are a real necessity, have a long record of improving tough Acer species.

ACER012 - Acer buergerianum 'Angyo Weeping' may prove to be the best weeping maples outside Acer palmatum Dissectum Group. It actually has some grace and is not semi-pendulous like so many so-called weeping, more like slightly cascading, cultivars promoted over the last two centuries. Now that the species has been shown to be surprisingly tough, hardy, and pretty in the North American mainstream landscape, suitable now for even corporate and mall plantings, this type of cultivar might get a shot at fame. Click image please. Image above not part of OROC Data Sharing.

ACER013 - Acer palmatum RED WINE® - Habit erect, strong. Leaves with new tips very bright red, becoming green suffused and heavily tinged purple to dark red, some even bronzy-green or bronzed red, orange to red shades in fall. It is not "ever-red" in the Bloodgood sense.

ACER014 - Acer NORTHERN GLOW® 'Hasselkus' (A pseudosieboldianum x A. palmatum) - 20 ft. tall x 24 ft. wide, upright-spreading. Cold hardy USDA 4, giving palmatum-like looks a zone better. Leaves green, deeply lobed, coarsely dentate to long-dentate margins, fall color bright orange and coral-red to dark red, very showy. Bred by Dr. Edward Hasselkus, University of Wisconsin, Madison.

ACER015 - Acer URBAN SUNSET™ 'JFS-KW187' (A. truncatum x A. platanoides) - 35 ft. tall x 20 ft. wide, compact, needing little pruning, narrowly pyramidal to upright-ovoid. Leaves dark glossy green, favoring A. truncatum for shape, silhouetted as an almost ratr-like or Liquidambar style look with broadly spaced lobes and deep lobing, fall color a rich, dark red, other times a rich orange to red Rmix. Cold hardy to USDA 4b. Jfschmidt.com, accessed 5.8.2015, their new introduction for 2015.

ACER016 - Acer buergerianum RAISING BLAZE 'EOAB1' - leaves very glossy, dark green, improved orange to red fall colors. Low seed production rate, therefore less chance of invasive behavior as some species seedlings and cultivars exhibit with high samara counts. Proven more heat tolerant in the southern US. Selected by Rusty Allen, Eastside Ornamentals, Athens, Georgia, US c. 2012. Literature: Dirr, M.A. 2012. In praise of noble trees. web article, plantintroductions.com, accessed 5.8.2015

ACER017 - Acer miyabei 'Butterball' - fall color reliably yellow, showy, if given enough sun. See http://www.montgomeryparks.org/activities/things_to_do/fall/documents/shf_presentation.pdf

ACER018 - Acer circinatum THREE CHEERS™ - 10-15 ft. tall x 6-8 ft. wide, twice as tall as wide in some cases, flame-shaped or ovoid, not a weak wild form but having uniform growth, an erect shrub to small tree. Leaves of typical dimensions yet darker green than most. heritageseedlings.com, accessed 5.6.2015, their own selection.

ACER019 - Acer palmatum 'Kinky Krinkle' - 8 ft. tall x 4 ft. wide (10 years), upright. Leaves bright green, lime at first, distinctly and thinly marked dark red to reddish-purple (1-5% surface), margin irregularly serrate to serrulate, crinkled look, 3-5-lobed to 75% deep but marginal crinkling is finer and more shallow, golden fall colors. Selected by Buchholz Nursery, accessed 5.19.2015.

ACER020 - *Acer palmatum* 'Peve Dave' - leaves very deeply lobed to 90% or more, lobes very narrow elliptic-linear, intermediate between species and Linearilobum Group, favoring the later, dusky pinkish-red, midribs and secondary veins more clearly pink to orangish-pink, later more reddish-purple with maturity, orange or red shades in fall, can very fiery orange in the right conditions.

ACER021 - *Acer platanoides* 'Nowush' - semi-dwarf, densely compact and subglobose (from witches broom) at first, later more erect, narrowly ovoid to narrowly pyramidal, can be trained more columnar, numerous erect columns of foliage, not an odd bean-pole as some mutants, being well-branched with many laterals, appears to be a viable small tree for many applications in the landscape. Leaves smaller, reduced in all parts, slightly and elegantly curled, very asymmetrical, often more deeply lobed than species (to 50-75% at times), lovely for the semi-incised look with many strong lobe and sub-lobe acuminate to acuminate-cuspidate apices, not deformed as some species mutants, terminal lobe usually large and dominating, fall color often a rich, showy gold.

ACER022 - *Acer rubrum* 'Jinse Qiutian' - leaves 5-lobed, distinctly light golden-brown in fall, photo appears to be more dark golden, 30 days of color. Published in *Acta Horticulturae Sinica* 42(2): 403-404 (2015)

ACER023 - *Acer rubrum* 'Yanhong' - leaves 5-lobed, very bright red in late October, best in early November, with 30-35 days of autumnal color. *Acta Hort. Sinica* 41(6): 1281-1282 (2014)

ACER024 - *Acer rubrum* 'Jinmai hong' - leaves 5-lobed, light red with golden-brown veins, beginning in October, best in early November, 30-35 days of autumnal color. *Acta Hort. Sinica* 40(12): 2549-2550 (2013)

ACER025 - *Acer campestre* STREETSIDE™ 'JFS Schictel2' - 35 ft. tall x 18 ft. wide, "upright sweeping" ovoid, bark exfoliating and showy reddish-brown curls, superior to random seedlings. Leaves dark green in summer, yellow in fall. Japanese beetle resistant. Or, in: www.jfschmidt.com, accessed 6.15.2016,

ACER026 - *Acer griseum* FIREBURST™ 'JFS KW8AGRI' - 25 ft. tall x 18 ft. wide, upright ovoid, "predictable performance and speedy growth", more uniform, erect, and with superior branch structure than random seedlings. Leaves dark green, bright red in fall. Or, in: www.jfschmidt.com, accessed 6.15.2016

ACER027 - *Acer palmatum* 'Verkade's Jacus Potus' - Shrubby, heavily branched. Leaves 3-divided, margins crinkled, red new growth. Or: David Verkade. Offered by www.heritageseedlings.com, online Wholesale Catalog 2015-2016 (PDF), accessed 2.16.2016

ACER028 - *Acer negundo* 'Tadevsz Szmanowski' - leaves very deeply incised, typical bright, light green, some lobes cut to the midrib and others to 0.5-1.5cm deep from the midrib. photo: <http://www.drzewa.com.pl/7505/klon-jesionolistny-tadeusz-szymanowski.jpg>

ACER029 - *Acer capillipes* 'Honeydew' - new growth bright reddish-orange to coral-melon tones, youngest tips the most red. Photo: <http://www.esveld.nl/html/diadu/a/acchon.htm>, accessed 5.17.2016

ACER030 - *Acer saccharum* 'Kristins Dissected' - 40 ft. tall x 20 ft. wide. Both narrowly columnar and with incised, dissected blades, yellow or orange shades in fall. Ls: Dawes Arb. 2012.

ACER031 - *Acer palmatum* 'Snow on the Mountain' ('Yuki Yama') - Dwarf, tufted at times, subglobose to densely mounded, very small, leaves narrowly 5-lobed, new growth rich pink with a paler white to green mottled midrib, becoming dark green finely mottled green with occasionally large patches (sometimes entire lobes) in white with sparse green markings, chimera often 90% in new growth and becoming 40-50% later, and very limited in old leaves. The originators compared it to "a variegated extreme dwarf form of 'Mikawa Yatsubusa', having smaller internodes and denser habit over time. Or, in: s3.amazonaws.com/essence-catalog/Essence_Catalog_Spring2016.pdf, accessed 10.7.2016, their own introduction, Two named as used but since 'Snow on the Mountain' appears in single quotations marks we consider that the preferred cultivar name. Being of difficult propagation the first plants are offered at \$200.00 US.

ACER032 - *Acer macrophyllum* 'Santiam Snow' - leaves heavily sectored and mottled cream to light yellow to greenish-yellow, often faintly spotted too, chimera easily 50-80% surface on some blades. In: Heritage Seedlings. Offered by www.coniferkingdom.com, accessed 2.16.2016

ACER033 - *Acer palmatum* 'Hangover' - habit arching, semi-pendulous. Leaves very irregularly, asymmetrically of Dissectum Group, avocado green, undulate. Offered by www.coniferkingdom.com, accessed 2.16.2016, their exclusive introduction.

ACER034 - *Acer grandidentatum* MESA GLOW™ 'JFS-NuMex 3' - 28 ft. tall x 18 ft. wide, erect, ovoid. Leaves glossy, dark green in summer, orangish-red to red in fall. Drought tolerant, adaptable to areas where this species is perhaps superior to eastern species. Ch: USDA 4. Or: Rolston St. Hilaire, New Mexico State University. In, ph: <http://www.jfschmidt.com/introductions/mesaglow/index.html>

ACER035 - Acer RUBY SUNSET™ 'JFS-KW249' (A. truncatum x A. platanoides) - 25 ft. tall x 20 ft. wide, broadly ovoid to globose, USDA 4, leaves dark, glossy green, fall color rich orangish-red to dark red. Combines the best of each parent species. In, or: <http://www.jfschmidt.com/>, accessed 12.26.2016, 2016 intro.

ACER036 - Acer buergerianum VALYNOR® 'ABFSS' - 35-40 ft. tall x 20 ft. wide, habit directly more erect, columnar-ovoid, useful in a species which can easily span 50-80 ft. wide with time. Pat: US #19181 to Dwayne Moon

ACER037 - Acer palmatum (Dissectum Group) 'Scarlet Princess' ('Ash's Scarlet Princess' www.waysidegardens.com, accessed 10.3.2016) - as group but dwarfer, very small, uniform, and compact, rich red to dark red shades. Or: Thomas and Nancy Ash. Ash's Japanese Maple Nursery, Hampstead, North Carolina, as witches broom from 'Crimson King'. In, ph: <http://www.japanesemaplefarm.com>, accessed 10.4.2016

ACER038 - Acer palmatum 'LileeAnne's Jewel' ('Little Ann's Jewel') - leaves deeply and coarsely toothed, asymmetrical, slightly twisted blades, rich cherry red with pink and white stripes and markings throughout to about 15-40% of the surface, more green base color by summer, the chimera turns hot pink in fall. Or: Johnathon Savelich, named for his daughter LileeAnne, thus the popular 'Little Ann's Jewel' being incorrect.

In; ph: <https://www.mrmapple.com/Buy-Acer-palmatum-Lileeannes-Jewel-Variiegated-Japanese-Maple.html>, accessed 10.3.2016

ACER039 - Acer platanoides 'Emerald Orb' (Waxman's Dwarf") - 10 ft. tall x wide (20-30 years, estimate), habit very dense, globose, perfectly symmetrical, "rounded framework of tight spaced branched", only 6 inches growth a year at first. Or: Dr. Sidney Waxman, University of Connecticut, and one of his many fine witchesbrooms with high ornamental potential. In, photo: www.brokenarrownursery.com, accessed 10.3.2016, "a fun new selection...we finally decided to name and introduced after numerous favorable comments and more than a decade's worth of trial and evaluation". Ns: the name 'Waxman's Dwarf', very likely the same clone or a similar one has been used by www.davidsansjapanesemaples.com and www.nurseryguide.com, accessed 10.3.2016.

ACER040 - Acer palmatum 'Debbies Golden Splendor' - leaves golden-yellow all spring and summer, not fading as older gold-leaved clones. In: www.whistlinggardens.ca, accessed 10.3.2016, as was as lakenursery.com and www.handynursery.com.

ACER041 - Acer palmatum 'Clarabell' - leaves with yellow to chartreuse new growth, margined orange or tinged reddish-orange near the margins, primary veins yellow to chartreuse, contrasting, well, , similar to the popular 'Kadsura' but a smaller blade, mostly green and uniformly so by summer, fall tints in orange to red shades.

In, photo: <https://www.mrmapple.com/Buy-Acer-palmatum-Clarabell-Japanese-Maple.html>, accessed 10.3.2016

ACER042 - Acer buergerianum 'Golden Pharoah' - leaves bright yellow at first, slowing becoming reticulated with green major veins and some peach tones, maturing to rich green.

In, photo: <https://www.mrmapple.com/Buy-Acer-buergerianum-Golden-Pharoah-Trident-Maple-Tree.html>, accessed 10.3.2016

ACER043 - Acer buergerianum 'Michael Steinhardt' - leaves bright yellow, become rich yellow tringed orange by summer, not green-veined or reticulated as 'Golden Pharoah'. Or, in: Michael Steinhardt from a tree in his garden, introduced by Don Shadow. In, photo": <https://www.mrmapple.com/Buy-Acer-buergerianum-Michael-Steinhardt-Golden-Trident-Maple.html>, accessed 10.3.2016

Web: <http://nypost.com/2016/06/12/hedgie-wants-nurseryman-to-sell-animals-to-pay-off-debt/>, a curious reference to this cultivar from a major media source.

ACER044 - Acer palmatum 'Celebration' - leaves bright metallic purplish- red with dark red veins, brighter than parent 'Purple Ghost, distinct jagged margins of teeth and sharp lobes of variable sizes.. Or: Buchholz Nursery from seedling of 'Purple Ghost' sown in 2007. In, ph: www.buchholznursery.com, accessed 1/1.2016

ACER045 - Acer palmatum 'Strawberry Spring' - leaves very pale green, heavily frosted in white and silver, new growth suffused rich red near the margins in particular, leaf shape with irregular, variable jagged teeth and lones. Or: Buchholz Nursery as seedling of 'Amber Ghost'. photo: florawander.blogspot.com, accessed 10.4.2016

ACER046 - Acer pseudosieboldianum NORTHERN SPOTLIGHT 'KorDak' - 20 ft. tall x 15 ft. wide. Leaves green, silky pubescent at first, emerging late to avoid frost, tolerant of wind and heat, bright red in fall, retained into winter in russet brown shades, these retained leaves functioning to prevent sunscald of the bark. Ch: USDA 3 or about -40 deg. F. Or: Greg Morgenson, Bismarck, North Dakota.

ACER047 - Acer japonicum 'Kings Copse' - 2m tall x wider, mounded to semi-pendulous, cascading. Leaves deeply incised, bright rich green, petiole reddish and contrasting, orangish-red shades in fall. In, ph: <http://www.esveld.nl/html/daen/a/acjkco.php>, accessed 10.7.2016. hsp: the RHS maintain the Nomenclatural

Standard specimen viewable from this location: <http://plants.jstor.org/stable/history/10.5555/al.ap.specimen.wsy0030481>

ACER048 - *Acer palmatum* subsp. *matsumurae* 'Alloys' - 2.5m tall (10 years), classic domed Dissectum Group look. Leaves highly incised, bronze-tinged in new growth, bright green becoming dark by summer, shape as the subspecies but cut similar to f. *dissectum* aka Dissectum Group, fall color in orange shades, petioles often a very dark bronze-red and contrasting well. In, ph: http://www.maillot-erable.com/en/boutique/35_acer-matsumurae/128_alloys, accessed 10.7.2016

ACER049 - *Acer palmatum* f. *dissectum* (Dissectum Group) 'Dark Straw' - classic, semi-dwarf, mounded form of the group, smaller than some of new vigorous material. Leaves very dark and rich red, a very duration, stable, almost blackish-red at times, not a pale red like some other new material, reminding some of a dark red haystack. In, ph: http://www.dauidsansjapanesemaples.com/shop/product/dark_straw, accessed 10.7.2016

ACER050 - *Acer palmatum* subsp. *amoenum* 'Jade Gate' - habit smaller than subspecies as typical, a slower seedling. Leaves typical of this subspecies, being one with mostly 7 very wide, even bulbous, star-like lobes, rich green spring and summer color, orange to red fall shades. Or: Nancy Fiers found as a slower seedling, intended for bonsai use but it became a smaller, landscape tree of real merit.

Or, In, ph: <https://www.essenceofthetree.com/products/show/153-acer-palmatum-jade-gate>, accessed 10.7.2016, their own introduction

ACER051 - *Acer palmatum* f. *dissectum* (Dissectum Group) FIRE CRACKER® (popularly 'Fire Cracker' or JEWELS® 'Firecracker') - Very vigorous for this group and thus superior to older selection but still maintaining compactness. leaves much incised as form and group, rich crimson-purple becoming brownish-orange in fall, petioles usually a much bright, bolder red shade (not purple). Said by some experts to be among the most stable dark reddish-purple cultivar of this type. Or, pat: Holland, Euro PBR. In, ph: http://www.maillot-erable.com/en/boutique/37_acer-palmatum/1189_fire-cracker, accessed 10.7.2016

ACER052 - *Acer buergerianum* 'Himcode' - slower than species typical. Leaves copper-colored at first, last glossy, dark green, fall colors of dark red to scarlet. In, ph:

<http://www.baumschule-wilken.com/pflanzen/laubgehölze/acer/buergerianum/himcode/acer-buergerianum-himcode.html>, accessed 10.11.2016

ACER053 - *Acer griseum* 'Golden Lucky' - leaves heavily mottled golden-yellow, some leaflets all this color, chimera 30-80% of the surface. Or: W.J. Van Ooi, Boskoop, The Netherlands.

In, ph: <http://www.plantmar.pl/oferta,10,1,1,44.html>, accessed 10.11.2016. Best image at:

http://www.plantmar.pl/galeria/pro/min/20132702075919acer_griseum_Golden_Lucky_005.jpg

ACER054 - *Acer palmatum* 'Going Green' - strong, vigorous, robust young plants, twigs green in winter, showy in contrast to other colors such as the gold, reds, oranges in this species. Leaves a basic green but bright, showy, yellowish-orange in fall, serrate, about typical of subsp. *palmatum* shape and margins. Something of a good species alternative with better traits than random green seedlings.

ACER055 - *Acer palmatum* f. *dissectum* (Dissectum Group) 'Peve Droopy' - green as the Group, very compact, slow. Or: Peve Nursery.

In: http://www.hulsdonk.com/index.php?item=acer-palmatum-_peve-droopy_&action=article&aid=19369&lang=NL, accessed 10.11.2016

ACER056 - *Acer platanoides* SENSATION® 'Ulmers Sensation' - about 20% slower than 'Drummondii', hence more manageable in small spaces and gardens. Leaves broadly margined yellow quickly becoming cream-edged, chimera at 30-50% surface, much as 'Drummondii' but reverting less and having a brighter aspect.

ACER057 - *Acer ginnala* ROYAL CROWN® 'JefUM' - 20 ft. tall x 15 ft. wide, globose to subglobose, trained and easily maintained as "three-stem clump". Leaves rich burgundy-red in fall, very showy. Lu: alkaline soil resistant. Ch: USDA 2. Or, in: University of Manitoba, Canada, introduced by <http://www.jeffriesnurseries.com/p7-17.pdf>, accessed 1.7.2017.

ACER057 - *Acer saccharum* LORD SELKIRK 'Jefselk' - 40 ft. tall x 30 ft. wide, upright, pyramidal. Ch: USDA 3. Leaves orange to yellow shades in fall. Or, in: "A northern seed source...good adaption to the conditions in the southern prairies", offered by <http://www.jeffriesnurseries.com/p7-17.pdf>, accessed 1.7.2017, named in honor of the 200th Anniversary of the Selkirk Settlement

ACER058 - *Acer* HIGHLAND PARK® 'Hipzam' (*A. grandidentatum* x *A. saccharum*) - 35 ft. tall x 25 ft. wide, strongly and neatly pyramidal. Leaves dark blackish-green, thicker, more durable, orange to red shades in fall. Lu: valued as both an ornamental and a syrup production, it's sap up to 30% than typical, random seedlings. This tree is thus a true ornamental-edible. Tolerant of dry and urban pollution conditions. Ch: USDA 4. Or, in: Lake County Nursery.

ACER059 - *Acer grandidentatum* 'Manzano' - 20-30 ft. tall, more arborescent than some wild populations. subglobose-spreading to loosely and low pyramidal. It

has been recommended as an under-wire street tree due to its low mature height compared to other maples. Leaves often in rich red to yellow and orange shades in fall. Or: derived from the Manzano Mountain population of New Mexico. Ch: USDA 4. Web: <http://www.thetreefarm.com/maple-bigtooth-manzano>, accessed 1.15.2017

ACER060 - *Acer circinatum* 'Lilypad' - leaves distinct bullate or convex along the separate, very obtuse, shallow lobes. It does have a rounded lily pad aspect.

PENDING - *Acer saccharum* 'Collins Caddo' - 45 ft. tall x 40 ft. wide. Leaves rich red in fall. Ns, id: we are trying to determine if this is distinct from the original 'Caddo' maple or not.

ACER061 - *Acer nipponicum* 'Adisondack' - web: [https://www.forestry.gov.uk/pdf/Unique-tree-list-May-2012.pdf/\\$file/Unique-tree-list-May-2012.pdf](https://www.forestry.gov.uk/pdf/Unique-tree-list-May-2012.pdf/$file/Unique-tree-list-May-2012.pdf), accessed 5.1.2017

ACER062 - *Acer nipponicum* 'Dawy' - web: [https://www.forestry.gov.uk/pdf/Unique-tree-list-May-2012.pdf/\\$file/Unique-tree-list-May-2012.pdf](https://www.forestry.gov.uk/pdf/Unique-tree-list-May-2012.pdf/$file/Unique-tree-list-May-2012.pdf), accessed 5.1.2017

ACER063 - *Acer palmatum* BUTTERSCOTCH™ 'JWW8' - leaves mostly 5-lobed, strongly dentate in some lobes, bright pink at first, up to six weeks, slowly maturing to soft brown and later a dark green, becoming bright red in fall. web: <http://www.newplants.nl/en/planten/a/acer-palmatum-butterscotch-pbr-jww8/>, accessed 4.28.2017

ACER064 - *Acer palmatum* BROWN SUGAR™ 'JWW7' - habit strong, "ramifies well". Leaves chocolate brown at first, midrib and base tinged olive, later a dark green, later in summer new growth is more red. web: <http://www.newplants.nl/en/planten/a/acer-palmatum-brown-sugar-pbr-jww7/>, accessed 4.28.2017

ACER065 - *Acer* [Rochester Group](*A. griseum* x *A. maximowiczianum*) BRONZE TABLET™ 'AROY' - 7-10 ft. tall x 4-7 ft. wide (10 years), bark rich bronze, exfoliating, even young limbs showing good exfoliation. Leaves "clean summer foliage...red hues in fall". Ch: proven hard on Illinois and Wisconsin border. Or: Roy Klehm as 2nd generation selection. Web: http://www.songsparrow.com/catalog/plantdetails.cfm?ID=5029&type=WOODY,&pagetype=plantdetails&plant_name=Acer%20griseum%20x%20nikoense%20Bronze%20Tablet%3Csup%3ETM%3Csup%3E, accessed 5.9.2017

ACER066 - *Acer triflorum* ARTIST ETCHING™ 'CROY' - 7-10 ft. tall x 5-8 ft. wide (10 years), bark "very light buckskin tan", much paler than typical, almost like *Betula nigra*, exfoliation extending well into smaller branchlets. Prop: own roots propagation by Klehm. Or, web: <http://www.songsparrow.com/catalog/plantdetails.cfm?ID=5028&type=WOODY,&pagetype=plantdetails>, accessed 5.9.2017

ACER067 - *Acer pictum* subsp. *mono* CANYON SUNSET™ 'KLMSS' - 8 ft. tall x 5 ft. wide (10 years), leaves in fall "changing blend of sunset canyon shades: burnt oranges and toasty golds". Propagated on own roots by Songsparrow/Klehm. Or: Klehm, intro 2016, sold out for 2017, <http://www.songsparrow.com/catalog/plantdetails.cfm?ID=3953&type=WOODY,&pagetype=plantdetails>, accessed 5.9.2017

ACER068 - *Acer triflorum* ORANGE AGLO™ 'Jack-O-Lantern' - Growth up to 12 in. per year for first 15 years. Leaves 5.2 in. long x 3.75 in. wide, rich pumpkin orange in fall, sometimes with red shades mixed in. Or: North Dakota State University, from nursery seedlings in 1995, original seed source unknown, this one the best of most durable of five trees evaluated over 16 years, intro. 2011.

ACER069 - *Acer buergerianum* 'Michael Steinhardt' - web: <http://www.mrmapple.com>, accessed 12.29/2017

Acer palmatum 'Blackbeard's Gold' - leaves with bright golden-yellow fall color, reliably so.

Acer palmatum 'Cupid' - 6-8 ft. in 15 years, bark coral-colored, a dwarf sport from a broom, denser, smaller than most coral barks. web: <http://www.mrmapple.com>, accessed 12.29/2017

Acer palmatum 'Gold Digger' - bark, twigs light yellow becoming more orange on tips, leaves peach orange become gold with red to coral margins, later more green, fall color yellow becoming "bold red". Or, web: <http://www.mrmapple.com>, accessed 12.29/2017, their own introduction

Acer palmatum 'Green Tea' - 10-12 ft. (10 years), new growth red, becoming a green tea sort of color, later peachy-green, maturing to olive green with pink to red tips, fall shades orange to red. Or: Talon Buchholz, chance seedling of 'Amber Ghost'. web: <http://www.mrmapple.com>, accessed 12.29/2017

Acer palmatum (Dissectum Group) 'Liberty Bell' - typical Dissectum habit and leaf incisions, new leaves orange over chartreuse, maturing to bright green, fall color very showy in a mix of red to yellow. Or: found in Philadelphia, PA, USA. web: <http://www.mrmapple.com>, accessed 12.29/2017

Acer palmatum (Dissectum Group) 'Monticello Gardens' - 3-4 ft. tall x 4-5 ft. wide, habit more cascading than many in the Group, leaves red in spring and summer, holding color long, fall color brighter red than summer. web: <http://www.mrmmaple.com>, accessed 12.29/2017, their own introduction found by an unnamed friend and customer.

Acer palmatum RADIANT™ - leaves smaller in size, heavily mottled white (up to 80%), new tips a bright magenta to coral pink, maturing to medium green mottled white to cream. web: <http://www.mrmmaple.com>, accessed 12.29/2017

Acer palmatum 'Schmidts Woods' - leaves strap-leaf type, bright red at first, aging to emerald green with red tints, gives a nice bicolor effect when in active growth, superior colors to 'Beni Otake' per Mr. Maple growers. web: <http://www.mrmmaple.com>, accessed 12.29/2017

Acer palmatum 'Seuss's Sister' - web: <http://www.mrmmaple.com>, accessed 12.29/2017

Acer palmatum 'Shine Bright' - 10-12 ft. (10 years), leaves chartreuse-green, new growth tinged orangish-red, some blushes appear in summer on mature foliage too, interesting shining colors throughout year, fall colors orange to red. web: <http://www.mrmmaple.com>, accessed 12.29/2017

Acer palmatum 'Yeager Red' - 15 ft. tall x 12 ft. wide, compact, full from a witches broom. Leaves rich bright red, the bloom carrying a good color even though heavily shaded, propagating stock retaining this "superior red color in all kinds of conditions" (Iseli). Or: Mike Yeager as broom on 'Bloodgood'. So, in: <http://www.iselinursery.com/downloads/>, accessed 10.31.2017, new introduction.

Acer palmatum 'Yellow Bird' - leaves with numerous small, sharp, pin-like serrations, yellow to chartreuse in summer, maturing to dark green, fall colors yellow with reddish margins. web: <http://www.mrmmaple.com>, accessed 12.29/2017

Acer pseudoplatanus 'Mercedez' - so: <http://www.pavia.be/catalogue/>, accessed 12.30/2017, listed name only, spelling apparently to avoid a trademark violation with the auto company

Acer pseudosieboldianum (Jack Frost Series) ICE DRAGON™ 'IsIID' - 7-8 ft. tall x wide, cascading to semi-pendulous, undulating branches obvious in winter. Leaves finely incised, similar to orangish-red becoming green, fall tones in red, orange, and yellow. Ch: hardy and durable in USDA 4.Or, so: Iseli Nurseries, Oregon, USA, their own selection, <http://www.iselinursery.com/downloads/>, accessed 10.31.2017, new 2017 introduction.

Acer saccharinum 'Bordeaux' - leaves dark red. so: <http://www.pavia.be/catalogue/>, accessed 12.30/2017, listed name only

Acer palmatum METAMORPHOSA 'Arjos1' - http://www.burncoose.co.uk/site/plants.cfm?pl_id=6384

Acer platanoides 'Gurba' - <http://szmit.pl/en/about-the-nursery/our-varieties/206-acer-platanoides-gurba>, accessed 10.4.2018

Acer pseudoplatanus 'Hermitage' - <http://www.newplants.nl/en/planten/a/acer-pseudoplatanus-hermitage/>, accessed 10.4.2018

AESC001 - Aesculus pavia 'Fishtail' (Mark Weathington, Raulston Arboretum)

AESC002 - Aesculus turbinata 'Marble Chip' (Broken Arrow Nursery) - variegated

AESC003 - Aesculus hippocastanum 'Lunar Patches' (Variegated Foliage)

AESC004 - Aesculus glabra EARLY GLOW™ 'J.N. Select' - reliable, earlier bright red fall color, glossy dark green summer foliage, typical yellow flowers. Very limited fruit production.

AESC005 - Aesculus glabra LAVA BURST® 'LavaDak' - 25-28 ft. tall x 14-18 ft. wide, upright ovoid, compact, more narrow clone, internodes shorter, bright summer leaf color, higher leaf scorch resistance, good orange to red fall colors, flowers greenish to cream to light yellow, apparently typical. panicles 4-5 in. long. Ch: USDA 3b. Or: University of North Dakota. Web, or: https://www.ag.ndsu.edu/plantsciences/research/introductions/lavaburst-buckeye/files/lavaburst_ohio_buckeye-r.pdf, accessed 5.1.2017

AESC006- Aesculus hippocastanum 'Franek' - <http://szmit.pl/en/about-the-nursery/our-varieties/207-aesculus-hippocastanum-franek>, accessed 10.4.2018

AESC007 - *Aesculus flava* 'Burning Gold'- so: <http://www.pavia.be/catalogue/>, accessed 12.30/2017, listed name only

AKEB001 - *Akebia quintana* 'Kokin Nishiki' - Flowers medium pink, stamens violet-purple, leaves heavily mottled and sectored light yellow to cream, chimera mostly 40-85% surface. So, web: <http://ryochiku-plants.jp/pb/647/>, accessed 4.28.2017

ALBI001 *Albizia j.* MERLOT MAJIK™ (Heritage Seedlings, new cultivar)

ALBI002 *Albizia j.* CHOCOLATE FOUNTAIN™ 'NCAJ1' (Dr. Tom Ranney, NC State University)

ALBI003 - *Albizia julibrissin* 'Ishii Weeping' ('Ishii Pendula' invalid post-1959 Latin name). The name was changed from 'Ishii Pendula' as it appeared in the US trade and published as such in Hatch's Cultivars of Woody Plants in 2008.

ALBI004 - *Albizia julibrissin* 'Clemensis' - more cold hardy, tolerant in Vienna, Austria where typical species dies, possibly to -20 C.. Or: Mr. Bruckmoser

ALBI005 - *Albizia julibrissin* 'Evys Purple' - leaves green becoming rich reddish-purple similar to 'Summer Chocolate' but perhaps slightly red in summer. Flowers rich glowing pink, close to magenta up and down the pistils, not pale pink to near white as in 'Summer Chocolate' which is only a rich pink in the upper 20-30% of the pistils.

AMEL001 - *Amelanchier arborea* PINK DAMSEL™ 'Tift County' - 16 ft. tall x 20 ft. wide, grown as single or multi-trunk, flower buds pink opening to near white, leaves light to medium green, "finer textured" than typical of species, red to orange fall colors. Or: Tift Country, Georgia US where is handles very hot conditions.

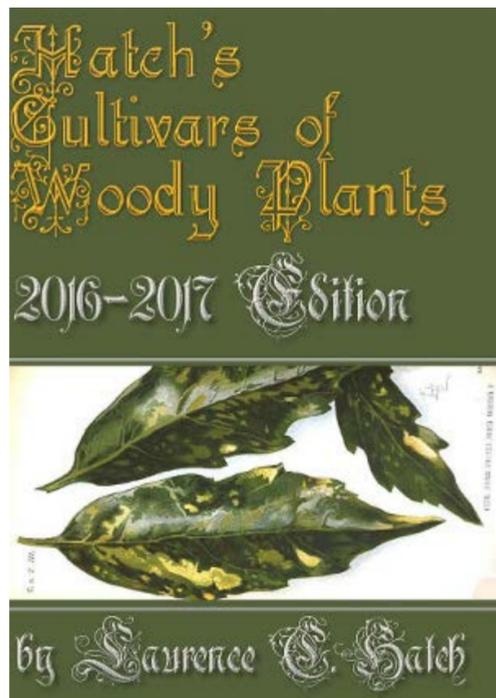
AMEL002 - *Amelanchier canadensis* OCTOBER FLAME® - 6 ft. tall x 3 ft. wide, columnar to narrowly ovoid, vigorous, flowers white, numerous, fall color a rich blend of medium, dark, and light red tones, very showy. Or: Edward Losely, Perry, Ohio. In: <https://www.pepinieres-minier.fr/produit/amelanchier-canadensis-october-flame-r>, accessed 12/27/2017

ARBU001- *Arbutus* 'MBAV13' - variegated sport of 'Marina'

ARON001 – *Aronia arbutifolia* 'Hannah Coulter' – habit more compact. Fruit very abundant compared to species typical. Leaves bright orangish-red in fall. Proven more heat and humidity tolerant. Found by Norman Bertels in Jackson County, North Carolina, named for his granddaughter. Camforest.com, accessed 4.23.2015

ARON002 - *Aronia melanocarpa* LOW SCAPE™ MOUND 'UCONNAM165' - 1-2 ft. tall x 2-3 ft. wide, dwarf, very low for this species, suitable for mass planting, edging, groundcover, and soil stabilization. Or: Dr. Mark Brand, University of Connecticut. In: www.springmeadownursery.com, accessed 2.28.2016

ARON003 - *Aronia melanocarpa* LOW SCAPE™ HEDGER 'UCONNAM166' - 3-5 ft. tall x wide, compact, erect to columnar, lower maintenance than 'Viking', leaves dark green, becoming yellow, orange, and red in fall. Or: Dr. Mark Brand, University of Connecticut. In: www.springmeadownursery.com, accessed 2.28.2016



Aucuba - our standard for 173 existing cultivars in Hatch's Cultivars of Woody Plants. Please visit www.cultivar.org for subscription information.

AUCU001 - Aucuba japonica 'Subaru' (Hawksridge Farms)

AUCU002 – Aucuba japonica 'Overlook' – leaves larger, very glossy, margined cream. Cistus.com, accessed 4.22.2015, their own selection as sport near Overlook, Oregon

AUCU003 – Aucuba japonica 'Merced'- 4 ft. tall x 3 ft. wide. Leaves mostly gold, slight green speckling. Cistus.com, accessed 4.22.2015, their own selection

AUCU004 – Aucuba japonica 'Lisa White' – Plant compact. Leaves 4-5 in. long, narrow, speckled yellow. Fruit "very pale", female clone. Cistus.com, accessed 4.22.2015, named for Lisa White via Ozzie Johnson

AUCU005 – Aucuba japonica 'Clear Picture' – 4 ft. tall x 3 ft. wide, dense, subglobose to erect. Leaves centrally marked gold to 80-95% surface, margins dark green with some gold speckling. Cistus.com, accessed 4.22.2015.

AUCU006 – Aucuba japonica 'Alabai' – leaves dark green, spotted creamy-yellow in a swirled pattern. Cistus.com, accessed 4.22.2015, their own selection

AUCU007 - Aucuba japonica var. borealis 'Bored Female' - 4 ft. tall x wide. Leaves very glossy, blackish-green. USDA 6b-7, more hardy as the variety. Female clone. Plantdelights.com, accessed 4.22.2015, their own selection

AUCU008 - Aucuba japonica 'Golden Girl' - 1m tall x wide, very compact, shorter internodes. leaves heavily mottled and spotted yellow, chimera 25-60% surface, variable, some young plants in spring are said to be mostly gold, 80-90% surface, still very sharp in the blade, apex very long acute to acuminate. Fruit red, a female clone. Peter Moore cross of 'Nana Rotundifolia' x 'Crotonifolia' in 1993, offered exclusively in the UK by New Place Nurseries, npnurseries.co.uk, Bredbypetermoore.co.uk, accessed 5.29.2015

AUCU009 - Aucuba japonica 'Petite Jade' - click link for USDA/USNA introduction PDF, offered by Monrovia.com

AUCU010 - Aucuba japonica 'Ova Easy' - 6 ft. tall. Leaves all gold, 4-6 in. long, "spring green and velveteen gold when exposed to more light". Or, in: www.cistus.com, Spring 2016 online catalog, accessed 3.29.2016, sport of 'Overlook' in all gold.

AZAR001 - Azara microphylla 'Sara C.' - https://grootgroenplus.nl/uploads/2018/noviteiten/AZARA_MICROPHYLLA_SARA_C.pdf, accessed 10.8.2018

BACC001 - Baccharis halimifolia 'Baccador' (Minier Nurseries) - a unique gold-leaved clone

BERB001 - Berberis thunbergii SUNJOY® TANGELO 'O'byrne' - 36-48 in. tall, upright, "outwardly arching and mounding" (patent app), vigorous, freely branching. Leaves reddish-orange, thinly margined or ringed pale yellow to chartreuse, overall appearing a "zingy orange" from a distance in the landscape, yet stronger than other variegated cultivars. Rust resistant. Or, Pat: US# 26546 on March 29, 2016 to Ernest O'Bryne, Eugene, Oregon, USA as 'Aurea' x 'Rose Glow' in 2003.

BERB002 - Berberis thunbergii 'Lutin Rouge' (Plantarium.nl)

BERB003 - Berberis thunbergii SUNJOY® CITRUS 'Koren' - 2-3 ft. tall x 2-4 ft. wide, compact, subglobose, improved form over older 'Aurea'. Leaves bright yellow, subscorch resistant. US patent #24818. Springmeadownursery.com, accessed 4.30.2015

BERB004 - Berberis thunbergii SUNJOY® MINI SAFFRON 'Kasia' - 1.5-2.0 ft. tall x 2-4 ft. wide, dwarf, dense, mounded, smaller than CITRON. Leaves bright yellow, new growth tinged orange, subscorch resistant, fall color adds orange to red shades. US patent #24817. Springmeadownursery.com, accessed 4.30.2015

BERB005 - Berberis TINY N' SPINY® 'Bokratina' - 40cm tall, low, compact, evergreen, designed as tough, weed-covering, woody ground cover Leaves bright green, slightly tinged bronze in new growth, generally green all year. Flowers light yellow. Rust resistant.

In: <http://www.boot.nl/en/text/89/Trees>, accessed 8.6.2016

BERB006 - Berberis thunbergii LAMBRUSCO™ 'BailElla' - 2-3 ft. tall x 3-5 ft. wide, compact, spreading-mounded, dense. Leaves light red becoming dark burgundy tones.

Or, in: www.baileynurseries.com, accessed 6.24.2016, <http://www.firsteditionsplants.com/lambrusco-barberry>

BERB007 - Berberis thunbergii MOSCATO™ 'BailAnna' - 2-3 ft. tall x 3-5 ft. wide, compact, spreading-mounded, dense. Leaves bright green, thin peach orange margin, mostly medium green by summer

Or, in: www.baileynurseries.com, accessed 6.24.2016, <http://www.firsteditionsplants.com/moscato-barberry>

BERB008 - Berberis thunbergii 'Fireball' - 1-2 ft. tall x 1-2 ft. wide (5 years), later larger, dense, compact, subglobose to mounded. Leaves bright "fiery red", more of a pinkish-red to rose-red than a dark maroon-red of older clones. Rust resistant to date. Or: Czech Republic, US Patent #21000 Web:

<http://planthaven.com/plant/berberis-fireball/>, accessed 4.6.2016

BERB009 - Berberis 'Thunderbolt' - 2.0-2.5m tall x wide. Leaves very dark purplish-burgundy, hold color into summer, over evergreen in mild climates. Or: INRA

BERB010 - Berberis x media DUAL JEWEL® - web: <https://www.hogendoornholland.com/nl/plant/berberis-media-dual-jewel>, accessed 3.12.2017

BERB011 - Berberis triacanthophora 'Cally Rose' - 1.8m tall, evergreen. Flower numerous pink outside in custers, inner petals cream. Leaves rich green, narrow. web: <http://www.panglobalplants.com>, accessed 3.12.2017. Ns: it is not from B. panlanensis are previously thought.

BERB012 - Berberis thunbergii MIDNIGHT RUBY™ 'Midruzam' - dense, dwarf, slow, requires no regular trimming, leaves larger than most dwarf clones, orangish-red at first, quickly maturing to rich dark burgundy-red, dark red in fall, companion for contrast to gold-leaved '24K Gold', flowers and fruit absent. Pat, or: Lake County Nursery, US# 25609. Web: <http://www.starrosesandplants.com/plants/shrubs/berberis-midnight-ruby>, accessed 5.1.2017, <http://www.lakecountynursery.com/PDF/MidnightRuby.pdf>

BERB013 - Berberis thunbergii GOLDEN JACKPOT® 'SMBTJ' - 2 ft. tall x wide, compact, dense, needs no pruning under most conditions, leaves bright gold as spring and summer, twigs and new tips slightly tinted orange to coral. Web: <http://www.monrovia.com/our-2018-new-plants-collection/>, accessed 12.27.2017

BERB014 - Berberis thunbergii LAVA NUGGET™ 'SMBTM' - 3 ft. tall x wide, compact, leaves large (not small as dwarf clones), orangish-red in new tips, aging to dark burgundy in a uniform shade over the entire blade. Rust resistant. Web: <http://www.monrovia.com/our-2018-new-plants-collection/>, accessed 12.27.2017

BERB015 - Berberis thunbergii SUNJOY TODO™ 'NCBX1' - 1.5-2.0 ft. tall x wide, compact, dense, seedless (high sterility genetics), leaves glossy, rich dark purplish-red, tips more red, bears orange fruit but seeds are hollow and not viable. Or: Dr. Tom Ranney, NC State University, as hybrid. In: http://springmeadownursery.com/plants_details.php?id=3610

Berberis thunbergii SUNJOY MINI MAROON™ 'NCBT1' - http://springmeadownursery.com/plants_details.php?id=03600

Berberis thunbergii SUNJOY SEQUINS™ 'SMNBTS' - <https://springmeadownursery.com/plantfinder/sunjoy-sequins-03000>, accessed 10.8.2018

BETU001 - Betula albosinensis BLASON (Minier Nurseries) - a curious orangish-red bark over most of the trunk, frosted too.

BETU002 - *Betula costata* CINNAMON CURLS™ (North Dakota State University). Li: <http://hortsci.ashspublications.org/content/51/7/950.full>, paid content

BETU003 - *Betula utilis* 'Jim Russell' (Arboretum Wespelaar, their own selection)

BETU004 - *Betula* PARKLAND PILLAR™ 'Jefpark' - 40 ft tall x 6-7 ft. wide, vigorous, columnar, more narrow, erect, and dense than DAKOTA PINNACLE®. Leaves dark green, fall color not notably showy. Found at Parkland Nursery, Alberta, introduced by Jeffries Nurseries c. 2014.

BETU005 - *Betula utilis* var. *jacquemontii* 'Tickle Creek' - 6 ft. x 4 ft. wide, slower, dwarf. Bark copper colored. Leaves "coarse, lacy, deeply cut". Or, in: Iseli Nursery, www.iselinursery.com, accessed 5.22.2016, their own new introduction 2015 as witches broom on a large mature tree at their Tickle Creek Farm.

BETU006 - *Betula* x *plettkei* 'Golden Treasure' - 2-4 ft. tall x wide, much as species, dwarf, yellow bright yellow becoming greenish-yellow, designed to be a "lollipop" patio tree. Bark silvery-white when grafted on standard of Himalyan birch. Useful as bright, dwarf shrub or patio container. Or: Michal Andrusiv, Czech Republic. In: www.springmeadownursery.com, accessed 2.28.2016

BETU007 - *Betula pendula* MAGICAL® GLOBE - 4-5 ft. tall x 3-4 ft. wide, dwarf, distinctly globose, compact, typically grafted on a standard of Himalyan birch, giving the trunk are pale, whitish to silvery look.. Or: Kolster.Web: <http://plantsnouveau.com/plant/betula-magical-globe/>, accessed 10.7.2016

BETU008 - *Betula pendula* 'Spider Alley' - branches somewhat twisted, curled, not pendulous but generally horizontal to irregular, overall a lightly contorted but not extremely twisted clone, quite a moderate and elegant plant, different, interesting, but not a freak. Leaves light green, yellow in fall, much as species. Pat: EURO PBR 21231 to Boomkwekerij John de Lepper on May 5, 2014.

In, ph: <http://www.newplants.nl/en/planten/b/betula-pendula-spider-alley/>, accessed 10.11.2016.

BETU009 - *Betula pendula* FASTIGIATA JOES® 'Jolep 1' - fastigiate to narrowly columnar, showy white bark after 4-5 years. Ns: while the Latin word "fastigiata" is Latin and banned in cultivar names, there are no prohibitions in Latin for trademarked names. Therefore this half Latin name is in good standing. In, ph: <http://www.frankpmatthews.com/catalogue/betula/12285>, accessed 10.15.2016. Pat: Euro PBR 20141206

BETU010 - *Betula pendula* 'Bøghs' - 12-16m tall x 4-6 ft. wide, habit neat, regular (clonal), branch angle about 30 degrees, moderately pendulous, narrower than some forms but not columnar, described as "slim" so it fits spaces the wider seedlings might not be suited for, neat over time, bark reliably white, later more greyish, showy. Leaves medium green, yellow to tan in fall. Lu: this is a proven "species replacement" or reliable clone for the European market much as HERITAGE is a chosen *Betula nigra*. Or: Bøghs Nursery, 1880 by one report, not widely grown as a named clone until recent years, and not known in North American to my knowledge (2017).

BETU011 - *Betula pendula* 'Arvi' or possibly an interspecific - 20-25m tall, broadly pyramidal, erect, not pendulous as seedlings or 'Boghs', bark white, showy, good horizontal lenticels. Leaves 6-7cm long x 3-5cm wide., yellow in fall. Or: Hojbjerg v. Aarhus.

BETU012 - *Betula tianshanica* EMERALD FLARE™ 'EmerDak' - 30 ft. tall x 12 ft. wide, narrowly pyramidal, bark white, gray, and undertoned orange, exfoliating and very showy. Leaves rich, emerald green, bright medium shade at first, later darker green,, darker foliage than other trees in their evaluations, bright golden-yellow in fall.Tolerant of drought and higher pH soils.Ch: USDA 3a.Or: North Dakota State University, highly elite seedling of unknwon orgin, proven after 17 years, https://www.ag.ndsu.edu/plantsciences/research/introductions/emerald-flare/files/emerald_flare_data_sheet.pdf, accessed 5.1.2017. It also appeared under the name EMERALDS BEACON™ 'EmerDak' in https://www.ag.ndsu.edu/plantsciences/research/woody-plants/docs/NDSU_WPIP_Intro_Descriptions.pdf, accessed 5.11.2017

BETU012 - *Betula pendula* 'Zold Skazall' - dwarf and weeping, densely branched, suitable for smaller gardens while full-sized clones might be too large. Or: Hungary.

Betula 'Princesse Sturdza'- so: <http://www.pavia.be/catalogue/>, accessed 12.30/2017, listed name only

Betula pubescens 'Rode Herfstkleur' - so: <http://www.pavia.be/catalogue/>, accessed 12.30/2017, listed name only

Betula utilis subsp. *albosinensis* 'Cobhay Gansu Red' - bark with distinct red tints, showy. So, or, in: <http://www.junker.co.uk>, accessed 12.30.2017, their own selection from seed collected in Gansu, China

Betulia utilis subsp. *utilis* 'Cobhay Amber' - vigorous, new bark in amber tones, later more white, leaves a better yellow than all clones in the Junker collection. Or, so: <http://www.junker.co.uk>, accessed 12.30.2017, their own selection from seed

Betulia utilis subsp. *utilis* 'Cobhay Sentinel' - vigorous, more upright, narrow. Or, so: <http://www.junker.co.uk>, accessed 12.30.2017, their own selection from seed

Broussonetia papyrifera 'Jungeng' - leaves golden-yellow at first, later yellowish-green, bright gold again in fall. USPP applied for October 26, 2017, described as unique. It seems obvious that the patent examiners have no clue that 'Golden Shadow' sounds identical and is established in the trade.

Broussonetia papyrifera 'Jlnhudie' - leaves irregularly centered greenish-yellow like a small tree shape, very wide margins of orangish-gold, covering up to 85% of the blade. USPP applied for October 26, 2017 by Huaming, Wang, Suiping, China

BUDD001 - INSPIRED™ WHITE

BUDD002 - Buddleia 'Painted Lady'

BUDD003 - Buddleia 'Asian Moon' (Monrovia)

BUDD004 - Buddleia davidii GROOVY GRAPE (Bailey Nurseries)

REGISTRATION PENDING - Buddleia 'Crown Jewels', 'Glass Slippers', 'Dark Dynasty', 'Jousting Jester', etc. (Walters Gardens)

BUDD005 - Buddleia 'Pink Micro Chip' (Proven Winners, Dr. Dennis Werner, North Carolina State University)

BUDD006 - Buddleia 'Pink Pagoda' - habit upright-spreading to mounded. Flowers pink, in narrowly conical panicles, "continuously flowering". Seedless. US Patent #23214 to Peter Moore, England as cross of *B. weyeriana* 'Sungold' x *B. davidii* 'Pink Delight'.

BUDD007 - Buddleia 'Miss Violet' - 4-5 ft. tall x wide, compact. Flowers dark purplish-violet. Bred by Dr. Dennis Werner, North Carolina State University. Springmeadownursery.com, accessed 4.30.2015.

BUDD008 - Buddleia davidii MERRY MAGIC® ORCHID 'SMBDPB' - 4-5 ft. tall x wide, more compact. Flower panicles very narrow but densely flowered, rich purple to violet, highly floriferous. Springmeadownursery.com, accessed 4.30.2015.

BUDD009 - Buddleia davidii GULLIVER - 1.75m tall. Flower spikes to 30cm long, wide, thick, fully flowered, corolla lilac with small orange eye. Cold hardy to -18 deg. C. Eur. PBR to East Malling Research, UK.

BUDD010 - Buddleia HUMDINGER™ 'Magenta Munchkin' - 28-36 in. tall, dwarf, compact, neat. Flower panicles 7-8 in. long, "fuchsia-red" (photos appear deep violet-fuchsia to violet-lavender), small orange eye, blooms before a few weeks before MONARCH Series cultivars. Walters Gardens, intro. 2015.

BUDD011 - Buddleia davidii 'Sophie' - 30-60 cm tall x 50-80cm wide, smaller in containers, larger in open ground, very compact, unusual habit being a sphere of cascading long, flowering shoots. Flowers in long panicles, lightly scented, light purple to rich lavender. Leaves light green. In, ph: <http://www.newplants.nl/en/planten/b/buddleja-davidii-sophie/>, accessed 10.11.2017

BUDD012 - Buddleia HUMDINGER™ 'Orchid Annie' - 2.5-3.0 ft. tall x 3.5-4.0 ft. wide, compact, subglobose, neat, refined. Flower corolla orchid-purple, buds a darker purple, inflo. to 8 in. long. <http://www.waltersgardens.com/plants/view/?plant=2580>, accessed 10.11.2016. Walters Gardens 2015 intro.

BUDD013 - Buddleia HUMDINGER™ 'Little Nugget' - 2.5-3.0 ft. tall x 3.5-4.0 ft. wide. Flower corolla dark bluish-purple to violet-purple, panicle 5-6 in. long, very early in season compared to other clones, up to 4 weeks before others of this color. Leaves bright yellow, becoming more lime to chartreuse.

BUDD014 - Buddleia HUMDINGER™ 'Lavender Cupcake' - 3.5-4.0 ft. tall x 4.0-4.5 ft wide, compact. Flowers light-medium lavender to light purple, very long 12 in. panicles. Leaves grayish-green. Or: Walters Gardens, intro. 2015

BUDD015 - Buddleia HUMDINGER™ 'Little Angel'

BUDD016 - Buddleia 'Dreaming Lavender' - 8-20 in. tall x wider, low, dwarf, spreading to semi-pendulous. Flowers pale silvery-lavender to medium lavender. Sold under the BLOOMTASTIC!® trademark but since that spans more than one genus (*Buddleia*, *Agapanthus*, *Skimmia*), it is considered a marketing entity and not a taxonomic name, hence not registered here.

BUDD032 - Buddleia SODA POP LAVENDER 'UCONNBD599'

BUDD033 - Buddleia SODA POP BLUE 'UCONNBD604'

BUDD034 - Buddleia davidii ROCKETSTAR INDIGO 'SMNBDBT' - <https://www.plantarium.nl/noveltie/buddleja-davidii-smnbdbt-rocketstar-indigo>

Buddleia alternifolia UNIQUE 'PMOORE12' - 1m tall x 70cm wide, compact, smaller than the species typical, flowers lilac, very fragrant. Or: Peter Morre, Stockbridge, Hampshire, England, selection. Web: <http://koju.de/en/assortmentshop/deciduous-trees-and-shrubs/1391/buddleja-alternifolia-unique-pmoore12?c=119>, accessed 12.29.2017

Buddleia davidii REVE DE PAPILLION® RED 'Bozcraz' - 2m tall x wide, flower corolla a rich violet-red, said to be bred from 'Miss Ruby' and of similar colors, reblooming in summer. Or: Scott Trees, USA. In: <https://www.pepinieres-minier.fr/produit/buddleja-davidii-reve-de-papillon-r-red-boscraz-cov>, accessed 12.27.2017.

Buddleia SUMMER SIPS™ SANGRA 'SRPbudsan' - 3-4 ft. tall x wide, dwarf, compact, said to be the first dwarf and sterile red-flowered cultivar in the genus. Flowers in dense panicles, violet-red to sangria wine red. Leaves dark green. So, in: Star Roses and Plants, online catalog 2018, https://issuu.com/starrosesandplants/docs/2018_catalog, accessed 10.31.2017

BUXU001 - Buxus microphylla var. japonica SPRINTER™

BUXU002 - Buxus microphylla 'Eseles' (image, Government of Canada, PBR)

BUXU003 - Buxus sempervirens 'Skywalker' (Concept Plants) - US# 22977 From Mark Ellerbrook of Beaverton, Oregon, is the vigorous clone (growth up to 30 in. a year for up to 6 seasons) that is "very columnar...with a low amount of lateral branching", keeping green color much of the year, and resistant to common boxwood root diseases. Dimensions at six years are 1.8 meters x 30-38 cm.

BUXU004 – Buxus sempervirens 'Jack Rudolph' – 6 ft. X 4 ft. wide In many years, arborescent, conical, slightly cascading branches. Rita's Rare Plants, Tennessee from her father's boxwood breeding program of 1940's-1950's. Camforest.com, accessed 4.23.2015

BUXU005 – Buxus sempervirens 'Ruth Rudolph' – 5 ft. tall x wide in many years, weeping. Rita's Rare Plants, Tennessee, from her father's boxwood breeding program. Camforest.com, accessed 4.23.2015

BUXU006 - Buxus sempervirens 'Golden Swirl' - www.cistus.com, accessed 3.29.2016

BUXU007 - Buxus microphylla var. koreana EMERALD KNOLL® 'RLH-B1' - 1.5-2.0 ft. tall x 3-4 ft. wide, low, mounding-spreading, patent says "outwardly spreading to decumbent, billowy and mounding", vigorous, freely branching, flexible lateral limbs resist cracking and splits, very fine-textured, compact, far less tufted and congested compared to 'Morris Dwarf' and less rigid than it. Leaves rich emerald green all year, not bronzing in winter or cold weather. US Patent #24443 on May 13, 2014 to Robert and Lisa Head, Seneca, South Carolina USA as sport of 'Kingsville' in 1991.

BUXU008 - Buxus microphylla 'Little Missy' - 16 in. tall x 30-40 in. wide, densely mounded to flat-subglobose, 2-3 in. growth a year. Leaves dark green, glossy, all year, not bronzing, blade smaller than species typical clones (1.6cm long x 1.0cm wide).. USDA 5 hardiness. US Plant Patent #24703 on July 29, 2014 to Norman H. Cole III as chance seedling, assigned to Cp Delaware Inc.

BUX009 - Buxus sempervirens 'Thomas Jefferson' - 5 ft. tall x 2 ft. wide, or 6 ft. tall x 3 ft. wide (12 years), 12 ft. tall x 6 ft. wide (30 years), narrowly upright-ovoid to ellipsoidal to narrowly pyramidal, not always columnar, 45 deg. branch angle (wider than 'Dee Runk'), 3-6 in. growth a year, resistant, strong limbs resist snow and ice damage. Leaves glossy, dark green all year, not bronzing. US Plant Patent #23869 on Sept. 3, 2013 to Thomas M. Patrick, Jr., chance seedling 1964, assigned to Saunders Bros. Inc., named for the US President as it was discovered in Charlottesville, Virginia, his home. An attempt to trademark this name or 'Mr. Jefferson' failed and is now marked as "CANCELLED - SECTION 8", which generally implies the name was not in use after 6 years or verified to be so.

BUX010 - Buxus sempervirens 'Wonford Page' - new growth heavily suffused yellow (40-90%), becoming sectored and striped cream to light yellow at 30-50% surface. So: <http://www.bloomriver.com>, accessed 5.16.2016

BUXU011 - Buxus microphylla var. japonica BABY JADE™ 'Grejade' - 3 ft. tall x wide, subglobose to mounded, dense with maturity, shorter internodes than variety typical, averaging just 6mm, moderate growth rate.. Leaves small, 1.8cm long x 0.8 wide, elliptic, base cuneate, apex obtuse, dark green all year, not

bronzing. USDA 5. Or, pat: US #26656 on April 26, 2016 to Jane Marie Kubala, El Campo, Texas, USA and Bill Bar, Rosenberg, Texas, USA as sport of 'Gregem' in 2010. Web: <http://www.gardendebut.com/plantName/Baby-Jade-Boxwood>

BUXU012 - Buxus microphylla PETITE PILLAR™ 'MonAlex' - 2-3 ft. tall x 2 ft. wide, dwarf to semi-dwarf, columnar, very dense, requiring little or no shearing as hedge or narrow column. Leaves glossy, medium green. USDA 5. Web: <http://www.monrovia.com/plant-catalog/plants/5162/petite-pillar-dwarf-boxwood>, accessed 4.6.2016

BUXU013 - Buxus sempervirens JADE PILLAR™ 'Furore' - 4-5 ft. tall x 2-3 ft. wide, columnar, useful for hedge purposes. Leaves dark green. US# 21319

BUXU014 - Buxus SHADOW SENTRY™ 'DSNJH 1216' - 8 ft. tall x 3 ft. wide, narrowly pyramidal, erect. Leaves medium green, holding color in winter. Ch: to -20 deg. F.

In, ph: https://www.greenleafnursery.com/index.cfm?fuseaction=plants.plantDetail&plant_id=6951&typeID=&whichname=genus, accessed 10.11.2016

BUXU015- Buxus microphylla GREEN BORDERS™ 'Grebor' - 2-3 ft. tall x 3-4 ft. wide, fine-textured, horizontal. Leaves dark green. Or: Greenleaf Nursery. Web, ph: <http://www.gardendebut.com/plant/Green-Borders-Boxwood>, accessed 10.11.2016

BUXU016- Buxus GORDO™ 'Conrowe' - 4 ft. tall x wide, compact, globose, requires minimal pruning, leaves large for a dwarf clone, glossy green, "scalloped", cold hardy to -10 to -20 deg. F. Pat: US#19924

Buxus 'Prostrate 3' - US Plant Patent #29575, granted 7 August 2018.

CALL001 - Callicarpa japonica WHITE SPRITZER™ is one of the best variegated clones in the genus and the violet-pink new tips make it quite the glorious, tricolored creation. It has great vigor unlike a speckled sport of this same species I found in the 80's which never proved market worthy. This is truly one of the finest variegated, deciduous shrubs of any genus and makes a nicely fine-textured, compact pyramidal piece; never wild nor too crazy if given enough light. Click image to enlarge.

CALL002 - Callicarpa kochiana 'Yamaguchi Variegated' - leaves large, 4-8 inches long, 1.5-2.0 inches wide, elliptic, boldly sectorally and marked in clean white to cream, 25-45% surface in strong plants, other sectors, spots, and markings in lime or a paler green than the dark green base color, margins very finely serrulate with 20-32 teeth per side. Known to us from a specimen at the JC Raulston Arboretum, also offered by nurcar.com, accessed April 2013.

CALL003- Callicarpa PEARL GLAM™ 'NCCX2' (C. dichotoma x C. kwangtungensis) - habit erect, neat (from second parent), leaves richly tinged purple (also from C.k.), fruit rich violet-pink, abundant, early (mostly from first parent). Or: Dr. Tom Ranney, NC State University in cooperation with Spring Meadow Nursery. In: www.springmeadownursery.com

CALL004 - Callicarpa PLUMP AND PLENTIFUL™ PURPLE GIANT 'O5-132' - fruit purple, abundant, covering branches almost completely. Offered by www.heritageseedlings.com, online Wholesale Catalog 2015-2016 (PDF), accessed 2.16.2016

CALL005 - Callicarpa PLUMP AND PLENTIFUL™ LILAC - 5-6 ft. tall x 4 ft. wide. Fruit purplish-lilac, covering each branch, very abundant. Or: Kolster Web: <http://plantsnouveau.com/plant/callicarpa-plump-plentiful-lilac/>, accessed 10.7.2016

CALL006 - Callicarpa PLUMP AND PLENTIFUL™ AMETHYST - 5-6 ft. tall x 4 ft. wide. Fruit violet-purple, very abundant, persisting into winter. Or: Kolster Web: <http://www.plantsnouveau.com/plant/callicarpa-plump-plentiful-amethyst/>, accessed 10.7.2016

CALL007 - Callicarpa bodinieri IMPERIAL PEARL® 'Minpro2' - 1.5-2.5m tall x 1-2m wide. Fruit abundant, mauve-violet, very showy. Or: Minier Nurseries, France, intro. 2014

Callicarpa 'Cardinal' - 1.5m tall (10 years), fruit small, purple, abundant, fall leaf color in bright red to purple shades. So: <http://www.junker.co.uk>, accessed 12.30.2017

Callicarpa bodinieri MAGICAL AMETHEA 'Kolmagicame' - <https://www.kolster.nl/brochure/54/index.html>

Callicarpa bodinieri MAGICAL PURPLE GIANT 'Kolmapurgi' - <https://www.kolster.nl/brochure/54/index.html>

Callicarpa bodinieri MAGICAL SNOWSTAR 'Kolmsnostar' - <https://www.kolster.nl/brochure/54/index.html>

CALY001 - Calycanthus floridus 'Van der Geiseen's Choice' - Flowers of exceptional fragrance. Selected by Maarten van der Geissen of Semmes, Alabama USA, Nurcar.com, accessed April 2013.

CALY002 - Calycanthus floridus 'Coker Cottage' - plants 10 ft. tall x wide, vigorous, strong, durable in USDA 7b (Chapel Hill, North Carolina). Flowers red, small but very numerous. Leaves a good yellow in fall. Originated from a notable tree at the Coker Arboretum, University of North Carolina, Chapel Hill, North Carolina. That same old arboretum on campus also holds the original tree of Liquidambar styraciflua 'Rotundiloba', a popular and unique tree that is fruitless with curiously rounded lobes, prized over the world.

CALY003 - Calycanthus (C. chinensis x C. floridus var. oblongifolius) 'Hongyun'. Flowers large, red, 2 whorls of tepals. Abstract: Acta Hort. Sinica 41 (8): 1755-1756 (2014).

CALY004 - Calycanthus floridus var. purpureus 'Burgundy Spice' - leaves glossy, rich chocolate-purple to reddish-purple. Or: Rich Heesellein, Pleasant Run Nursery, Allentown, New Jersey, USA. In: Star Roses and Nurseries c. 2015, https://issuu.com/starrosesandplants/docs/srp_catalog_2017_allpages, accessed 8.11.2016. It does not appear at <http://www.pleasantrunnursery.com>, when a search was run on 8.11.2016 nor when the "New Plants" bar was pressed.

CALY005 - Calycanthus x raustonii 'Solar Flare' - 6-9 ft. tall x wide, flowers tepals rich maroon red, favoring C. floridus, inner tepals bright golden, marked and suffused maroon red in their low two-thirds, rich fruity scent, leaves showy yellow in fall. Or: Dennis Ludvina. Web: <http://www.songsparrow.com/catalog/plantdetails.cfm?ID=5043&type=WOODY,&pagetype=plantdetails>, accessed 5.9.2017

CALY006 - Calycanthus floridus 'Big George' - habit dense, subglobose, leaves dark green, reliably yellow in fall, flowers reddish-brown, good fruity scent. Or: Transplant Nursery, Georgia, USA, named for it's founder George Beasley.

CALY007 - Calycanthus floridus ROY'S DARK RED™ 'KLMY' - 6-8 ft. tall x 8-10 ft. wide (10 years), flower tepals much darker red, rich fruity scent. Or: Roy Klehm as F2 hybrid seedling, Klehm's Song Sparrow Nursery c. 2015, <http://www.songsparrow.com/catalog/plantdetails.cfm?ID=2791&type=WOODY,&pagetype=plantdetails>, accessed 5.11.2017, said to be backordered under 9.1.2017.

CAMPS001- Campsis grandiflora 'Morning Calm' - Dr. JC Raulston's amazing selection that remains superior to most C. radicans and hybrid selections for corolla coloration, vigor, and a huge 1.5 to 2.0 inch wide trumpet face. If this looks like an impossible tropical flowering vine - it should not - for it does well in USDA 6-10. The huge trumpet is melon at times, in other portions of the day a richer orange, orange juice to Nasturtium, other times a somber, dark vermilion-orange, a delicately veined throat of gold and darker shades, and very often a blend of all these curious, prismatic pigmentations; showing reflective crystals in the tissue and odd tones from the very opening of each flower. Images above and below not part of OROC Data Sharing.

CAMPS002- Campsis x tagliabuana ORANGEADE® 'Tracamp' - from Sapho.fr has the first boldly bicolored, chimera-style flowers in this genus, contrasting rosy-gold with rich magenta pink at every toss of a shadow and sunbeam. Frankly, I thought we'd see gold veined red flowers or red-veined gold flowers before a chimeral bicolor beauty like this one. Click image to enlarge.

CAMPS003 - Campsis radicans ATOMIC RED™

CAMPS004 - Campsis 'Chastity' (Dr. Tom Ranney, North Carolina State University, triploid)

CAMPS005 - Campsis radicans 'PRN Redbird' (Pleasant Run Nursery, their own selection)

CAMPS006 - Campsis SUMMER JAZZ FIRE (Plantarium.nl)

CAMP007 - Campsis x tagliabuana GRENADINE® 'Rutcam' - flowers to 8cm wide, rich red to orangish-red corolla, tube on exterior more orange, effectively a true red from a distance, very floriferous until fall.

Or: John Ruter.

CARE001 - Caragana GREEN SPIRES® 'Jefarb' (C. arborescens x C. frutex) - 12 ft. tall x 8 ft. wide, upright to subglobose. Leaves dark green, very pest and disease resistant. Seedless. Ch: USDA 2. Or, in: Greg Morganson, Bismarck, North Dakota, introduced by <http://www.jeffriesnurseries.com/p7-17.pdf>, accessed 1.7.2017

CARP001 - Carpinus betulus 'Stegemann's Primus' (Minier Nurseries) - conical, vigorous, regularly branched. Selected by J. Stegemann, Eur. CPVO to him 2005.

CARP002 - Carpinus betulus ROCKHAMPTON RED 'Lochglow' (Planteria.eu) - uniform crown. Leaves with reliably showy, colorful orangish-red to red call colors. Eur. CPVO to Geoff Locke 2014. Planteria.eu winner. See <http://www.planteria.eu/news/241/rockhampton-red-wins-for-batouwe>

CARP003 - Carpinus japonica 'Silver Lace' is a stunning entity among all cut-leaved trees, a fine recent introduction, quite a feathery to almost pin-like or ciliate sort of margin, bearing a pale silvery-green hue in the sun. The spiky, narrow blades carry a special, odd rugosity, the sort normally found only in herbaceous plants, where the long, convex bubble between the secondary veins turns into the thin, sharp tooth, making the lateral veins sunken, reflecting yet more white or pale green light. Anyone who knows, collects, and studies our lacinate trees and shrubs will know this is a very unique, useful release, cuter than cute, and prettier than your best girl in silver lace. Buchholz Nursery has it for one.

CARP004 - Carpinus caroliniana 'Stowe Cascade', a semi-weeping, elegantly drooping at least variant on that other species that rarely gets selected for cultivars. This beauty is shown at the JC Raulston Arboretum and originated about 4 hours to the southwest at the Daniel Stowe Botanic Garden in Charlotte, NC. Image copyright owned by and courtesy of Laurence Hatch.

CARP005 - Carpinus caroliniana BALL O'FIRE™ 'J.N. Globe' - 15-20 ft. tall x wide, compact, globose. Leaves reliably showy, orange to red in fall, some yellow for contrast Selected from superior tree in wild, Waukesha, Wisconsin, USA by johnsonnursery.com.

CARP006 - Carpinus caroliniana FIRESPIRE™ 'J.N. Upright' - 20 ft. tall x 10 ft. wide, distinct erect. Leaves boldly coral-red to orangish-red in fall, interior canopy leaves often a dark burgundy. Johnsonnursery.com, accessed 5.2.2015.

CARP007 - Carpinus caroliniana NATIVE FLAME® 'JFS-KW6' - 30 ft. tall x 20 ft. wide, upright, ovoid. Leaves dark green in summer, high quality texture, reliably orange to red shades, very showy in fall. jfschmidt.com, accessed 5.2.2015

CARP008 - Carpinus betulus ORANGE RETZ® - leaves very bright orange in fall. Eur CPVO to Jean Blondeau 2014.

CARP009 - Carpinus caroliniana RISING FIRE™ 'Uxbridge' - 30 ft. tall x 15 ft. wide, more narrow and upright than species typical, columnar to narrowly ovoid, vigorous, uniform. Leaves reliably bright red to orange shades with some yellow in fall. Hardy in Ontario, Canada where it originated.. So: www.jfschmidt.com, accessed 6.15.2016

CARP009 - Carpinus caroliniana 'Eisler' ('Eisler Select') - a listed name. "Select" is a term not permitted in cultivar names by the code.

Carpinus caroliniana 'Sentinel Dries' - so: <http://www.pavia.be/catalogue/>, accessed 12.30/2017, listed name only

Carpinus betulus 'Williamson's Gold' - habit as species but denser, slower growth, golden leaf in spring and summer, light green to gold in fall. Or: Simon Williamson. Web: <http://www.genesis-plantmarketing.co.uk/portfolio/carpinus-x-betulus-2/>, accessed 12.22.2017

CATA001 - Catalpa speciosa HEARTLAND® 'Hiawatha 2' (J.F. Schmidt) - 50 ft. tall x 25 ft. wide, "upright narrow oval", more narrow and more uniformly branched than species typical. Leave darker green than species typical. jfschmidt.com, introduced 2015, accessed 5.31.2015.

CATA002 - Catalpa bungei 'Menghuan' ("Colorful Manchurian Catalpa") - leaves margined rose-red at first, later becoming edged yellow and finely white in irregular width, margins "very wavy", adding to the interest, the chimera appearing to be from 15-55% of the leaf surface according to the US Patent application drawings, one of which is shown above. Or: mutation found on May 5, 2011 on road side in Long'an District, Anyang City, Henan Province, China. It was grafted on May 10, 2011 onto species stock. US Patent applied for on March 16, 2016 by Huaming Wang, Suiping, China. It is the opinion of our attorney and many others that US Patent application data is entirely in the public domain unless the applicant makes an order to copyright the known drawings, symbols, or images. Lacking such evidence to the contrary, we freely publish this image here, however asking it be attributed to the originator in a proper scientific manner.

CEDU001 - Cedrus atlantica 'Blue Fountain' - originators place the species C. atlantica under C. libani.

CEDU002 - Cedrus deodara FEELIN' SUNNY® 'MonKinn' - 5-12 ft. tall x 6-8 ft. wide (10 years) per Monrovia website, US Patent app states "plant height 62cm...diameter about 65cm...compact and low spreading...slow-growing, freely branched, dense and bushy...slower growing and more compact than than plants of 'Golden Horizon'...not as mounding as trees of 'Golden Horizon'", Monrovia's images, accessed 8.6.2016, show cascading plants and one grafted high on a standard so it remains unclear if it will be marketed as a classic pyramidal conifer or in other forms.. Leaves bright yellow most of the year including winter ("greyed yellow..becoming golden yellow" per US Patent app), sunburn resistant, internal or shaded foliage becoming lime and perhaps close to typical green.

In: Monrovia Nursery, offered by them in 2017, <http://www.monrovia.com/plant-catalog/2017-featured-plants/>, accessed 8.2.2016. Pat, or: US# 23886 to Ron Damien Kinney on Sept. 10, 2013, sport of 'Feelin' Blue' in 2004 appearing in Dayton, OR, USA. assigned to Monrovia Nursery.

CEDU003 - *Cedrus deodara* STERLING FROST™ 'Grester' - 40-50 ft. tall x 20-30 ft. wide as young plants, tall, erect, weeping tips. Needles rich bluish-green, frosted with bluish-silver, overall nearly as blue as many *Picea pungens* while not being as dark and marine a blue as *Cedrus atlantica* f. *glauca*. Web, ph: <http://www.gardendebut.com/plant/Sterling-Frost-Deodar-Cedar>, accessed 10.5.2016

CEDU004 - *Cedrus deodara* 'Mt Buffalo' - habit miniature, very dwarf, thick branches and stems almost looking like small trunks, very low to prostrate. Leaves bluish-green.

CEDU005 - *Cedrus libani* 'Wells Roman Gold' - Or, in: <http://wellsnurseries.com/availability/>, accessed 10.7.2016

Cedrus atlantica 'Green Wave' - 4 ft. tall x 8 ft. wide, spreading, tiered, in flat planes, sturdy. Or: Morris Arboretum, as witches broom on 100 year old 'Glauca'. So, in: <http://www.iselinursery.com/downloads/>, accessed 10.31.2017, introduced 2017

CEPH001 - *Cephalotaxus harringtonia* 'Gold Dragon' (Hawksridge Farms) - 2-3- ft. tall x 4-5 ft. wide. Leaves golden-yellow in new growth.

CEPH002 - *Cephalotaxus harringtonia* 'Gold Splash' - habit spreading-mounded, decumbent, much as 'Duke Gardens' but having golden-yellow shoot tips. So: <http://www.brokenarrownursery.com>, accessed 6.12.2016,

CERCID001 - *Cercidiphyllum japonicum* CLAIM JUMPER™ (Broken Arrow Nursery) - new leaves rose pink, becoming yellow

CERCID002 - *Cercidiphyllum japonicum* HANNA'S HEART® 'Biringer' - Habit erect, compact. Leaves darker green, rich yellow in fall, leaves held longer due to increased cold resistance. Cold hardiness greater. www.biringer-nursery.com, accessed 4.19.2015

CERCID003 - *Cercidiphyllum japonicum* 'Dawes Ascension' - 40-60 ft. tall x 20-30 wide. Young trees densely columnar, older plants more pyramidal, narrower than species typical. Or: Dawes Arboretum, bef. 1993, <http://dawesarb.arboretumexplorer.org/taxon-20758.aspx>, accessed 5.16.2016

CERCID004 - *Cercidiphyllum japonicum* 'Compact Globe' - 15-20 ft. tall x wide, subglobose, smaller tree than species typical seedlings. So: www.forestfarm.com, accessed 3.10.2017

CERCID005 - *Cercidiphyllum japonica* RA 'JWW3' - <http://www.newplants.nl/planten/c/cercidiphyllum-japonicum-jww3-pbr-rar/>

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Hatch's Cultivars of Woody Plants 2018-2020



Laurence C. Hatch
Horticultural Taxonomist

CULTIVARS OF WOODY PLANTS (CWP) is your guide to 96 different Cercis cultivars. Your purchase of CWP, a massive, detailed, 4000-page PDF encyclopedia of trees was written over 38 years. It goes anywhere you do on your phone, tablet, laptop, etc. Please visit www.cultivar.org for subscription information.

CERC001 - Cercis canadensis 'Pink Pom Poms' (Dr. Dennis Werner, North Carolina State University, new cultivar, double flowers)

CERC002 - Cercis canadensis 'Vanilla Twist'- weeping with white flowers, a new combination.

CERC003 - Cercis canadensis RED FORCE® 'Minrouge3' (Minier) - leaves bright purplish-red, not purple as 'Forest Pansy'

CERC004 Cercis canadensis CAROLINA SWEETHEART™ 'NCCC1'. This outstanding cross of purple and variegated leaf genetics in redbud by Dr. Tom Ranney produced spectacular glowing pink hearts of new foliage. It is amongst the most colorful and pretty variegated trees on the planet, rivaling Japanese maples and sycamore-maple cultivars for flash and a designer aura of new tips. Image courtesy of and copyright owned by Tom Ranney.

CERC005 Cercis canadensis LUCIOUS LAVENDER™

CERC006 Cercis canadensis RADIANT LIPSTICK™

CERC007 - Cercis canadensis 'Alley Cat' - leaves heavily white-streaked and white-spotted, chimera about 35-50% blade surface, new growth slightly tinged copper to pink, more sun scorched resistant in warm climates, variegation very stable. Or: Allen Bush, Louisville, Kentucky, USA as chance seedling he discovered in an alley near his home. In: Harold Neubauer, Hidden Hollow Nursery, hiddenhollownursery.com, accessed April 2014. Our previous Book I incorrectly attributed origination to Mr. Neubauer as he was the first to propagate it. We thank Dr. Dennis Werner, Cercis geneticist extraordinaire and redbud scholar for this correction. It is considered as a superior clone to 'Floating Clouds' and 'Silver Cloud' for sun tolerance and refined summer coloration.

CERC008 - Cercis chinensis 'Spring Snow' - flower corolla white, numerous. Introduced by www.wairere.co.nz, accessed 4.25.2015

CERC009 - Cercis chinensis 'Brandywine' - listed name, not described, www.bluehorizonnursery.com, accessed June 2015

CERC010 - Cercis SUMMER'S TOWER™ 'JN7' - 20-25 ft. tall x 10-12 ft. wide, habit "tight, upright vase-shaped", vigorous. Flowers pinkish-lavender over entire limbs.

Web: <http://www.gardendebut.com/plant/Summers-Tower-Redbud>, accessed 9.20.2016. Or: Ray Jackson.

CERC011 - Cercis COTTON CANDY™ 'John Sjo' - 20 ft. tall x 30 ft. wide, close to species typical. Flower corolla pale pink, lavender striations, calyx darker pink. Leaves green, yellow in fall. web: http://www.gardendebut.com/index.cfm/fuseaction/plants.plantDetail/plant_id/6577/index.htm, accessed 9.20.2016

CERC012 - *Cercis canadensis* BLACK PEARL™ 'JN16' - web: <http://www.gardendebut.com/plant/Cercis-Cercis-canadensis-JN16>, accessed 12.28.2017

Cercis canadensis 'Mardi Gras' - listed name USNA, restricted accession, website accessed 12.26.2017

Cercis (presumed *chinensis*) 'Chongyang' - flowers blooming in both spring and fall, the later abundant very high and reliable. USPP applied for October 26, 2017

CHAE001 - DOUBLE TAKE™ Series (Proven Winners)

CHAE002 - *Chaenomeles speciosa* RED PREMIER™ 'Greredpre' - 3-4 ft. tall x 3 ft. wide, compact. Flowers very dark red., double but less so than DOUBLE TAKE Series, cupped, stamens gold and showy. Greenleaf nursery.com, accessed 5.4.2015

CHAE003 - *Chaenomeles* 'Green Ice' - flower corolla chartreuse in bud, later white tinged green, semi-double. Introduced by www.wairere.co.nz, accessed 4.25.2015

CHAE004 - *Chaenomeles speciosa* RED PREMIER™ 'Greredpre' - 3 ft. tall x 4 ft. wide, dense yet vigorous, compact with maturity, intertwining beanchlets. Flowers early, medium to medium-dark red, double, cup-shaped, showy golden stamens. Web: www.gardendebut.com, accessed 5.22.2016, https://issuu.com/gardendebut/docs/2016_catalog-online/1

CHAE005 - *Chaenomeles speciosa* MANGO STORM 'Mincha01' - Thornless. flowers semi-double, 5-8 cm wide, coral-orange as in mango fruit, gold stamens still visible unlike some fuller doubles. Seedless. Note: there is no connection we can find between this name and 'Pink Storm', 'Orange Storm', and 'Scarlet Storm' of Dr. Ranney as it appears to be a European production from Minier in 2015.

Web: <http://www.pepinieres-minier.fr/fichePlante.php?codePlante=12468&route=plantes-nouveautes-research>, accessed 10.11.2016

CHAE006 - *Chaenomeles speciosa* RED KIMONO™ 'Ainoomoi' - habit erect, 1.5m tall, stems thornless. Flower corolla bright red, very showy. Pat: Euro PBR 20151486

In, web: <https://www.plantipp.eu/en/Plants/chaenomeles-speciosa-red-kimono-ainoomoipbr-2/>, accessed 10.11.2016

CHAE007 - *Chaenomeles* 'Dart's Coverpower' - low spreading mound, a floriferous groundcover, flowers light orange, numerous. Or: Darthuizer Nursery.

CHAM001 - *Chamaecyparis obtusa* 'Cooper's Gem' (RHS, Nomenclatural Standard, JSTOR)

CHAM002 - *Chamaecyparis obtusa* 'Sunny Swirl' (Iseli Nursery)

CHAM003 - *Chamaecyparis obtusa* NIGHT LIGHT™ (Star Roses) - I really had to get a grip when the patent application compared this globose, golden, plumose gem to "Grippsii" instead of the obvious 'Elmwood Gold', sport or seedling too of 'Crippsii'. I'm glad the US patent inspectors don't do road tests of cars because we'd be having a Lambo Aventador racing a Ford Fusion. They seem to have no clue what are legit comparisons (originators also spinning the match up to their end when the clone may or may not be unique at all) and miss the one, two, or three obvious benchmarks already in gardens and the trade too. The big Cripp's false-cypress is pretty and durable from USDA 5 to 8, handling Raleigh, NC with as much ease as Rochester NY. If this is half as good as the tales from the Cripps in gardens, it should be splendid indeed.

CHAM004 - *Chamaecyparis thyoides* BLUE ROCK® 'Versent' is as good as the dwarf Chamies of the Squarrosa Group and probably more cold hardy and less browning with age. We will see but this baby looks like a winner and glows with such lovely sapphire tones. This image is not part of OROC Data Sharing.

CHAM005 - *Chamaecyparis obtusa* 'Butter Ball' - habit dwarf, subglobose, fern-like in texture but more elegant than similar older clones. Leaves lemon-yellow, inner foliage lime to dark green, given some contrast. Iselinursery.com, accessed October 2013.

CHAM006 - *Chamaecyparis pisifera* (Filifera Group) 'Angel Hair' - habit dwarf, filiform texture as the Filifera Group, slower and thinner than classic clones of the group. Found in New York by Mike and Ken Yaeger, Hickory Hollow Nursery. Iselinursery.com, accessed October 2013.

CHAM007 - *Chamaecyparis obtusa* JADE WAVE™ 'MonYur' - 6-8 ft. tall x 3-4 ft. wide, compact, uniform, pyramidal, foliage units in waves, branches "gracefully curved...fern-like". As a long term student of the species (L. Hatch, Editor), this has a far more flat and plumose a spray than normal for this species, and I would imagine a seedling of 'Lycopodioides Aurea' crossed to the species might give a similar look, the branchlets very spread out and articulated into fine, ferny units. Tips don't curl down like many gold or near gold seedlings in this species.. Leaves bright to pale green, tips closer to lime, a sort of popular notion of a jade color,

while that true stone covers everything from pale to dark green and some blues. USDA 4. In: <http://www.monrovia.com/plant-catalog/plants/5750/jade-wave-fernspray-false-cypress/>, accessed 8.2.2016

CHAM008 - *Chamaecyparis nootkatensis* 'Boykos Glitter Falls' - pendulous much as 'Pendula', foliage mottled cream to about 35% surface. Or: Jim Boyko.

CHAM009 - *Chamaecyparis obtusa* 'Bridget' - 8 ft. tall x 6 ft. wide, dwarf, broadly upright, tight scaly leaves but many shoot flat and fasciated, some shoots with the cockcombs and others without, deep green overall. In: www.iselinursery.com, online catalog 2016-17, accessed 10.5.2016

CHAM010 - *Chamaecyparis nootkatensis* (Pendula Group) 'Golden Waterfall' - highly weeping as the Group, long drooping arm, foliage richly suffused golden-yellow to yellow, showing perhaps 20-35% green, depending on the amount of light given. Appears to be more golden than previous clones of this category. In: <http://www.hachmann.de>, accessed 10.7.2016

CHAM011 - *Chamaecyparis nootkatensis* (Pendula Group) 'Wells Pacific Arrow' ('Pacific Arrow')- habit weeping as the Group but the apex extremely narrow and arrow-shaped, plants of 8-10 ft. perhaps as narrow as 12-18 inches, though become 20-30 ft. tall x 2-5 ft. wide in many years. It's classic super-narrow, "inverted column" type of weeping in the very extreme formation. Or: Wells Nursery, Mount Vernon, Washington, USA. In, ph: <http://www.progressiveplants.com/catalog.html?material=2568593&desc=Chamaecyparis+nootkatensis+Pendula+Wells+Pacific+Arrow>, accessed 10.7.2016

CHAM012 - *Chamaecyparis thyoides* WOODY WORLD 'Spitsbergen' - <https://www.kvbc.nl/chamaecyparis-thyoides-spitsbergen-woody-world/>

Chamaecyparis lawsoniana PINPOINT™ BLUE 'SMNCLBF' - 15-20 ft. tall x 5-7 ft. wide, columnar. Leaves feathery, blue all year, staying colorful in winter. So, in: Spring Meadow Nursery, http://springmeadownursery.com/plants_details.php?id=11820, accessed 10.31.2017

Chamaecyparis lawsoniana 'Sunny Smile' - Habit narrowly upright. Leaves "yellow-green and creamy white", general terms, most of the first year spray bright yellow but on the inner and lower leaves of the shoot they are cream to white, not sharply bicolored from a distance but of two tones on close inspection. Pat, or: US# 25456 on April 21, 2015 to Frank Schnupper, Westerstede, Germany as chance seedling 2004, possibly from 'Stardust'. The image above is from the US Plant Patent application.

Chamaecyparis lawsoniana PEARLY SWIRLS™ - semi-dwarf to very compact, pleasantly loose and informal with some longer, more strong shoots, subglobose at first, foliage 30-60% white chimera, both on the shoot tips and via suffusions and true chimeric variegations, the base color a bluish-green that does not contrast too much.

Chamaecyparis lawsoniana PINPOINT™ BLUE AND GOLD 'SMNCLGTB' - 15-20 ft. tall x 5-7 ft. wide, columnar to narrowly pyramidal. Leaves in feathery plumose planes, two-toned, tips "lime-gold" becoming rich powdery blue. So, in: Spring Meadow Nursery, http://springmeadownursery.com/plants_details.php?id=11820, accessed 10.31.2017

Chamaecyparis lawsoniana SOFT SERVE® GOLD 'FARROWCGMS' - The original SOFT SERVE® is a *C. pisifera* cultivar and this is not. http://springmeadownursery.com/plants_details.php?id=11980

Chamaecyparis nootkatensis 'Aldrich Mountain' - 25 ft. tall x 15 ft. wide, broadly upright to conical. Leaves with foliage "lush, lacy, almost frond-like" (Iseli). Or: Aldrich Mountains, central Oregon, USA, considered by botanists to be a very old, isolated and relic population. This stock was collected by John Day. So, in: <http://www.iselinursery.com/downloads/>, accessed 10.31.2017, introduced 2017. Note, id: needless to say not all collections will be the same clone or identical and this name or a similar one ('Mount Aldrich') is used by other nurseries such as Buchholz. It has been considered a form of *Thuja plicata* and even an unlikely cross to it. This website provides more detail on the population: <http://blog.conifercountry.com/2014/07/aldrich-mtns/>

Chamaecyparis obtusa 'Snowblast' - irregular, somewhat open, feathery pyramid. Needles bright green, very creamy to white in new tips, later marked green and white. Or: Buchholz Nursery

Chamaecyparis pisifera 'Steel Wool' - web: <http://www.mrmapple.com>, accessed 12.29.2017

Chamaecyparis pisifera 'Filips Happy Day' - https://www.havlis.cz/karta_en.php?kytkaid=1481, accessed 10.8.2018

Chamaecyparis lawsoniana 'Filips Golden Sprinklers' - <https://www.hgeers.nl/chamaecyparis-lawsoniana-filips-golden-sp.html>, accessed 10.8.2018

Chamaecyparis obtusa 'Filips Melting Mountain' - <http://edwinsmitsconifers.com/filip.asp>, accessed 10.8.2018

Chamaecyparis lawsoniana 'Drooping Solo' - <https://www.vallonchene.fr/en/order-online/7273-chamaecyparis-lawsoniana-drooping-solo.html>, accessed 10.8.2018

CHAMAED001 - Chamaedaphne 'Dew Drop' (Rare Find Nursery) - 1.5 ft. tall x 3 ft. wide at first, potentially 2-3 ft. tall x wide, very dense.

CHIL001 - *Chilopsis linearis* DAZZLEWINE™ 'Lopur' - 25-30 ft. tall (typical?), corolla dark rich burgundy, photos suggest a possibility of dark violet-red also, leaves dark emerald green from whitish, velvety buds. Or: Mountain States Wholesale Nursery, http://www.mswm.com/media/info_sheets/chilopsis_linearis_lopur_ppaf_dazzlewinetm.pdf, accessed 5.9.2017, their own selected from the Glendale nursery bef. 2016.

CHIM001 - *Chimonanthus praecox* 'Brookhill Goldleaf' - leaves showy golden-yellow. In: Larch Cottage Nurseries, Cumbria, England to European trade.

CHIM002 - *Chimonanthus praecox* 'Sunburst' - flowers with strong, rich yellow, center with contrasting red, larger than species typical. or, in: Junker Nurseries, UK, their own selection, the name suggested to them by Roy Lancaster

CHIM003 - *Chimonanthus praecox* 'Cobhay Golden Treasure' - habit more compact, erect than typical, flowers "pure butter yellow", earlier than some forms, leaves most lost by bloom time, fragrance very high. Or, so: <http://www.junker.co.uk>, accessed 12.30.2017, their own selection

The full taxonomist record from Cultivars of Woody Plants follows. Photographs are available in the original CWP ebooks.

CHIO002 - *Chionanthus retusus* 'Arnold's Pride' (11/5)

ht: 30 ft. tall x 30 ft. wide (original tree)

fq: very floriferous

frq: self-fertile

or: Arnold Arboretum from the famous, very notable example planted 1901, raised from seed

or: collected at Emperor's Imperial Bot. Gard.

CHIO011 - *Chionanthus retusus* 'Botanicas Beauty'

fq: much more floriferous than species typical, blooms covering the entire canopy, also known to bloom well as young plants.

ft: typical petals longer and wider than species typical., also slightly more curved and elegant

web: <http://www.les-botaniques-du-val-douve.com/3673-16-val-douve-c-chionanthus-retusus-botanicas-beauty-plante-a-ecorce-decorative.html>, accessed 10.11.2016

CHIO013 - *Chionanthus retusus* 'Daruma' - lsp: Dawes Arboretum 2013 in two accessions. This is not the *Loropetalum* clone of the same name.

CHIO003 - *Chionanthus retusus* 'China Snow' (11/5)

ht: 10-18 ft. tall and wide, 10 x 10 ft. as young trees

lc: glossy dark green

fq: floriferous

or: Don Shadow selected from notable tree in old Sanford Arboretum, Knoxville, TN USA.

or: Nurseries Caroliniana (online catalog, accessed 11.24.2012) says it is from an old tree

or: at the Arnold Arboretum.

CHIO004 - *Chionanthus retusus* 'Ivory Tower' (3/7)

ht: 15 ft. tall x 3 ft. wide

ha: strictly upright, columnar

ll: 4.0 in.

lc: very glossy green

infl: 2-4 in. panicles

so: www.hawksridgefarms.com (online catalog 2007)

CHIO005 - *Chionanthus retusus* 'Yadkin Creeper' (11/8)

or: presumed to be www.yadkinvalleynursery.com, not listed on website on 11.9.2008

lsp: Raulston Arb #030704 rec. 4/18/2003, 47 " tall in 2005

CHIO006 - *Chionanthus virginicus* 'Emerald Knight' (5/4)

lc: darker green by one report

so: www.highlandcreeknursery.com (online catalog 2003)

CHIO001 - *Chionanthus virginicus* 'Black Stem' (Buchholz)

CHIO007 - *Chionanthus virginicus* 'Groenendaal' (12/6)

ns, id: a clone listed in Europe, a seedling from Groenendaal Arboretum

Chionanthus virginicus 'Grancy Greybeard' - web: <http://www.mrmapple.com>, accessed 12.29.2017

CHIO008 - *Chionanthus virginicus* 'Floyd'

ha: denser, more upright than species typical

ft: 99% or more male flowers only

frq: virtually no fruit set, only the occasional one has been observed on larger trees

or: Sonnemann Experimental Station Garden, Vandalia IL USA c. 1945 as chance seedling

in, ns: named and introduced by Dr. J.C. McDaniel in honor of Floyd Sonnemann 1970. US trade about 1972-3

li: McDaniel, J.C. 1969. Proc. Int. Plant Prop. Soc. 19: 377-378.

CHIO009 - *Chionanthus virginicus* 'Pat's Variegated' (5/4)

lc: irregularly margined, mottled and sectored light yellow, some

lc: leaves all yellow or all green, very colorful to date

fq: seems to flower well for a variegate.

lsp: Juniper Level Botanic Garden, Raleigh, NC, first observed by me in May 2004.

CHIO012 - *Chionanthus virginicus* [pink flowered]

fc: light pink

or: Dirr in his 1998 Manual relates that "a lady approached me and

or: mentioned she knew of red- and pink-flowered forms. Needless

or: to relate, I had abnormal heart paplitations. Arrangements were made

or: to propagate the forms...to this day I await the first scion."

or: Nicholson's *Arnoldia* article 50(4): 24-31 (1990) mentions a pink form found

or: in Virginia and perhaps other states.

CHIO010 - *Chionanthus virginicus* 'Spring Fleecing' (11/6)

ht: 12-20 ft. tall

ha: small tree, "superior form"

lc: glossy dark green

sex: male

fq: more floriferous

ff: nicely scented

so: www.nicholsgardens.com (online catalog 2006)

CINN001 - *Cinnamomum camphora* 'Yongjin' - HortScience 50: 762-764, an ornamental clone from China.

CINN002 - *Cinnamomum camphora* 'Xianguang' - HortScience 50: 762-764

CINN003 - *Cinnamomum camphora* 'Yuhuang' - HortScience 50: 762-764

CLAD001 *Cladrastis kentukea* 'White Rain' (Wayside Gardens) - a new weeping clone - by the way there is no "c" in kentukea. It's a Latin thing and folks should know better.

CLET001 - *Clethra barbinervis* 'Great Star' - Bark exfoliating in gray to pinkish-brown. Flowers at a younger age. Flowers in long, scented racemes. Leaves red to yellow in fall. web: <http://www.panglobalplants.com>, accessed 3.12.2017

CORN001 - *Cornus controversa* GARDEN DANCE™ (Wayside Gardens)

CORN002 - *Cornus sericea* ERIKA THE BLONDE™ (Song Sparrow Nursery, a Klehm original introduction)

CORN003 - *Cornus kousa* 'Empire', 'Pams Mountain Bouquet', and 'Red Steeple' (HortScience) - paid access. Registrations will be split upon receipt of further data.

CORN004 - *Cornus* LITTLE RUBY™ (*C. kousa* 'Miss Satomi' x *C. hongkongensis* 'Summer Passion') - Dr. Ranney's new breakthrough, the first semi-evergreen to evergreen, pink-bracted dogwood.

CORN005 - *Cornus kousa* MANDARIN JEWEL (Brotzman's Nursery) - orange fruit

--end of OROC Data Sharing

CORN006 - *Cornus mas* CLYDESDALE™ (Songsparrow Nursery, a Klehm original)

CORN007 - *Cornus kousa* SCARLET FIRE™ 'Rutpink' - flower bracts uniformly rich pink, holding this color up to 8 weeks, nearly all of the bract heavily pigmented, leaves clear and unmarked, fall colors red, and it is also considered the heaviest flower of all known pinks in this species (2016). Or: Dr. Tom Molnar, Rutgers University.

CORN008 - *Cornus drummondii* LEMON DROPS™ 'KNI-Yellow' - flowers "soft saffron yellow", fruit yellow maturing to burgundy, clean dark leaf. Offered by <http://www.klynnurseries.com>, 2013 Catalog/No Pricing, accessed 2.17.2016, their own introduction from selected seedling

CORN009 - *Cornus kousa* 'Rosy Curlycue' - habit growth rate very slow. Leaves twisted, pink, green, and white at first. In:

<http://www.whistlinggardens.ca/05-downloads/141218-whistling-gardens-garden-centre.pdf>, accessed 10.3.2016

CORN010 - *Cornus kousa* 'Primrose Cloak' - leaves bright yellow in new growth, tinged red in light, slightly undulate, twigs pink and showy. Or, in: unknown origin, described and listed in the US and Canada by Broken Arrow, Rocky Dale, Handy, and Whistling Gardens Nurseries as 10.3.2016.

CORN011 - *Cornus kousa* 'China Curl' - habit slower, compact, shrubby at first. Leaves bright light green, narrowly elliptic to linear-elliptic, highly undulate and twisted, apex distinctly curled down and often in a loop. In:

http://www.bloomriver.com/home/br2/page_2304_16/cornus_kousa_china_curl.html, accessed 10.3.2016

IN, photo: http://www.dauidsansjapanesemaples.com/shop/product/z_cornus_kousa_chinesis_china_curl__, accessed 10.3.2016

Ns: this "unique" plant appears identical to a clone of the species labeled as 'Medusa' some years ago (2005) at the JC Raulston Arboretum and documented in Cultivars of Woody Plants

CORN012 - *Cornus obliqua* RED ROVER™ 'Powell Gardens' - 48-60 in. tall x 48-60 in. side, compact, neat. Leaves rich dark purple shades in fall, later more red. Typical species white flowers and showy blue fruit. Ch: USDA 4. Web: <https://www.provenwinners.com/plants/cornus/red-rover-silky-dogwood-cornus-obliqua>, accessed 10.4.2016, new in 2016 trade in US

CORN013 - *Cornus hongkongensis* subsp. *melanotricha* 'Watashi no Ginga' - habit upright, outward spreading, vigorous. Leaves margined and sectored green, yellowish-green, and yellow. Flowers single to double (4-6, sometimes 8 bract), bracts greenish at first, later white. Pat, or: US Patent #26991 on August 2, 2016 to Masashi Shibamichi, Yuki, Japan as sport of subspecies appearing in Tsukuba City, Japan in 2004. Image above is from US Patent Application under which no copyright has been stated or asserted.

CORN014 - *Cornus mas* BUTTERMILK SKY™ 'Butskyzam' - 15 ft. tall x wide, upright, subglobose, smaller than species on average. Flowers bright gold as species. Leaves broadly margined butter yellow becoming margined cream, chimera 10-25% surface. web, in: <http://www.upshoothort.com/lcn-selection/buttermilk-sky-variegated-dogwood/>, accessed 3.13.2017.

CORN015 - *Cornus officinalis* RED SENTINEL™ 'KLMQQ' - 8-10 ft. tall x 5--8 ft. wide (10 years), "matures to a a small...upright columnar tree", hence more erect than average seedling we suppose, flowers numerous, clustered, cover all limbs fully, leaves more healthy and dark green with a semi-gloss, red to purple in fall in a reliable way.

Or, web: <http://www.songsparrow.com/catalog/plantdetails.cfm?ID=5042&type=WOODY,&pagetype=plantdetails>, accessed 5.9.2017

CORN016 - *Cornus officinalis* RUGGED CHARM™ 'KLMII' - 8-10 ft. tall x wide (10 years), flowers very numerous, covering all limbs, superior red to purple fall color, good dark glossy green leaf.

Or, Web: <http://www.songsparrow.com/catalog/plantdetails.cfm?ID=5033&type=WOODY,&pagetype=plantdetails>, accessed 5.9.2017

CORN017 - *Cornus alba* BRUSHED BURGUNDY™ 'CHOVZAM' - leaves margined cream to yellow, new growth richly toned in red to burgundy shades, making a bright tricolor. Or: Lake County Nursery.

CORN018 - *Cornus alba* CHERRY VODKA™ - 5 ft. tall x 4 ft. wide, stems bright red all winter, upright-rounded, leaves textured, rugose along the major veins, rich green, margined white to cream, chimera width irregular, about 8-12% surface, fall color tinged strong pink to red, creating a tricolor effect as soon as August, fruit "snow white". Or: Lake County Nursery, <http://www.lakecountynursery.com/lcns%20sell%20sheets/CherryVodka.pdf>, accessed 5.10.2017

CORN019 - *Cornus alba* NEON BURST™ 'Byboughen' - 4-5 ft. tall, compact, upright-globose, parent 'Morden Amber' is 40% larger, twigs rich red, showy, "early in the season", leaves bright chartreuse, very showy color, good heat and sun tolerance, keeping this color all summer without scorching, new tips tinged bronze, fall colors a mix of yellow, orange, red, and purple. Pat, or: US# 27956 on May 2, 2017 to Ron Boughen, Valley River, CA, as sport of 'Morden Amber' 2009, assigned Bylands Nursery, West Kelowna, British Columbia. Web: https://www.baileynurseries.com/media/wysiwyg/bn/our-brands/firsteditions/marketing/brochures/downloads/FE-New_Varieties_2017.pdf, accessed 5.10.2017

CORN020 - *Cornus kousa* 'Re Tivano' - Leaves irregularly margined cream to yellow, chimera irregular and about 5-10% surface, margins nicely undulate and surface rugose, giving added appearance, bracts typical white. Or: Vivai Nord, Italy, intro. 2015 Web: <http://www.grootgroenplus.nl/uploads/images/nieuwigheden/2015/Cornus%20kousa%20%E2%80%99Re%20Tivano%E2%80%99.pdf>, accessed 5.11.2017

PENDING - *Cornus* GOLDEN STRAWBERRY MARTINI™ - listed name with Ball Ornamentals, data pending

PENDING - *Cornus* LEMON LIME FLARE™ - listed name with Ball Ornamentals, data pending

Cornus alba WINTER CANARY™ 'Gracan' - web: <http://www.gardendebut.com/plant/Winter-Canary-Dogwood>, accessed 12.28.2017

Cornus controversa 'Kanuma' - leaves with unusual chimera, the lower half to 2/3 of the blade light green heavily suffused yellow between the secondary veins, the leaf apex typical green in the upper third or so, the transition a set of unusual more yellow miniature trees of clear yellow, zig-zag of gold and green in the lower portions overall, older leaves less clear and overall light green suffused light in yellow. web: <http://www.mrmapple.com>, accessed 12.29/2017. Lsp: Dawes Arboretum D2013-0038-.001

Cornus elliptica LUCKY LEPRECHAUN™ 'NCCE1' - 13 ft. tall x 4 ft. wide. Flowers abundant, bracts greenish-cream at first, later more wide. Leaves dark green, mildew resistant. Or: Dr. Tom Ranney, North Carolina State University. So, in: Star Roses and Plants, online catalog 2018, https://issuu.com/starrosesandplants/docs/2018_catalog, accessed 10.31.2017

Cornus kousa var. *chinensis* BLUE RAY™ 'JN6' - web: <http://www.gardendebut.com>, accessed 12.28.2017

Cornus mas SAFFRON SENTINEL™ 'JFS PN4Legacy' - or, in: https://www.jfschmidt.com/pdfs/JFS_New_2018.pdf, accessed 12.22.2017

Cornus officinalis CHEER™ 'KROY' - or, in: <http://www.songsparrow.com>, accessed 12.28.2017, New for 2018

Cornus kousa 'Peve Sammy' - https://grootgroenplus.nl/cornus_peve_sammy, accessed 10.8.2018

Cornus kousa 'Capriccio' - https://grootgroenplus.nl/uploads/2018/noviteiten/CORNUS_KOUSA_CAPRICCIO.pdf, accessed 10.8.2018

Cornus officinalis JOY™ 'LROY' - or, in: <http://www.songsparrow.com>, accessed 12.28.2017, New for 2018

Cornus racemosa IRISH SETTER™ 'J.N. Red Stem' - web: <http://www.gardendebut.com>, accessed 12.28.2017

Cornus kousa 'Couronne' - https://grootgroenplus.nl/uploads/2018/noviteiten/CORNUS_KOUSA_COURONNE.pdf, accessed 10.8.2018

Cornus florida RAGIN' RED 'JN13' - <http://www.gardendebut.com/plant/Ragin-Red-Dogwood>, accessed 10.8.2018

CORY001 - Corylus 'Burgundy Lace' - 35 ft. tall growth rate moderate, tree form best is basal suckers removed, leaves dark reddish-purple at first, deeply incised (unlike most or all other purple-leaved clones), narrower blade, Resistant to Anisogramma anomala fungus due to parent clone 'Gasaway' Web with color photo: <http://icoregon.technologypublisher.com/technology/21725>, accessed 5.11.2017, US PP applied for on March 23, 2017 by Shawn Mehlenbacher, David Smith, and Rebecca McCluskey of Oregon State University, a cross of several clones including C. avellana f. heterophylla 'Cutleaf' and the likely pollen parent 'Rode Zeller' in 1998.

CORY002 - Corylus avellana PURPLE UMBRELLA 'JM 251' - <http://szmit.pl/en/about-the-nursery/our-varieties/208-corylus-avellana-purple-umbrella-jm-251-pbr>

CORY003 - Corylus americana SUNDROPS™ 'JROY' - leaves bright yellow, holding color "much of summer", fall colors varies in shades of red, orange, purple to yellowish-green. Or: Roy Klehm. or, in: <http://www.songsparrow.com>, accessed 12.28.2017, New for 2018

CORY004 - Corylus avellana 'Anaconda' - branches contorted. so: <http://www.pavia.be/catalogue/>, accessed 12.30/2017, listed name only

COTI001 - Cotinus coggygria 'Kanari' - fall colors reliably golden-yellow, showy. Flower plumes pale, nearly white. In, ph: <http://www.hkolster.nl/home-nl/+fotobestanden/+cotinuscoggygriakanari.htm>, accessed 10.11.2016

COTI002 - Cotinus coggygria WINECRAFT BLACK™ 'NCCO1' - 4-6 ft. tall x wide, subglobose, compact, smaller than most rich purple clones. Leaves at first rich purple, later more dark, blackish-purple, not fading as older cultivars, remaining dark purple until fall. , orange, yellow, and red tones in fall. Flower panicles wispy, rich pinkish-red, later a hazy-violet. web, so, in: <http://springmeadownursery.com/plant/19890>, accessed 3.10/2017

COTI003 - Cotinus coggygria WINECRAFT GOLD™ 'MINCOLJAU3' - <https://springmeadownursery.com/plantfinder/winecraft-gold-20110>, accessed 10.8.2018

Cotoneaster 'Ursynow' - https://www.e-katalogroslin.pl/plants/2050,irga-ursynow_cotoneaster-ursynow

CRAT001 - Crataegus succulenta 'Gregory Canyon' - 3-4m, large shrub to small tree, green, Flowers, fruit very abundant. Or: named from a particularly good population in Gregory Canyon near Boulder, Colorado, USA. Not all stock seems to be as showy.

Crataegus ellwangeriana 'Fire Ball' - so: <http://www.pavia.be/catalogue/>, accessed 12.30/2017, listed name only

Crataegus heldreichii 'Chelmos' - leaves gray. so: <http://www.pavia.be/catalogue/>, accessed 12.30/2017

Crataegus tracyi 'Calamity Creek' - Or: selected from Davis Mountains- so: <http://www.pavia.be/catalogue/>, accessed 12.30/2017

CRYP001 - Cryptomeria japonica 'Dinger' - 4 ft. tall x 3 ft. wide, compact, subglobose overall but like a medusa-head of many narrowly ramified limbs, being a witches broom from 'Araucarioides', irregularly and slightly twisted cord-like shoots, others more stable and bottle-brush like. Or: Japan. In: www.iselinursery.com, online 2016-17 catalog, accessed 10.5.2016

Cryptomeria japonica 'Champagne' - white-variegated version of white-tipped 'Nana Albospica' with more color, faster than it, 6 ft. tall in 10 years. Camellia Forest Nursery, www.camforest.com, accessed 12.22.2017

Cryptomeria japonica 'Funny' - <https://grootgroenplus.nl/cryptomeria-japonica-funny>, accessed 10.8.2018

Cytisus scoparius SISTER DISCO™ 'SMNCSCRY' - 1-3 ft tall, short for this species. Flowers distinctly bicolor, rich gold marked dark red, similar to 'Madame

Butterfly' but on neater, smaller plants. So, in: http://springmeadownursery.com/plants_details.php?id=22410, accessed 10.31.2017

Cytisus scopariuis SISTER REDHEAD™

Cytisus scopariuis SISTER ROSIE™

PENDING - INVALID POST-1959 LATIN NAME - x Cupressocyparis leylandii 'Pyramidalis Aurea' - 4m tall x 1.5m wide, pyramidal but somewhat open, elegant, and irregular, foliage sprays a very rich golden, becoming lime green, thus a mix of those general colors. Or: Tesi and Ubaldo, Italy. In: <https://www.pepinieres-minier.fr/produit/cupressocyparis-leylandii-pyramidalis-aurea>, accessed 12.27.2017

x Cupressocyparis 'Murray' - <https://murraycypress.com/murraycypress.html>, accessed 10.8.2018

Cupressus arizonica BLUE STEEL™ 'Midlothian BB' - <http://www.gardendebut.com/plant/Blue-Steel-Arizona-Cypress>, accessed 10.8.2018

DAPH001 - *Daphne x houtteana* 'February Plum' (Monrovia) - 2-3 ft. tall x wide, subglobose, slow in growth. Leaves at first rich green, later very purple to blackish-green, sometimes near true black, species is called "Black-leaved Daphne", improved for darkness of leaf color. Flowers purplish-pink, a plum shade. USDA 6 HARDINESS, semi-evergreen in many climates. Web: <http://www.monrovia.com/plant-catalog/plants/2919/february-plum-daphne/>

DAPH002 - *Daphne odora* 'Maejima' (Wayside Gardens) - 3-4 ft. tall x wide, globose. Leaves broadly margined cream to light yellow, a wider margin than traditional marginate cultivar of this species, sometimes up to 25-35% of blade surface. Web: <http://www.monrovia.com/plant-catalog/plants/4479/maejima-variegated-winter-daphne/>

DAPH003 - *Daphne bholua* 'Cobhay Debut' (1/2017)

fc: corolla slight paler pink than species typical

lc: rich glossy green

ld: more evergreen tendencies

or: www.junker.co.uk, accessed 1.8.2017, their own selection, from seed collected by Sir Peter Smithers in Daman Ridge, Nepals, 1970

DAPH004 - *Daphne bholua* 'Cobhay Snow' (1/2017)

or: www.junker.co.uk, accessed 1.8.2017, their own selection, not described, presumably white-flowered(?)

DAPH005 - *Daphne bholua* 'Lympsfield' (1/2017)

in: Roy Lancaster

so: www.junker.co.uk, accessed 1.8.2017, not described

DAPH006 - *Daphne odora* 'Ripple' (1/2017)

lc: glossy dark green, margined cream at 8-20% of surface, most wide towards the apex, though quite variable

lm: undulate unlike most other white to cream-edged clones

or, in: Sam Allen, Clayton, North Carolina.

lsp: Raulston Arboretum #150003, received 1.13.2015

DAPH007 - *Daphne odora* 'Shinano Nishiki' (1/2017)

lc: from JCRA image (website accessed 1.8.2017) very variable chimera, gold-centered at 50-90% surface,

lc: some blades more marginal or half gold. The Japanese website <http://global.rakuten.com/en/store/chigusa/item/10019130/>, accessed

lc: 1.8.2017 shows a yellowish-cream margin of 15-25% surface, silvery green center, though up to 80% on some blades,

lc: not nearly as gold as the JCRA photo (though admittedly a very tiny plant). See also the image here: <http://cocaz.exblog.jp/i61/>

lc: and http://pds.exblog.jp/pds/1/201503/01/23/b0160123_12353274.jpg (Atelier Botanique, accessed 1.8.2017).

lc: which suggests a greenish-gold submargin (green thin edge outside the gold margin), chimera easily 50% of the surface.

lsp: Raulston Arboretum #110734, received 3.27.2011. Additional history and images are welcome.

DAPH008 - *Daphne odora* 'Wild Winter' (1/2017)

lsp: Raulston Arboretum #160025, received 1.25.2016, not described

DAPH009 - *Daphne wolongensis* 'Guardman' (1/2017)

ha: more erect, hence a guard-like pose

ld: evergreen

lc: dark green

www.cultiva.com

fc: rich pink
so: www.junker.co.uk, accessed 1.8.2017

DAPNI001 - *Daphniphyllum teijsmannii* 'Mountain Dove', a ghostly marginated and sectored sport with contrasty violet-red petioles. Click image to enlarge. Image above is not part of OROC Data Sharing and must not be used.

DAVI001 - *Davidia involucrata* 'Aya Nishiki' (5/6)

lc: wide creamy-white margins becoming mottled bluish-green,

lc: white, and green. On the Buchholz website the margins are rich yellow, some are submarginal with banding.

or, pat: Akira Shibamichi, Japan, as seedling, US Patent applied for 5/11/2006

so, ph: http://www.buchholznursery.com/plant_page.html?id=26c354

DAVI002 - *Davidia involucrata* 'China Compact' (2/10)

ha: smaller, more compact

so, in: <http://www.buchholznursery.com> (online catalog Feb. 14, 2010)

REGISTRATION PENDING NEW NAME - *Davidia involucrata* 'Columnaris' invalid post-1959 Latin name (6/7)

ha: upright

ns: requires a new, valid vernacular name if proven of interest.

so: www.bloomrive.com (online catalog 2007)

DAVI003 - *Davidia involucrata* 'Crimson Spring' (6/7)

lc: burgundy-red new growth, later more bronze-red, then more green

so: www.bigdipperfarm.com (online catalog 2007)

so: www.greergardens.com (online catalog 2007)

DAVI012 - *Davidia involucrata* 'Iseli Fastigate' (10/2013)

ha: narrowly erect.

or: Iseli Nursery, Oregon, introduced 2013, from a distinct narrow seedling

DAVI013 - *Davidia involucrata* 'Lady Dahlia' - leaves irregularly centered yellowish-green to chartreuse aka "gold", marginal serrate tips reddish in sun, chimera about 20-55% of surface, very irregularly in terms of multi-branched sectors or a very open "tree" of paler tissue. Imaged at the Raulston Arboretum (April 2016). It is sold by Buchholz and Broken Arrow nurseries in the US this spring of 2016 as well as Esveld.nl in Europe. It should not be confused with 'Lady Sunshine' with a massively, truly yellow to creamy-yellow. If our math holds here, we now have a shocking seven cultivars of variegated *Davidia* and still not one that blooms from young, tiny trees! You get what can get, I suppose.

DAVI014 – *Davidia involucrata* 'Lady Sunshine'

lc: broadly and irregularly margined yellow, chimera about 25–45% surface, very large and wide, fading more to cream edges, the

lc: center more of an irregularly grayish–green and green sectored "tree" shape with maturity. New growth is very bright.

lc: This is a classic gold marginate sport and not like 'Aya Nishiki' which often shows submarginal banding of 2–3 colors.

lc: The blade has some texturing, rugosity or minute puckering which adds curious and lovely shadows.

Or: Crispin Silva, Oregon, USA

In, so: <http://www.bluebellnursery.com/catalogue/trees/Davidia/D/8733928>, accessed 10.12.2016

Ph: <http://florawonder.blogspot.com/2013/08/favorite-chinese-species.html>

DAVI004 – *Davidia involucrata* 'Kylees Columnar' (2/10)

ht: 10 ft. tall x 2 ft. wide (10 years)

ha: columnar, pillar–like

so, in: <http://www.buchholznursery.com> (online catalog Feb. 14, 2010)

DAVI005 – *Davidia involucrata* 'Platt's Variegated' (2/5)

lc: variably mottled and sectored white

or: Platt Garden, Portland OR USA as seedling

so: [Collectors Nursery](#) (online catalog 2005)

DAVI006 – *Davidia involucrata* 'Purpleleaf' (5/6) provisional name

lc: dark burgundy to purple new growth (RHS 79A,B becoming 79B with 136C)

or, pat: Akira Shibamichi, Japan, as seedling, US Patent applied for 5/11/2006

ns: simple descriptive cultivar names such as "purpleleaf" are not allowed under

ns: the modern code. This clone needs a new name.

DAVI007 – *Davidia involucrata* 'Shibamachi Variegated' (2/10)

lc: broadly margined yellow (to 35%0, red tinged edge in fall

so, in: <http://www.buchholznursery.com> (online catalog Feb. 14, 2010)

DAVI008 – *Davidia involucrata* 'Sonoma' ('Sonoma Clone')

ht: 30–40 ft. tall x 25–30 ft. wide (as species?)

fq: more floriferous than species typical

fd: white bracts to 10 in. long – some species variants are 8 in. at the most

ns: probably belongs to var. *vilmoriniana* which is more common in gardens.

or: Sonoma Hort. Nursery before 1984

DAVI009 – *Davidia involucrata* 'Sumako' (2/10)

so, in: <http://www.buchholznursery.com> (online catalog Feb. 14, 2010, name only, not described)

DAVI010 – *Davidia involucrata* 'Variegata' post-1959 illegit. name (2/2010)

lc: mottled and sectored (20–50%) in bright golden–yellow

so, in: <http://www.buchholznursery.com> (online catalog Feb. 14, 2010)

DAVI011 – *Davidia involucrata* 'White Dust' (2/2010)

lc: subtly spotted white and pale green (30–60%), no bold sectors

lc: or zones

so, in: <http://www.buchholznursery.com> (online catalog Feb. 14, 2010)

DEUT001 *Deutzia hookeriana* 'Carolyn Hardy' (RHS, Nomenclatural Standard, JSTOR)

DEUT002 - *Deutzia* YUKI SNOWFLAKE™ 'NCDX1' - Or: US PPAF, Dr. Thomas Ranney

DEUT003 - *Deutzia* YUKI CHERRY BLOSSOM™ 'NCDX2' - 24cm tall (3 years per US PPAF), expected to be 2 ft. tall x 3 ft. wide in general landscape use, low-growing, arching-spreading, flowers white striped in pink, abundant, leaves tinged bronze-purple in fall. Or: US PPAF to Dr. Thomas Ranney, Raleigh, North Carolina on 1.28.2016 as cross of *D. gracilis* 'Nikko' x *D. x rosea* 'Carminea'. Appears to be the first very low, groundcover-sized cultivar with pink flowers. Web: <http://www.ces.ncsu.edu/fletcher/mcilab/introductions/yuki-cherry-blossom-deutzia.html>

DEUT004 - *Deutzia* 'Iris Alford' - web: <http://www.panglobalplants.com>, accessed 3.12.2017

DEUT005 - *Deutzia* 'Dark Eyes' - web: <http://www.panglobalplants.com>, accessed 3.12.2017

DEUT006 - *Deutzia calycosa* 'Dali' - web: <http://www.panglobalplants.com>, accessed 3.12.2017

DEUT007 - *Deutzia setchuenensis* var. *corymbiflora* 'Kiftsgate' - web: <http://www.panglobalplants.com>, accessed 3.12.2017

DIER001 - *Diervilla lonicera* EARLY BURGUNDY™ 'Gre Earl Bur' - 3-5 ft. tall x wide. Leaves dark burgundy red in new growth, becoming dark green. Flowers apparently typical. Web: www.gardendebut.com, accessed 5.22.2016, https://issuu.com/gardendebut/docs/2016_catalog-online/1

DIER002 - *Diervilla splendens* DIVA™ 'El Madrigal' - Leaves rich dark burgundy red to purplish-red, this dark color all summer, highly textured at times, giving much contrast to yellow flowers, even a richer red in fall. Pat: European PBR. In, ph: <http://www.newplants.nl/en/planten/d/diervilla-splendens-el-madrigal/>. accessed 10.4.2016

Diervilla rivularis KODIAK® Series (1/2017)
cultivars:

- DIER003 - KODIAK® BLACK 'SMNDRSF' - 3-4 ft. tall x 4-5 ft. wide, leaves glossy dark purple to dark burgundy-black, more intense in spring and summer.
- DIER004 - KODIAK® ORANGE 'G2X88544' - 3-4 ft. tall x 4-5 ft. wide, leaves rich dark orange to reddish-orange at first, more green later
- DIER005 - KODIAK® RED 'G2x885411' - 3-4 ft. tall x 4-5 ft. wide, leaves rich red in spring, becoming green margined and tinged red, new growth all summer remains red, red fall color

in: Spring Meadow Nursery and Proven Winners, c. 2013

PENDING - *Diervilla splendens* FIREFLY™ NIGHTGLOW™ - Web, in: <https://bloomineasyplants.com/plants/firefly-nightglow/>, accessed 3.13.2017. Note: the NIGHTGLOW™ name has also been used for 'El Madrigal'. It remains unclear if these are all the same taxon or if three different trademark names (adding DIVA) are being employed in various combinations.

Diervilla sessilifolia COOL SPLASH™ 'LPDC Podaras' - <http://www.firsteditionsplants.com/cool-splash-dwarf-bush-honeysuckle>, accessed 10.8.2018

Diervilla rivularis HONEYBEE™ 'Diwibru01' - <https://www.andre-briant.fr/en/the-novelties/access-to-our-new-plants/3648-diervilla-rivularis-honeybee-diwibru01-.html>

DIOS001- Diospyros virginiana MAGIC FOUNTAIN™ 'JN5' (Pleasant Run Nursery) - 10-12 ft. tall 5-10 ft. wide, distinctly weeping, inverted or columnar type weeper as young plants, apparently wider with age. Fruits present, female clone, maturing to yellow, edible after frost. Leaves red to yellow in fall, potentially semi-showy. Selected by Ray Jackson, Tennessee, USA.

DIOS002 - Diospyros kaki 'Shibamichi Weeping' - moderately to broadly weeping, a classic weeping, upper branches hooked and arching much as Fagus sylvatica 'Pendula', Fruit medium orange, a female clone. Selected by Akira Shibamichi, Japan, reported in the US c. 2014. It is readily distinct from MAGIC FOUNTAIN™ of another species by its wider, more open form, and much larger, more orange fruit. Web: <https://jcraulstonarboretum.wordpress.com/>

DISE001 - Diselma archeri 'Read Dwarf' - 1 ft. tall x 2 ft. wide, groundcover conifer. Leaves rich green. USDA 8. Suitable where hardy like any dwarf Chamaecyparis or Juniperus clone. Or, in: Iseli Nursery, www.iselinursery.com, accessed 5.22.2016

DIST001 - Distylium CINNAMON GIRL™ 'PIIDIST-V' - 2-3 ft. tall x 2-4 ft. wide, mounded, somewhat decumbent, "a more refined look than other Distylium on the market" (originator). Leaves small, fine-textured, showy plum purple in new growth, maturing to bluish-green. USDA 7, survived 4-6 deg. F. in above ground container without injury. Or: www.plantinroductions.com, selected 2013-14. accessed 6.15.2016, see <http://www.plantinroductions.com/cinnamongirl8482distylium.html>

DIST002 - Distylium LINEBACKER™ - <http://www.plantinroductions.com/linebacker8482distylium.html>

DIST003 - Distylium 'Athens Tower' - 6-6 ft. tall x 4-5 ft. wide, upright to vase-shaped. Leaves dark green, very obtuse, thick. web, photo: <http://www.hawksridgefarms.com/viewplant.php?id=1795>, accessed 3.13.2017

DIST004 - Distylium SWING LOW™ 'PIIDIST-VI' - 2-3 ft. tall x 4-6 ft. wide, low, dense, prostrate, horizontally branched, more compact and low than CINNAMON GIRL in Bailey Nurseries trials, leaves bluish-green. Or, web: Plant Introductions Inc. selected in 2016 after one of the hottest summers in Georgia, USA on record. https://www.baileynurseries.com/media/wysiwyg/bn/our-brands/firsteditions/marketing/brochures/downloads/FE-New_Varieties_2017.pdf, accessed 5.10/2017

Edgeworthia chrysantha 'Hawksridge' - 4 ft. tall x wide, about half the size of 'Snow Cream' and other similar, improved traits. In: Camellia Forest Nursery, www.camforest.com, accessed 12.22.2017

ELAE001 - Elaeagnus x ebbingei OLIVE MARTINI™ 'Viveleg' (Star Roses and Plants) - 10-15 ft. tall x wide, apparently typical species vigor, upright, dense, more upright and stronger in trials than 'Gilt Edge'. Leaves very dark olive green (base color darker than 'Gilt Edge'), margined light yellow at 10-20% surface, more stable chimera than 'Gilt Edge'. US Plant Patent #20177 on July 7, 2009 to Christian Vivies, France as sport appearing in Toulouse, France.

ELAE002 - Elaeagnus x ebbingei MARYLINE® 'Abrela' - leaves centered light yellow to 90% or more of surface, this chimera becoming dark yellow as leaf ages, uniform coloration and one of the most chimera-rich clones known in the genus. Or: Albert Breneliere.

ELAE003 - Elaeagnus umbellatus 'Sweet n' Tart' - vigorous, deciduous. Flowers numerous, white, scented. Fruit red, flavorful, tart, sweet as the name implies. web: <http://www.panglobalplants.com>, accessed 3.12.2017

ECARP001 - Elaeocarpus decipiens LITTLE EMPEROR® 'MonProud' - 6-8 ft. tall and wide, likely 10 ft. tall x wide with some age, compact, narrowly pyramidal to columnar, slower growth rate, shorter internodes than typical. Leaves elliptic, undulate, slightly twisting, 8.4cm long x 2.3 cm wide (smaller than either parent), venation more pronounced than species typical or either parent, bronze-colored at first, later glossy, dark green, some older leaves red before they drop. Ch: USDA 8. Pat, Or: US# 17611 on April 17, 2007 to Andrew Scott Proud, Glendora, California USA as cross of two unnamed selections 2001.

ENKI001 - Enkianthus campanulatus 'Lipstick' (Rare Find Nursery) - flower corolla white, about 20-25% surface at the apex bright hot pink, not blushed but strongly marked, contrasting much. Rare Find Nursery selection.

ENKI002 - Enkianthus campanulatus 'Bruce Briggs' - flower corolla nearly 100% bright pinkish-red red, only the small green calyx giving contrast. Selected Weston Nurseries, Mass., USA by Chris Rogers, Propagator, 1980's, only recently in the the US trade under this name, c. 2015, sometimes called "Weston red seedling" or similar before. westonnurseries.com, accessed 5.5.2015 does not mention it but shows 'Red Velvet' which we believe to have slightly pink tips over a mostly red corolla and not the same clone. Said to be named for the founder of Briggs Nursery, Washington, USA who list it.

EUCA001 - Eucalyptus gunnii FRANCE BLEU® (Sapho.fr) - one of the frosty blue clones ever.

EUCA002 - Eucalyptus gunnii AZURA® 'Cagire' - 4m (10 years) where cold hardy, habit neater ,more compact, branching more ornamental, and yet more vigorous than random seedlings. Leaves rich azure blue, appearing quite silvery-glaucous in bright light, darker in shade. More cold hardy in French trials, proven one of the most cold tolerant clones in this species, handling up to -18 to -20 Deg. C. in France. It survived when other seedlings died. Roots in high percentagres, even from coppaced shoots. Eur PBR to Afocel, France.It should be regarded as one of the most cold hardy and proven ornamental clones in the genus today (May 2015).

EUCA003 - Eucalyptus cladocalyx VINTAGE RED™ 'EUC78' - 6-8 m tall x 3-4 m wide as small tree, can be trimmed lower as shrub or hedge at 2-4 m tall. Stems dark red to blackish-red, maturing to purple and grey tones, bark smooth, grey, exfoliating with age. Leaves bright red at first, almost a coral-red shade, becoming rich dark burgundy and effectively a dark purple from the distance as seen in the above image. It is the first red-leaved clone in this genus in terms of the entire canopy color (not just red tips) and this dark color persisting all year. Dr: high myrtle rust resistance. Photo above courtesy of and copyright owned by Oxbreed Nursery, In: <http://ozbreed.com.au/advanced-trees/vintage-red-eucalyptus-is-a-landscape-tree-with-red-foliage-advanced-trees-range/>, accessed 8.10/2016, grown on "elite understock" from CSIRO which improved on earlier trials where the top might outgrow the understock. If I did not know better I'd guess this was a new beech, *Fagus sylvatica* 'Rotundifolia Purpurea'.

EUON001 - Euonymus fortunei DAN'S DELIGHT 'Dandel' - 40cm tall x 60cm wide, compact, dense. Leaves very dark green, margined white to 50-90% or surface, on older mature leaves this white is very clean, bright, not creamy nor muddled in gray tones, one of the most white intense clones reported (May 2015), new tips a bit more yellow to cream in the chimera. Holds color all year where hardy. Selected by Dan Barnet, England, Eur PBR #2014-0121, intro. 2013

EUON002 - Euonymus alata 'Russell Milstead' (Song Sparrow Nursery, Klehm) - 3-5 ft. tall x wide (5 years), dense, subglobose. Leaves a very intense, bright ruby red in fall. USDA 4 hardiness.

EUON003 - Euonymus fortunei WHITE ALBUM™ 'Alban' - low, dense mound, better form than similar Emerald Gaiety'. Leafspot resistant. Leaves with very wide white to light cream margins. Springmeadownursery.com, accessed April 2013.

EUON004 - Euonymus alatus 'Firecloud' - 4-5 ft. tall, smaller than species typical. leaves dark green, "evenly splashed with cream". www.cistus.com, accessed 3.29.2016, named by them

EUON005 - Euonymus japonicus 'Yellow Pansy' - 1.5m tall (10 years). Leaves in spring bright "pansy yellow", later more typical green. In: <http://www.hkolster.nl/nieuw/sortimentslijst-uk.html>, accessed 10.11.2016

EUON006 - Euonymus planipes 'Gold Ore' - leaves mottled and selected gold to yellow, chimera up to 50% coverage. In: <http://www.hkolster.nl/nieuw/sortimentslijst-uk.html>, accessed 10.11.2016, best image at: <http://www.hkolster.nl/home-nl/+fotobestanden/+euonymusplanipesgoldore2.htm>

EUON007 - Euonymus japonicus EL DORADO™ 'BR2012' - 60cm x 25cm wide. Leaves larger, bright yellow, remaining so most of the year.

EUON008 - Euonymus grandiflorus (carnosus) RUBY WINE® - 1.5-2.5m tall x 1-2m wide. Leaves very showy dark wine red in fall. Fruit showy as the species. Or: Minier Nurseries, France, 2014.

EUON009 - Euonymus alatus UNFORGETTABLE FIRE™ 'Hayman' (1/2017)

ht: 5-7 ft. tall x wide, tallish but very compact, dense, finely branched

ll: smaller than species typical

lc: very rich reddish-magenta to bright red shades in fall, reliably and uniformly so

or: Michael Hayman, Louisville, Kentucky USA

pat: US#21634, CBR# 4389

in: Spring Meadow Nursery

EUON010 - Euonymus fortunei 'Horts Blaze' (1/2017)

ht: 25cm at first, 50-100cm x 150cm or more (10 years)

ha: mat-forming, very strong

lc: rich green most of the year, reddish-brown in winter

ls: narrowly ovate to elliptic-ovate

lm: minustes serrate to finely subcrenate.

in: Europe bef. 2015

ph: <http://bodembedekkerstegenonkruid.nl/bodembedekkers/kardinaalshoed/>, accessed 1.11.2017, showing winter coloration

EUON011 - *Euonymus fortunei* 'Prince John' (1/2017)

lc: broadly margined creamy-yellow to cream, chimera easily 25-40% of surface.

EUON012- *Euonymus fortunei* SILVER CARPET® 'Hein's Silver' (1/2017)

ht: 15-20cm tall x wider

ha: prostrate to procumbent, carpet-like, said to be slow and compact, restrained even, suitable for containers

lc: broadly margined cream to silvery-white, chimera 15-40% surface, variably so, midrib often this same chimeral color
or, in: Competition Plant Products 2009 by Roman Bodnar, apparently selected by Sneijers Boomkwekerij

EUON013 - *Euonymus japonicus* GREEN MILLENIUM® 'Minmil' (1/2017)

ha: erect, intended as a strong hedge

lc: bright green

pat: Eur. PBR

Rejected - *Euonymus japonicus* GREEN ROCKET - a synonym of the Japanese clone 'Bekomasaki' and like 'Green Spire' a rename of it

EUON014 - *Euonymus japonicus* GOLDMINE SENSE™ 'Charles' (1/2017)

st: palish, lime green, showy

lc: new tips bright gold for up to 20 leaves, becoming green with a thin lime margin

Or: Asra Plant, Belgium, introduced at Plantarium in 2015

web: <http://senseofnature.nl/planten/euonymus-jap-goldmine-sense>, accessed 1.14.2017

EUON015 - *Euonymus japonicus* Microphyllus Group 'Edward King' ('Microphyllus Variegatus' in part)

ls, ll: smaller more elliptic blade as the Group

lc: thinly margined cream, later more of a cleaner white edge, chimera 2-7% surface, bright green center

EUON016 - *Euonymus japonicus* 'Carnival Candle' <http://www.botanyplants.co.uk/wp-content/uploads/2012/09/Shrub.pdf>, 2002

lc: golden tips in February ("carnival time"), more or all green later

or: Botanyplants.co.uk, their own selection, prior to the 2002 catalog listing

EUON017 - *Euonymus japonicus* 'Chedju' (1/2017) - lc: margins cream on green, center of blade a mix of green, gray and cream shades.

EUON018 - *Euonymus japonicus* 'Huayuanfa' - small, evergreen tree, dark green above, light green below, green all winter without defoliation. Fruits bright red, showy. More cold resistant. Or: Beijing Acad. Agr. For., China. web: http://en.cnki.com.cn/Article_en/CJFDTOTAL-LYKE201604019.htm, accessed 5.1.2017

Euonymus americanus 'Green Tapestry' - leaves variegated. so: <http://www.pavia.be/catalogue/>, accessed 12.30/2017

Euonymus cornutus 'El Torro' - larger winger than species typical- so: <http://www.pavia.be/catalogue/>, accessed 12.30/2017

Euonymus japonicus 'Lime Green' - https://grootgroenplus.nl/uploads/2018/noviteiten/EUONYMUS_JAPONICUS_LIME_GREEN.pdf, accessed 10.8.2018

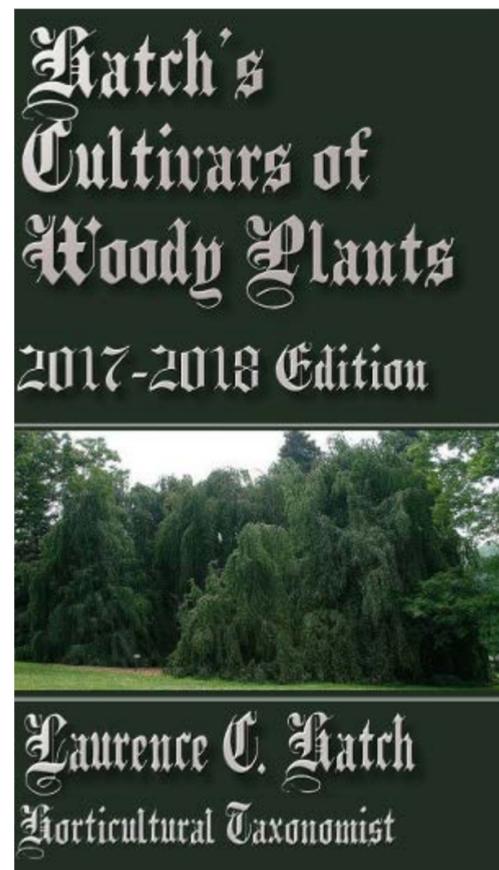
Euonymus 'EUJACODEK' - <https://patents.justia.com/patents-by-us-classification/PLT/246>, accessed 10.8.2018

Euonymus japonicus 'HEESMIK' - <https://patents.justia.com/patents-by-us-classification/PLT/246>, accessed 10.8.2018

EXOC001 - *Exochorda racemosa* 'Snow Mountain' - 5-6 ft. tall x 5-6 ft. wide, globose. Flowers 3-4cm wide, 5cm deep, very abundant, blooming from the bottom to the top of the plant, giving a more enduring, impressive show. Propagated easily with softwood stem cuttings unlike 'The Bride' which is somewhat difficult.

USDA 4 hardy. US Plant Patent #25473 on May 28, 2015 to Herman Geers, Netherlands, a controlled cross 1994, selected in 1997 as the best seedling. Marketed in US by Blooming Easy, PPAF. 'The Pearl' has larger flowers but is much taller.

EXOC002 - Exochorda SNOW DAY® SURPRISE 'Niagara' - 36-48 in. tall x wide, a true dwarf, upright-mounded to loose spreading, yet compact. Flowers 3.3cm wide, inflor. to 5.2cm long, very abundant, mostly in large terminal racemes. Roots well from cuttings. US Plant Patent # 21665 to Herman Geers, cross of E. macrantha 'The Bride' and unnamed E. racemosa in 1994 assigned to Spring Meadow Nursery, widely sold by Proven Winners in 2015.



CULTIVARS OF WOODY PLANTS (CWP) is your guide to over 105 Fagus cultivars. Your purchase of CWP, a massive, detailed, 4000-page PDF encyclopedia of trees was written over 38 years. It goes anywhere you do on your phone, tablet, laptop, etc. Please visit www.cultivar.org for subscription information.

FAGU001 Fagus grandifolia 'White Lightning' (Mark Weathington, HortScience) - paid access to official cultivar release. The original data is from JC Raulston Arboretum website of their new, dwarf and weeping cultivar of the native, American beech species: <http://jcra.ncsu.edu/horticulture/our-plants/results-by-name-serial-number.php?serial=120165>

Ph: Image above copyright owned by and courtesy of Laurence C. Hatch, imaged at the JC Raulston Arboretum.

FAGU002 - Fagus grandifolia DIAMONDBACK™ (Ferncliff Cemetery). Legacy cultivar. Previously published in Cultivars of Woody Plants

FAGU003 - Fagus sylvatica 'Callista' - as 'Dawyckii' but slower, much denser, semi-dwarf, 2m tall in 10 years. Leaves typical green. hgeersnl, accessed 5.26.2015

FAGU004 - Fagus sylvatica 'Eugen' - a semi-dwarf form, often more spreading than typical species, thus may be wider than tall. Leaves with a distinct obtuse, more rounded apex. It is sometimes referred to as 'Fruticosa Eugen' (sophora.pl, accessed 5.31.2015), in connection with a post-1959 Latin cultivar name for shrubby, dwarf forms called 'Fruticosa' (fruticose=shrubby in Latin). Thought to be of Czech origin.

FAGU005 - Fagus sylvatica 'Londal Kribbebuk' - very low contorted-weeping to spreading mound if grafted low, otherwise like a mix of 'Pendula' and 'Tortuosa' if grafted higher, a "cascading carpet" by one account.

FAGU006 - Fagus sylvatica 'Sandrode' - sport of the linear-bladed 'Mercedes', also semi-dwarf, dense, compact, can be upright to ovoid, but blades saw-toothed or boldly dentate, more like true 'Laciniata' than 'Asplendifolia' (ie. shallower incisions, symmetrical blade), also more undulate than 'Laciniata'. The name translates to "red sand", possibly because of the red to sandy yellow fall colors?FAGU

FAGU007 - Fagus sylvatica 'Tur' - leaves very large to 11cm long, richly textured (sunken veins), very dark purple, more so than either 'Spaethiana'. Hulsdonk.com, accessed 5.31.2015

FAGU008 - *Fagus sylvatica* 'Goldzack' - leaves golden-yellow becoming green by summer.

FAGU009 - *Fagus grandifolia* 'Umbrella' - canopy shaped as the name implies, mounded, mushroom-like, irregularly branched. Should be compared to 'White Lightning' which appears to have very similar habit traits. In: <http://www.coniferkingdom.com>, accessed 10.12.2016

Fagus sylvatica 'Inanna' - so: <http://www.pavia.be/catalogue/>, accessed 12.30/2017, listed name only

FARG001 - *Fargesia murielae* 'Elias' - 50-60cm tall x 100cm wide, compact, slower, not invasive, mounded with age. Or: Frank Schnuper.

FARG002 - *Fargesia* OBELISK® (*F. nitida* x *F. murielae*) - clump distinctly erect, columnar at first, compact, dense, not invasive. Ch: hardy to -25 deg. C. Or: Han Verweih, Het Grassnerf, intro. about 2014.

In, ph: <http://www.breederplants.nl/en/portfolio/shrubs/item/159-fargesia-obelisk-pbr>, accessed 10.15.2016

Fargesia murielae 'Tansley Gem' - habit more compact, smaller, Or: Whitelea Nursery, Web: <http://www.genesis-plantmarketing.co.uk/portfolio/fargesia-x-murielae/>, accessed 12.30.2017

FATS001 – *Fatsia japonica* 'Spilt Milk' – glossy green, margined and splashed cream to white. Cistus.com, accessed 4.22.2015, their own selection

FATS002 – *Fatsia polycarpa* 'Needham's Lace' – 10 ft. tall or larger. Leaves suffused silver over green, major veins much whiter. Edward Needham selection.

FICU001 - *Ficus afghanistanica* 'Silver Lyre' - 20 ft. tall x 10 ft. where fully cold hardy, very vigorous. Leaves deeply lobed, incised, "snowflake-shaped", silvery silvery-green to light silver (much greener in species typical). USDA 7b. Sean Hogan (cistus.com), accessed 4.22.2015. This species is cold hardy in 7b and higher with distinctly incised and showy blades not unlike a cut-leaved mulberry or *Ficus carica* but usually smaller and quite artistic and showy as such.

FICU002 - *Ficus afghanistanica* 'Green Filigree' - 15-20 ft. tall, similar to species. Leaves "intricately lobed, filigreed...deep green". Or, in: www.cistus.com, accessed 3.29.201- www.cistus.com, their own introduction

FICU003 - *Ficus afghanistanica* 'Dwarf Green Filigree' - 3 ft. tall in many years, smaller than species and 'Green Filigree'. Leaves finely incised, filigreed, lacy. Or, in: www.cistus.com, accessed 3.29.2016, their own introduction.

FICU004 - *Ficus carica* MISS LITTLE FIGGY™ 'MAJOAM' - 4-6 ft. tall x 3-4 ft. wide, dwarf to semi-dwarf. Leaves bluish-green, deeply lobed. Fruit dark purple. Ornamental-edible niche. <http://www.gardendebut.com/plant/Little-Miss-Figgy-Dwarf-Fig>, accessed 9.20.2016

FICUS005 - *Ficus palmata* subsp. *virgata* 'Icebox' - 12 ft. tall x 18 ft. wide, stems hairy, semi-showy. Leaves very broadly ovate to suborbicular, dark bluish-green to dusky green, tropical in effect Ch: USDA 7b, having survived 7 deg. F. without protection. Or, so: <https://www.plantdelights.com/collections/ficus/products/ficus-palmata-icebox>, accessed 5.1.2017, their selection from seed collected by Chris Chadwell at 6900 ft. in Kumaon, India, this selection not dying back in USDA 7b as species typical.

FORS001 - *Forsythia x intermedia* MAGICAL® GOLD 'Kolgold' (Monrovia) - 3-5 ft. tall x 3-4 ft. wide. Flowers extra large, floriferous, covering nearly every stem of new and old wood, one of a few that bloom from both. Therefore useful as a long cut flowering spray. Leaves a rich green. Bred by Peter Kolster.

FORS002 - *Forsythia x intermedia* 'Nimbus' (Minier Nurseries) - compact (more so than parent 'Courtijau'), upright to outwardly spreading, vigorous (more than parent 'Courtijau'), freely branched, dense. Flowers numerous, longer blooming and also earlier than parent 'Courtijau'. Phytophthora resistant. US Plant Patent #23838 on August 20, 2013 to Patrick Pineau, cross of 'Courtijau' x unknown male clone, 2004, selected 2006, assigned to Pepinieres Minier.

FORS003 - *Forsythia koreana* FLYING MACHINE™ 'Sunny' - <https://springmeadownursery.com/plantfinder/flying-machine-26150>, accessed 10.8.2018

FOTH001 - *Fothergilla gardenii* 'Bill's True Dwarf' (Rare Find Nursery)

FOTH002 - *Fothergilla x intermedia* LEGEND OF THE FALL™ 'Alice' - <https://springmeadownursery.com/plantfinder/legend-of-the-fall-27190>, accessed 10.8.2018

FRAN001 - *Franklinia alatamaha* 'Ben's Best' (Rare Find Nursery) - "a particularly vigorous form" (RFN, website, accessed 10.2.2016). Or: Hank Schannen

FRAX001 - Fraxinus pennsylvanica TROJAN™ 'Durcd' - upright-pyramidal, compact. Very cold hardy. Male, seedless. Or: Rick Durand, Winkler, Manitoba, Canada. Web: <http://www.advancenursery.ca/new-exclusive.htm>, accessed 1.2.2017

FRAX002 - Fraxinus americana NOBILITY® 'Jefwis' - 50 ft. tall x 30 ft. wide, upright-pyramidal, good vigor, bark resistant to frost cracking, a concern in very cold regions, "hardening off" earlier in the fall than any other clone of the species, a true advantage in cold areas. Leaves dark green, reliably showy and early dark purple fall color. Male, seedless. Dr: resistant to cottony psyllid and ash flower gall mite. Ch: USDA 3a, more cold hardy than typical, possibly to USDA 2 but not yet proven. Or: Dr. Philip Ronald, a superior seedling out of 143 elite seedlings tested near Portage la Prairie, Manitoba, Canada, derived from a population of seedlings collected from a single maternal tree in northern Wisconsin. Web: <http://www.jeffriesnurseries.com/Nobility.pdf>, accessed 1.14.2017

FRAX003 - Fraxinus americana CALYPSO™ 'DurKar' - 16m tall x 12m wide, pyramidal with age. Leaves green, purplish in fall. More cold hardy.

FRAX004 - Fraxinus americana TUXEDO™ 'DurGar' - 12m tall x 9m wide. Leaves rich purple in fall, showy. Male, seedless. More cold hardy.

FRAX005 - Fraxinus excelsior 'Diggi Saule' - dwarf, very compact, globose-headed, 5 cm growth per year, leaves dark green.

GARD001 - Gardenia jasminoides (G. augusta) 'Golden Doubloons' named by Nurseries Caroliniana and seen here at the Raulston Arboretum Lathouse is the first highly variegated, very gold clone. It looks rather lime and chartreuse here in spring 2014 but will get goldier with time. It's a very interesting new plant.

GARD002 - Gardenia jasminoides 'Cream Picotee' - 3-4 ft. tall x 2-3 ft. wide. Flowers semi-double, large, similar to 'Chuck Hayes'. Leaves "smallish, shiny, green...both streaked and spotted creamy whites". Or, in: www.cistus.com, accessed 3.29.2016, their own intro. Gardenia jasminoides 'Cream Picotee' - 3-4 ft. tall x 2-3 ft. wide. Flowers semi-double, large, similar to 'Chuck Hayes'. Leaves "smallish, shiny, green...both streaked and spotted creamy whites". Or, in: www.cistus.com, accessed 3.29.2016, their own intro.

GARD003 - Gardenia jasminoides COCONUT MAGIC™ 'Extra Large Cream' - 48 in. tall x wide, flowers large at 5-6. in wide, double, creamy-white. Ball Ornamentals exclusive, accessed 1.16.2016

GARD004 - Gardenia jasminoides BITTY BOUTONNIERE™ 'Leethree' - 2.5 ft. tall x 3.5 ft. wide, compact, mounded. Flowers single, radial ("daisy-like"), very small (5.5cm wide), highly scented. Intro. Home Garden TV (HGTV) 2015. Or, pat: Robert Lee, Independence, Louisiana, US PPAF files 8.11.2014, open-pollinated from 'Daisy'.

GARD005 - Gardenia jasminoides 'Leefour' - 60cm tall x 50cm wide, upright, vigorous yet remaining compact, more adapted to US southern gardens, more heat tolerant, larger and stronger than parent 'Daisy'. Leaves glossy, dark green, 6.0cm long x 2.8cm wide. Flowers highly scented. Or, pat: Robert Lee, Independence, Louisiana, US PPAF files 8.11.2014, open-pollinated from 'Daisy'.

GARD006 - Gardenia jasminoides ScentAmazing™ 'Leetwo' - 3-4 ft. tall x 4 ft., wide, habit compact, very dense, smaller and stronger than parent 'Daisy'. Leaves darker green and more glossy than parent 'Daisy'. Flowers small, very highly scented, single, radial petals, blooming early and over a long period. Very heat tolerant, more suitable for US southern garden conditions. Or, pat: Robert Lee, Independence, Louisiana, US PPAF files 8.11.2014, open-pollinated from 'Daisy'. Intro: Southern Living Plant Collection.

GARD007 - Gardenia jasminoides 'Genie-2' - dense, low-growing, 60cm tall (2 years). Leaves dark green, 60mm long x 15mm wide. Flowers 5cm wide, petals 30mm long x 20mm wide, double in 3 whorls. Prop: roots easily from cuttings. Pat, or: US# 26734 on May 17, 2016 to Allyn Cook, Gainesville, Florida, USA as seedling of stock in Alachua, Florida.

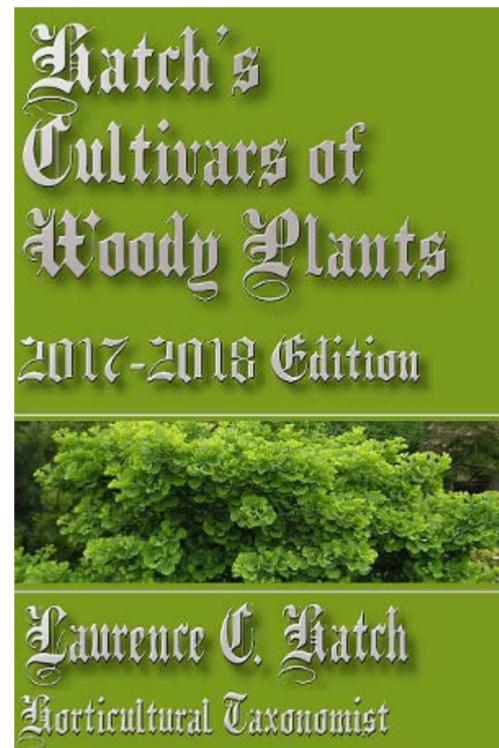
GARD008 - Gardenia jasminoides var. radicans O SO FINE™ 'KEN04' - 30 cm tall x 100 cm wide, mounding to groundcover type, "dwarf form with softer appearance", short internodes, finely-textured. Flowers white, more numerous than typical for groundcover types. Or: Kenhurst Nursery, as sport. In: Oxbreed Nursery. Aw: Gold Award, Green Expo Sydney. Web: <http://ozbreed.com.au/hardy-exotic-range/o-so-fine-gardenia-is-a-finer-leaf-groundcover-plant-with-masses-of-white-flowers-hardy-exotic-range/>

GARD009 - Gardenia jasminoides SNOW GIRL™ 'CP14ER789' - 24 in. tall x 36 in. wide, compact, mounded, semi-dwarf. Leaves small, very dark green, typical of modern dwarf singles. Flowers single, 5-petaled. very floriferous. In, ph: <http://www.hawksridgefarms.com/viewplant.php?id=2109>, accessed 10.7.2016

GAUL001 - Gaultheria procumbens COLOR SURPRISE™ 'SLAGMORR18' <https://grootgroenplus.nl/gaultheria-procumbens-slagmoer18-color-surprise>

GELS001 - Gelsemium JASMINE DUET® (G. rankinii x G. sempervirens) - said to combined the best traits of both southern US species, flowers very abundant,

corolla as in both species, long bloom period into winter. In, ph: <http://gardenersconfidence.com/plants/jasmine-duet-jessamine>, accessed 10.11.2016. Ns: the choice of the trademark name is perhaps unfortunate as this genus is not a Jasmine in any sense but by southern traditional, botanical and by folklore, the "Jessamine".



CULTIVARS OF WOODY PLANTS (CWP) is your guide to 203 Ginkgo cultivars. Your purchase of CWP, a massive, detailed, 4000-page PDF encyclopedia of tree was written over 38 years. Please visit www.cultivar.org for subscription information.

GINK001 - Ginkgo biloba 'Jagged Jade' - leaves thicker than parent 'Jade Butterfly' (sport of) and with a jagged, irregular sawtooth margin of irregular sizes, perhaps 25-45 teeth per blade. So: www.mrginkgo.com, accessed 5.16.2016

GINK002 - Ginkgo biloba f. fastigiata 'Grindstone' ('Grind Stone') - 30 ft. tall x 5 ft. wide, fastigiata to narrowly columnar. Or: from a notable tree in Grindstone Lake, New York, USA.

GINK003- Ginkgo biloba 'Folkert' ('Folkert's Select' invalid) - slow, dwarf. Leaves smaller. So: www.handynursery.com, accessed 5.6.16.2016

GINK004 - Ginkgo biloba 'All Gold' - leaves golden-yellow in spring, summer, and more so in fall, can burn in sun. In: Brent Markus per Mesterhazy, Conifer Treasury, accessed 5.21.2016

GINK005 - Ginkgo biloba 'Snow Cloud' - leaves heavily suffused yellow over most of the blade in spring and into summer, unlike most summer-gold ginkgos this one has a cloudy, creamy or whitish upper leaf margin, some leaves quite a pale yellowish-white. In: www.coniferkingdom.com, accessed 5.22.2016

GINK006 - Ginkgo biloba 'Slovakian Princess' - miniature from witches broom, dense. Leaves tiny, only about 1 inch wide, not a full fan but still bilobed most of the time, new growth distinctly folded and cup-shaped though not fused. In, ph: <http://www.coniferkingdom.com>, accessed 10.12.2016

GINK007 - Ginkgo biloba 'Crispins Jade Jester' - Leaves with the so-called "jagged" mutation, highly fasciated blade with much rugosity-ridging, the apical teeth (and of course there are dozens) of irregular size, thickness, and acuteness, also sectored and striped in light yellow to cream, even greenish-yellow, a chimera perhaps 30-45% surface, said by Whitman Farms to be "remarkably stable". Or: Crispin Silva. Web, so, in: <http://www.whitmanfarms.com/blog/crispins-jaded-jester-ginkgo/>, accessed 3.10.2017

GINK008 - Ginkgo biloba 'Xiajin' - leaves with long petiole, shallow lobing, undulate margin, very showy golden-yellow in spring and part of summer, later yellowish-green. Sex: female. Or: Tai'an City Academy of Forestry Science, selected from near An'lu, Hubai, China "after many years of observation". Li: <https://www.cabdirect.org/cabdirect/abstract/20103040424>, accessed 4.29.2017

GINK009 - Ginkgo biloba 'Jubao' - narrower crown (just 40cm wide in young trees), "ovate", compact, "all branches are obliquely growing and bending toward the trunk", longest limb 28-30cm wide. Leaves reduced, 3 cm x 4 cm wide. Sex: female. Or: Tai'an City Academy of Forestry Science, from a single tree in "a ginkgo resource garden"

GINK010 - Ginkgo biloba 'Songzhen' - leaves of three types, "trumpet-shape, fan-shape, and tube-shape appeared on the same branch....ornamental". Or: Tai'an City Academy of Forestry Science

GINK011 - Ginkgo biloba 'Taishanyulian' - branches drooping, leaves of two types, "one herringbone blade with a deep crack that reaches to vane [vein] base; another kind of blade with shallow or very shallow crack, narrow blade, fan-shaped or semiorbiculate", margins undulate or toothed with short lobing. Sex: female. Or: Tai'an City Academy of Forestry Science, from single tree at a "Ginkgo germplasm resource garden".GINK008 - Ginkgo biloba 'Xiajin' - leaves with long petiole, shallow lobing, undulate margin, very showy golden-yellow in spring and part of summer, later yellowish-green. Sex: female. Or: Tai'an City Academy of Forestry Science, selected from near An'lu, Hubai, China "after many years of observation". Li: <https://www.cabdirect.org/cabdirect/abstract/20103040424>, accessed 4.29.201017

GINK012 - Ginkgo biloba 'Survivor' - spreading-cascading to semi-weeping, semi-dwarf, leaves much narrow, often boldly bifid (2-lobed), usually longer than wide, some highly incised with additional lobes.

GINK013 - Ginkgo biloba 'Clica' - 50 cm tall (10 years), dwarf, subglobose, recommended for rockeries and small borders, very compact, heavily branches, leaves reduced in size.

Ginkgo biloba 'Kopista' - web: <http://www.mrmapple.com>, accessed 12.29/2017

Ginkgo biloba 'Yellow Petticoat' - web: <http://www.mrmapple.com>, accessed 12.29.2017

Ginkgo biloba 'Brivingtetun' - <https://www.andre-briant.fr/en/variety-range/access-to-varieties/ornamental-conifers/4207-ginkgo-biloba-andre-briant-brivingtetun-.html>, accessed 10.4.2018

Ginkgo biloba 'Mick's Weeping' - Australian weeping with tube-leaved and other foliage types, similar to 'Weeping Wonder'

Ginkgo biloba 'Ulrich's Gold' - <https://www.hgeers.nl/ginkgo-biloba-ulrichs-aurea.html>, accessed 10.8.2018 as 'Ulrich's Aurea', an invalid post-1959 name

GLE001 - STREET KEEPER® 'Draves' (streetkeeper.net) - 45 ft. tall x 18-20 ft. wide (50 years), columnar to narrowly ovoid, central leader dominant, strong crotch angles, reminds us of the old 'Elegantissima' but denser, narrower, suitable for larger city streets with half or less than normal spread. Leaves dark green, more textured, yellow in fall. No fruit seen in 50 years. US Plant Patent #21698, Tom Draves, found near Buffalo, New York from a notable tree.

GORD01 - Gordonia lasianthus 'Swampy' - habit more vigorous. More cold hardy, selected from near Aiken, South Carolina, a more northern range than some nursery stock. Selected by Chuck Weeks, former employee with Nurcar.com, accessed April 2013.

GYMN001 - Gymnocladus dioica 'UMNSynergy' TRUE NORTH™ - vase-shaped, much narrower for small spaces (30-40 ft. vs. 40-60 ft. of species). Fruitless. University of Minnesota introduction.