

Shagbark Farm Plant List: Fall 2016 / Spring 2017

BOTANICAL NAME	AVAIL.	SIZE	ROOTS	QNTY
Abies concolor Concolor Fir; White Fir <i>EVERGREEN CONIFER; long green to blue-green needles; moderate growing pyramidal habit; deer browse resistant; tolerates heat and moderately dry conditions; locate in full to mostly sunny locations & very well-drained organic neutral to slightly acidic soil; native to western North American mountains; Zones 4 - 7 (8)</i>		10 - 12' 12 - 14'	B&B B&B	N N
Abies concolor 'Candicans' Shiner Concolor Fir; Shiner White Fir <i>EVERGREEN ORNAMENTAL CONIFER; narrow, irregular upright tree with powder-blue needles; very few plants attain a good pyramidal habit, and few plants are as powder-blue; deer browse resistant; tolerates heat and moderately dry conditions; locate in full to mostly sunny locations & very well-drained organic neutral to slightly acidic soil; native to western North American mountains; Zones 4 - 7 (8)</i>		7 - 8' 8 - 10' 10 - 12'	B&B B&B B&B	
Abies fraseri Fraser Fir; Southern Balsam Fir <i>EVERGREEN CONIFER; dark blue-green needles; pyramidal habit to about 40' tall; excellent cut Christmas tree; deer browse resistant; locate in full to mostly sunny locations & very well-drained organic neutral to slightly acidic soil; native to US middle Appalachian Mountains; Zones 4 - 7</i>		6 - 7' 7 - 8' 8 - 10' 10 - 12' 12 - 14' 14 - 16'	B&B B&B B&B B&B B&B B&B	N N N N
Abies koreana Korean Fir <i>EVERGREEN CONIFER; loosely pyramidal habit to 25' or more tall by 10' wide; small dark violet cones in spring; needles have a distinctive white stripe on the bottom side; upright purple cones in spring; deer browse resistant; locate in morning sun with afternoon shade & very well-drained organic soil; South Korean native; Zones 4 - 7</i>		5 - 6'	B&B	
Abies lasiocarpa var. arizonica 'Glauca' Blue Rocky Mountain Fir; Corkbark Fir <i>EVERGREEN CONIFER; irregular pyramid with silver-blue needles; lighter corky white to gray bark that's lighter than the species & deeply furrowed when mature; dark purple cones up to 4" long; should grow to about 6' tall in 10 years; deer browse resistant; locate in full to partial sun or afternoon shade & very well-drained slightly acidic moisture retentive soil; native to higher elevations of southwestern US; Zones 5 - 6 (7)</i>		5 - 6' 8 - 10'	B&B B&B	
Abies lasiocarpa var. arizonica 'Glauca Compacta' Compact Rocky Mountain Fir; Compact Corkbark Fir <i>EVERGREEN CONIFER; irregular pyramid with silver-blue needles; lighter corky white to gray bark that's lighter than the species & deeply furrowed when mature; dark purple cones up to 4" long; should grow to about 3' tall in 10 years; deer browse resistant; locate in full to partial sun or afternoon shade & very well-drained slightly acidic moisture retentive soil; native to higher elevations of southwestern US; Zones 5 - 6 (7)</i>		5 - 6'	B&B	
Abies nordmanniana Nordmann Fir; Caucasian Fir <i>EVERGREEN CONIFER; very dark evergreen needles; pyramidal habit to 50' tall; deer browse resistant; locate in full to partial sun with very well drained slightly acidic moisture retentive soil; one of the best adapted firs for the Mid-Atlantic region; Asian native; Zones 5 - 7</i>		5 - 6' 6 - 7'	B&B B&B	
Acer campestre Hedge Maple <i>DECIDUOUS SHADE TREE; small tree or large shrub to about 30'; yellow fall foliage; good street tree under wires; locate in full sun to partial shade; tolerant of any well drained & compacted soil; native of Europe & Africa; Zones 5 - 8</i>		4 - 4.5" c	B&B	N

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Acer x freemanii 'Armstrong' Columnar Freeman Maple <i>DECIDUOUS SHADE TREE; upright habit to 50' or more; weak reddish fall foliage; locate in full sun; adaptable to wet & well drained soils; US native; native US cross [A. rubrum x A. saccharinum] Zones 3 - 9</i>		4 - 4.5" c 4.5 - 5" c 5 - 6" c 6 - 7" c 7 - 8" c 8 - 9" c 9 - 10" c	B&B B&B B&B B&B B&B B&B B&B	
Acer griseum Paperbark Maple <i>DECIDUOUS ORNAMENTAL TREE; variable exfoliating cinnamon bark; green foliage turns to shades of red in the fall; grows to about 25' tall by 20' wide or larger; multiple trunks from the ground; locate in full sun to partial shade; tolerates most soils with good to moderate drainage; PHS Gold Metal; native of China; Zones 5 - 7</i>	CLUMP	6 - 7' 8 - 10' 10 - 12' 12 - 14'	B&B B&B B&B B&B	 N
Acer griseum Paperbark Maple <i>DECIDUOUS ORNAMENTAL TREE; variable exfoliating cinnamon bark; green foliage turns to shades of red in the fall; grows to about 25' tall by 20' wide or larger; there is a single trunk to 3' or less; locate in full sun to partial shade; tolerates most soils with good to moderate drainage; PHS Gold Metal; native of China; Zones 5 - 7</i>	LOW BRANCHED	3 - 3.5" c 3.5 - 4" c 4 - 4.5" c 4.5 - 5" c 5 - 6" c 7 - 8" c 8 - 9" c 9 - 10" c	B&B B&B B&B B&B B&B B&B B&B B&B	
Acer palmatum 'Bloodgood' Red Japanese Maple <i>DECIDUOUS ORNAMENTAL TREE; dark red spring & summer foliage; broadly upright habit to 25' or more in 25 years; branching starts about 3' or more above grade; locate in full sun to partial shade & well-drained moisture retentive organic soil; afternoon shade helps retain best foliage colors; Japanese native; Zones 5 - 7</i>		6 - 8'	24" Box	
Acer palmatum 'Viridis' Green Laceleaf Japanese Maple <i>DECIDUOUS ORNAMENTAL TREE; green foliage; broadly spreading mounding habit; grows slower than 'Waterfall' & branches grow more horizontally; bright orange, yellow & gold fall foliage; locate in full sun to partial shade & well-drained moisture retentive organic soil; afternoon shade helps retain best foliage colors; Japanese native; Zones 5 - 7</i>		5 - 6' spr	25g	
Acer pensylvanicum Stripped-bark Maple; Goosefoot Maple <i>DECIDUOUS ORNAMENTAL TREE; northeastern native understory tree; green bark on younger branches with longitudinal white stripes; in winter the green turns orangish creating a nice contrast with the white; large green foliage turns a showy clear yellow in fall; open irregular grower to about 20' tall; not tolerant of heat, high humidity or urban conditions; locate in full to partial shade & well-drained moisture retentive organic soil; eastern US native; Zones 3 - 6</i>		3 - 3.5" c	B&B	N
Acer platanoides 'Crimson King' Red Norway Maple <i>DECIDUOUS SHADE TREE; dark burgundy-red foliage all spring and summer; maroon-yellow flowers before the foliage yield to purple samaras in early summer; can be invasive; compact rounded head reaching about 40' tall & wide; shallow root system and dense shade makes under-planting difficult for many plants; locate in full sun to partial shade & any soil with adequate drainage; European native; Zones (3) 4 - 7</i>		4 - 4.5" c 4.5 - 5" c 5 - 6" c 6 - 7" c	B&B B&B B&B B&B	

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Acer platanoides 'Drummondii' Variegated Norway Maple <i>DECIDUOUS SHADE TREE; spring foliage everges with a distinct & showy creamy yellow margin around the green center; mature summer foliage loses the contrast; foliage turns yellow in fall; yellow flowers before the foliage yield to light green samaras in early summer; can be invasive; compact rounded head reaching about 35' tall & 30' wide; shallow root system and dense shade makes under-planting difficult for many plants; locate in full sun to partial shade & any soil with adequate drainage; European native; Zones (3) 4 - 7</i>		2.5 - 3'c 3 - 3.5'c 4 - 4.5'c 5 - 6'c	B&B B&B B&B B&B	N
Acer rubrum 'Armstrong' <i>see: Acer x freemanii 'Armstrong'</i>				
Acer saccharum Sugar Maple <i>DECIDUOUS SHADE TREE; upright to rounded heads; grows to 75' or more; medium green summer foliage turns orange to red in fall; locate in full sun to partial shade with room to develop & well drained organic soil; not tolerant of compacted soils, deicing salt or reflected heat; US native; Zones 4 - 8</i>		5 - 6'c 6 - 7'c	B&B B&B	
Acer saccharum 'Green Mountain' Sugar Maple <i>DECIDUOUS SHADE TREE; oval to rounded head; can grow to 70'; thick green foliage resists scorch & leaf tatter; variable yellow to orange to red fall foliage; very heat resistant cultivar; locate in full sun to partial shade with room to develop & well drained organic soil; not tolerant of compacted soils, deicing salt or reflected heat; may be a cross with A. nigrum; US native (Flemer) Zones 4 - 8</i>		6 - 7'c 7 - 8'c 8 - 9'c	B&B B&B B&B	
Aesculus x arnoldiana 'Autumn Splendor' Hybrid Buckeye <i>SHADE TREE; large creamy-white pyramidal flower panicles in spring; fruit is ornamentally insignificant; glossy dark green summer foliage turns beautiful orange-crimson in fall; upright oval habit to about 35' tall by 30' wide; locate in full or partial sun & well-drained moisture retentive soil (U of MN) Zones (3) 4 - 8</i>		3.5 - 4'c 4 - 4.5'c	B&B B&B	
Aesculus x carnea 'Briotii' Red Buckeye; Red Horsechestnut <i>ORNAMENTAL TREE; 10TM dark red flower panicles; upright rounded habit to about 35'; resistant to the blotch and mildew; branching begins at or very close to the ground; locate in full sun to partial shade with well drained organic soil; pH adaptable [A. pavia x A. hippocastanum] Zones 4 - 7</i>		2.5 - 3'c 3 - 3.5'c 3.5 - 4'c	B&B B&B B&B	
Aesculus flava Yellow Buckeye <i>SHADE TREE; 7" long yellowish-green flowers in May; large growing tree to 75' tall by 40' wide; best in full sun and rich organic slightly acidic soils that drain well; most urban tolerant of all Horsechestnuts; formerly named A. octandra; eastern US native; Zones 3 - 8</i>		3.5 - 4'c 4 - 4.5'c	B&B B&B	
Aesculus hippocastanum 'Baumannii' Common Horsechestnut; European Horsechestnut <i>SHADE TREE; showy sterile double white panicles are about 9" tall & last longer than the single flowers appear in mid May & don't produce fruit; large upright oval to rounded habit gets to about 75' tall; dark green summer foliage often gets brown blotches; fall foliage is ineffective; best in full sun and most well-drained soils; high organic matter is beneficial; pH adaptable; native to SE Europe; Zones 3 - 7</i>		4.5 - 5'c 5 - 6'c	B&B B&B	
Aesculus octandra <i>see: Aesculus flava</i>				

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Aesculus parviflora Bottlebrush Buckeye <i>DECIDUOUS FLOWERING SHRUB; white flowers in early summer; shrubby wide-spreading habit to 10' high by 12' to 15' spread; best in full sun and rich organic slightly acidic soils that drain well; PHS Gold Metal; southeast US native; Zones 4 - 8 (9)</i>		5 - 6'	B&B	
Betula nigra Heritage ('Cully') CLUMP River Birch <i>DECIDUOUS ORNAMENTAL TREE; 3 or more main trunks; broadly pyramidal heads; grows to 40' or more; off-white exfoliating bark; golden fall foliage; bronze birch borer resistant; locate in full sun or minimal shade; tolerant of a wide range of soils especially wet; PHS Gold Metal; US native; Zones 4 - 8</i>		16 - 18'	B&B	N
Betula nigra Heritage ('Cully') TREE FORM River Birch <i>DECIDUOUS ORNAMENTAL TREE; single trunk; broadly pyramidal heads; grows to 40' or more; off-white exfoliating bark; golden fall foliage; bronze birch borer resistant; locate in full sun or minimal shade; tolerant of a wide range of soils especially wet; PHS Gold Metal; US native; Zones 4 - 8</i>		4 - 4.5'c	B&B	
Betula papyrifera CLUMP Paper Birch; Canoe Birch <i>DECIDUOUS ORNAMENTAL TREE; broadly pyramidal heads; upright habit to about 50' tall by 50' or more wide; white peeling bark with black areas under side branches; clear yellow fall foliage; locate in full sun or partial shade & moisture retentive soil that's not boggy; native to northern US & Canada; Zones 2 - 6</i>		20 - 22'	B&B	N
Betula papyrifera TREE FORM Paper Birch; Canoe Birch <i>DECIDUOUS ORNAMENTAL TREE; broadly pyramidal heads; upright habit to as much as 70' tall by 50' wide; white peeling bark with black areas under side branches; clear yellow fall foliage; locate in full sun or partial shade & moisture retentive soil that's not boggy; native to northern US & Canada; Zones 2 - 6</i>		2 - 2.5'c 4 - 4.5'c	B&B B&B	N N
Betula platyphylla 'Szechuanica' <i>see: Betula szechuanica</i>				
Betula szechuanica CLUMP Szechuan Birch; Sichuan White Birch <i>DECIDUOUS ORNAMENTAL TREE; chalk white bark on mature trunk(s); yellow-green male catkins in spring; dark blue-green summer bark turns yellow in fall; upright habit to about 50' tall by 25' wide in 20 or more years; locate in full sun or partial shade & well-drained moisture retentive soil of any acidity; Asian native; Zones 4 - 6 (7)</i>		8 - 10' 14 - 16' 16 - 18'	B&B B&B B&B	
Betula szechuanica TREE FORM Szechuan Birch; Sichuan White Birch <i>DECIDUOUS ORNAMENTAL TREE; chalk white bark on mature trunk(s); yellow-green male catkins in spring; dark blue-green summer bark turns yellow in fall; upright habit to about 50' tall by 25' wide in 20 or more years; locate in full sun or partial shade & well-drained moisture retentive soil of any acidity; Asian native; Zones 4 - 6 (7)</i>		3.5 - 4'c	B&B	

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Buxus x 'Green Mountain' BUSH Pyramidal Hybrid Boxwood <i>EVERGREEN SHRUB; dark evergreen foliage all winter; upright somewhat pyramidal habit, but not sheared into formal pyramids; locate in full sun to moderate shade & moisture retentive well-drained organic soil that's neutral to alkaline [B. microphylla var. koreana x B. sempervirens] (Sheridan Ns)</i> Zones 5 - 8		54 - 60" hvy	B&B	
Buxus microphylla 'Winter Gem' Littleleaf Boxwood <i>EVERGREEN SHRUB; compact spreading evergreen staying under 3' tall; good for low hedges; locate in full sun to moderate shade & moisture retentive well-drained organic soil that's neutral to alkaline; Japan native; Zones 5 - 9</i>		15 - 15" spr 18 - 24" spr	3g 5g / 7g	
Caragana arborescens 'Pendula' Weeping Siberian Pea <i>DECIDUOUS ORNAMENTAL TREE; bright yellow racemes in spring; compound green summer foliage turns yellow in fall; usually grafted on a standard; height mostly determined by standard height; stiffly weeping branches; locate in full sun & most any soil including saline; northern Asian native; Zones 2 - 7</i>		2 - 2.5" c 2.5 - 3" c	B&B B&B	
Carpinus betulus LOW BRANCHED European Hornbeam <i>DECIDUOUS SHADE TREE; dark green summer foliage turns light yellowish-brown in the fall & often persists into winter; upright oval habit to 50'; locate in full sun to part shade; tolerant of any soil if well-drained; native to Europe & Asia Minor; Zones 5 - 8</i>		2.5 - 3" c 3 - 3.5" c 3.5 - 4" c	B&B B&B B&B	N
Carpinus betulus 'Fastigiata' BRANCHED AT 3' Columnar European Hornbeam <i>DECIDUOUS ORNAMENTAL TREE; narrow upright habit to 35' widens with age (like the rest of us); yellowish fall foliage; branching starts at about 3' above the ground; locate in full sun to part shade; tolerant of any soil if well-drained; native to Europe & Asia Minor; Zones 5 - 8</i>		6 - 7" c	B&B	N
Carpinus betulus 'Fastigiata' LOW BRANCHED Columnar European Hornbeam <i>DECIDUOUS ORNAMENTAL TREE; narrow upright habit to 35' widens with age (like the rest of us); yellowish fall foliage; branching starts at or very close to the ground; locate in full sun to part shade; tolerant of any soil if well-drained; native to Europe & Asia Minor; Zones 5 - 8</i>		3.5 - 4" c 4 - 4.5" c 4.5 - 5" c 5 - 6" c 6 - 7" c	B&B B&B B&B B&B B&B	
Carpinus betulus 'Franz Fontaine' Columnar European Hornbeam <i>DECIDUOUS ORNAMENTAL TREE; narrow upright habit to 35' is supposed to stay fairly narrow (not all trees have read the book); yellowish fall foliage; branching starts at or very close to the ground; locate in full sun to part shade; tolerant of any soil if well-drained; native to Europe & Asia Minor; Zones 5 - 8</i>		3.5 - 4" c 4 - 4.5" c 4.5 - 5" c 5 - 6" c	B&B B&B B&B B&B	
Carpinus caroliniana American Hornbeam; Ironwood; Musclewood <i>DECIDUOUS SHADE TREE; compact rounded heads; slow grower to about 25'; yellow to bright orange fall foliage; smooth irregularly fluted gray bark; locate in full sun or full shade; very adaptable to many soil conditions including urban locations; US native; Zones 3 - 9</i>		2 - 2.5" c 2.5 - 3" c 3 - 3.5" c 3.5 - 4" c 4 - 4.5" c	B&B B&B B&B B&B B&B	

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Castanea mollissima Chinese Chestnut <i>DECIDUOUS SHADE TREE; creamy foul smelling 4" panicles in June yield edible fruit in fall which is enclosed in a spiny husk; upright spreading heads to about 50' tall & wide at maturity; dark green summer foliage turns shades of yellow to bronze in fall; locate in full sun & organic well drained acidic soil; fairly drought tolerant; if growing for nut production, multiple trees yields a larger crop; Chinese native; Zones 4 - 8</i>		3 - 3.5" c 3.5 - 4" c 4 - 4.5" c 4.5 - 5" c	B&B B&B B&B B&B	
Catalpa speciosa Northern Catalpa <i>DECIDUOUS SHADE TREE; 2" white flowers in large upright panicles in late May or early June; long narrow brown seed pods in fall; heart-shaped green summer foliage turns yellowish-green in fall; rapid growing upright habit to about 60' tall by 40' wide or more; locate in sun or partial shade & just about any soil with reasonable drainage; native to central US; Zones 4 - 8 (9)</i>		3.5 - 4" c 4 - 4.5" c 4.5 - 5" c 5 - 6" c 6 - 7" c	B&B B&B B&B B&B B&B	
Celtis occidentalis Common Hackberry <i>DECIDUOUS SHADE TREE; pyramidal headed shade tree growing to 50' tall and about as wide; yellow fall foliage; tolerant of urban conditions, some salt exposure & most pests; drought tolerant; locate in full sun & just about any soil that isn't wet for extended periods; native to US & Canada; Zones 3 - 7 (8)</i>		2.5 - 3" c 3 - 3.5" c 3.5 - 4" c 4 - 4.5" c 4.5 - 5" c 5 - 6" c 6 - 7" c	B&B B&B B&B B&B B&B B&B B&B	N N
Cercis canadensis Eastern Redbud <i>DECIDUOUS ORNAMENTAL TREE; bright lavender-pink blooms along all the branches in April; wide spreading heads; yellowish fall foliage; branching starts about 3' to 6' above the ground from a single stem; locate in full sun or partial shade with any well-drained soil; US native; Zones 4 - 9</i>		2.5 - 3" c 3 - 3.5" c 3.5 - 4" c 4 - 4.5" c	B&B B&B B&B B&B	 N N
Chamaecyparis nootkatensis 'Glauca Pendula' Blue Weeping Alaskan Cedar <i>EVERGREEN ORNAMENTAL CONIFER; pronounced single leader with branchlets hanging downward from horizontal lateral branches; blue-green foliage; locate in full sun with deep organic well-drained moisture retentive soil; will tolerate light shade; native to northwestern US; Zones 4 - 7 (8)</i>		7 - 8' 8 - 10' 10 - 12' 12 - 14'	B&B B&B B&B B&B	
Chamaecyparis obtusa 'Gracilis' Slender Hinoki Cypress <i>EVERGREEN ORNAMENTAL CONIFER; moderate bushy upright grower; dark green foliage; locate in full to mostly sunny location with organic moisture retentive soil that drains well; native to Japan; Zones 5 - 8</i>		7 - 8' 8 - 9'	B&B B&B	
Chamaecyparis pisifera aurea Golden Sawara Cypress		10 - 12' 12 - 14' 14 - 16'	B&B B&B B&B	
Chamaecyparis pisifera filifera Green Thread Cypress <i>EVERGREEN ORNAMENTAL CONIFER; pyramidal mounding habit; dark evergreen thread-like foliage; locate in full or partial shade & neutral to acidic organic moisture retentive soil that drains well; Japanese native; Zones 4 - 8</i>		3 - 4' 4 - 5' 5 - 6' 6 - 7'	B&B B&B B&B B&B	N
Chamaecyparis pisifera filifera 'Gold Mop' Bright Gold Threadbranch Cypress <i>EVERGREEN ORNAMENTAL CONIFER; bright gold thread-like foliage; compact broadly spreading habit; can take some shade; locate in full to mostly sunny location with neutral to acidic organic moisture retentive soil that drains well; Japanese native; Zones 4 - 8</i>		18 - 24" spr 4 - 5' 5 - 6' 6 - 7' 8 - 10'	3g B&B B&B B&B B&B	 N N

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Chamaecyparis pisifera filifera 'Sungold' Gold Threadbranch Cypress <i>EVERGREEN ORNAMENTAL CONIFER; gold thread-like foliage in full sun on new growth with green foliage underneath; not as bright as some other forms; nice compact spreading habit; good choice for situations where subtle gold foliage is warranted; locate in full to mostly sunny location with neutral to acidic organic moisture retentive soil that drains well; Japanese native; Zones 4 - 8</i>		6 - 7'	B&B	
Chamaecyparis pisifera 'Plumosa Aurea' Golden Plume Cypress <i>EVERGREEN ORNAMENTAL CONIFER; very tight irregular, globular habit; green juvenile foliage has lighter green to greenish-yellow new growth; will become about 20" tall & wide at 10 years; locate in full to mostly sunny location with neutral to acidic organic moisture retentive soil that drains well; Japanese native; Zones 4 - 8</i>		5 - 6' 6 - 7' 7 - 8' 8 - 10' 10 - 12' 12 - 14'	B&B B&B B&B B&B B&B B&B	
Chionanthus virginicus White Fringetree <i>DECIDUOUS ORNAMENTAL TREE; fragrant creamy white fringe-like flowers in May; shrubby upright habit to about 20' tall & wide; branching starts at the ground; dark green summer foliage turns yellowish in fall; locate in full sun to partial shade & any well drained soil; native to eastern US; Zones 4 - 9</i>	BUSH	5 - 6'	B&B	N
Clethra alnifolia Summersweet <i>DECIDUOUS FLOWERING SHRUB; fragrant white flowers in summer; upright habit to about 10' & almost as wide; locate in full sun to partial shade; likes moist to wet acidic soils & coastal conditions; eastern US native; Zones 4 - 9</i>		30 - 36"	7g	
Cornus alternifolia Pagoda Dogwood <i>DECIDUOUS ORNAMENTAL TREE; extremely fragrant yellowish flowers in late May precedes fruit appearing in late July that transitions from green to red to bluish-black; wide spreading horizontal habit to 25' tall by 40' wide; dark green summer foliage turns reddish in fall; locate in partial shade & well-drained acidic soil; US native; Zones 3 - 7</i>	BUSH	8 - 10'	B&B	
Cornus alternifolia Pagoda Dogwood <i>DECIDUOUS ORNAMENTAL TREE; extremely fragrant yellowish flowers in late May precedes fruit appearing in late July that transitions from green to red to bluish-black; wide spreading horizontal habit to 25' tall by 40' wide; dark green summer foliage turns reddish in fall; locate in partial shade & well-drained acidic soil; US native; Zones 3 - 7</i>	TREE FORM	2 - 2.5'c	B&B	N
Cornus mas Corneliancherry Dogwood <i>DECIDUOUS ORNAMENTAL TREE; yellow flowers in March; bright red fruit in July; exfoliating gray to brown bark; grows to about 20' tall; branching starts at ground level; locate in full sun to partial shade with any well drained organic soil; native to Europe & western Asia; Zones 4 - 7</i>	BUSH	6 - 8' 8 - 10'	B&B B&B	N
Cornus mas Corneliancherry Dogwood <i>DECIDUOUS ORNAMENTAL TREE; yellow flowers in March; bright red fruit in July; exfoliating gray to brown bark; grows to about 20' tall; branching starts about 3' or more above the ground; locate in full sun to partial shade with any well drained organic soil; native to Europe & western Asia; Zones 4 - 7</i>	TREE FORM	2.5 - 3'c 3 - 3.5'c 3.5 - 4'c	B&B B&B B&B	

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Cornus racemosa Gray Dogwood <i>DECIDUOUS FLOWERING SHRUB; whitish flower clusters in late spring aren't especially ornamental, nor are the subsequent whitish fruit in late summer; the reddish-pink pedicels appear after the fruit, & are the most ornamental quality; broadly upright suckering shrub to 15' by 15'; tolerant of full sun or shade & most soil types & moisture conditions; US native; Zones (3) 4 - 8</i>		8 - 9'	B&B	
Cornus sericea 'Baileyi' Redtwig Dogwood; Redosier Dogwood <i>DECIDUOUS FLOWERING SHRUB; white flowers in late May; white fruit in late summer; bushy habit to 9' tall & wide; reddish-purple fall foliage; locate in full sun to partial shade with any well drained organic soil; US native; formerly C. stolonifera; Zones 2 - 7</i>		3 - 4' 4 - 5' 5 - 6' 6 - 7'	7g B&B B&B B&B	N
Cornus sericea 'Flaviramea' Yellow-twig Redosier Dogwood; Yellowtwig Dogwood <i>DECIDUOUS FLOWERING SHRUB; bright yellow stems in winter; white cymes in late May followed by white fruit in late summer; fall foliage varies from bright red to reddish-purple; locate in full sun to partial shade with any well drained organic soil; US native; Zones 4 - 7</i>		4 - 5' 5 - 6'	B&B B&HB	N
Cornus sericea Ivory Halo ('Bailhalo') Variegated Red-twig Dogwood <i>DECIDUOUS FLOWERING SHRUB; narrow white edges surround medium green leaves; fall color is purplish; young winter twigs are bright red; creamy flowers in late spring aren't significant, but produce white fruit that matures to blue & is favored by birds; bushy habit to 6' x 6'; locate in full to partial sun & moist well-drained soils; Zones 3 - 7</i>		3 - 4' 4 - 5' 5 - 6'	B&B B&B B&B	N
Cotinus obovatus American Smoketree <i>DECIDUOUS FLOWERING SHRUB; large open 8" long greenish-yellow panicles that age to pinkish in May & June; bluish-green summer foliage turns brilliant shades of yellow, orange, red & purple in fall; bushy habit to 25' high & wide; mature bark splits into thin strips - attractive; locate in full sun & well drained alkaline to neutral soils; native to SE US; Zones 4 - 8</i>	TREE FORM	2.5 - 3" 3 - 3.5"	B&B B&B	
Crataegus crus-galli var. inermis Crusader ('Cruzam') Thornless Cockspur Hawthorn <i>DECIDUOUS ORNAMENTAL TREE; white flowers in May; 1/2" red fruit from late September through fall; no thorns; glossy dark green summer foliage turns purplish-red in fall; broadly spreading heads; mature sizes range from 30' high by 35' wide; locate in full sun & any well drained soil; adapts to coastal locations; native to US & Canada; Zones 4 - 6 (7)</i>		2 - 2.5" 3 - 3.5"	B&B B&B	N N
Crataegus viridis 'Winter King' Green Hawthorn <i>DECIDUOUS ORNAMENTAL TREE; white flowers in May; persistent red fruit from early fall through early winter; prominent thorns; light gray bark; glossy summer foliage turns scarlet in fall; locate in full sun & any well drained soil; PHS Gold Metal; US native; Zones 4 - 7</i>		2.5 - 3" 3.5 - 4"	B&B B&B	N
Fagus grandifolia American Beech <i>SHADE TREE; large wide-spreading tree to about 70' tall & wide (if given space); dark green summer foliage turns golden bronze in fall and can stay on the tree through the winter; smooth silver-gray bark contrasts beautifully with the retained foliage all winter; forest climax tree; beechnuts are an important wildlife food; locate in sun or shade with well-drained organic slightly acidic soils; not tolerant of urban conditions or compacted soils; US native; Zones 4 - 9</i>		2 - 2.5" 2.5 - 3"	B&B B&B	

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Fagus sylvatica European Beech <i>SHADE TREE; large broadly pyramidal tree to 60'; dark glossy green foliage turns reddish-bronze in fall and is usually retained for much of the winter; smooth medium gray bark; surface rooted; locate in sun or shade with well-drained organic soils; not tolerant of urban conditions or compacted soils; European native; Zones (4) 5 - 7</i>		2.5 - 3'c 3 - 3.5"c	B&B B&B	
Fagus sylvatica 'Atropunicea' Copper European Beech <i>DECIDUOUS ORNAMENTAL TREE; new foliage is very dark purple which becomes greenish purple to coppery by mid summer; upright somewhat open habit when young; becomes a large (60'+) wide-spreading tree when mature; locate in sun (to enhance foliage color) or shade with well-drained organic soils; not tolerant of urban conditions or compacted soils; European native; Zones 4 - 7</i>		3 - 3.5"c 3.5 - 4"c	B&B B&B	
Fagus sylvatica 'Atropurpurea' Copper European Beech <i>DECIDUOUS ORNAMENTAL TREE; new foliage is very dark purple which becomes greenish purple to coppery by mid summer; upright somewhat open habit when young; becomes a large (60'+) wide-spreading tree when mature; locate in sun (to enhance foliage color) or shade with well-drained organic soils; not tolerant of urban conditions or compacted soils; European native; Zones 4 - 7</i>		3.5 - 4"c 4 - 4.5"c 4.5 - 5"c 5 - 6"c 6 - 7"c 7 - 8"c	B&B B&B B&B B&B B&B B&B	
Fagus sylvatica 'Cuprea' Copper European Beech <i>DECIDUOUS ORNAMENTAL TREE; new foliage is very dark purple which becomes greenish purple to coppery by mid summer; upright somewhat open habit when young; becomes a large (60'+) wide-spreading tree when mature; locate in sun (to enhance foliage color) or shade with well-drained organic soils; not tolerant of urban conditions or compacted soils; European native; Zones 4 - 7</i>		3 - 3.5"c 3.5 - 4"c	B&B B&B	
Fagus sylvatica 'Dawyck' / 'Fastigiata' Columnar European Beech <i>DECIDUOUS ORNAMENTAL TREE; dense fastigiata profile; green foliage; can become tall (to 80' or more), but is relatively slow growing and stays very narrow; excellent accent plant; selected seedling from Trompenburg Arboretum; locate in sun or shade with well-drained organic soils; not tolerant of urban conditions or compacted soils; European native; Zones 4 - 7</i>		3.5 - 4"c	B&B	
Fagus sylvatica 'Purple Fountain' Weeping Purple European Beech <i>DECIDUOUS ORNAMENTAL TREE; dark purple spring foliage loses intensity in summer; upright pyramidal habit that usually has a dominant single leader; some develop into fairly narrow irregular pyramids while others are quite broad at the base; locate in sun (to enhance foliage color) or shade with well-drained organic soils; not tolerant of urban conditions or compacted soils; European native; Zones 4 - 7</i>		3.5 - 4"c 4.5 - 5"c	B&B B&B	
Fagus sylvatica 'Red Obelisk' Columnar Purple European Beech <i>DECIDUOUS ORNAMENTAL TREE; narrow columnar habit with slightly dissected dark purple foliage; can reach 50' or more; locate in sun (to enhance foliage color) or shade with well-drained organic soils; not tolerant of urban conditions or compacted soils; European native; Zones 4 - 7</i>		4 - 4.5"c	B&B	N
Fagus sylvatica 'Riversii' Purple European Beech <i>DECIDUOUS ORNAMENTAL TREE; new foliage is very dark purple which becomes greenish purple by mid summer; upright somewhat open habit when young; becomes a large (50'+) wide-spreading tree when mature; locate in sun (to enhance foliage color) or shade with well-drained organic soils; not tolerant of urban conditions or compacted soils; European native; Zones 4 - 7</i>		4.5 - 5"c 5 - 6"c 6 - 7"c 7 - 8"c 8 - 9"c 10 - 11"c 13 - 14"c	B&B B&B B&B B&B B&B B&B B&B	

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Fagus sylvatica 'Rohanii' Purple Oakleaf European Beech <i>DECIDUOUS ORNAMENTAL TREE; medium reddish-purple foliage with rounded lobes; young plants are fairly columnar; the width of mature plants approach their height; locate in sun (to enhance foliage color) or shade with well-drained organic soils; not tolerant of urban conditions or compacted soils; European native; Zones 4 - 7</i>		4.5 - 5" c 5 - 6" c 6 - 7" c 10 - 11" c 12 - 13" c	B&B B&B B&B B&B B&B	
Fagus sylvatica 'Roseo-marginata' Tricolor European Beech <i>DECIDUOUS ORNAMENTAL TREE; dazzling pink, purple & white new foliage matures to purple with white margins; slow upright grower that gets large over time; often listed as 'Tricolor' which is probably a lost species that has whiter foliage; locate in sun (to enhance foliage color) or shade with well-drained organic soils; not tolerant of urban conditions or compacted soils; European native; Zones 4 - 7</i>		4 - 4.5" c 4.5 - 5" c	B&B B&B	
Fagus sylvatica 'Rotundifolia' Roundleaf European Beech <i>DECIDUOUS ORNAMENTAL TREE; pyramidal to rounded habit of 40' or more; small round foliage; locate in sun or shade with well-drained organic soils; not tolerant of urban conditions or compacted soils; European native; Zones 4 - 7</i>		8 - 9" c 10 - 11" c	B&B B&B	
Fothergilla major 'Mt Airy' Large Fothergilla <i>DECIDUOUS FLOWERING SHRUB; large fragrant white flower in May; orange-red fall foliage; locate in full sun to 1/2 shade & well-drained acidic soil; US native; Zones (4) 5 - 7</i>		30 - 36"	5g / 7g	
Ginkgo biloba 'Pendula' Weeping Ginkgo; Weeping Maidenhair Tree <i>DECIDUOUS ORNAMENTAL CONIFER; these are more horizontal than weeping; each plant is a little different; highly resistant to pests & diseases; locate in full sun & any soil that drains; very tolerant of urban & coastal conditions; Chinese native; Zones 4 - 8 (9)</i>		4.5 - 5" c 5 - 6" c 6 - 7" c	B&B B&B B&B	
Ginkgo biloba Princeton Sentry ('PNI2720') Columnar Ginkgo; Columnar Maidenhair Tree <i>DECIDUOUS CONIFER; columnar habit; male clone; to 60' x 25' wide; golden fall foliage; highly resistant to pests & diseases; locate in full sun & any soil that drains; very tolerant of urban & coastal conditions; China (Flemer) Zones 4 - 8 (9)</i>		4 - 4.5" c 4.5 - 5" c	B&B B&B	N N
Ginkgo biloba 'Tubiformis' Compact Trumpet-leaf Ginkgo; Compact Trumpet-leaf Maidenhair Tr <i>DECIDUOUS CONIFER; male clone; narrow pyramidal habit to about 8' high by 4' wide in 10 years; small variable foliage with some tubular leaves & some typical; bright yellow fall foliage; highly resistant to pests & diseases; locate in full sun & any soil that drains; very tolerant of urban & coastal conditions; Chinese native (Wandell) Zones 4 - 8 (9)</i>		2.5 - 3" c	B&B	
Gleditsia triacanthos var. inermis 'Shademaster' Thornless Honeylocust <i>DECIDUOUS SHADE TREE; upright open spreading habit with age; small dark green compound foliage turns golden in fall and casts a light dappled shade; seedless; locate in full sun; prefers moist neutral to alkaline soils, but is very adaptable; very tolerant of urban conditions including soil compaction & salt; US native; (Flemer) Zones 4 - 9</i>		4 - 4.5" c 4.5 - 5" c	B&B B&B	N N
Gleditsia triacanthos var. inermis Sunburst ('Suncole') Golden Thornless Honeylocust <i>DECIDUOUS SHADE TREE; golden tipped foliage on new growth; open spreading heads; golden fall foliage; seedless; locate in full sun; prefers moist neutral to alkaline soils, but is very adaptable; very tolerant of urban conditions including soil compaction & salt; US native; Zones 4 - 9</i>		3 - 3.5" c 3.5 - 4" c	B&B B&B	

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Gymnocladus dioicus Kentucky Coffeetree <i>DECIDUOUS SHADE TREE; large grower to 75' tall by 50' wide; bold open habit in winter that's masked by the doubly compound summer foliage; locate in full sun & moist organic soil, but adapts high pH, drought & urban situations; Zones (3) 4 - 8</i>		3 - 3.5" c 3.5 - 4" c 4 - 4.5" c	B&B B&B B&B	
Hydrangea paniculata 'Grandiflora' TREE FORM PeeGee Late Panicle Hydrangea <i>DECIDUOUS FLOWERING SHRUB; large white sterile flowers from mid-summer into fall on new wood; dark green foliage; spreading habit to about 20' tall by 15' wide at maturity; branching starts at about 3-4' above the ground on a single trunk; locate in full sun to partial or afternoon shade (especially in southern range); soil needs to be well-drained, but with good moisture retention; Asian native; Zones 4 - 9</i>		1.5 - 2" c	B&B	N
Hydrangea paniculata 'Limelight' BUSH Late Panicle Hydrangea <i>DECIDUOUS FLOWERING SHRUB; bright greenish-white flowers in late summer on new wood; dark green foliage; spreading habit to about 8' tall & wide at maturity; locate in full sun to partial or afternoon shade (especially in southern range); soil needs to be well-drained, but with good moisture retention; PHS Gold Metal; Asian native (PW) Zones 4 - 9</i>		30 - 36"	7g	
Ilex verticillata 'Afterglow' Winterberry Holly <i>DECIDUOUS ORNAMENTAL SHRUB; profuse amounts of bright red fruit through the winter; purple fall foliage; bushy habit to about 6' tall & wide; 'Jim Dandy' is recommended pollinator; locate in full sun to partial shade & neutral to acidic moisture retentive soil; native to areas with persistently moist to wet soils; native to US & Canada; Zones 3 - 9</i>		4 - 5' 5 - 6'	B&B B&B	N
Ilex verticillata 'Winter Red' Winterberry Holly <i>DECIDUOUS ORNAMENTAL SHRUB; upright rounded habit to 8'; large persistent profuse bright red fruit; pollinated by 'Southern Gentleman'; locate in full sun to partial shade & neutral to acidic moisture retentive soil; native to areas with persistently moist to wet soils; native to US & Canada; PHS Gold Metal; Zones 3 - 9</i>		30 - 36" 3 - 4' 4 - 5'	5g B&B B&B	
Juglans nigra Black Walnut <i>DECIDUOUS SHADE TREE; compound green summer foliage turns an undistinguished yellowish in fall; nuts are a good food source for wildlife; broadly upright habit to as much as 100' tall; wood is highly valued for furniture; locate in full to mostly sunny areas & organic well-drained moisture retentive soil; native to the eastern half of the US; Zones 4 - 9</i>		3.5 - 4" c 4 - 4.5" c	B&B B&B	
Juniperus chinensis 'Pfitzeriana Glauca' Blue Pfitzer Juniper <i>EVERGREEN ORNAMENTAL CONIFER; bright gray-blue foliage; bushy spreading habit to 6' high by 9' or more wide; locate in full sun & most well-drained soils; drought tolerant when established; Asian native; Zones 4 - 9</i>		18 - 24" spr	3g	
Juniperus chinensis 'Robusta Green' Upright Chinese Juniper <i>EVERGREEN ORNAMENTAL CONIFER; irregular upright habit to 15' or more tall with blue-green foliage; with varies with shearing; salt tolerant; locate in full sun & most well-drained soils; drought tolerant when established; Asian native; Zones 5 - 9</i>		7 - 8' 8 - 10'	B&B B&B	

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Juniperus communis 'Gold Cone' Golden Common Juniper <i>EVERGREEN ORNAMENTAL CONIFER; bright gold new spring foliage turns green upon maturing in summer; the narrow columnar to pyramidal habit is ideal for small spaces; resists deer browse; locate in full sun & neutral to acidic well-drained soil; very salt tolerant; native to just about everywhere; Zones 2 - 6</i>		6 - 7' 7 - 8' 8 - 9'	B&B B&B B&B	
Juniperus communis 'Golden Schnapps' Golden Common Juniper <i>EVERGREEN ORNAMENTAL CONIFER; bright gold new spring foliage turns green upon maturing in summer; broadly pyramidal habit to about 6' tall by 3' wide in 10 years; resists deer browse; locate in full sun & neutral to acidic well-drained soil; very salt tolerant; native to just about everywhere; Zones (2) 3 - 6 (7)</i>		6 - 7' 7 - 8'	B&B B&B	
Juniperus horizontalis 'Youngstown' / 'Plumosa Compacta Youngstown' Compact Andorra Juniper <i>EVERGREEN ORNAMENTAL CONIFER; compact bushy spreader; burgundy winter foliage; resists deer browse; locate in full sun & well-drained soil; tolerant of coastal locations; native to North America; Zones 4 - 9</i>		18 - 24" spr	3g	
Juniperus procumbens 'Nana' Dwarf Japanese Garden Juniper <i>EVERGREEN ORNAMENTAL CONIFER; low mounding spreader to 18" tall by 4' wide; medium green juvenile foliage; resists deer browse; locate in full sun & any well-drained soil; native to Japan Zones 4 - 8</i>		18 - 24" spr	3g	
Juniperus squamata 'Blue Star' Dwarf Blue Singleseed Juniper <i>EVERGREEN ORNAMENTAL CONIFER; bright blue foliage; very compact mounding habit; can reach 3' tall by 3' or more wide in time; usually grafted between 18" & 3' on top of a clear trunk & forms a very compact silvery-blue ball at the top; locate in full sun & most well-drained soils; does not perform well in areas with high humidity & high evening temperatures; native to Asia; Zones 4 - 7</i>	STANDARD	2 - 3' spr 3 - 4' spr	B&B B&B	N
Juniperus squamata 'Loderi' Upright Singleseed Juniper <i>EVERGREEN ORNAMENTAL CONIFER; blue-green foliage; compact irregular pyramidal habit to 8' or more tall; may be a cultivar of J. pingii; locate in full sun & most well-drained soils; does not perform well in areas with high humidity & high evening temperatures; native to Asia; Zones 4 - 7</i>		5 - 6'	B&B	
Larix decidua 'Pendula' Weeping European Larch <i>DECIDUOUS ORNAMENTAL CONIFER; bright green needles turn golden in fall; shape varies according to staking; locate in full sun & well drained moisture retentive soils that are acidic to neutral; not drought tolerant; European native; Zones 3 - 6 (7)</i>	STAKED	2 - 2.5'c	B&B	
Larix kaempferi Japanese Larch <i>DECIDUOUS CONIFER; upright pyramidal habit to about 80' tall by 30' wide; bright green summer needles turn golden in fall; locate in full sun & well-drained moisture retentive soils that are acidic to neutral; not drought tolerant; Japanese native; Zones (3) 4 - 7</i>		10 - 12' 12 - 14'	B&B B&B	

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Larix laricina American Larch; Eastern Larch; Tamarack <i>DECIDUOUS CONIFER; fairly short narrow green needles turn bright orange in fall; locate in full sun & moist to moisture retentive soils that are acidic to neutral; not tolerant of drought, urban conditions or high evening temperatures; North American native; Zones 2 - 4 (5)</i>		8 - 10' 10 - 12' 12 - 14' 14 - 16' 16 - 18'	B&B B&B B&B B&B B&B		N
Liquidambar styraciflua 'Moraine' American Sweetgum <i>DECIDUOUS SHADE TREE; upright oval habit to about 75' tall; grows faster & more uniform than the species; dark glossy green summer foliage turns brilliant red in fall; locate in full sun & moist to partially wet organic soils; increased hardiness; native to eastern of US & Mexico; Zones (4) 5 - 9</i>		3.5 - 4" c	B&B		N
Liriodendron tulipifera Tuliptree; Tulip Poplar <i>DECIDUOUS SHADE TREE; rapid narrow upright habit to 100' or more; somewhat weak wood; light orange-green flowers in early June; green summer foliage turns variable yellow in fall; locate in full sun or light shade & deep organic soil that retains moisture & is somewhat acidic; US native; Zones 4 - 9</i>		4 - 4.5" c 5 - 6" c	B&B B&B		
Magnolia x liliiflora 'Jane' USDA Hybrid Lily Magnolia <i>DECIDUOUS ORNAMENTAL TREE; flowers are reddish-purple on the outside & white inside; they appear before the dark green foliage in early to mid spring; locate in full sun or light shade & moist organic well-drained soils of varying acidity; native Asian cross [M. kobus var. stellata 'Waterlily' x M. liliiflora 'Reflorescens'] (USNA - Kosar) Zones 5 - 8</i>		10 - 12'	B&B		N
Magnolia x soulangeana Saucer Magnolia <i>DECIDUOUS ORNAMENTAL TREE; flowers are light inside and dark pink outside & appear in early April - just before the foliage; upright grower to 30' gets wider with age; locate in full sun to light or dappled shade & deep well-drained acidic soil with good moisture retention [M. denudata x M. liliiflora] Zones 4 - 9</i>		6 - 7' 7 - 8' 8 - 10'	B&B B&B B&B		N
Magnolia stellata 'Royal Star' Star Magnolia <i>DECIDUOUS ORNAMENTAL TREE; fragrant white star-like flowers in late March; broad bushy habit to 15' tall & slightly wider; locate in full sun to light or dappled shade & deep well-drained acidic soil with good moisture retention; Japanese native (Vermeulen N) Zones 5 - 8</i>		5 - 6' 6 - 7'	B&B B&B		
Malus baccata 'Columnaris' Columnar Siberian Crabapple <i>DECIDUOUS ORNAMENTAL TREE; pink buds open to very fragrant 1.5" white flowers; minimally born persistent 1/2" bright reddish-yellow fruit; narrow upright habit to about 30' tall by 10' wide; glossy green summer foliage turns yellowish in fall; variable susceptibility to scab, mildew & fireblight; locate in full or mostly sunny areas with loamy moist well-drained acidic soil, but more widely adaptable; tolerant of urban conditions if not allowed to dry out; Zones 4 - 8</i>		3 - 3.5" c 3.5 - 4" c	B&B B&B		
Malus domestica 'Macoun' Fruiting Apple <i>DECIDUOUS FRUIT TREE; pink buds open to fragrant white flowers in May; dark purple-red fruit follows in early fall & is good for eating & cooking; habit varies with root-stock but tends to be as high as wide; attracts hummingbirds & butterflies; locate in full sun (for best fruit production) or light shade & organic moisture retentive well-drained slightly acidic soil; best pollination with multiple varieties; will not cross-pollinate with 'McIntosh'; native to western Asia; Zones 3 - 8</i>		2.5 - 3" c 3 - 3.5" c	B&B B&B		

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Malus domestica 'Mutsu' Fruiting Apple <i>DECIDUOUS FRUIT TREE; pink buds open to fragrant white flowers in May; large slightly tart greenish-yellow to yellow fruit follows in early fall; habit varies with root-stock but tends to be as high as wide; attracts hummingbirds & butterflies; locate in full sun (for best fruit production) or light shade & organic moisture retentive well-drained slightly acidic soil; best pollination with multiple varieties; native to western Asia; Zones 4 - 6</i>		2 - 2.5" c	B&B	
Malus domestica 'Red Delicious' Fruiting Apple <i>DECIDUOUS FRUIT TREE; pink buds open to fragrant white flowers in May; large slightly tart dark red fruit follows in early fall; habit varies with root-stock but tends to be as high as wide; attracts hummingbirds & butterflies; locate in full sun (for best fruit production) or light shade & organic moisture retentive well-drained slightly acidic soil; best pollination with multiple varieties; native to western Asia; Zones 5 - 8</i>		3 - 3.5" c 3.5 - 4" c	B&B B&B	
Malus domestica 'Winesap' Fruiting Apple <i>DECIDUOUS FRUIT TREE; pink buds open to fragrant white flowers in May; slightly tart dark red fruit follows in late fall; habit varies with root-stock but tends to be as high as wide; attracts hummingbirds & butterflies; locate in full sun (for best fruit production) or light shade & organic moisture retentive well-drained slightly acidic soil; best pollination with multiple varieties; native to western Asia; Zones 4 - 8</i>		2 - 2.5" c	B&B	
Malus Golden Raindrops ('Schmidtcutleaf') White Crabapple <i>DECIDUOUS ORNAMENTAL TREE; pink buds open to white flowers; 1/4" golden fruit; compact rounded head; grows to 20' tall; deeply cut foliage; susceptible to fireblight; locate in full or mostly sunny areas with loamy moist well-drained acidic soil, but more widely adaptable; tolerant of urban conditions if not allowed to dry out (Schmidt) Zones 4 - 8</i>		2.5 - 3" c	B&B	N
Malus 'Indian Magic' Pink Crabapple <i>DECIDUOUS ORNAMENTAL TREE; red buds open to 1.5" rose-red or deep pink flowers; persistent 1/2" red fruit transitions to orange; slight susceptibility to rust & moderate to high susceptibility to scab; locate in full or mostly sunny areas with loamy moist well-drained acidic soil, but more widely adaptable; tolerant of urban conditions if not allowed to dry out; (Simpson) Zones 4 - 8</i>		2.5 - 3" c 3.5 - 4" c 4.5 - 5" c	B&B B&B B&B	N N
Malus 'Prairifire' Pink Crabapple <i>DECIDUOUS ORNAMENTAL TREE; red buds open to exceedingly showy purplish-red flowers; persistent 3/8" purplish-red fruit; new bronze-red foliage matures to bronze-green by summer before turning to shades of orange & red in fall; rounded heads to 20' x 20'; excellent disease resistance; locate in full or mostly sunny areas with loamy moist well-drained acidic soil, but more widely adaptable; tolerant of urban conditions if not allowed to dry out (Dayton) Zones 4 - 8</i>		2 - 2.5" c 3 - 3.5" c	B&B B&B	
Malus sargentii LOW BRANCHED White Sargent Crabapple <i>DECIDUOUS ORNAMENTAL TREE; red buds open to fragrant white flowers in alternate years (some seedlings may produce annual flowers); 1/2" bright red fruit; dense wide-spreading habit to 8' tall by 12' wide; locate in full or mostly sunny areas with loamy moist well-drained acidic soil, but more widely adaptable; tolerant of urban conditions if not allowed to dry out; Zones 4 - 7</i>		2 - 2.5" c 2.5 - 3" c 3 - 3.5" c	B&B B&B B&B	

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Malus Velvet Pillar ('Velvetcole') Pink Crabapple <i>DECIDUOUS ORNAMENTAL TREE; sparse single pink flowers; 1/2" maroon-red fruit; purple foliage; upright to broadly columnar habit to 20' tall by 15' wide; very susceptible to scab; locate in full or mostly sunny areas with loamy moist well-drained acidic soil, but more widely adaptable; tolerant of urban conditions if not allowed to dry out; Zones 4 - 8</i>		3.5 - 4" 4 - 4.5" 4.5 - 5"	B&B B&B B&B	
Metasequoia glyptostroboides TREE FORM Dawn Redwood <i>DECIDUOUS CONIFER; large growing conifer to 100' or more; bright green summer needles turn orange-brown in fall; branching starts approximately 4' above the ground; locate in full sun & moist well-drained neutral to acidic soil, although tolerant of a wider range soil types except high alkaline levels; PHS Gold Metal; Chinese native; Zones 5 - 8</i>		8 - 10'	B&B	
Ostrya carpinifolia BUSH European Hop Hornbeam; European Ironwood <i>SHADE TREE; bright dark green doubly serrated summer foliage turns yellow in fall; upright narrowly pyramidal habit to about 50' tall; fall transplanting hazard; locate in full sun to light shade & moisture retentive soil that drains well; not drought tolerant; native to southern Europe; Zones 5 - 9</i>		7 - 8' 8 - 10' 10 - 12'	B&B B&B B&B	N N N
Ostrya carpinifolia TREE FORM European Hop Hornbeam; European Ironwood <i>SHADE TREE; bright dark green doubly serrated summer foliage turns yellow in fall; upright narrowly pyramidal habit to about 50' tall; fall transplanting hazard; locate in full sun to light shade & moisture retentive soil that drains well; not drought tolerant; native to southern Europe; Zones 5 - 9</i>		2.5 - 3" 3 - 3.5" 3.5 - 4"	B&B B&B B&B	
Ostrya virginiana American Hop Hornbeam; American Ironwood <i>SHADE TREE; bright dark green summer foliage turns yellowish in fall; fall transplanting hazard; locate in full sun to partial shade; tolerates a wide soil range if acidic and drains well; drought tolerant; native to eastern & central North America; Zones 4 - 9</i>		1.5 - 2" 2 - 2.5"	B&B B&B	
Picea abies Norway Spruce <i>EVERGREEN CONIFER; moderate growing pyramidal conifer to 60' or more; dark green needles; plants are sheared for uniformity & fullness; resists deer browse; locate in full sun to partial shade & well-drained neutral to acidic moisture retentive soils; native to northern Europe; Zones 2 - 7</i>		7 - 8' 8 - 10' 10 - 12' 12 - 14' 14 - 16' 16 - 18'	B&B B&B B&B B&B B&B B&B	N
Picea abies 'Acrocona' Compact Norway Spruce <i>EVERGREEN ORNAMENTAL CONIFER; compact grower that becomes a large spreading mound, almost as tall as wide; large reddish-purple immature cones on branch tips in spring; new spring growth is lighter than the mature needles making a nice contrast; resists deer browse; locate in full sun to partial shade & well-drained neutral to acidic moisture retentive soils; native to northern Europe; Zones 2 - 7</i>		5 - 6' 6 - 7' 7 - 8' 8 - 10'	B&B B&B B&B B&B	
Picea abies 'Clanbrissiliana Stricta' Dwarf Upright Norway Spruce <i>EVERGREEN ORNAMENTAL CONIFER; dense dark green broadly upright habit; bright red new growth; resists deer browse; locate in full sun to partial shade & well-drained neutral to acidic moisture retentive soils; native to northern Europe; Zones 2 - 7</i>		5 - 6' 6 - 7' 7 - 8'	B&B B&B B&B	

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BOTANICAL NAME	AVAIL.	SIZE	ROOTS	QNTY
Picea abies 'Compacta' Compact Norway Spruce		7 - 8' 8 - 9'	B&B B&B	
Picea abies 'Cupressina' Columnar Norway Spruce <i>EVERGREEN ORNAMENTAL CONIFER; dark green evergreen needles; narrow upright pyramidal habit; good for narrow spaces; resists deer browse; locate in full sun to partial shade & well-drained neutral to acidic moisture retentive soils; native to northern Europe; Zones 2 - 7</i>		8 - 10' 10 - 12' 12 - 14'	B&B B&B B&B	 N N N
Picea abies 'Hillside Upright' Dwarf Upright Norway Spruce <i>EVERGREEN ORNAMENTAL CONIFER; medium green needles; prominent medium brown buds; irregular upright loosely-pyramidal habit; good for narrow spaces; resists deer browse; locate in full to mostly sunny location & well-drained neutral to acidic moisture retentive soils; native to northern Europe; Zones 2 - 7</i>		7 - 8' 8 - 10'	B&B B&B	
Picea abies 'Pendula' Weeping Norway Spruce <i>EVERGREEN ORNAMENTAL CONIFER; heavily weeping branches; height & shape varies with staking; dark evergreen needles; leader is staked upright; height & shape varies with staking; resists deer browse; locate in full sun to partial shade & well-drained neutral to acidic moisture retentive soils; native to northern Europe; Zones 2 - 7</i>	STAKED	6 - 8' 8 - 10' 8 - 10' spmn	B&B B&B B&B	
Picea abies 'Remonti' Dwarf Norway Spruce <i>EVERGREEN ORNAMENTAL CONIFER; broadly upright pyramid or mound that usually gets taller than wide - 10' tall in about 15 years; short medium green needles; slow growth habit; resists deer browse; locate in full sun to partial shade & well-drained neutral to acidic moisture retentive soils; native to northern Europe; Zones 2 - 7</i>		5 - 6' 6 - 7' 7 - 8'	B&B B&B B&B	
Picea abies 'Wills Zwerg' Dwarf Norway Spruce <i>EVERGREEN ORNAMENTAL CONIFER; upright pyramid gets about 4' tall in 10 years; short medium to light green needles; resists deer browse; locate in full sun to partial shade & well-drained neutral to acidic moisture retentive soils; native to northern Europe; Zones 2 - 7</i>		6 - 7' 7 - 8'	B&B B&B	
Picea abies 'Winkler's Way' Compact Norway Spruce <i>EVERGREEN ORNAMENTAL CONIFER; broadly pyramidal habit to about 8' tall in 10 years; short dark green needles; resists deer browse; locate in full sun to partial shade & well-drained neutral to acidic moisture retentive soils; native to northern Europe; Zones 2 - 7</i>		8 - 10'	B&B	
Picea engelmannii Engelmann Spruce <i>EVERGREEN CONIFER; 1" long gray-green to bluish-green needles; large narrow densely pyramidal habit with ascending branches growing to about 50' tall; locate in full sun & loamy well-drained moisture retentive soil; native to northwestern US & Canada; Zones 3 - 5</i>		8 - 10' 10 - 12' 12 - 14'	B&B B&B B&B	
Picea glauca White Spruce <i>EVERGREEN CONIFER; gray-green needles; narrowly pyramidal; salt tolerance allows use in coastal situations; deer browse resistant; highly deer browse resistant; locate in full sun or light shade & moist organic soils, although tolerant of many soil conditions; US native; Zones 2 - 6 (7)</i>		12 - 14'	B&B	N

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Picea glauca 'Caerulea' Compact Black Hills Spruce <i>EVERGREEN ORNAMENTAL CONIFER; short gray-blue needles emerge almost perpendicular to the stem; slightly narrower and much slower pyramidal habit than the species; numerous brown cones contrast nicely with the foliage; highly deer browse resistant; locate in full sun or light shade & moist organic soils, although tolerant of many soil conditions; US native; Zones 2 - 6 (7)</i>		5 - 6' 6 - 7' 7 - 8' 10 - 12'	B&B B&B B&B B&B	
Picea glauca 'Conica' Alberta Spruce <i>EVERGREEN ORNAMENTAL CONIFER; compact pyramidal habit with short green needles; becomes broadly pyramidal when mature; rarely exceeds 10' in height; highly deer browse resistant; locate in full sun or light shade & moist organic soils, although tolerant of many soil conditions; US native; Zones 2 - 6 (7)</i>		18 - 24" 24 - 30" 30 - 36" 36 - 42" 42 - 48" 6 - 7' 7 - 8' 8 - 10'	3g 3g 7g 7g 7g B&B B&B B&B	
Picea jezoensis subsp. hondoensis Yezo Spruce; Jezo Spruce <i>EVERGREEN CONIFER; flat leathery needles are dark green above and dull blue below; new shoots are buff-brown to orange-brown; gray-brown shallowly fissured bark peels off in small scales; large narrow habit up to 100' tall by 20' wide at maturity; locate in full sun only & any soil that's neutral to very acidic; not tolerant of coastal situations or urban pollution; Japanese native; Zones 2 - 6</i>		8 - 10' 10 - 12'	B&B B&B	
Picea omorika Serbian Spruce <i>EVERGREEN CONIFER; narrow pyramidal habit to 60' tall & half as wide; blue & green needles; locate in full sun or partial shade & moisture retentive well drained soil that's either acidic or alkaline; protect from winter wind in northern range; adapts to poor air quality; native to southern Europe; Zones 4 - 7</i>		6 - 7' 8 - 10' 10 - 12'	B&B B&B B&B	N N
Picea omorika 'Nana' Dwarf Serbian Spruce <i>EVERGREEN ORNAMENTAL CONIFER; bicolor green & blue needles; broadly compact irregular pyramidal habit; locate in full sun or partial shade & moisture retentive well drained soil that's either acidic or alkaline; protect from winter wind in northern range; adapts to poor air quality; native to southern Europe; Zones 4 - 7</i>	PYRAMID	4 - 5' 5 - 6' 6 - 7'	B&B B&B B&B	
Picea omorika 'Pendula' Weeping Serbian Spruce <i>EVERGREEN ORNAMENTAL CONIFER; erect leader with gracefully drooping lateral branches that arch upward toward the tips; typical blue & green needles; very narrow profile makes an excellent choice for tight spaces; locate in full sun or partial shade & moisture retentive well drained soil that's either acidic or alkaline; protect from winter wind in northern range; adapts to poor air quality; native to southern Europe; Zones 4 - 7</i>		6 - 7' 7 - 8' 8 - 10' 10 - 12'	B&B B&B B&B B&B	
Picea orientalis Oriental Spruce <i>EVERGREEN CONIFER; narrow moderate growing pyramid to 50' tall by 25' wide; short glossy dark green needles; short glossy golden needles lay against the branches; locate in full sun or very light shade & moisture retentive well-drained soil that's either acidic or alkaline; protect from winter wind in northern range; native to Asia Minor; Zones (4) 5 - 7</i>		6 - 7' 7 - 8' 8 - 10'	B&B B&B B&B	
Picea orientalis 'Atrovirens' Compact Oriental Spruce <i>EVERGREEN ORNAMENTAL CONIFER; pyramidal habit to about 8' tall by 4' wide in 10 years; can be more open or irregular than the species; male cones are red & female cones are purple before turning brown; typical short glossy dark green needles lay against the branches; locate in full sun or very light shade & moisture retentive well-drained soil that's either acidic or alkaline; protect from winter wind in northern range; native to Asia Minor; Zones (4) 5 - 7</i>		6 - 7'	B&B	

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Picea orientalis 'Aureospicata' Gold-tipped Oriental Spruce <i>EVERGREEN ORNAMENTAL CONIFER; butter yellow new growth turns dark green upon maturity; compact narrow pyramidal profile; male cones are red & female cones are purple before turning brown; typical short glossy mature dark green needles lay against the branches; locate in full sun or very light shade & moisture retentive well-drained soil that's either acidic or alkaline; protect from winter wind in northern range; native to Asia Minor; Zones (4) 5 - 7</i>		5 - 6' 6 - 7' 7 - 8'	B&B B&B B&B	
Picea orientalis 'Compacta' Compact Oriental Spruce <i>EVERGREEN ORNAMENTAL CONIFER; compact pyramidal habit to about 3' tall by 2' wide in 10 years; male cones are red & female cones are purple before turning brown; typical short glossy dark green needles lay against the branches; locate in full sun or very light shade & moisture retentive well-drained soil that's either acidic or alkaline; protect from winter wind in northern range; native to Asia Minor (Krussman) Zones (4) 5 - 7</i>		6 - 7' 7 - 8' 8 - 9'	B&B B&B B&B	
Picea orientalis 'Gowdy' Compact Oriental Spruce <i>EVERGREEN ORNAMENTAL CONIFER; compact pyramidal habit that resembles the species, but grows about half as fast; male cones are red & female cones are purple before turning brown; typical short glossy dark green needles lay against the branches; locate in full sun or very light shade & moisture retentive well-drained soil that's either acidic or alkaline; protect from winter wind in northern range; native to Asia Minor; Zones (4) 5 - 7</i>		6 - 7' 7 - 8' 8 - 10'	B&B B&B B&B	
Picea orientalis 'Gracilis' / 'Gracilis Nana' Compact Oriental Spruce <i>EVERGREEN ORNAMENTAL CONIFER; compact pyramidal habit to about 8' tall by 4' wide in 10 years; male cones are red & female cones are purple before turning brown; typical short glossy dark green needles lay against the branches; locate in full sun or very light shade & moisture retentive well-drained soil that's either acidic or alkaline; protect from winter wind in northern range; native to Asia Minor; Zones (4) 5 - 7</i>		5 - 6'	B&B	
Picea orientalis 'Martin K' Irregular Oriental Spruce <i>EVERGREEN ORNAMENTAL CONIFER; irregular branching that can grow up, sideways, twist or slightly weep; can reach 5' high or wide in 10 years; shape with pruning; male cones are red & female cones are purple before turning brown; short glossy dark green needles lay against the branches; locate in full sun or very light shade & moisture retentive well-drained soil that's either acidic or alkaline; protect from winter wind in northern range; native to Asia Minor; Zones (4) 5 - 7</i>		6 - 7'	B&B	
Picea orientalis 'Nigra Compacta' Compact Oriental Spruce <i>EVERGREEN ORNAMENTAL CONIFER; very broad compact pyramidal habit; leader is cut to make a broadly upright mound; male cones are red & female cones are purple before turning brown; short glossy dark green needles lay against the branches; locate in full sun or very light shade & moisture retentive well-drained soil that's either acidic or alkaline; protect from winter wind in northern range; native to Asia Minor; Zones (4) 5 - 7</i>		4 - 5' 5 - 6' 6 - 7' 7 - 8' 8 - 9'	B&B B&B B&B B&B B&B	
Picea orientalis 'Nutans' Weeping Oriental Spruce <i>EVERGREEN ORNAMENTAL CONIFER; irregular branching with slightly weeping secondary branches; once mature, the magnificence of this cultivar really stands out; male cones are red & female cones are purple before turning brown; short glossy dark green needles lay against the branches; locate in full sun or very light shade & moisture retentive well-drained soil that's either acidic or alkaline; protect from winter wind in northern range; native to Asia Minor; Zones (4) 5 - 7</i>		5 - 6' 6 - 7' 7 - 8'	B&B B&B B&B	

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Picea orientalis 'Skylands' Golden Oriental Spruce <i>EVERGREEN ORNAMENTAL CONIFER; short glossy golden needles lay against the branches; compact pyramidal habit; protection from afternoon sun will keep the color brighter; male cones are red & female cones are purple before turning brown; locate in full sun or very light shade & moisture retentive well-drained soil that's either acidic or alkaline; protect from winter wind in northern range; native to Asia Minor; Zones (4) 5 - 7</i>		6 - 7'	B&B	
Picea pungens 'Baby Blue' Select Blue Colorado Spruce <i>EVERGREEN ORNAMENTAL CONIFER; bright blue needles; somewhat compact pyramidal habit; grown from a select seed source; highly deer browse resistant; locate in full sun & just about any well-drained soil; tolerant of drought & coastal conditions; native to Rocky Mtn. region of US; Zones 3 - 7 (8)</i>		7 - 8' 8 - 10'	B&B B&B	
Picea pungens 'Baby Blue Eyes' Select Blue Colorado Spruce <i>EVERGREEN ORNAMENTAL CONIFER; bright blue needles; somewhat compact pyramidal habit; highly deer browse resistant; locate in full sun & just about any well-drained soil; tolerant of drought & coastal conditions; native to Rocky Mtn. region of US (Holden) Zones 3 - 7 (8)</i>		7 - 8' 8 - 10'	B&B B&B	
Picea pungens 'Bakeri' Select Blue Colorado Spruce <i>EVERGREEN ORNAMENTAL CONIFER; pyramidal habit growing to 50' or more in time; gray-blue needles; highly deer browse resistant; locate in full sun & just about any well-drained soil; tolerant of drought & coastal conditions; native to Rocky Mtn. region of US; Zones 3 - 7 (8)</i>		5 - 6' 6 - 7' 7 - 8' 8 - 10' 10 - 12' 12 - 14'	B&B B&B B&B B&B B&B B&B	
Picea pungens 'Fastigiata' / 'Glauca Fastigiata' / 'Iseli Fastigiata' Columnar Blue Colorado Spruce <i>EVERGREEN ORNAMENTAL CONIFER; narrow columnar habit when young; widens with age (like we do); gray-blue needles; highly deer browse resistant; locate in full sun & just about any well-drained soil; tolerant of drought & coastal conditions; native to Rocky Mtn. region of US (Iseli) Zones 3 - 7 (8)</i>		10 - 12' 12 - 14' 14 - 16'	B&B B&B B&B	
Picea pungens 'Fat Albert' Select Blue Colorado Spruce <i>EVERGREEN ORNAMENTAL CONIFER; uniform broadly compact pyramidal habit; good blue color; highly deer browse resistant; locate in full sun & just about any well-drained soil; tolerant of drought & coastal conditions; native to Rocky Mtn region of US (Iseli) Zones 3 - 7 (8)</i>		7 - 8' 8 - 10' 10 - 12' 12 - 14'	B&B B&B B&B B&B	
Picea pungens 'Glauca' Blue Colorado Spruce <i>EVERGREEN ORNAMENTAL CONIFER; compact pyramidal habit to 60' or more; bright blue to gray-green needles; deer browse resistant; highly deer browse resistant; locate in full sun & just about any well-drained soil; tolerant of drought & coastal conditions; native to Rocky Mtn. region of US; Zones 3 - 7 (8)</i>		6 - 7' 7 - 8' 8 - 10' 10 - 12' 12 - 14' 14 - 16' 16 - 18'	B&B B&B B&B B&B B&B B&B B&B	
Picea pungens 'Hoopsii' Select Blue Colorado Spruce <i>EVERGREEN ORNAMENTAL CONIFER; silvery blue needles; narrow pyramidal habit; open & irregular if not sheared when young; highly deer browse resistant; locate in full sun & just about any well-drained soil; tolerant of drought & coastal conditions; native to Rocky Mtn. region of US; Zones 3 - 7 (8)</i>		7 - 8' 8 - 10' 10 - 12' 12 - 14'	B&B B&B B&B B&B	

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BOTANICAL NAME	AVAIL.	SIZE	ROOTS	QNTY
Picea pungens 'Kosterii' Select Blue Colorado Spruce <i>EVERGREEN ORNAMENTAL CONIFER; silvery-blue needles; intermediate growing pyramidal habit; highly deer browse resistant; locate in full sun & just about any well-drained soil; tolerant of drought & coastal conditions; native to Rocky Mtn. region of US; Zones 3 - 7 (8)</i>		8 - 10' 10 - 12'	B&B B&B	
Picea pungens 'R.H. Montgomery' Dwarf Blue Colorado Spruce <i>EVERGREEN ORNAMENTAL CONIFER; very compact habit with bright blue needles; may become broadly pyramidal with age; highly deer browse resistant; locate in full sun & just about any well-drained soil; tolerant of drought & coastal conditions; native to Rocky Mtn. region of US; Zones 3 - 7 (8)</i>	SPREADING FORM	5 - 6' spr 6 - 7' spr 7 - 8' spr	B&B B&B B&B	
Picea pungens 'R.H. Montgomery' Dwarf Blue Colorado Spruce <i>EVERGREEN ORNAMENTAL CONIFER; very compact broadly pyramidal habit with bright blue needles; highly deer browse resistant; locate in full sun & just about any well-drained soil; tolerant of drought & coastal conditions; native to Rocky Mtn. region of US; Zones 3 - 7 (8)</i>	UPRIGHT FORM	7 - 8' 8 - 10'	B&B B&B	
Pinus aristata Bristlecone Pine <i>EVERGREEN ORNAMENTAL CONIFER; short bluish-green needles in bundles of 5 with resin spots; very slow irregular upright bushy habit to about 15' tall; deer browse resistant; not tolerant of atmospheric pollution; long lived in native habitat; locate in full sun & any well-drained soil; drought tolerant; native to southwestern US; Zones 4 - 7</i>		4 - 5' 5 - 6'	B&B B&B	
Pinus bungeana Lacebark Pine <i>EVERGREEN ORNAMENTAL CONIFER; magnificent exfoliating bark exhibits patches of lime green to nearly white; glossy dark green needles in groups of 3; pyramidal habit to 50'; locate in full sun & most well-drained soils; native to China; Zones (4) 5 - 7</i>		7 - 8' 8 - 10' 14 - 16'	B&B B&B B&B	
Pinus flexilis 'Extra Blue' Blue Pyramidal Limber Pine <i>EVERGREEN ORNAMENTAL CONIFER; bright blue needles in groups of 5; pyramidal habit when young; becomes more irregular when mature at 30' tall; locate in full sun & well-drained moist organic soil; native to western North America; Zones 4 - 7</i>		4 - 5' 5 - 6' 6 - 7' 7 - 8'	B&B B&B B&B B&B	
Pinus flexilis 'Vanderwolf Pyramid' Blue Pyramidal Limber Pine <i>EVERGREEN ORNAMENTAL CONIFER; pyramidal habit; steel-blue needles in groups of 5; moderate to rapid grower; locate in full sun & well-drained organic moisture retentive soil; native to western North America; Zones 4 - 7</i>		8 - 10' 10 - 12'	B&B B&B	
Pinus leucodermis Bosnian Pine <i>EVERGREEN CONIFER; pyramidal habit to about 10' & half as wide in 10 years; dark bluish-purple cones appear in spring before turning brown at maturity; dark green needles in groups of 2; high salt tolerance for coastal areas & along roads; locate in full sun & most well-drained soils including alkaline; native to the mountains of southeastern Europe; Zones 5 - 7</i>		6 - 7' 7 - 8'	B&B B&B	

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Pinus mugo var. mughus Mugo Pine; Swiss Mountain Pine <i>EVERGREEN ORNAMENTAL CONIFER; compact mounding growth that can attain some size in time if not pruned; medium green needles in groups of 2; locate in full sun or light shade & most soils that drain; tolerant of a wide pH range; native to Europe; Zones 3 - 7</i>		18 - 24" spr	3g / 5g	
Pinus rigida Pitch Pine; Northern Pitch Pine <i>EVERGREEN ORNAMENTAL CONIFER; open irregular upright habit to 40' or more; 3 dark green needles per bundle; not particularly ornamental; locate in full sun & acidic soils with reasonable drainage; very tolerant of sterile sandy soil; native to eastern US & Canada; Zones 4 - 7</i>		7 - 8' 8 - 10'	B&B B&B	
Pinus strobus 'Blue Shag' Dwarf Eastern White Pine <i>EVERGREEN ORNAMENTAL CONIFER; dark blue-green needles in groups of 5; compact mounding habit; locate in full sun & well drained acidic soil; protect from wind in colder locations; native to eastern US & Canada; Zones 3 - 7 (8)</i>		4 - 5' spr	B&B	
Pinus strobus 'Contorta' Contorted Dwarf Eastern White Pine <i>EVERGREEN ORNAMENTAL CONIFER; upright grower with twisted needles & stems; typical soft green needles in groups of 5; locate in full sun & well drained acidic soil; protect from wind in colder locations; native to eastern US & Canada; Zones 3 - 7 (8)</i>		12- 14' 14 - 16' 16 - 18'	B&B B&B B&B	
Pinus strobus 'Fastigiata' Columnar Eastern White Pine <i>EVERGREEN ORNAMENTAL CONIFER; fairly narrow upright habit becomes broadly columnar when mature; soft green needles in groups of 5; locate in full sun & well drained acidic soil; protect from wind in colder locations; PHS Gold Metal; native to eastern US & Canada; Zones 3 - 7 (8)</i>		10 - 12' 12 - 14' 14 - 16' 16 - 18' 18 - 20' 20 - 22'	B&B B&B B&B B&B B&B B&B	
Pinus strobus 'Hillside Winter Gold' Golden Eastern White Pine <i>EVERGREEN ORNAMENTAL CONIFER; evergreen needles in groups of 5 turn gold in winter; upright growth is relatively typical of the species, although it has a tendency to become more openly branched and needs shearing to stay compact and bushy; locate in full sun & well drained acidic soil; protect from wind in colder locations; native to eastern US & Canada; Zones 3 - 7 (8)</i>		10 - 12' 12 - 14'	B&B B&B	
Pinus strobus 'Louie' Golden Eastern White Pine <i>EVERGREEN ORNAMENTAL CONIFER; upright pyramidal growth typical of the species; bright gold evergreen needles in groups of 5 all year are accentuated in winter; may burn in full sun, especially when young; locate in full sun or partial shade & well drained acidic soil; protect from wind in colder locations; native to eastern US & Canada; (G. William) Zones 3 - 7 (8)</i>		8 - 10' 10 - 12' 12 - 14'	B&B B&B B&B	
Pinus strobus 'Nana' Dwarf Eastern White Pine <i>EVERGREEN ORNAMENTAL CONIFER; globular to spreading habit; soft medium green needles in groups of 5; locate in full sun & well drained acidic soil; protect from wind in colder locations; native to eastern US & Canada; Zones 3 - 7 (8)</i>	SPREADING FORM	6 - 7' spr 7 - 8' spr 8 - 10' spmn 8 - 9' spr	B&B B&B B&B B&B	
Pinus strobus 'Pendula' Weeping Eastern White Pine <i>EVERGREEN ORNAMENTAL CONIFER; feathery appearance but full, soft medium green needles in groups of 5; weeping habit varies with staking; locate in full sun & well drained acidic soil; protect from wind in colder locations; native to eastern US & Canada; Zones 3 - 7 (8)</i>		5 - 6' 6 - 8' 8 - 10'	B&B B&B B&B	

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Pinus sylvestris 'Globosa Viridis' Dwarf Scotch Pine <i>EVERGREEN ORNAMENTAL CONIFER; compact pyramidal habit; short needles in bundles of 2 surround the bud with longer bright green twisting needles outside the shorter ones; locate in full sun & well-drained acidic soil; survives in areas with poor soils if drained; native to northern Europe & Asia; Zones 3 - 6 (7)</i>		4 - 5' 5 - 6'	B&B B&B	
Populus tremuloides Quaking Aspen; Quaking Poplar <i>DECIDUOUS SHADE TREE; narrow upright habit to 30' tall & half as wide; can be larger in ideal conditions - not the mid-Atlantic; medium green summer foliage turns brilliant yellow in fall; flat petiole permits leaves to quiver in the slightest breeze; performs best in northern range or higher elevations; locate in full sun or minimal shade & most well-drained moisture retentive soils; US native; Zones 2 - 6 (7)</i>		2 - 2.5" 2.5 - 3" 4 - 4.5"	B&B B&B B&B	
Prunus cerasifera Crimson Pointe ('Cripoizam') BRANCHED AT 3' Columnar Purpleleaf Plum <i>DECIDUOUS ORNAMENTAL TREE; pink buds open to white flowers in early spring before the foliage; dark purple-bronze spring foliage; grows to 20' tall by 6' wide in 10 years; sport from 'Newport'; locate in full sun & any well-drained soil; Asian native (LCN) Zones 5 - 8</i>		4 - 5" 5 - 6"	B&B B&B	
Prunus sargentii 'Columnaris' Columnar Sargent Cherry <i>DECIDUOUS ORNAMENTAL TREE; narrow upright habit to 35' tall by 15' wide; pink flowers in late April before the foliage; shiny dark green summer foliage turns reddish-bronze in the fall; glossy reddish-brown bark; locate in full sun & any well-drained soil; Japanese native; Zones 4 - 7</i>		2.5 - 3" 3 - 3.5" 3.5 - 4"	B&B B&B B&B	N N N
Pyrus calleryana 'Aristocrat' Flowering Pear; Callery Pear <i>DECIDUOUS ORNAMENTAL TREE; profuse white flowers in early April; yellow to red fall foliage; pyramidal heads reaching 45' tall by 25' wide; weak wooded - especially from wet snow or ice storms; susceptible to fireblight; locate in full sun or light shade & just about any soil with reasonable drainage; tolerant of drought & urban conditions; Chinese native (Shaw) Zones (4) 5 - 8</i>		3.5 - 4" 4 - 4.5" 5 - 6" 6 - 7"	B&B B&B B&B B&B	
Pyrus calleryana Chanticleer ('Glenn's Form') / 'Cleveland Select' Flowering Pear; Callery Pear <i>DECIDUOUS ORNAMENTAL TREE; profuse white flowers in mid April; yellow to red fall foliage is retained late into the season; narrowly pyramidal to columnar heads reaching 40' tall by 20' wide; weak wooded - especially from wet snow or ice storms; locate in full sun or light shade & just about any soil with reasonable drainage; tolerant of drought & urban conditions; Chinese native (Scanlon) Zones 5 - 8</i>		2.5 - 3" 4 - 4.5"	B&B B&B	N
Pyrus communis 'Bartlett' Fruiting Pear <i>DECIDUOUS FRUIT TREE; profuse white flowers in early spring; greenish-yellow fruit in early fall; upright oval habit to about 10' tall by 8' wide; locate in full sun & neutral to acidic well-drained moisture retentive soil; Zones 5 - 8</i>		2 - 2.5" 2.5 - 3" 3 - 3.5"	B&B B&B B&B	
Quercus coccinea Scarlet Oak <i>DECIDUOUS SHADE TREE; large pyramidal tree to 75' tall by 50' wide; deeply cut foliage that usually turns dark red in late fall & is retained into or through winter; important wildlife food source; fall transplant hazard, however, if dug before leaf drop & thoroughly hydrated it has better survival results; locate in full sun & acidic well-drained soil; native to US & Canada; Zones 4 - 9</i>		5 - 6" 8 - 9"	B&B B&B	N N

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BOTANICAL NAME	AVAIL.	SIZE	ROOTS	QNTY	
Quercus macrocarpa Burr Oak; Mossycup Oak <i>DECIDUOUS SHADE TREE; irregular open broadly spreading heads reaching 80' tall & often wider; bright green summer foliage turns shades of yellow-brown in fall; fall transplant hazard; important wildlife food source; fall transplant hazard, however, if dug before leaf drop & thoroughly hydrated it may survive; locate in full sun & virtually any soil type; tolerant of many urban conditions; native to US & Canada; Zones 3 - 8</i>		2 - 2.5" c	B&B		N
		3 - 3.5" c	B&B		N
		3.5 - 4" c	B&B		N
		5 - 6" c	B&B		
		6 - 7" c	B&B		
		7 - 8" c	B&B		
Quercus palustris Pin Oak <i>DECIDUOUS SHADE TREE; grows to 60' or more; broad pyramidal habit; brown to russet fall foliage; important wildlife food source; fall transplant hazard, however, if dug before leaf drop & thoroughly hydrated it may survive; locate in full sun & moist acidic soil; not tolerant of alkaline soils; US native; Zones 4 - 8</i>		3 - 3.5" c	B&B		N
		3.5 - 4" c	B&B		N
		4 - 4.5" c	B&B		
		4.5 - 5" c	B&B		
		5 - 6" c	B&B		
		6 - 7" c	B&B		
		7 - 8" c	B&B		
		8 - 9" c	B&B		N
		9 - 10" c	B&B		
		10 - 11" c	B&B		
Quercus palustris Green Pillar ('Pringreen') Columnar Pink Oak <i>DECIDUOUS ORNAMENTAL TREE; narrow pyramidal habit to about 50' tall by 15' wide; glossy summer foliage turns maroon in the fall; lower branches won't droop like the species; important wildlife food source; fall transplant hazard, however, if dug before leaf drop & thoroughly hydrated it may survive; locate in full sun & moist acidic soil; not tolerant of alkaline soils; US native (Flemer) Zones 4 - 8</i>		3 - 3.5" c	B&B		N
		4 - 4.5" c	B&B		
		4.5 - 5" c	B&B		
		5 - 6" c	B&B		
		6 - 7" c	B&B		
Quercus x Regal Prince ('Long') Columnar Hybrid English Oak <i>DECIDUOUS ORNAMENTAL TREE; glossy, dark green mildew resistant foliage; strong narrow upright head; good for tight spaces or for when a dramatic upright form is needed; important wildlife food source; fall transplant hazard, however, if dug before leaf drop & thoroughly hydrated it may survive; locate in full sun & most acidic to slightly alkaline soils [Q. robur 'Fastigiata' x Q. bicolor] Zones 4 - 8</i>		2.5 - 3" c	B&B		N
		3 - 3.5" c	B&B		N
		3.5 - 4" c	B&B		
		4 - 4.5" c	B&B		
		4.5 - 5" c	B&B		
		5 - 6" c	B&B		
		6 - 7" c	B&B		
	7 - 8" c	B&B			
Quercus robur Rosehill ('Asjes') Columnar English Oak <i>DECIDUOUS ORNAMENTAL TREE; mildew resistant; upright oval heads; important wildlife food source; fall transplant hazard, however, if dug before leaf drop & thoroughly hydrated it may survive; locate in full sun & moist soil of varying acidity; European native; Zones 4 - 8</i>		3.5 - 4" c	B&B		
		4 - 4.5" c	B&B		
		4.5 - 5" c	B&B		
		5 - 6" c	B&B		
		6 - 7" c	B&B		
Quercus rubra Northern Red Oak <i>DECIDUOUS SHADE TREE; large grower to 60' or more in height & width; fall foliage is russet to bright red; fall transplant hazard; important wildlife food source; fall transplant hazard, however, if dug before leaf drop & thoroughly hydrated it may survive; locate in full sun & well-drained neutral to acidic soil; native to US & Canada; Zones (3) 4 - 7</i>		5 - 6" c	B&B		
		6 - 7" c	B&B		
		7 - 8" c	B&B		
		8 - 9" c	B&B		
		9 - 10" c	B&B		
		10 - 11" c	B&B		
		11 - 12" c	B&B		
Rhus aromatica 'Gro Low' Dwarf Fragrant Sumac <i>DECIDUOUS ORNAMENTAL SHRUB; low spreading habit to 2' tall by 6' or more wide; orange to red fall foliage; red fruit in summer; excellent spreading groundcover is perfect on banks with moderate to limited moisture (when established); locate in full sun or moderate shade & well-drained acidic soil; native to eastern US & Canada; Zones (3) 4 - 9</i>		18 - 24" spr	3g		

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Salix alba 'Tristis' Golden Weeping Willow; Niobe Weeping Willow <i>DECIDUOUS SHADE TREE; large rapid grower to 60' or more; broad graceful weeping heads; new branches are golden; locate in full sun & moist organic acidic to neutral soils; native to Europe & Asia; Zones 2 - 8 (9)</i>		2.5 - 3" 3 - 3.5" 3.5 - 4" 4 - 4.5" 4.5 - 5" 5 - 6" 6 - 7"	B&B B&B B&B B&B B&B B&B B&B	 N N
Stewartia pseudocamellia Japanese Stewartia <i>ORNAMENTAL TREE; 3" diameter white flowers with prominent yellow centers in late June or July; pyramidal habit to about 30' tall by 20' wide; exfoliating reddish-brown bark; dark green summer foliage turns reddish-orange to burgundy in fall; locate in mostly sunny or filtered shade & rich organic well-drained moisture retentive acidic soil; Asian native; Zones 5 - 8</i>	TREE FORM	2.5 - 3" 3 - 3.5"	B&B B&B	
Syringa pubescens subsp. patula 'Miss Kim' Manchurian Lilac <i>DECIDUOUS FLOWERING SHRUB; very fragrant light lavender blooms in mid to late May; compact upright habit to 6' tall by 5' wide; locate in full sun or light shade & well-drained organic soil of any pH; native to northeastern Asia; Zones 4 - 7</i>		4 - 5' 5 - 6' 6 - 7'	B&B B&B B&B	
Syringa reticulata 'Ivory Silk' Japanese Tree Lilac <i>DECIDUOUS ORNAMENTAL TREE; profuse fragrant creamy-white flowers in June occur at a young age; upright oval heads to 25'; branching starts from a single trunk at about 5' above the ground; locate in full sun or light shade & well-drained organic soil of any pH; Japanese native; PHS Gold Metal (Sheridan N) Zones 3 - 7</i>	TREE FORM	3.5 - 4" 4 - 4.5" 4.5 - 5" 5 - 6"	B&B B&B B&B B&B	
Taxodium distichum var. distichum Common Bald Cypress <i>DECIDUOUS CONIFER; pyramidal deciduous conifer to about 50' tall; locate in full sun or minimal shade & moist to well-drained acidic soils; tolerant of urban situations with little water & compacted soils as well as wet tidal areas; US native; Zones 4 - 11</i>		8 - 10' 10 - 12' 12 - 14'	B&B B&B B&B	
Thuja occidentalis 'Little Giant' Globe Eastern Arborvitae; Globe White Cedar <i>EVERGREEN ORNAMENTAL CONIFER; slow growing globular habit to 4' x 4'; vertical bright green foliage; tolerant of air pollution & Black Walnut; locate in full sun or light shade; adaptable to varying soil acidity & moisture - except extremes of either; native to eastern US & Canada; Zones 3 - 7</i>		18-24" 30 - 36" 4 - 5'	7g 7g B&B	
Thuja occidentalis 'Nigra' Dark American Arborvitae; White Cedar <i>EVERGREEN ORNAMENTAL CONIFER; dark green foliage all year; pyramidal habit to 25' by 6' wide; tolerant of air pollution & Black Walnut; locate in full sun or light shade; adaptable to varying soil acidity & moisture - except extremes of either; native to eastern US & Canada; Zones 3 - 7</i>		10 - 12' 14 - 16'	B&B B&B	
Thuja occidentalis 'Snow Tip' Variegated Eastern Arborvitae; Variegated White Cedar <i>EVERGREEN ORNAMENTAL CONIFER; creamy to gold-tipped new needles; tolerant of air pollution & Black Walnut; locate in full sun (for best color) or light shade; adaptable to varying soil acidity & moisture - except extremes of either; native to eastern US & Canada; Zones (3) 4 - 7</i>		7 - 8' 8 - 10'	B&B B&B	

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Thuja occidentalis 'Spiralis' Spiral American Arborvitae; Spiral White Cedar <i>EVERGREEN ORNAMENTAL CONIFER; pyramidal habit to 40', often with a single leader; interesting nubby medium to dark green foliage; tolerant of air pollution & Black Walnut; locate in full sun or light shade; adaptable to varying soil acidity & moisture - except extremes of either; native to eastern US & Canada; Zones 3 - 7</i>		8 - 10' 12 - 14'	B&B B&B		N N
Tilia cordata 'Greenspire' Littleleaf Linden <i>DECIDUOUS SHADE TREE; very fragrant yellowish flowers in late June; dark green foliage turns yellow in fall; distinct pyramidal heads reaching 60' tall & half or more as wide; liked by Japanese Beetles; locate in full sun & most soils; very tolerant of urban conditions; native to Europe; Zones (3) 4 - 7</i>		3.5 - 4" 4 - 4.5" 4.5 - 5" 5 - 6" 6 - 7" 7 - 8"	B&B B&B B&B B&B B&B B&B		N N N
Tilia tomentosa 'Sterling' Silver Linden <i>DECIDUOUS SHADE TREE; fragrant flowers in late June are not showy; vigorous grower with pyramidal head to 50' tall & half or more as wide; green summer foliage has a generous amount of tomentose below, making it especially ornamental in the wind & resistant to Japanese Beetles; variable golden fall foliage; locate in full sun with moist well drained soils; heat & drought tolerant; native to Europe & western Asia (Wandell) Zones 4 - 8</i>		4.5 - 5" 5 - 6"	B&B B&B		
Tsuga canadensis Canadian Hemlock <i>EVERGREEN CONIFER; short medium green needles; large pyramidal habit to 50' or more; excellent screen for shady locations; adelgid can be controlled by reducing stress with adequate moisture & is almost a non-factor on intermediate to dwarf cultivars; protect from winter winds in colder areas; locate in full sun or full shade & moist well-drained acidic soils; native to US & Canada; Zones (3) 4 - 7</i>		10 - 12' 12 - 14' 14 - 16'	B&B B&B B&B		N
Tsuga canadensis 'Pendula' Sargent Weeping Hemlock <i>EVERGREEN ORNAMENTAL CONIFER; graceful wide-spreading evergreen; small foliage; adelgid can be controlled by reducing stress with adequate moisture & is almost a non-factor on intermediate to dwarf cultivars; protect from winter winds in colder areas; locate in full sun or full shade & moist well-drained acidic soils; native to US & Canada; Zones (3) 4 - 7</i>		4 - 5' spr 5 - 6' spr 6 - 7' spr 7 - 8' spr 8 - 9' spr	B&B B&B B&B B&B B&B		
Ulmus americana 'New Harmony' American Elm <i>DECIDUOUS SHADE TREE; upright habit with arching branches to 70' tall & wide at maturity; yellow fall foliage; highly resistant to Dutch Elm disease, but not most other problems; tolerates drought, air pollution & black walnuts; locate in full sun or light shade & moist or wet to well-drained soil that's widely pH, salt & urban tolerant; native to US & Canada (Townsend & Schreiber / USNA) Zones 5 - 10</i>		3 - 3.5" 3.5 - 4" 4 - 4.5"	B&B B&B B&B		N N N
Ulmus americana 'Valley Forge' American Elm <i>DECIDUOUS SHADE TREE; upright habit with arching branches to 25' tall by 30' wide at 12 years; yellow fall foliage; excellent lawn or shade tree; highly resistant to Dutch Elm disease, but not most other problems; tolerates drought, air pollution & black walnuts; locate in full sun or light shade & moist or wet to well-drained soil that's widely pH & salt tolerant; native to US & Canada (Townsend & Schreiber / USNA) Zones (4) 5 - 9</i>		3 - 3.5" 3.5 - 4" 4 - 4.5"	B&B B&B B&B		N N N
Ulmus x 'Patriot' Hybrid Elm <i>DECIDUOUS SHADE TREE; stiffly upright vase-shaped habit growing to about 50' by only 25' wide; yellow fall foliage; locate in full sun or light shade & moist or wet to well-drained soil that's widely pH & salt tolerant [U. 'Urban' x U. wilsoniana selection] Zones 5 - 7</i>		3.5 - 4" 4 - 4.5"	B&B B&B		N

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Viburnum x 'Burkwoodii' Fragrant Viburnum <i>DECIDUOUS FLOWERING SHRUB; pink buds open to fragrant white flowers in April; glossy dark green foliage turns reddish in fall & is semi-evergreen in southern range; upright bushy habit to 10' tall & nearly as wide; locate in full to partial sun & neutral to acidic well-drained moisture retentive soil; Zones 5 - 8</i>		3 - 4'	7g	
Viburnum dentatum Arrowwood Viburnum <i>DECIDUOUS FLOWERING SHRUB; white flower in June; black fruit in fall; variable fall foliage of yellows & reds; upright to broadly upright habit to 15' tall; locate in full sun or moderate shade; prefers well-drained soil but is very adaptable including coastal locations; native to US & Canada; Zones (2) 3 - 8</i>		3 - 4'	7g	
Viburnum opulus European Cranberrybush Viburnum <i>DECIDUOUS FLOWERING SHRUB; white lacecap flowers in May; bright red fruit clusters in September & October; broad upright habit to 15'; variable yellow & red fall foliage; locate in full sun or partial shade & just about any soil including boggy; native to Europe & Asia; Zones 3 - 8</i>		5 - 6' 6 - 7' 7 - 8' 8 - 10'	B&B B&B B&B B&B	N N N N
Viburnum opulus 'Roseum' European Snowball Viburnum; Old Fashioned Snowball Viburnum <i>DECIDUOUS FLOWERING SHRUB; vigorous grower to 10'; very showy sterile white flowers in mid May; does not fruit; locate in full sun or partial shade & just about any soil including boggy; native to Europe & Asia; Zones 3 - 8</i>		4 - 5'	B&B	N
Viburnum plicatum f. tomentosum 'Mariesii' Doublefile Viburnum <i>DECIDUOUS FLOWERING SHRUB; horizontal spreading branches are covered by white flowers in May, followed by red fruit in summer that turns to black; grows to 8' tall by 12' wide; locate in full sun to light shade & well-drained moisture retentive soil; native to eastern Asia; Zones 5 - 7 (8)</i>		4 - 5'	10g / 15g	
Viburnum plicatum f. tomentosum 'Shasta' Doublefile Viburnum <i>DECIDUOUS FLOWERING SHRUB; profuse 5" white cymes in May along the branches; red fruit in July matures to black over several weeks; dark green summer foliage turns purplish-red to maroon in fall; broadly spreading habit to 6' tall by 12' wide; locate in full sun to light shade & well-drained moisture retentive soil; PHS Gold Metal; native to eastern Asia (Egolf / USNA) Zones (5) 6 - 8</i>		4 - 5'	10g / 15g	
Viburnum prunifolium Blackhaw Viburnum <i>DECIDUOUS FLOWERING SHRUB; small white flower clusters in May are a little malodorous; black fruit in September; purple-red fall foliage; upright habit to 15'; locate in full sun or shade & well-drained soil; drought tolerant; US native; Zones 3 - 9</i>		6 - 7' 7 - 8'	B&B B&B	
Viburnum x rhytidophylloides 'Alleghany' Lantanaphyllum Viburnum <i>DECIDUOUS FLOWERING SHRUB; dark heavy textured semi-evergreen foliage; creamy white flowers in May & occasionally in the fall; red fruit in September matures to black in October; upright to 10' tall & nearly as wide; locate in full sun to light shade & well-drained moisture retentive acidic soil [V. rhytidophyllum x V. lantana 'Mohican'] (Egolf) Zones (4) 5 - 8</i>		4 - 5'	B&B	N
Viburnum rhytidophyllum Leatherleaf Viburnum <i>EVERGREEN FLOWERING SHRUB; yellowish-white flowers in mid May; fruit opens red before maturing to black in fall; long narrow foliage is semi-evergreen in northern range - especially dependent on winter wind exposure; upright bushy habit to 15' tall & slightly narrower; locate in light to medium shade & well-drained moisture retentive acidic soil; native to China; Zones 5 - 7</i>		4 - 5'	10g	

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Viburnum trilobum 'Bailey Compact' Compact American Cranberrybush Viburnum <i>DECIDUOUS FLOWERING SHRUB; white spring lacecap flower in mid to late May are minimal; sparse fruit changes from yellow-red to bright red in mid to late fall; red fall foliage; intermediate grower to about 6' tall and wide; locate in full sun to partial shade & moist to well-drained acidic soil; native to US & Canada (Perkins / Bailey) Zones 4 - 7</i>		5 - 6'	B&B	
Viburnum trilobum 'Wentworth' American Cranberrybush Viburnum <i>DECIDUOUS FLOWERING SHRUB; white spring lacecap flower in mid to late May; fruit changes from yellow-red to bright red in mid to late fall and is larger and more persistent than the species; reddish fall foliage; intermediate grower to 12' tall and almost as wide; locate in full sun to partial shade & moist to well-drained acidic soil; native to US & Canada; Zones 4 - 7</i>		7 - 8' 8 - 10'	B&B B&B	N

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