

Approved Street Trees for Grand Junction's Rights-of-Way (ROW)

Trees within this list are those which, given proper and consistent maintenance including supplemental irrigation, proper pruning, and avoidance of chemical contaminants, will be assets to Grand Junction's public ROW's. **While this list is a good guide for private property planting**, there are additional quality tree species not included as their growth habit conflicts with the space near the edge of a street (conifers, weeping trees, etc.).

Moisture requirements are based on observed species averages following root establishment. All trees require some level of supplemental water for root establishment.

Per Grand Junction's Forestry Board, the following species are no longer permitted to be planted as street trees (invasive, poor performance, threatened by pests, weak-wooded, etc.):

- Any of the poplar (*Populus*) species including cottonwoods
- Aspen (*Populus tremuloides*)
- Any of the willow (*Salix*) species
- Siberian elm (*Ulmus pumila*)
- Weeping and pendulous trees
- Ash (*Fraxinus*) species
- Silver maple (*Acer saccharinum*)
- Autumn Blaze / Freeman maple (*Acer x freemannii*)
- Sunburst honeylocust (*Gleditsia triacanthos inermis* 'Sunburst')
- Russian-olive (*Elaeagnus angustifolia*)
- Tree-of-heaven (*Ailanthus altissima*)

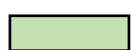
This list may act as a guide for private property trees. Trees not included on the approved street tree list may not be planted in the public right-of-way (as a street tree) without express permission from the Grand Junction City Forester. If a tree is excluded, it may be permitted on a case-by-case basis. Contact the Office of the City Forester (970-254-3861 / forestry@gjcity.org) for details, site inspections, and planting permits.

Per Grand Junction municipal code (§8.32.080), the adjoining property owner is responsible for providing water to street trees, and the City of Grand Junction provides standard maintenance services (pruning and removal) for street trees.

A free permit is required from the Office of the City Forester for tree planting and removal of any trees in the public right-of-way.

Minimum Spacing Requirements

- 35' between shade trees
- 25' between ornamental trees
- 30' from curb at intersections
- 20' from streetlights
- 10' from alleys, driveways & fire hydrants
- 7' from attached sidewalks
- 5' from water meters



Shading indicates species suitable for planting under overhead utilities. These varieties should only be planted in situations where overhead growth restrictions exist.

Grand Junction Approved Street Tree List

Grand Junction Approved Street Tree List															
	SMALLER TREES FOR UNDER POWERLINES														
									Updated March 2021						
Family	Botanical Name	Acceptable Cultivar	Common Name	Hardiness Zone	Moisture Level	Soil Salt Tolerance	Height @ Maturity	Canopy Spread @ Maturity	Canopy Area @ Maturity	Growth Form/Shape	Flowers	Fruits	Leaf Color Spring	Leaf Color Fall	Additional Notes (includes compaction/tolerances/restrictions)
Aceraceae	<i>Acer buergeranum</i>	Streetwise	Trident Maple	5	Min	Tolerant	30	30	707	Oval to rounded	Small green-yellow in spring, insignificant	Green samaras	Dark green	Orange-red	Slow growing. No pests or disease problems at this time. Snow & ice damage may be a concern.
Aceraceae	<i>Acer campestre</i>		Hedge Maple	5	Min	Tolerant	30	30	707	Oval to rounded, dense	Small green-yellow in spring, insignificant	Green samaras	Dark green	Yellow	Tolerates dry soil. Intolerant of soil compaction. Prune to develop strong branching structure and overhead clearance.
Aceraceae	<i>Acer campestre</i>	Panacek	Metro Gold Hedge Maple	5b	Min	Tolerant	30	15	177	Upright to narrow oval	Small green-yellow in spring, insignificant	Green samaras	Dark green	Yellow	Upright, narrow form. Tolerates dry soil. Intolerant of soil compaction. Prune to develop strong branching structure and overhead clearance.
Aceraceae	<i>Acer campestre</i>	JFS Shichtel2	Streetside Maple	5	Min	Tolerant	32	15	177	Upright to narrow oval	Small green-yellow in spring, insignificant	Green samaras	Dark green	Yellow	Upright, narrow form. Tolerates dry soil. Intolerant of soil compaction. Prune to develop strong branching structure and overhead clearance. Availability may be limited.
Aceraceae	<i>Acer glabrum</i>		Rocky Mountain Maple	5	Min to Mod	Sensitive	20	13	133	Oval	Small green-yellow in spring, insignificant	Green samaras	Green	Yellow-orange-red	Plant in protected site - heat tolerance may be a concern. Prune to develop strong branching structure and overhead clearance. Depending on root stock, may have issues with higher pH soils.
Aceraceae	<i>Acer grandidentatum</i>	Schmidt	Rocky Mountain Glow	4	Xeric	Sensitive	20	13	133	Oval	Small green-yellow in spring, insignificant	Green samaras	Green	Yellow-orange-red	Faster growing than species. Intolerant of soil compaction. Prune to develop strong branching structure and overhead clearance.
Aceraceae	<i>Acer grandidentatum</i>		Bigtooth Maple	4	Xeric	Sensitive	25	25	491	Rounded to broad spreading	Small green-yellow in spring, insignificant	Green samaras	Green	Orange-red	Also known as Wasatch maple. Slow growing. Tolerant of alkaline soils. Typically multistem. Prune to develop central leader, strong branching structure and overhead clearance.
Aceraceae	<i>Acer grandidentatum</i>	JFS-NuMex 3 P.A.F.	Mesa Glow Bigtooth Maple	4	Xeric	Sensitive	25	15	177	Upright oval	Small green-yellow in spring, insignificant	Green samaras	Dark green	Orange-red to red	Upright form of parent species. Slow growing. Tolerant of alkaline soils. NM State introduction - Availability may be limited. Prune to develop central leader, strong branching structure and overhead clearance.
Aceraceae	<i>Acer grandidentatum x saccharum</i>	Hipzam	Highland Park Maple	4	Min	Sensitive	35	22	380	Narrow upright to pyramidal	Small green-yellow in spring, insignificant	Green samaras	Dark green	Red	Faster growing & more upright than bigtooth maple. More heat & drought resistant than sugar maple. Prune to develop overhead clearance.
Aceraceae	<i>Acer grandidentatum x saccharum</i>	Orbit	Canyon Treasure Bigtooth Maple	4	Min	Sensitive	35	22	380	Oval to rounded	Small green-yellow in spring, insignificant	Green samaras	Dark green	Red	Very cold hardy. NDSU introduced - Availability may be limited. Prune to develop overhead clearance.
Aceraceae	<i>Acer griseum</i>		Paperbark maple	4	Mod	Intermediate	25	20	314	Oval to vase	Small green in spring, insignificant	Brown samaras	Dark green	Yellow-orange-red	Very slow growing. Attractive, exfoliating bark. Tolerant of slightly alkaline soils. Intolerant of extended drought. Not recommended for planting in or near hardscape. Availability may be limited. Prune to develop single stem form and overhead clearance.
Aceraceae	<i>Acer griseum</i>	JFS KW8AGRI	Fireburst Paperbark Maple	5	Mod	Intermediate	22	15	177	Upright oval	Small green in spring, insignificant	Brown samaras	Dark green	Brilliant red	Faster growing variety of parent species. Attractive, exfoliating bark. Tolerant of slightly alkaline soils. Intolerant of extended drought. Not recommended for planting in or near hardscape. Availability may be limited. Improved branch structure over parent species. Prune to develop single stem form and overhead clearance.
Aceraceae	<i>Acer miyabei</i>	Morton	State Street Maple	4	Mod	Intermediate	45	35	962	Upright pyramidal to rounded	Small green-yellow in spring, insignificant	Green samaras	Green	Yellow-orange	Cold hardy & drought tolerant, chlorosis resistant; pest free.
Aceraceae	<i>Acer miyabei</i>	JFS-KW3AMI	Rugged Ridge Maple	4	Mod	Intermediate	50	35	962	Upright oval	Small green-yellow in spring, insignificant	Green samaras	Dark green	Yellow	Cold hardy & drought tolerant; chlorosis resistant; pest free; touted as most vigorous miyabe maple.
Aceraceae	<i>Acer negundo 'Sensation'</i>	Sensation	Sensation boxelder	3	Moderate	Tolerant	45	35	962	Rounded		Seedless male clone	Coppery-red	Red	A colorful and unique selection of the rugged North American native species. Spring leaves start red and turn green as the develop. Seedless male clone makes the tree less attractive to box elder bugs.
Aceraceae	<i>Acer nigrum</i>		Black Maple	4	Mod	Sensitive	60	40	1257	Upright oval to rounded	Small green-yellow in spring, insignificant	Green samaras	Dark green	Yellow-orange-red	More drought & heat tolerant than sugar maple. Intolerant of poorly drained soils. Availability may be limited.

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Family	Botanical Name	Acceptable Cultivar	Common Name	Hardiness Zone	Moisture Level	Soil Salt Tolerance	Height @ Maturity	Canopy Spread @ Maturity	Canopy Area @ Maturity	Growth Form/Shape	Flowers	Fruits	Leaf Color Spring	Leaf Color Fall	Additional Notes (includes compaction/tolerances/restrictions)
Aceraceae	<i>Acer buergeranum</i>	Streetwise	Trident Maple	5	Min	Tolerant	30	30	707	Oval to rounded	Small green-yellow in spring, insignificant	Green samaras	Dark green	Orange-red	Slow growing. No pests or disease problems at this time. Snow & ice damage may be a concern.
Aceraceae	<i>Acer nigrum</i>	Greencolumn	Greencolumn Maple	4	Min to Mod	Unknown	45	15	177	Narrow upright	Small green-yellow in spring, insignificant	Green samaras	Light green	Yellow-orange	Good heat and drought tolerance. May suffer some scorch in exposed sites.
Aceraceae	<i>Acer platanoides</i>		Norway Maple	See comments regarding Norway maple											Tree is susceptible to sunscald, leaf scorch, frost cracks, and chlorosis. Does not tolerate planting in exposed sites or hardscape. Tree should only be planted in large areas with organic surface treatments.
Aceraceae	<i>Acer pseudoplatanus</i>		Sycamore Maple	4	Mod	Tolerant	35	25	491	Upright spreading to rounded	Small green-yellow in spring, insignificant	Green samaras, turning red	Dark green	Yellow	Soil adaptable and salt tolerant. Intolerant of heavy clay soils. Plant in large tree lawn.
Aceraceae	<i>Acer pseudosieboldianum</i>	KorDak	Northern Spotlight Korean Maple	4	Mod	Unknown	15	20	314	Upright to broad spreading	Off-white in spring, insignificant	Brown-purple samaras	Green	Orange-deep red	Cold hardy cross between Korean & Japanese maple. Leaves resistant to scorch, persist through winter. Thin bark may be easily damaged. NDSU introduced - Availability may be limited.
Aceraceae	<i>Acer pseudosieboldianum x palmatum</i>	Hasselkus	Northern Glow Maple	4	Mod	Unknown	15	20	314	Upright to broad spreading	Off-white in spring, insignificant	Brown-purple samaras	Green	Orange-deep red	Cold hardy cross between Korean & Japanese maple. Leaves resistant to scorch. Thin bark may be easily damaged. NDSU introduced - Availability may be limited.
Aceraceae	<i>Acer rubrum</i>	Minnkota	Fall Grandeur Red Maple	3	Insufficient Data at this time - If tree can be obtained, Forestry is open to permitting planting on trial basis							Green	Red	Alkaline soil tolerant variety. NDSU introduced - Availability may be limited.	
Aceraceae	<i>Acer saccharum</i>	John Pair	John Pair Caddo Maple	5	Min to Mod	Unknown	27	27	573	Rounded, symmetrical	Small green-yellow in spring, insignificant	Green samaras	Glossy green	Red	Heat, drought, and alkaline soil tolerant cultivar.
Aceraceae	<i>Acer saccharum</i>	Autumn Splendor	Autumn Splendor Caddo Maple	5	Min to Mod	Unknown	40	35	962	Broad oval to rounded	Small green-yellow in spring, insignificant	Green samaras	Glossy green	Orange-red	Heat, drought, and alkaline soil tolerant cultivar.
Aceraceae	<i>Acer saccharum</i>	JFS-Caddo2	Flashfire Caddo Maple	4	Min to Mod	Unknown	40	35	962	Broad oval	Small green-yellow in spring, insignificant	Green samaras	Dark green	Bright red	Heat, drought, and alkaline soil tolerant cultivar. Brilliant, early fall color. Hardest of Caddo maples.
Aceraceae	<i>Acer saccharum</i>	JFS-Caddo3	Oregon Trail Maple	5		Unknown	45	40	1257	Broadly oval to rounded	Small green-yellow in spring, insignificant	Green samaras	Dark green	Orange red-red	Drought & heat resistant; strong branch structure resists ice damage.
Aceraceae	<i>Acer saccharum</i>	Sisseton	Northern Flare Sugar Maple	3	Mod	Unknown	40	35	962	Oval	Small green-yellow in spring, insignificant	Green samaras	Green	Orange-red	Slow-growing, cold hardy cultivar. Tolerant of alkaline soils, but intolerant of compaction. NDSU introduced - Availability may be limited.
Aceraceae	<i>Acer saccharum</i>	Collins Caddo	Collins Caddo Maple	5	Insufficient Data at this time - If tree can be obtained, Forestry is open to permitting planting on trial basis										
Aceraceae	<i>Acer saccharum</i>	Green Mountain	Green Mountain Sugar Maple	3	Mod	Sensitive	45	35	962	Upright to broad oval	Small green-yellow in spring, insignificant	Green samaras	Dark green	Yellow-red-orange	Good scorch resistance. Leaves are tatter resistant. More drought tolerant than parent species.
Aceraceae	<i>Acer saccharum</i>	Legacy	Legacy Sugar Maple	4	Mod	Sensitive	45	30	707	Symmetrical oval to rounded	Small green-yellow in spring, insignificant	Green samaras	Dark green	Reddish orange-red	Good scorch resistance. Leaves are tatter resistant. More drought tolerant than parent species.
Aceraceae	<i>Acer tataricum</i>	JFS-KW2	Rugged Charm Tatarian Maple	3	Xeric	Intermediate to Tolerant	24	13	133	Upright oval, compact	White clusters in spring	Red samaras	Green	Yellow-orange-red	Form more narrow and symmetrical than parent species and Hot Wings. Rarely suckers. Showy, heavy seed crop.
Aceraceae	<i>Acer tataricum</i>	Gar-Ann	Hot Wings Tatarian Maple	3	Xeric	Intermediate to Tolerant	20	20	314	Rounded, spreading	White clusters in spring	Bright red samaras	Green	Yellow-red	Broadly spreading cultivar. Rarely suckers. Showy, heavy seed crop. Prune to develop strong branching structure.

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Aceraceae	<i>Acer buergeranum</i>	Streetwise	Trident Maple	5	Min	Tolerant	30	30	707	Oval to rounded	Small green-yellow in spring, insignificant	Green samaras	Dark green	Orange-red	Slow growing. No pests or disease problems at this time. Snow & ice damage may be a concern.
Aceraceae	<i>Acer tataricum</i>	Patdell	Pattern Perfect Tatarian Maple	3	Min	Intermediate to Tolerant	23	18	254	Upright oval	White clusters in spring	Red Samaras	Green	Yellow-orange-red	Oval form more narrow than parent species and Hot Wings. Rarely suckers. Showy, heavy seed crop. Faster growing than other cultivars of species.
Aceraceae	<i>Acer triflorum</i>		Three Flower Maple	4	Mod	Intermediate	15	20	314	Rounded	Green in spring, insignificant	Green samaras	Light green	Bright orange	Slow growing. Intolerant of drought and alkaline soil. Shallow root system. Availability may be limited - Obtain from northern seed sources. Unproven in the Grand Valley.
Aceraceae	<i>Acer truncatum x platanoides</i>	JFS-KW249	Ruby Sunset Maple	4b	Min	Unknown	22	17	227	Broad oval to rounded	Unknown	Green samaras	Glossy dark green	Deep red	Availability may be limited. Unproven in the Grand Valley.
Aceraceae	<i>Acer truncatum x platanoides</i>	JFS-KW187	Urban Sunset Maple	4b	Min	Unknown	35	20	314	Narrow pyramidal to upright oval	Yellow flowers in spring, very short bloom time	Green samaras	Glossy dark green	Red	Minimal pruning is required. Produces few seeds.
Aceraceae	<i>Acer truncatum x platanoides</i>	JFS-KW202	Crimson Sunset Maple	4	Min	Unknown	30	20	314	Upright oval	Yellow flowers in spring, very short bloom time	Green samaras	Deep purple	Reddish-bronze	More heat and drought tolerant than parent species. Thin bark may be easily damaged. Prune for street use to maintain shape and structure.
Aceraceae	<i>Acer truncatum x platanoides</i>	Keithsform	Norwegian Sunset Maple	4b	Min	Unknown	30	20	314	Upright oval	Yellow flowers in spring, very short bloom time	Green samaras	Dark green	Yellow-orange-red	More heat and drought tolerant than parent species. Japanese beetle resistant. Thin bark may be easily damaged. Prune for street use to maintain shape and structure.
Aceraceae	<i>Acer truncatum x platanoides</i>	Warrenred	Pacific Sunset Maple	4b	Min	Unknown	27	20	314	Upright spreading to rounded	Yellow flowers in spring, very short bloom time	Green samaras	Dark green	Yellow-orange-red	More heat and drought tolerant than parent species. Japanese beetle resistant. Thin bark may be easily damaged. Prune for street use to maintain shape and structure.
Hippocastanaceae	<i>Aesculus flava</i>		Yellow Buckeye	4	Mod	Intermediate	60	30	707	Upright oval to slightly spreading	Yellow-green flowers in spring, showy	Smooth, Pear-shaped capsule & nut	Dark green	Pumpkin-yellow	Greater leaf blotch resistance and less leaf drop than other Aesculus species. Leaf scorch may be an issue in windy, exposed sites.
Hippocastanaceae	<i>Aesculus glabra</i>		Ohio Buckeye	4	Mod	Intermediate	35	35	962	Rounded to oval, low branching	Yellow-green flowers in spring, showy	Spiny, oval-shaped capsule & nut	Bright green	Pumpkin-yellow	Intolerant of excess heat and drought. Powdery mildew, leaf scorch, and leaf drop may be issues. Prune to develop overhead clearance.
Hippocastanaceae	<i>Aesculus hippocastanum</i>		Common Horsechestnut	4	Mod	Intermediate	60	40	1257	Dense oval	White flowers in spring, showy	Spiny, round-shaped capsule & nut	Dark green	Yellow	Tolerant of restricted growing areas. Intolerant of excess heat and drought. Powdery mildew, leaf scorch, and leaf drop may be issues. May be subject to storm breakage; avoid planting in high wind areas.
Hippocastanaceae	<i>Aesculus hippocastanum</i>	Baumannii	Baumann Horsechestnut	4	Mod	Intermediate	45	36	1018	Broad oval	Double white flowers w/ red & yellow tints in spring, showy	Fruitless	Dark green	Yellow	Recommended over standard horsechestnut. Tolerant of restricted growing areas. Intolerant of excess heat and drought. Powdery mildew, leaf scorch, and leaf drop may be issues. May be subject to storm breakage; avoid planting in high wind areas.
Hippocastanaceae	<i>Aesculus x arnoldiana</i>	Autumn Splendor	Autumn Splendor Buckeye	4	Mod	Intermediate	30	25	491	Rounded, low branching	Off-white flowers in spring, showy	Spiny, oval-shaped capsule & nut	Dark green	Red-orange-purple	Resistant to leaf scorch. Intolerant of excess drought. Prune to develop overhead clearance.
Hippocastanaceae	<i>Aesculus x Bergeson</i>		Prairie Torch Buckeye	3	Mod	Intermediate	27	27	573	Slightly weeping, globose	Yellow-green in spring, showy	Spiny, round-shaped capsule & nut	Dark green	Orange-red	Excellent cold hardiness. Resistant to leaf scorch. Intolerant of drought.
Hippocastanaceae	<i>Aesculus x carnea</i>	Ft McNair	Ft McNair Horsechestnut	4	Mod	Intermediate	29	27	573	Rounded, low branching	Pink w/ yellow tints in spring, showy	Small, spiny, round-shaped capsule	Dark green	Yellow	More leaf blotch resistant than parent species and other cultivars. Leaf scorch in windy sites may be and issue. Less leaf drop than other Aesculus sp..
Hippocastanaceae	<i>Aesculus x carnea</i>	Briotii	Briotii Horsechestnut	4	Mod	Intermediate	27	32	804	Rounded, low branching	Bright red flowers in spring, showy	Nearly fruitless	Dark green	Yellow	Nearly fruitless cultivar. Intolerant of drought. Prefers moist, well-drained soil.
Hippocastanaceae	<i>Aesculus x 'Homestead'</i>		Homestead Buckeye	4	Mod	Intermediate	35	22	380	Broad oval to rounded, low branching	Yellow-red flowers in spring, showy	Spiny, oval-shaped capsule & nut	Dark green	Bright red-orange	Intolerant of excess heat and drought. Powdery mildew, leaf scorch, and leaf drop may be issues. Prune to develop overhead clearance.

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Aceraceae	<i>Acer buergeranum</i>	Streetwise	Trident Maple	5	Min	Tolerant	30	30	707	Oval to rounded	Small green-yellow in spring, insignificant	Green samaras	Dark green	Orange-red	Slow growing. No pests or disease problems at this time. Snow & ice damage may be a concern.
Rosaceae	<i>Amelanchier arborea</i>		Downy Serviceberry	4	Min to Mod	Intermediate	20	15	177	Rounded	White flowers in spring, showy	Small, purple-red fruit, edible	Dark green	Orange-red-yellow	Intolerant of pollution. Thin bark may be easily damaged. Prefers moist, well-drained soil.
Rosaceae	<i>Amelanchier canadensis*</i>		Shadblow Serviceberry	3	Xeric	Intermediate to Tolerant	20	15	177	Rounded to upright vase, typically multistemmed	White flowers in spring, showy	Small, purple-red fruit, edible	Dark green	Orange-red-yellow	Thin bark may be easily damaged. Prune to develop single stem form.
Rosaceae	<i>Amelanchier laevis</i>		Allengheny Serviceberry	4	Min to Mod	Intermediate to Tolerant	22	13	133	Upright oval, irregular	White flowers in spring, showy	Small, black-purple fruit, edible	Blue-green	Red-orange-yellow	Tolerant of full shade and confined planting spaces. Thin bark may be easily damaged. Taller and more upright than other Amelanchier species. Good selection for single stem form.
Rosaceae	<i>Amelanchier laevis</i>	JFS-Arb PP 15304	Spring Flurry Serviceberry	4	Min to Mod	Intermediate to Tolerant	25	15	177	Upright oval vase	White flowers in spring, showy	Small, black-purple fruit, edible	Green	Red-orange-yellow	Tolerant of full shade and confined planting spaces. Thin bark may be easily damaged. Taller and more upright than other Amelanchier species. Dominant central leader with upward scaffold branches. Good selection for single stem form.
Rosaceae	<i>Amelanchier x grandiflora</i>	Autumn Brilliance, Princess Diana, Robin Hill	Apple Serviceberry	4	Xeric to Min	Intermediate to Tolerant	20	15	177	Upright to moderate spreading	White, light pink flowers in spring, showy (Robin Hill)	Small, purple-red fruit, edible	Dark green	Orange-red-yellow	Cold hardy. Thin bark may be easily damaged. Prune to develop single stem form. Robin Hill best cultivar for single stem form.
Annonaceae	<i>Asimina triloba</i>		Pawpaw	5	Mod	Unknown	23	12	113	Upright to Rounded	Purple-maroon flowers in early spring	2"-4" elongated fruit, green maturing to brown, edible	Green	Yellow	Tolerant of full shade, medium-wet soils, and slightly alkaline pH. Fruit results from multiple tree cross-pollination. Plant in areas where fruit is not problematic. Prune to develop strong branching structure. Availability may be limited. Unproven in the Grand Valley.
Betulaceae	<i>Carpinus betulus</i>	Frans Fontaine, Fastigiata	Columnar European Hornbeam	5	Mod	Sensitive	35	20	314	Upright, narrow	White flowers in spring, insignificant	Insignificant	Dark green	Yellow	Intolerant of excess & reflective heat, resulting in scorch and poor vigor. Plant in protected sites with large rooting space.
Betulaceae	<i>Carpinus caroliniana</i>		American Hornbeam	3	Mod	Sensitive	25	22	380	Columnar-oval to pyramidal, low branching	Orange-yellow catkins in early spring, insignificant	Insignificant	Green	Orange-red-yellow	Tolerant of periodic flooding. Intolerant of compacted soils. Prefers slightly acidic soils. May be difficult to transplant. Highly resistant to storm damage due to hard, dense wood. Availability may be limited.
Betulaceae	<i>Carpinus caroliniana</i>	Uxbridge	Rising Fire American Hornbeam	4	Mod	Sensitive	27	12	113	Upright, narrow	Orange-yellow catkins in early spring, insignificant	Insignificant	Green	Red-orange	Columnar form of parent species. Tolerant of periodic flooding. Intolerant of compacted soils. Prefers slightly acidic soils. May be difficult to transplant. Highly resistant to storm damage due to hard, dense wood. Availability may be limited.
Juglandaceae	<i>Carya glabra</i>		Pignut Hickory	5	Min to Mod	Sensitive	50	30	707	Dense oval	Yellow-green catkins in spring, insignificant	1" Nut	Green	Yellow-copper	May be difficult to transplant & establish due to taproot. Unproven in the Grand Valley.
Juglandaceae	<i>Carya illinoensis</i>		Pecan	5	Mod	Sensitive	60	40	1257	Oval to spreading	Yellow catkins in spring, insignificant	1"-2" Edible nut	Green	Yellow	Northern seed source is critical. May be difficult to transplant & establish due to taproot. Large root system requires large tree lawn. Prune to develop strong branching structure when young.
Juglandaceae	<i>Carya ovata</i>		Shagbark Hickory	5	Mod	Intermediate	50	30	707	Oval	Yellow catkins in spring, insignificant	1" Nut	Deep yellow-green	Burnt yellow	May be difficult to transplant & establish due to taproot. Unproven in the Grand Valley.
Bignoniaceae	<i>Catalpa ovata</i>		Chinese Catalpa	4	Xeric to Min	Tolerant	25	25	491	Spreading	Yellow-white flowers in spring to summer; showy	Long, brown bean pod	Green	Yellow	Smaller than <i>Catalpa speciosa</i> . Heat, drought, and alkaline soil tolerant. Decay when wounded or as tree ages may be an issue. Availability may be limited.
Bignoniaceae	<i>Catalpa speciosa</i>		Western Catalpa	5	Xeric to Min	Intermediate	50	35	962	Irregular pyramidal to rounded oval	Large, white flowers in spring to summer; showy	Long, brown bean pod	Green	Yellow	Heat, drought, and alkaline soil tolerant. Decay when wounded or as tree ages may be an issue.
Bignoniaceae	<i>Catalpa speciosa</i>	Hiawatha 2	Heartland Catalpa	5	Xeric to Min	Intermediate	45	23	415	Upright narrow oval	Large, white flowers in spring to summer; showy	Long, brown bean pod	Green	Yellow	Narrow, upright form of parent species. Uniform branching habit.

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Aceraceae	<i>Acer buergeranum</i>	Streetwise	Trident Maple	5	Min	Tolerant	30	30	707	Oval to rounded	Small green-yellow in spring, insignificant	Green samaras	Dark green	Orange-red	Slow growing. No pests or disease problems at this time. Snow & ice damage may be a concern.
Bignoniaceae	<i>Catalpa x erubescens</i>	Purpurea	Purple Catalpa	5	Xeric to Min	Intermediate	40	35	962	Rounded	Large, yellow-purple-spotted white flowers in spring to summer; showy	Long, brown bean pod	Purple	Yellow	Purple leaved cultivar of parent species.
Ulmaceae	<i>Celtis laevigata</i>	All Seasons, Magnifica	Sugar Hackberry	5	Xeric to Min	Tolerant	45	40	1257	Rounded vase to broad oval	Green in spring, insignificant	Small berry, insignificant	Dark green	Yellow	Varieties are more hardy than parent species. Magnifica has similar growth habit to elm & improved insect resistance.
Ulmaceae	<i>Celtis occidentalis</i>	Prairie Pride	Common Hackberry	3	Xeric to Min	Tolerant	45	35	962	Rounded vase	Green in spring, insignificant	Small berry, insignificant	Green	Yellow	Tolerant of urban growing conditions. Nipple gall may be an aesthetic issue. Intolerant of mechanical damage. Transplant in spring (B&B)
Ulmaceae	<i>Celtis occidentalis</i>	Chicagoland	Common Hackberry	3	Xeric to Min	Tolerant	45	35	962	Rounded vase, strong central leader	Green in spring, insignificant	Orange-red to deep purple berry	Green	Yellow	Tolerant of urban growing conditions. Nipple gall may be an aesthetic issue. Intolerant of mechanical damage. Transplant in spring (B&B)
Ulmaceae	<i>Celtis occidentalis</i>	JFS-KSU1	Prairie Sentinel Hackberry	4	Xeric to Min	Tolerant	45	12	113	Columnar	Green in spring, insignificant	Orange-red to deep purple berry	Green	Yellow	Columnar cultivar of parent species. Tolerant of urban growing conditions, including confined planting spaces. Nipple gall may be an aesthetic issue. Intolerant of mechanical damage. Transplant in spring (B&B)
Ulmaceae	<i>Celtis reticulata</i>		Netleaf Hackberry	3	Xeric to Min	Unknown	25	25	491	Rounded, spreading	Green in spring, insignificant	Small, orange-red berry	Green	Yellow	Slow growing. Nipple gall may be an aesthetic issue. Prune to develop strong branching structure and overhead clearance. Also known as western hackberry.
Cercidiphyllaceae	<i>Cercidiphyllum japonicum</i>		Katsuratree	5	Mod	Intermediate to Sensitive	35	35	962	Upright, pyramidal to rounded	Green in spring, insignificant	1/2"-1" elongated pod	Blue-green	Yellow-orange	Intolerant of soil compaction and confined planting spaces. Shallow surface roots; plant in a site with large rooting space.
Fabaceae	<i>Cercis canadensis</i>		Eastern Redbud	4	Min to Mod	Sensitive	25	30	707	Irregular, rounded vase	Lavendar/pink/ purple in spring (before leaves), showy	Small, brown pod 2-3" long	Green	Yellow	Tolerant of partial shade. Flowers emerge before leaves. Plant in protected area. Prune to develop strong branching structure and overhead clearance.
Fabaceae	<i>Cercis canadensis</i>	Forest Pansy	Forest Pansy Redbud	5	Min to Mod	Sensitive	15	20	314	Irregular, rounded vase	Magenta-rose in spring (before leaves), showy	Small, brown pod 2-3" long	Purple-bronze green	Yellow-orange	Tolerant of partial shade. Flowers emerge before leaves. Plant in protected area. Prune to develop strong branching structure.
Fabaceae	<i>Cercis canadensis</i>	Pink Trim	Northern Herald Redbud	4	Min to Mod	Sensitive	22	28	616	Spreading, rounded	Magenta-rose in spring (before leaves), showy	Small, brown pod 2-3" long	Burgundy to forest green	Yellow	Cold hardy variety of parent species. Tolerant of urban conditions. Prune to develop strong branching structure and overhead clearance
Fabaceae	<i>Cercis canadensis</i>	JN2PP21451	Rising Sun Redbud	5	Min to Mod	Sensitive	13	18	254	Spreading, rounded	Magenta-rose in spring (before leaves), showy	Small, brown pod 2-3" long	Yellow w/ orange new growth	Yellow	Tolerant of partial shade. Flowers emerge before leaves. Plant in protected area. Prune to develop strong branching structure.
Bignoniaceae	<i>Chilopsis linearis</i>		Desert Willow		Very low	Unknown	20	20	314	Rounded and spreading	White, pink, purple, violet	Longer narrow seed pods	Green	Yellow	Exotic-looking blooms, rapid growth, drought tolerance, and ease of maintenance have made it a sought-after plant within its range, which in nature is from south-central Texas south to Nuevo Leon and Zacatecas in Mexico and west all the way to southern California and Baja California.
Oleaceae	<i>Chionanthus retusus</i>		Chinese Fringetree	5b	Mod	Sensitive	15	15	177	Broad oval	Large Green-white clusters in spring, fragrant	1/2"-1" Blue-purple fruit	Dark green	Yellow	Slow growing. Tolerant of urban conditions. Intolerant of drought. Species is not affected by emerald ash borer. Prune to develop strong branching structure and overhead clearance. Availability may be limited.
Oleaceae	<i>Chionanthus retusus</i>	Tokyo Tower	Tokyo Tower Fringetree	5b	Mod	Sensitive	15	8	50	Narrow upright vase	Large White clusters in spring, fragrant	1/2"-3/4" Blue-black fruit	Dark green	Yellow	Tolerant of confined planting spaces and urban conditions. Intolerant of drought. Species is not affected by emerald ash borer. Golden-tan exfoliating bark.
Oleaceae	<i>Chionanthus virginicus</i>		American Fringetree	4	Min to Mod	Sensitive	15	15	177	Spreading, oval	Green-white in spring, fragrant	1/2"-3/4" Blue-black fruit	Green	Yellow	Slow growing. Tolerant of urban conditions, including minor drought. Susceptible to emerald ash borer - increased risk of damage or death. Prune to develop strong branching structure and overhead clearance.

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Aceraceae	<i>Acer buergeranum</i>	Streetwise	Trident Maple	5	Min	Tolerant	30	30	707	Oval to rounded	Small green-yellow in spring, insignificant	Green samaras	Dark green	Orange-red	Slow growing. No pests or disease problems at this time. Snow & ice damage may be a concern.
Fabaceae	<i>Cladrastis kentukea</i>		American Yellowwood	4	Mod	Intermediate to Sensitive	35	35	962	Rounded to oval	Creamy white-yellow clusters in spring, showy, fragrant	2"-4" Elongated pod	Bright green	Yellow	Flowers are significant source of nectar for bees. Thin, smooth bark may be easily damaged. Prune to develop strong branching structure and overhead clearance.
Fabaceae	<i>Cladrastis kentukea</i>	Perkins Pink	Perkins Pink Yellowwood	5	Mod	Intermediate to Sensitive	40	45	1590	Rounded to oval	Pink clusters in spring, showy, fragrant	2"-4" Elongated pod	Yellow-green	Yellow	Flowers are significant source of nectar for bees. Thin, smooth bark may be easily damaged. Prune to develop strong branching structure and overhead clearance.
Cornaceae	<i>Cornus controversa</i>	June Snow	June Snow Dogwood	5	Mod	Unknown	25	35	962	Horizontally layered, spreading	White in early summer	1/4" Blue-black berry cluster	Dark green	Orange-red	Tolerant of partial shade, but prefers full sun. Tolerant of alkaline soils. Prune to develop overhead clearance. Availability may be limited. Unproven in the Grand Valley.
Cornaceae	<i>Cornus mas</i>	Many - Consult with Forestry	Corneliancherry Dogwood	5	Mod	Unknown	15	12	113	Rounded oval, commonly multistem	Yellow in early spring (before leaves)	Bright red fruit in mid-summer	Dark green	Purple-red	Flowers emerge before leaves. Highly resistant to storm damage due to hard, dense wood. Prune to develop strong branching structure and overhead clearance.
Betulaceae	<i>Corylus colurna</i>		Turkish Filbert	4	Xeric	Sensitive	40	25	491	Pyramidal	Catkins in spring, insignificant	Oval nut	Green	Yellow	Plant in sites with large rooting space (tree lawns 8' and wider). Tree is slow to establish. Prune to develop strong branching structure.
Anacardiaceae	<i>Cotinus obovatus</i>		American Smoketree	4	Min to Mod	Intermediate to Sensitive	18	13	133	Rounded to broad spreading	Small pink/purple on long stem in late spring, showy	Small purple-brown fruit	Light green	Orange-red-yellow	Blooming flowers create smoke-like effect. Single stem form may be difficult to locate. Prune to develop strong branching structure.
Rosaceae	<i>Crataegus ambigua</i>		Russian Hawthorn	4	Xeric	Sensitive	15	15	177	Rounded to spreading	White in spring, showy	1/2" Dark red-purple berry, persistent	Green	Yellow	Tolerant of urban conditions, including alkaline soil and drought. Thorns are sparse and branches may be essentially thornless.
Rosaceae	<i>Crataegus crus-galli</i>	Inermis	Thornless Cockspur Hawthorn	4	Xeric	Tolerant	20	20	314	Rounded to spreading	White in spring, showy	1/2" Dull red berry, persistent	Deep green	Orange-bronze	Thornless variety of parent species. Extensive fruit litter may be an issue. Prune to develop strong branching structure and overhead clearance.
Rosaceae	<i>Crataegus laevigata</i>	Crimson Cloud	Crimson Cloud Hawthorn	4	Xeric to Min	Sensitive	20	15	177	Upright, spreading oval	Bright red w/ white centers in spring, showy	Max 1/2" Glossy red berry	Glossy green	No fall color change	Nearly thornless cultivar. More disease resistant than parent species. Prune to develop strong branching structure and overhead clearance.
Rosaceae	<i>Crataegus laevigata</i>	Paulii	Paul's Scarlet Hawthorn	4	Xeric to Min	Sensitive	20	15	177	Spreading to oval	Deep pink double flowers in spring, showy	Small pink-red berry, sparse	Glossy green	No fall color change	Tree slightly more susceptible to firelight than cockspur hawthorn. Leaf spot and cedar apple rust may be an issue.
Rosaceae	<i>Crataegus phaenopyrum</i>		Washington		Moderate		20	20	314.159265	Upright oval to spreading	Double white in spring	3/8" Red berry	Glossy green	No fall color change	Drought tolerant. Snowbird is hardier cultivar than Toba. Firelight may be an issue.
Rosaceae	<i>Crataegus submollis</i>		Northern Downy Hawthorn	4	Min to Mod	Unknown	20	20	314	Rounded to spreading	White in spring	3/4" Red-purple berry	Green	Yellow	Branches feature thorns up to 3" in length. Prune to develop strong branching structure. Also known as Quebec hawthorn. Availability may be limited. Unproven in the Grand Valley.
Rosaceae	<i>Crataegus viridis</i>	Winter King	Winter King Hawthorn	4	Min to Mod	Unknown	20	15	177	Upright to rounded	White in spring, showy	3/4" Bright red berry	Glossy dark green	Yellow	More disease resistant cultivar. Mostly spineless but occasional thorns up to 1.5" in length. Prune to develop strong branching structure. Also known as Green hawthorn.
Rosaceae	<i>Crataegus x mordensis</i>	Snowbird; Toba	Snowbird/Toba Hawthorn	3	Xeric to Min	Unknown	15	15	177	Upright oval to spreading	Double white in spring, fragrant	3/8" Red berry	Glossy green	No fall color change	Drought tolerant. Snowbird is hardier cultivar than Toba. Firelight may be an issue.
Eucommiaceae	<i>Eucommia ulmoides</i>		Hardy Rubber-tree	5	Min	Intermediate	40	40	1257	Rounded	Brown in spring, insignificant	Fruitless	Dark green	Yellow	Prune to develop strong branching structure. Availability may be limited.
Eucommiaceae	<i>Eucommia ulmoides</i>	Empozam	Emerald Pointe Hardy Rubber-tree	5	Min	Intermediate	35	15	177	Upright, narrow	Brown in spring, insignificant	Fruitless	Dark green	Yellow	Availability may be limited.

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Aceraceae	<i>Acer buergeranum</i>	Streetwise	Trident Maple	5	Min	Tolerant	30	30	707	Oval to rounded	Small green-yellow in spring, insignificant	Green samaras	Dark green	Orange-red	Slow growing. No pests or disease problems at this time. Snow & ice damage may be a concern.
Fagaceae	<i>Fagus grandifolia</i>		American Beech	3	Mod	Sensitive	65	60	2827	Pyramidal to oval	Yellow-green in spring	1/2"-1" spiny capsule & nut	Dark green	Golden bronze	Slow growing. May be difficult to transplant. Tolerant of heavy shade. Intolerant of wet, poorly drained soils and drought. Large root system requires large tree lawn. Thin bark may be easily damaged. Prune to develop overhead clearance. Availability may be limited.
Fagaceae	<i>Fagus sylvatica</i>		European Beech	4	Mod	Sensitive	50	40	1257	Pyramidal to oval	Yellow-green in spring	1/2"-1" spiny capsule & nut	Glossy dark green	Golden bronze	Slow growing. May be difficult to transplant. More tolerant of varying soil conditions than American beech. Intolerant of wet, poorly drained soils and extended drought. Prefers neutral to slightly acid soils. Large root system requires large tree lawn. Thin bark may be easily damaged. Prune to develop overhead clearance. Availability may be limited.
Fagaceae	<i>Fagus sylvatica</i>	Purpurea	Copper Beech	5	Mod	Sensitive	55	40	1257	Upright oval to rounded	Reddish in spring, insignificant	1/2"-1" spiny capsule & nut	Dark red to red-green	Red-orange	Slow growing. May be difficult to transplant. More tolerant of varying soil conditions than American beech. Intolerant of wet, poorly drained or compacted soils and extended drought. Prefers neutral to slightly acid soils. Large root system requires large tree lawn. Thin bark may be easily damaged. Prune to develop overhead clearance. Availability may be limited.
Fagaceae	<i>Fagus sylvatica</i>	Roseomarginata	Tricolor Beech	4	Mod	Sensitive	25	15	177	Oval	Yellow-green in spring	1/2"-1" spiny capsule & nut	Variegated purple, rose pink with cream margins	Light bronze	Slow growing. May be difficult to transplant. More tolerant of varying soil conditions than American beech. Intolerant of wet, poorly drained soils and extended drought. Thin bark may be easily damaged.
Ginkgoaceae	<i>Ginkgo biloba</i>	Autumn Gold	Autumn Gold Ginkgo	3	Mod	Intermediate	40	30	707	Broad pyramidal	Insignificant	Fruitless	Green	Golden yellow	Male (seedless) clone with slow growth rate.
Ginkgoaceae	<i>Ginkgo biloba</i>	JFS-UGA2	Golden Colonnade Ginkgo	4	Mod	Intermediate	40	20	314	Narrow oval	Insignificant	Fruitless	Green	Golden yellow	Male (seedless) clone with moderate growth rate.
Ginkgoaceae	<i>Ginkgo biloba</i>	Magyar	Magyar Ginkgo	4	Mod	Intermediate	45	20	314	Narrow to pyramidal	Insignificant	Fruitless	Green	Golden yellow	Male (seedless) clone with moderate growth rate (faster than Princeton Sentry).
Ginkgoaceae	<i>Ginkgo biloba</i>	The President	Presidential Gold Ginkgo	4	Mod	Intermediate	45	35	962	Broad pyramidal to oval	Insignificant	Fruitless	Green	Golden yellow	Male (seedless) clone with slow growth rate.
Ginkgoaceae	<i>Ginkgo biloba</i>	Princeton Sentry	Princeton Sentry Ginkgo	4	Mod	Intermediate	35	15	177	Narrow pyramidal	Insignificant	Fruitless	Green	Golden yellow	Male (seedless) clone with slow growth rate.
Ginkgoaceae	<i>Ginkgo biloba</i>	Shangri-la	Ginkgo	4	Mod	Intermediate	45	30	707		Insignificant	Fruitless			Male clone, fruitless. Slow grower
Fabaceae	<i>Gleditsia triacanthos inermis</i>	Imperial	Thornless Honeylocust	4	Xeric	Tolerant	35	35	962	Rounded	Insignificant	Fruitless	Green	Yellow	Thornless and fruitless cultivar. Genus overplanted in the Grand Valley.
Fabaceae	<i>Gleditsia triacanthos inermis</i>	Moraine	Moraine Honeylocust	4	Xeric	Tolerant	40	40	1257	Rounded	Insignificant	Fruitless	Dark green	Yellow	Thornless and fruitless cultivar. Genus overplanted in the Grand Valley.
Fabaceae	<i>Gleditsia triacanthos inermis</i>	Harve	Northern Acclaim Honeylocust	3b	Xeric	Tolerant	40	30	707	Broad pyramidal	Insignificant	Fruitless	Green	Yellow	Thornless and fruitless cultivar. Genus overplanted in the Grand Valley.
Fabaceae	<i>Gleditsia triacanthos inermis</i>	Shademaster	Shademaster Honeylocust	4	Xeric	Tolerant	40	30	707	Vase to rectangular	Insignificant	Fruitless	Green	Yellow	Thornless and fruitless cultivar. Central leader less present than Skyline. Genus overplanted in the Grand Valley.

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Aceraceae	<i>Acer buergeranum</i>	Streetwise	Trident Maple	5	Min	Tolerant	30	30	707	Oval to rounded	Small green-yellow in spring, insignificant	Green samaras	Dark green	Orange-red	Slow growing. No pests or disease problems at this time. Snow & ice damage may be a concern.
Fabaceae	<i>Gleditsia triacanthos inermis</i>	Skycole	Skyline Honeylocust	4	Xeric	Tolerant	40	30	707	Broad pyramidal	Insignificant	Fruitless	Green	Yellow	Thornless and fruitless cultivar. Tree features strong central leader. Form is more upright than Shademaster. Genus overplanted in the Grand Valley.
Fabaceae	<i>Gleditsia triacanthos inermis</i>	Draves PP21698	Street Keeper Honeylocust	4b	Xeric	Tolerant	40	15	177	Upright, narrow pyramidal	Insignificant	Fruitless	Dark green	Yellow	Columnar cultivar of parent species. Thornless and fruitless. Genus overplanted in the Grand Valley.
Fabaceae	<i>Gleditsia triacanthos inermis</i>	True Shade	True Shade Honeylocust	4	Xeric	Tolerant	40	30	707	Oval	Insignificant	Fruitless	Dark green	Yellow	Thornless and fruitless cultivar. Faster growth rate and better branch angles than other cultivars. Genus overplanted in the Grand Valley.
Fabaceae	<i>Gymnocladus dioicus</i>	Espresso	Kentucky Coffeetree	4	Xeric	Tolerant	60	40	1257	Spreading vase	Greenish-white clusters in late spring	Fruitless	Blue-green	Yellow	Male (fruitless) cultivar. Tolerant of urban growing conditions. No known insect or disease issues. Leaves, seeds, and pulp reported to be poisonous if ingested.
Fabaceae	<i>Gymnocladus dioicus</i>	JC McDaniel	Prairie Titan Coffeetree	4	Xeric to min	Tolerant	55	35	962	Upright, spreading	Greenish-white clusters in late spring	Fruitless	Blue-green	Yellow	Male (fruitless) cultivar. Tolerant of urban growing conditions. No known insect or disease issues. Leaves, seeds, and pulp reported to be poisonous if ingested.
Fabaceae	<i>Gymnocladus dioicus</i>	Stately Manor	Stately Manor Coffeetree	4	Xeric to Min	Tolerant	45	20	314	Narrow, upright	Greenish-white clusters in late spring	Fruitless	Blue-green	Yellow	Male (fruitless) cultivar. Tolerant of urban growing conditions. No known insect or disease issues. Leaves, seeds, and pulp reported to be poisonous if ingested.
Sapindaceae	<i>Koelreuteria paniculata</i>		Goldenraintree	5	Xeric	Intermediate	30	30	707	Open, rounded vase	Yellow in summer, very showy	Small, black fruit in brown seed pod, resembles small lantern	Green	Yellow	Volunteer seedlings could be an issue in mulched areas.
Sapindaceae	<i>Koelreuteria paniculata</i>	JFS-Sunleaf	Summer Burst Goldenraintree	5	Xeric	Intermediate	30	30	707	Open, rounded vase	Yellow in summer, very showy	Small fruit in brown seed pod w/ pink highlights, pod resembles small lantern	Dark green	Yellow	Cultivar more heat resistant than parent species. Volunteer seedlings could be an issue in mulched areas.
Altingiaceae	<i>Liquidambar styraciflua</i>		Sweetgum	5	Mod to Moist	Intermediate	60	40	1257	Pyramidal to rounded	Yellow-green in spring, insignificant	Spiny, round-shaped capsule & nut	Green	Red-orange-yellow	Shallow surface roots; plant in a site with large rooting space. Rotundiloba is a seedless cultivar. Fruit litter may be an issue for parent species and/or other cultivars.
Magnoliaceae	<i>Liriodendron tulipifera</i>		Tulip Tree	4	Mod to Moist	Sensitive	70	40	1257	Pyramidal to oval	Green-yellow in spring, showy	Insignificant	Green	Yellow	Large root system requires large tree lawn.
Magnoliaceae	<i>Liriodendron tulipifera</i>	JFS-Oz	Emerald City Tulip Tree	5	Mod to Moist	Sensitive	55	25	491	Upright oval	Green-yellow in spring, showy	Insignificant	Dark green	Yellow	Cold hardy cultivar. Form features strong, central leader and is more upright than parent species. Large root system requires large tree lawn. Unproven in the Grand Valley.
Fabaceae	<i>Maackia amurensis</i>		Amur Maackia	3	Xeric	Intermediate	25	18	254	Rounded vase	White in summer	Insignificant	Green	Yellow	Tolerant of urban conditions, including drought. Prune to develop strong branching structure and overhead clearance.
Fabaceae	<i>Maackia amurensis</i>	MaacNificent	MaacNificent Amur Maackia	3	Xeric	Intermediate	28	20	314	Upright vase	White in summer	Insignificant	Silvery green	Yellow	Tolerant of urban conditions, including drought. Branching more upright than species. Prune to develop strong branching structure and overhead clearance.
Fabaceae	<i>Maackia amurensis</i>	Summertime	Summertime Amur Maackia	3	Xeric	Intermediate	18	16	201	Upright to rounded	White in summer	Insignificant	Silvery green	Yellow	Small cultivar of parent species. Tree displays low branching habit (starting at 48" above ground). Plant where overhead clearance is not an issue.
Fabaceae	<i>Maackia amurensis</i>	Starburst	Starburst Amur Maackia	3	Xeric	Intermediate	27	18	254	Upright to rounded	White in summer	Insignificant	Silvery green	Yellow	Tree displays low branching habit (starting at 48" above ground). Plant where overhead clearance is not an issue.
Moraceae	<i>Maclura pomifera</i>	White Shield	White Shield Osage Orange	5	Xeric	Unknown	30	30	707	Upright spreading	Green in late spring, insignificant	Fruitless	Dark green	Yellow	Fruitless and thornless male cultivar. Tolerant of heat and drought. Highly resistant to storm damage due to hard, dense wood. Availability may be limited.

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Aceraceae	<i>Acer buergeranum</i>	Streetwise	Trident Maple	5	Min	Tolerant	30	30	707	Oval to rounded	Small green-yellow in spring, insignificant	Green samaras	Dark green	Orange-red	Slow growing. No pests or disease problems at this time. Snow & ice damage may be a concern.
Moraceae	<i>Maclura pomifera</i>	Wichita	Wichita Osage Orange	5	Xeric	Unknown	30	30	707	Upright spreading, rounded	Green in late spring, insignificant	Fruitless	Glossy dark green	Yellow	Fruitless and thornless male cultivar. Tolerant of wet soils, dry soils, heat, and drought. Highly resistant to storm damage due to hard, dense wood. Young trees may have few thorns but become thornless with age. Availability may be limited.
Magnoliaceae	<i>Magnolia</i>	NCMX1 P.A.F.	Mercury Magnolia	5	Mod	Unknown	23	12	113	Upright pyramidal	Large lavender pink flowers, very late blooming	Unknown	Dark green	Yellow	Upright pyramidal form with strong, central leader & branching structure. Flowers emerge much later than other magnolias, reducing susceptibility to frosts & freezes. NC State introduced - Availability may be limited. Unproven in the Grand Valley.
Magnoliaceae	<i>Magnolia acuminata</i>		Cucumbertree Magnolia	4	Mod	Intermediate	65	50	1963	Pyramidal to rounded	Yellow in spring, insignificant, fragrant	2"-3" red cucumber-shaped fruit, persistent	Dark green	Yellow-bronze	Fast growing species. Intolerant of compacted soils. Thin bark may be easily damaged. Large root system requires large tree lawn. Transplant in spring for best survivability. Availability may be limited.
Rosaceae	<i>Malus cv</i>	Check with Office of the City Forester for acceptable cultivars	Crabapple	4	Varies with Cultivar	Varies with Cultivar	Varies with Cultivar	Varies with Cultivar	-	No multi-stemmed or pendulous forms permitted	Varies with Cultivar	Varies with Cultivar	Varies with Cultivar	Yellow	Check with Office of the City Forester for guidance on cultivars.
Moraceae	<i>Morus alba</i>	fruitless cultivars	Fruitless mulberry	4	Min	Tolerant	40	40	1257	No pendulous forms permitted	Small yellowish-green in drooping catkins	Fruitless	Dark green	Yellow-bronze	Fast growing tree tolerant of urban conditions. Tree develops a wide / broad canopy. Tree can have
Betulaceae	<i>Ostrya virginiana</i>		American Hophornbeam	3	Min to Mod	Sensitive	30	30	707	Oval to rounded	Brown-green in summer, showy	1/4" Nut in hoplike sac, persistent	Dark green	Yellow	Tolerant of urban conditions. Tree is slow to establish, plant in early spring. Shallow root system. Prune to develop overhead clearance. Also known as ironwood.
Betulaceae	<i>Ostrya virginiana</i>	JFS-KW5	Autumn Treasure Hophornbeam	4	Min to Mod	Sensitive	35	17	227	Upright pyramidal to oval	Brown-green in summer, showy	1/4" Nut in hoplike sac, persistent	Dark green	Golden yellow	Upright, narrow form of parent species. Tolerant of urban conditions. Tree is slow to establish, plant in early spring. Shallow root system. Levae do not persist through winter - Leaf drop is complete in fall. Availability may be limited. Unproven in the Grand Valley.
Betulaceae	<i>Ostrya virginiana</i>	Camdale	Sun Beam American Hophornbeam	3	Min to Mod	Sensitive	33	30	707	Oblong pyramidal to rounded	Brown-green in summer, showy	Nut in hoplike sac, persistent	Dark green	Yellow	Leaves may persist through winter. NDSU introduced - Availability may be limited.
Hamamelidaceae	<i>Parrotia persica</i>		Persian Ironwood	5	Min	Unknown	30	30	707	Upright oval to rounded	Red in spring	Insignificant	Red-purple to dark green	Orange-red-yellow	Few issues once established. Prune to develop overhead clearance. Availability may be limited.
Hamamelidaceae	<i>Parrotia persica</i>	JLColumnar P.A.F.	Persian Spire Parrotia	5	Min	Unknown	25	10	79	Columnar to Upright Oval	Red in spring	Insignificant	Red-purple to dark green	Orange-red-yellow	New introduction. Availability may be limited.
Hamamelidaceae	<i>Parrotia persica</i>	Vanessa	Vanessa Persian Spire Parrotia	5	Min	Unknown	25	12	113	Upright vase	Red in spring	Insignificant	Dark green	Orange-red-yellow	New introduction. Availability may be limited.
Rutaceae	<i>Phellodendron amurense</i>		Amur Corktree	3	Min to Mod	Intermediate	38	45	1590	Open, rounded to spreading	Green-white in spring, insignificant	Small, black berry-like fruit cluster, only on females.	Green	Yellow	Easy to transplant. Large, shallow root system requires large tree lawn. Use only male cultivars, as fruit from females can be messy. Naturalization & seeding may be an issue.
Rutaceae	<i>Phellodendron amurense</i>	His Majesty	His Majesty Amur Corktree	3	Min to Mod	Intermediate	30	25	491	Broad vase	Green-white in spring, insignificant	Generally Fruitless	Green	Yellow	Generally fruitless, but use only male cultivars. Large, shallow root system requires large tree lawn. Naturalization & seeding may be an issue.
Rutaceae	<i>Phellodendron amurense</i>	Longenecker	Eye Stopper Corktree	4	Min to Mod	Intermediate	30	25	491	Upright to rounded	Green-white in spring, insignificant	Generally Fruitless	Green	Yellow	Generally fruitless, but use only male cultivars. Large, shallow root system requires large tree lawn. Naturalization & seeding may be an issue.
Rutaceae	<i>Phellodendron amurense</i>	Macho	Macho Amur Corktree	4	Min to Mod	Intermediate	40	40	1257	Upright to rounded	Green-white in spring, insignificant	Fruitless	Green	Yellow	Male, seedless cultivar of parent species. Large, shallow root system requires large tree lawn.

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Aceraceae	<i>Acer buergeranum</i>	Streetwise	Trident Maple	5	Min	Tolerant	30	30	707	Oval to rounded	Small green-yellow in spring, insignificant	Green samaras	Dark green	Orange-red	Slow growing. No pests or disease problems at this time. Snow & ice damage may be a concern.
Anacardiaceae	<i>Pistacia chinensis</i>		Chinese Pistache	6	Min	Intermediate	35	20	314	Upright to rounded	Insignificant	1/4" red berry	Green	Yellow-orange	Good heat and drought tolerance. Foliage consists of compound dark green leaves. Trees are dioecious with sperate male and female parts.
Platanaceae	<i>Platanus occidentalis</i>		American Sycamore	4	Mod	Intermediate	75	60	2827	Pyramidal to rounded	Deep red in spring, insignificant	1" Round seed ball, persistant	Green	Yellow	Upper branches display showy bark. Large root system requires large tree lawn. Fruit litter may be an issue.
Platanaceae	<i>Platanus occidentalis</i>	Bismarck	Northern Advance American Sycamore	3	Mod	Intermediate	75	60	2827	Pyramidal to rounded	Insignificant	1" Round seed ball, persistant	Green	Yellow	Cold hardy cultivar of parent species. Large root system requires large tree lawn. NDSU introduced - Availability may be limited.
Platanaceae	<i>Platanus occidentalis</i>	Glabra	Texas Sycamore	Insufficient Data at this time - If tree can be obtained, Forestry is open to permitting planting on trial basis							Insignificant	1" Round seed ball, persistant	Green	Yellow	Alkaline soil tolerant cultivar. Faster growing than parent species. Anthracnose resistant. Large root system requires large tree lawn.
Platanaceae	<i>Platanus x acerifolia</i>	Bloodgood	Bloodgood London Planetree	5	Mod	Intermediate	40	35	962	Broad pyramidal	Insignificant	1" Round seed ball in cluster of 2-3, persistant	Green	Yellow	Upper branches display showy bark. Cultivar more resistant to anthracnose than parent species. Large root system requires large tree lawn.
Platanaceae	<i>Platanus x acerifolia</i>	Morton Circle	Exclamation London Planetree	5	Mod	Intermediate	50	30	707	Pyramidal	Insignificant	1" Round seed ball in cluster of 2-3, persistant	Green	Yellow	Upper branches display showy bark. Cultivar more resistant to anthracnose than parent species. Large root system requires large tree lawn.
Rosaceae	<i>Prunus sp.</i>	Check with Office of the City Forester for acceptable cultivars	Plum/Cherry	5	Varies with Cultivar	Varies with Cultivar	Varies with Cultivar	Varies with Cultivar	-	Varies with Cultivar	Varies with Cultivar	Varies with Cultivar	Varies with Cultivar	Varies with Cultivar	Check with Office of the City Forester for guidance on cultivars.
Rosaceae	<i>Prunus x virginiana</i>	P002s	Sucker Punch Chokecherry	2	Min to Mod	Intermediate	25	20	314	Rounded	White in spring, showy	1/4"-1/2" Dark purple berry	Green to deep purple	Purple-red	Non-suckering cultivar of parent species. Availability may be limited.
Rosaceae	<i>Prunus x virginiana</i>	Canada Red'	Canada Red	2	Moderate	Intermediate	25	20	314.159265	Rounded	White in spring, showy	1/4"-1/2" Dark purple berry	Green to deep purple	Purple-red	Non-suckering cultivar of parent species. Availability may be limited.
Rutaceae	<i>Ptelea trifoliata</i>		Common Hoptree	3	Xeric	Intermediate	15	15	177	Rounded to vase	White in summer, not showy but fragrant	3/4"-1" Round samara	Green	Yellow	Tolerant of urban conditions and full shade sites. Suckering may be an issue. Prune to develop strong branching structure.and overhead clearance.
Juglandaceae	<i>Pterocarya stenoptera</i>		Chinese Wingnut	6	Min to Mod	Unknown	60	60	2827	Rounded to vase	Light green catkins in spring, showy	3/4" Winged nut	Glossy dark green	Yellow-green	Suckering and cold hardiness may be an issue. Large root system requires large tree lawn. Prune to develop strong branching structure. Unproven in the Grand Valley.
Rosaceae	<i>Pyrus calleryana</i>	Aristocrat	Aristocrat Pear	4b	Min to Mod	Intermediate	30	22	380	Pyramidal	White in spring, showy	Less than 1/2" diameter fruit	Dark green	Deep red	Tolerant of urban conditions. Overplanting is a concern. Prune to develop strong branching structure.
Rosaceae	<i>Pyrus calleryana</i>	Autumn Blaze	Autumn Blaze Pear	4	Min to Mod	Intermediate	20	18	254	Rounded	White in spring, showy	Less than 1/2" diameter fruit	Emerges with red tint to glossy green	Bright red	Most cold hardy cultivar of parent species. Tolerant of urban conditions. Overplanting is a concern. Prune to develop strong branching structure
Rosaceae	<i>Pyrus calleryana</i>	Capital	Capital Pear	5	Min to Mod	Intermediate	30	10	79	Columnar	White in spring, showy	Less than 1/2" diameter fruit	Glossy green	Red-purple	Availability may be limited.
Rosaceae	<i>Pyrus calleryana</i>	Glen's Form	Chanticleer Pear	4	Min to Mod	Intermediate	30	15	177	Upright pyramidal	White in spring, showy	Less than 1/2" diameter fruit	Glossy green	Red	Greater fireblight resistance than other cultivars. Overplanting is a concern. Prune to develop strong branching structure
Rosaceae	<i>Pyrus calleryana</i>	Jaczam	Jack Pear	4	Min to Mod	Intermediate	12	8	50	Compact oval	White in spring, showy	Less than 1/2" diameter fruit	Dark green	Yellow	Dwarf cultivar of parent species.

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Aceraceae	<i>Acer buergeranum</i>	Streetwise	Trident Maple	5	Min	Tolerant	30	30	707	Oval to rounded	Small green-yellow in spring, insignificant	Green samaras	Dark green	Orange-red	Slow growing. No pests or disease problems at this time. Snow & ice damage may be a concern.
Rosaceae	<i>Pyrus calleryana</i>	Cleveland Select	Cleveland Select	4	Min to Mod	Intermediate	12	8	50.2654825	Compact oval	White in spring, showy	Less than 1/2" diameter fruit	Dark green	Yellow	Dwarf cultivar of parent species.
Rosaceae	<i>Pyrus calleryana</i>	Redspire	Redspire	4	Min to Mod	Intermediate	12	8	50.2654825	Compact oval	White in spring, showy	Less than 1/2" diameter fruit	Dark green	Yellow	Dwarf cultivar of parent species.
Rosaceae	<i>Pyrus fauriei</i>	Westwood	Korean Sun Pear	4	Min to Mod	Intermediate	10	12	113	Compact round	White in spring, showy	Less than 1/2" diameter fruit	Green	Red-purple	Fast growing dwarf. Cultivar is more cold hardy than parent species.
Rosaceae	<i>Pyrus ussuriensis</i>	Bailfrost	Mountain Frost Ussurian Pear	3b	Min to Mod	Intermediate	20	20	314	Narrow upright	White in spring, showy	1" diameter fruit	Dark green	Yellow-red	Greatest cold hardiness among pear species. Fireblight resistant. Fruiting is typically sparse.
Rosaceae	<i>Pyrus ussuriensis</i>	MorDak	Prairie Gem Pear	3	Min to Mod	Intermediate	20	20	314	Rounded	White in spring, showy	1" diameter fruit	Dark green	Yellow	Greatest cold hardiness among pear species. Fireblight resistant. Fruiting may be abundant if planted adjacent to other pear cultivar(s).
Fagaceae	<i>Quercus accutissima</i>		Sawtooth Oak	5	Min to Mod		50	50	1963	Broad pyramidal to rounded	3"-4" catkins	1" Acorn	Dark green	Yellow-brown	Tolerant of heat & humidity. Chlorosis may be an issue. Availability may be limited. Unproven in the Grand Valley.
Fagaceae	<i>Quercus alba</i>		White Oak	3	Mod	Tolerant	60	60	2827	Oval to rounded	Insignificant	1/2"-1" Acorn	Green	Red	Relatively slow growing. May be intolerant of alkaline soils. Chlorosis may be an issue.
Fagaceae	<i>Quercus bicolor</i>		Swamp White Oak	4	Min to Mod	Intermediate	50	50	1963	Upright oval	Insignificant	1/2"-1" Acorn	Dark green	Copper-orange	Tolerant of urban conditions including periodic flooding, soil compaction, and drought. Depending on genetics, may be susceptible to bullet gall. Chlorosis may be an issue. Prune to develop central leader.
Fagaceae	<i>Quercus bicolor</i>	JFS-KW12 PP23632	American Dream Oak	4	Min to Mod	Intermediate	45	35	962	Broad pyramidal	Insignificant	1/2"-1" Acorn	Bright green	Yellow	Cultivar is faster growing than parent species. Tolerant of urban conditions including periodic flooding, soil compaction, and drought. Depending on genetics, may be susceptible to bullet gall. Chlorosis may be an issue. Prune to develop central leader.
Fagaceae	<i>Quercus bicolor</i>	Bonnie and Mike	Beacon Oak	4	Min to Mod	Intermediate	35	12	113	Narrow columnar	Insignificant	1/2"-1" Acorn	Glossy green	Yellow	Tolerant of urban conditions including periodic flooding, soil compaction, and drought. Depending on genetics, may be susceptible to bullet gall. Chlorosis may be an issue. Prune to develop central leader.
Fagaceae	<i>Quercus buckleyi</i>		Texas Red Oak	5b	Min	Tolerant	35	35	962	Broad rounded	Insignificant	1/2"-3/4" Acorn	Glossy green	Orange-red	Native of Texas is closely related to shumard oak. Tolerant of alkaline soils and drought. Check seed source for hardiness and soil tolerance.
Fagaceae	<i>Quercus gambelii</i>		Gambel Oak	5	Xeric	Intermediate	20	20	314	Irregular rounded	Insignificant	1/2"-3/4" Acorn	Dark green	Yellow-red-brown	Root suckers may be an issue. Prune to develop single stem form. Kermes scale is an increasing issue.
Fagaceae	<i>Quercus glaucooides</i>		Lacey Oak	6b	Xeric	Unknown	30	25	491	Irregular rounded	Insignificant	1/2"-3/4" Acorn	Pink turning to blue-green	Yellow-brown	Native of south-central Texas. Tolerant of heat, drought, and alkaline soils. Cold hardiness may be an issue. Prune to develop central leader. Unproven in the Grand Valley.
Fagaceae	<i>Quercus imbricaria</i>		Shingle Oak	5	Mod	Unknown	50	50	1963	Pyramidal to oval-rounded	Insignificant	1/2" Acorn	Green	Yellow-red	May be intolerant of alkaline soils. Transplant in spring for best survivability. Large root system requires large tree lawn. Chlorosis may be an issue.
Fagaceae	<i>Quercus macrocarpa</i>		Bur Oak	3	Xeric	Intermediate	70	60	2827	Rounded	Insignificant	1" Acorn	Dark green	Copper-yellow	Tolerant of urban conditions. Depending on genetics, may be susceptible to bullet gall. Large root system requires large tree lawn.
Fagaceae	<i>Quercus macrocarpa</i>	Bullet Proof	Bullet Proof Bur Oak	4	Xeric	Intermediate	70	60	2827	Rounded to upright	Insignificant	1" Acorn	Dark green	Copper-yellow	Tolerant of urban conditions. High resistance to bullet gall. Large root system requires large tree lawn.

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Aceraceae	<i>Acer buergeranum</i>	Streetwise	Trident Maple	5	Min	Tolerant	30	30	707	Oval to rounded	Small green-yellow in spring, insignificant	Green samaras	Dark green	Orange-red	Slow growing. No pests or disease problems at this time. Snow & ice damage may be a concern.	
Fagaceae	<i>Quercus macrocarpa</i>	JFS-KW14	Cobblestone Oak	3	Xeric	Intermediate	50	40	1257	Broad oval	Insignificant	1" Acorn	Dark green	Yellow	Bark displays more cork-like features than parent species.	
Fagaceae	<i>Quercus macrocarpa</i>	JFS-KW3PP22815	Urban Pinnacle Oak	3	Xeric	Intermediate	50	20	314	Narrow pyramidal to oval	Insignificant	1/2" Acorn	Glossy dark green	Yellow	Tree features strong central leader.	
Fagaceae	<i>Quercus muehlenbergii</i>		Chinkapin Oak	3	Mod	Intermediate	45	50	1963	Upright oval to rounded	Insignificant	1" Acorn	Yellow-green	Yellow	Tolerant of alkaline soils. Transplant in spring for best survival. Prune to develop central leader.	
Fagaceae	<i>Quercus muehlenbergii</i>	Red Autumn	Red Autumn Chinkapin Oak	Insufficient Data at this time - If tree can be obtained, Forestry is open to permitting planting on trial basis							Insignificant	1" Acorn	Unknown	Unknown	Variety displays fall color than parent species.	