



**REPORT SUPPLEMENT**

**Tree Species profiles**

**Northern Oklahoma College**

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| http://www.seedshelf.com/images/yhst-13621674513170_2021_2108498.jpeg | Acer palmatum  Japanese Maple   * **Family** – Sapindaceae * **Hardiness Zone** - USDA Zones 6 – 8 * **Exposure** - Partial shade to full shade * **Soil Type** - performs best in acidic, well-drained loam * **Description** - Medium, deciduous tree native to Japan and Korea. Leaves are palmate, two to four inches long, and deeply cut into five to nine lobes. Leaf color varies from green purple, red, and bronze depending on the variety. All display fall color. The smooth or furrowed bark also varies in color from green, gray, and brown. Inconspicuous, monoecious flowers appear in spring followed by brown winged seeds in summer. |

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| https://encrypted-tbn3.google.com/images?q=tbn:ANd9GcQzJhX-96iOJm8Kn_I7vzCJFdY6hKMZb1xsznl3gRl9UDpyI1r7 | Acer platanoides ‘Columnare’  Columnar Norway Maple   * **Family** – Sapindaceae * **Hardiness Zone** - USDA Zones 4 -7 * **Exposure** - Full sun to part shade * **Soil Type** - Prefers best in moist, acidic loam   **Description** - Tall, deciduous tree 50 to 60 feet in height and 15 to 20 feet in spread. More upright and slower growth than the species. Bark is dark brown and furrowed. Leaves are palmate, three to five inches, smooth margin, and paler green underneath. Native to Eastern and Central Europe as well as Southwest Asia. |

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| Red Maple.jpg | Acer rubrum  Red Maple   * **Family** – Sapindaceae * **Hardiness Zone** - USDA Zones 3 - 9 * **Exposure** - Full sun to part shade * **Soil Type** - Prefers moist soil; must be well-drained in clay * **Description** - Deciduous fast grower to 60 feet tall and 40 feet wide. Dark gray bark is furrowed and exfoliates. Foliage is three or five lobed, two to four inches long, and paler underneath. Showy red, dioecious flowers appear in the spring. Native to Eastern North America. |

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| Picture | Acer saccharinum  Silver Maple   * **Family** – Sapindaceae * **Hardiness Zone** - USDA Zones 4 - 9 * **Exposure** - Full sun to part shade * **Soil Type** - Thrives in moist, acidic soil; poorly in alkaline * **Description** - Very fast growing deciduous tree to 40 to 100 ft in height with equal spread. Native to Eastern North America with exfoliating gray bark. Inconspicuous, monoecious flowers in spring with three to six inch, five lobed foliage. Leaves have distinctive silvery underside. |

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| http://upload.wikimedia.org/wikipedia/commons/7/71/Ailanthus_altissima01.JPEG | Ailanthus altissma  Tree of Heaven   * **Family** – Simaroubaceae * **Hardiness Zone** - USDA Zones 4 - 8 * **Exposure** - Full sun to part shade * **Soil Type** - Tolerates all soils * **Description** - Fast growing, deciduous, invasive native of China with 50 ft in height and width. Pinnately compound foliage is one to three feet long with 13 to 25 leaflets that are three to five inches in length. Inconspicuous, yellow flowers appearing in spring are dioecious. The bark is green or gray and smooth or scaly. |

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| Incense Cedar.jpg | Calocedrus decurrens  Incense Cedar   * **Family** – Cupressaceae * **Hardiness Zone** - USDA Zones 5 - 8 * **Exposure** - Full sun to part shade * **Soil Type** - Tolerates all soil types * **Description** - Evergreen native to Western North America has a dense, pyramidal form and is slow growing at first but becomes a fast grower once established. Can reach 60 to 90 feet in height with a 10 to 20 foot spread. Medium green foliage grows in flat sprays and is fragrant. Monoecious, inconspicuous flowers appear in the spring and small brown cones in the fall. The trunk has furrowed red brown bark. |

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| Pecan.jpg | Carya illinoensis  Pecan   * **Family** – Juglandaceae * **Hardiness Zone** - USDA Zones 5 - 9 * **Exposure** - Full sun to part shade * **Soil Type** - Best in well-drained non-alkaline soil * **Description** - Fast growing deciduous native of Central and Southern North America. Can reach 70 to 100 feet in height with 70 foot width. Pinnately compound leaves are 12 to 18 inches long with four to seven inch leaflets. Inconspicuous spring flowers are monoecious. Will only fruit in the fall in areas with long, hot summer. The bark is dark brown to dark gray and can be scaly, furrowed, or ridged. |

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| http://studentorganizations.missouristate.edu/hortclub/Cedrus%20atlantica02.JPG | Cedrus atlantica  Atlas Cedar   * **Family** – Juglandaceae * **Hardiness Zone** - USDA Zones 6 - 9 * **Exposure** - Full sun to part shade * **Soil Type** - Tolerant of all types if well-drained * **Description** - Slow growing evergreen native of the Atlas Mountains in North Africa with 60 to 70 feet in height and 30 foot spread. Monoecious, inconspicuous flowers appear in the spring. The bark is dark brown to dark gray and is furrowed. Foliage consists of blue green or gray green needles. The bark and foliage are fragrant. |

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| Picture | Celtis occidentalis  Common Hackberry   * **Family** – Ulmaceae * **Hardiness Zone** - USDA Zones 2 - 9 * **Exposure** - Full sun to part shade * **Soil Type** - Tolerates all soil types * **Description** - Deciduous native to Eastern North America to 50 feet in height and 20 to 30 foot spread. Foliage is two to five inches long, mostly ovate, and with serrate margin. Spring flowers are monoecious and inconspicuous. The bark is light to dark gray, rough, scaly, corky, and warty. |

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| Eastern Redbud.jpg | Cercis Canadensis  Eastern Redbud   * **Family** – Fabaceae * **Hardiness Zone** - USDA Zones 5 - 9 * **Exposure** - Full sun to part shade * **Soil Type** - Best in moist, well-drained loam * **Description** - Slow to medium growing, deciduous native of Eastern United States. Full growth at 25 to 35 feet tall with equal spread. Showy pink, perfect flowers appear in spring. Round leaves with pointed apex are three to six inches long. The bark is dark brown or red brown. |

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| Picture | Elaeagnus angustifolia  Russian Olive   * **Family** – Elaeagnaceae * **Hardiness Zone** - USDA Zones 3 - 8 * **Exposure** - Full sun to part shade * **Soil Type** - Tolerates all soil types * **Description** - Deciduous native to Europe and Asia grows 20 to 25 ft tall and wide. Two inch long silver gray foliage is lanceolate and willow-like. The shredding bark is red brown. Greenish yellow, dioecious flowers appear in summer and are fragrant. |

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| Picture | Fraxinus pennsylvanica  Green Ash, Red Ash   * **Family** – Oleaceae * **Hardiness Zone** - USDA Zones 4 - 9 * **Exposure** - Full sun to part shade * **Soil Type** - Prefers moist soil * **Description** - Deciduous Eastern US native grows 30 to 50 feet tall and wide. The pinnately compound foliage is 10 to 12 inch long with four to six inch leaflets. Dioecious, inconspicuous flowers appear in spring. The bark is dark brown to gray and is furrowed, ridged, or scaly. |

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| Picture | Juniperus virginiana  Eastern Red Cedar   * **Family** – Cupressaceae * **Hardiness Zone** - USDA Zones 2 - 9 * **Exposure** - Full sun to part shade * **Soil Type** - Tolerates most well-drained soils * **Description** - Evergreen native to Eastern North America is conical in shape with 40 to 50 feet height and 15 to 30 foot width. Scale-like green foliage turns red in the fall. The bark is gray or red brown, furrowed, and peels. Dioecious spring flowers are inconspicuous. |

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| Goldenrain.jpg | Koelreuteria paniculata  Goldenrain Tree   * **Family** – Sapindaceae * **Hardiness Zone** - USDA Zones 6 - 9 * **Exposure** - Full sun to part shade * **Soil Type** - Tolerates all soil types * **Description** - Deciduous Asian native grows 20 to 35 feet tall and wide. Pinnately compound leaves are 12 to 15 inches long with 7 to 15 leaflets that are one to three inches in length. The margin is toothed or lobed. Perfect flowers appear in summer and are a showy yellow. The bark is light brown, ridged, and furrowed. |

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| Goldenrain.jpg | Liquidambar styraciflua  American Sweet Gum   * **Family** – Hamamelidaceae * **Hardiness Zone** - USDA Zones 5 - 10 * **Exposure** - Full sun to part shade * **Soil Type** - Tolerates all soil types * **Description** - Fast growing deciduous native of Eastern US. Excurrent growth in youth with eventual spreading habit to 20 to 35 ft and 60 ft in height. Smooth, glossy foliage is palmate with 5 to 7 lobes and three to seven inches wide. Known for its showy fall color and spiky fruit. The bark is gray and deeply furrowed. Monoecious flowers in spring are inconspicuous. |

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| Tulip Tree.jpg | Liriodendron tulipifera  Tulip tree   * **Family** – Magnoliaceae * **Hardiness Zone** - USDA Zones 5 -9 * **Exposure** - Full sun to part shade * **Soil Type** - Thrives in rich, well-drained, non-alkaline soil * **Description** - Deciduous Eastern US native that grows 60 to 80 feet tall and 40 feet wide. Simple ovate foliage is two to three inches long and wide, with 2 to 4 paired lobes, and blunt apex. Showy, perfect, chartreuse/yellow, tulip-like flowers appear in late spring. The bark is dark brown to medium gray and deeply fissured. |

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| Apple.jpg | Malus pumila  Common Apple   * **Family** – Magnoliaceae * **Hardiness Zone** - USDA Zones 5 - 8 * **Exposure** - Full sun * **Soil Type** - Prefers rich, moist, acidic soil * **Description** - Deciduous tree originating in Europe with mature growth at 20 to 25 feet in height and width. Foliage is ovate with serrate to double serrate margin. Showy spring flowers are fragrant and perfect. The color ranges from white, pink, and white with pink accent. The bark is red brown to gray and smooth or scaly. |

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| Chinaberry.jpg | Melia azedarach  Chinaberry   * **Family** – Meliaceae * **Hardiness Zone** - USDA Zones 8 -12 * **Exposure** - Full sun to part shade * **Soil Type** - Tolerates all soil types * **Description** - Deciduous native of China and Northern India with mature height and spread of 30 to 50 feet. Bipinnate foliage is one to three feet long with one to two inch toothed lanceolate or ovate leaflets. Flowers appear from spring to summer and are perfect, showy, lavender, and fragrant. The bark is furrowed and dark brown. |

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| Red_Mulberry.jpg | Morus rubra  Red Mulberry   * **Family** – Moraceae * **Hardiness Zone** - USDA Zones 5 – 9 * **Exposure** - Full sun to part shade * **Soil Type** - Tolerates wide range of well-drained soils * **Description** - Deciduous native of Central and Eastern US with mature height at 15 to 70 feet and 20 to 30 foot spread. The three to five inch long foliage is cordate or with 3 to 7 lobes. The margin can be serrate or dentate. The bark is dark brown to gray and scaly. Inconspicuous, dioecious spring flowers are yellow green. |

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| C:\Documents and Settings\mikulanv\Local Settings\Temporary Internet Files\Content.Word\Austrian Pine.jpg | Pinus nigra  Austrian Black Pine   * **Family** – Pinaceae * **Hardiness Zone** - USDA Zones 5 - 8 * **Exposure** - Full sun to part shade * **Soil Type** - Tolerates most well-drained soils * **Description** - Slow to moderate growing evergreen native of Europe and Western Asia with eventual height to 40 to 60 feet and 20 to 30 foot width. Stiff green needles are in bundles of two and the two to four inch cones are oval with brown color. The monoecious flowers are inconspicuous. The bark is dark gray and furrowed. |
| Picture | Pinus taeda  Loblolly pine   * **Family** – Pinacae * **Hardiness Zone** - USDA Zones 6 - 9 * **Exposure** - Full sun * **Soil Type** - Prefers moist soil but well drained soil * **Description** - Evergreen native of Southeastern US grows to 40 to 100 feet in height and 20 to 40 feet wide. Stiff green needles are in bundles of three and are five to nine inches long. The pale brown cones are three to five inches in length. Inconspicuous, monoecious flowers appear in the spring. The bark is smoky brown and furrowed. |

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| http://www.meridian.k12.il.us/Middle%20School/student_work/Steve/sycamore.jpg | Platanus spp  Sycamore   * **Family** – Platanaceae * **Hardiness Zone** – USDA Zones 4-9 * **Exposure** – Full sun to part shade * **Soil Type** – Will tolerate clay, loam and sandy soils. * **Description** – Fast growing deciduous native of the Eastern United States. Palmate 4-8 inch leaves are green, turning to bronze or gold in the fall. Inconspicuous monoecious flowers in the spring. Brown singular spherical fruit one inch diameter often persists through the winder. Grows to a height of 80 feet and an extensive canopy of up to 70 feet in width. Variability in cream to dark brown colored bark ranges in texture from rough to furrowed or scaly. Bark is often the most striking feature of mature specimens. |

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| Picture | Populus deltoides  Eastern Cottonwood   * **Family** – Salicaceae * **Hardiness Zone** - USDA Zones 3 - 9 * **Exposure** - Full sun * **Soil Type** - Prefers moist yet well-draining sand or loam * **Description** - Deciduous native of Eastern US with full height at 60 to 80 feet and 20 to 30 foot width. Foliage is two to four inches long and deltoid to ovate. Dioecious spring flowers are inconspicuous. The bark is silvery white and lightly fissured when young and becomes dark gray with deep fissures as it matures. |

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| C:\Documents and Settings\mikulanv\Local Settings\Temporary Internet Files\Content.Word\Carolina Cherry Laurel.jpg | Prunus caroliniana  Carolina Laurel Cherry   * **Family** – Rosaceae * **Hardiness Zone** - USDA Zones 7 - 10 * **Exposure** - Full sun to part shade * **Soil Type** - Prefers non-alkaline soils * **Description** - Evergreen native of Southern US. Can reach 30 to 40 feet in height and 20 to 30 feet in width if trained as a tree. Glossy green foliage is two to four inches long, lanceolate to ovate, and entire on the margin with occasional toothing. Showy, white, fragrant, simple flowers appear in the spring. The bark is light to dark gray and smooth. |

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| http://www.downsizer.net/gallery/13124/cherry+plum+2+july+2009.JPG | Prunus cerasifera  Cherry plum   * **Family** – Rosaceae * **Hardiness Zone** – USDA Zones 5-8 * **Exposure** – Full sun to part shade * **Soil Type** – Loam or sand * **Description** - Medium growing deciduous native of Europe and Asia. Has green, bronze, to purple ovate leaves 1.5-2.5 inches long. Mature height to 35 feet. Showy white perfect flowers in the spring, turning to edible red fruit in the summer. Bark is dark brown and furrowed. |

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| http://2.bp.blogspot.com/-hG_CAxT3558/Tau77su-d2I/AAAAAAAAAJM/iqHy3f6HETM/s1600/pear1.jpg | Pyrus calleryana ‘Bradford’  Bradford Pear   * **Family** – Rosaceae * **Hardiness Zone** - USDA Zones 5 - 8 * **Exposure** - Full sun * **Soil Type** - Prefers moist, well-draining soil * **Description** - Fast growing, deciduous native of China with mature growth potential to 50 feet tall and 30 feet wide. Oval two to three inch foliage has wavy margin and rounded, slightly serrated apex. Showy, white, perfect flowers appear in spring or winter. The bark is dark brown to gray and changes from smooth to rough with age. |

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| C:\Documents and Settings\mikulanv\Local Settings\Temporary Internet Files\Content.Word\Sawtooth Oak.jpg | Quercus acutissima  Sawtooth Oak   * **Family** – Fagaceae * **Hardiness Zone** - USDA Zones 5 -9 * **Exposure** - Full sun * **Soil Type** - Prefers well-drained, acidic soil * **Description** - Fast growing, deciduous native of Himalayas and Asia with eventual height and spread of 30 to 70 feet. Shiny dark green foliage is three to seven inches long. The one inch acorn resemble blunt cylinders. Spring flowers are monoecious and inconspicuous. The bark is dark gray to black, ridged, and furrowed |

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| http://www.mobot.org/gardeninghelp/images/low/V140-0906050tp.jpg | Quercus shumardii  Shumard Red Oak   * **Family** – Fagaceae * **Hardiness Zone** - USDA Zones 5 -9 * **Exposure** - Full sun to part shade * **Soil Type** - Tolerates most soil types * **Description** - Deciduous native of Eastern US growing 60 to 80 feet tall and 40 to 60 feet wide. Foliage is three to six inches long, elliptic, and lobed. The 1 to 1.5 inch acorn is egg shaped with a shallow cap. Spring flowers are monoecious and inconspicuous. The bark is light to dark gray and furrowed. |

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| http://www.wildflower.org/image_archive/640x480/PCD3459/PCD3459_IMG0028.JPG | Sapindus drummondii  Western Soapberry   * **Family** – Sapindaceae * **Hardiness Zone** - USDA Zones 8 - 10 * **Exposure** - Full sun to part shade * **Soil Type** – Tolerates most soil types * **Description** - Deciduous native of Southern US with equal height and spread of 30 to 35 feet. Foliage is pinnately compound. Showy yellow or white flowers appear in spring or summer and are perfect. The bark is red brown to gray and furrowed. |

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| Bald cypress.jpg | Taxodium distichum  Bald Cypress   * **Family** – Taxodiaceae * **Hardiness Zone** - USDA Zones 5 - 10 * **Exposure** - Full sun to part shade * **Soil Type** - Does not tolerate alkaline soils * **Description** - Deciduous native of Southeastern US with 50 to 70 foot height and 20 to 30 fppt width. Half inch long foliage is feathery and needle-like. Inconspicuous flowers appear in summer or fall and are monoecious. The bark is shaggy, red brown, and exfoliates. |

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| C:\Documents and Settings\mikulanv\My Documents\Northern Oklahoma College\NOC_Tree_photos\Arborvitae.jpg | Thuja occidentalis  American Arborvitae   * **Family** – Cupressaceae * **Hardiness Zone** - USDA Zones 2 - 7 * **Exposure** - Full sun to part shade * **Soil Type** - Thrives in well-drained soil * **Description** - Evergreen native of Eastern US can grow to 30 to 60 feet in height and with a 10 to 20 foot spread. Green to yellow green foliage grows in sprays. Half to three quarter inch cones eventually turn brown. Spring flowers are monoecious and inconspicuous. The bark is red brown, furrowed, and exfoliates. |

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| American Basswood Linden.jpg | Tilia americana  American Linden, Basswood   * **Family** – Tiliaceae * **Hardiness Zone** - USDA Zones 3 - 8 * **Exposure** - Full sun to part shade * **Soil Type** - Prefers rich, moist soil * **Description** - Deciduous native of Eastern North America growing 40 to 60 feet tall and 20 to 30 feet wide. Large ovate leaves are 4 to 6 inches long with irregularly cordate bases. Showy, fragrant summer flowers are white or yellow and perfect. The bark is light to dark gray and can be furrowed, ridged, or scaly. |

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| Picture | Ulmus americana  American elm   * **Family** – Ulmaceae * **Hardiness Zone** - USDA Zones 3 - 9 * **Exposure** - Full sun to part shade * **Soil Type** - Performs best in rich, well-drained loam * **Description** - Large, deciduous tree, native to North America. Leaves are alternate, simple, ovate to oblong, three to five inches long and one to three inches wide. Leaf margin is coarsely and sharply doubly serrate and base is conspicuously inequilateral. Leaf surface is glossy, dark green and glabrous, paler and downy on the underside. Bark is a dark ashy gray with flat-topped ridges separated by diamond-shaped fissures. Monoecious flowers appear in small drooping clusters of three to five in early spring, before leaf bud. |

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| C:\Documents and Settings\mikulanv\My Documents\Northern Oklahoma College\NOC_Tree_photos\Chinese Elm.jpg | Ulmus parvifolia  Chinese elm   * **Family** – Ulmaceae * **Hardiness Zone** - USDA Zones 5 - 9 * **Exposure** - Full sun to part shade * **Soil Type** - Prefers moist soil * **Description** - Fast growing evergreen to semi-deciduous native of Asia with eventual height and spread of 60 to 70 ft. Thick, glossy, ovate to lanceolate foliage is one to two inches long and half inch to three quarter inch wide. Summer or fall flowers are monoecious and inconspicuous. The smooth or scaly bark varies in color from brown, green, and gray. Older trunks shed bark in patches. |