

3 LISTS OF MERAMEC COLLEGE PLANTS
(TREES, GYMNOSPERMS, GARDEN FLOWERS)

1. **TREES:** Online plotting of over 1,000 Meramec campus trees: click [HERE](#) for the map.
 2. **GYMNOSPERMS:** (see table #2 below) I will explain the cryptic notes on our walk
 3. **GARDEN FLOWERS:** (see table #3 below)

Table #2: Gymnosperms

BOTANICAL NAME	COMMON NAME	FAMILY	NOTES
<i>Cedrus atlantica</i>	Atlas Cedar	Pinaceae	Atlas Mountains of Morocco
<i>Chamaecyparis obtusa</i>	Hinoki Falsecypress	Cupressaceae	Japanese - widely cultivated - quality timber, ornamental; leaves blunt-tipped / white stomatal band at base of leaf
<i>Chamaecyparis pisifera</i>	Sawara Cypress	Cupressaceae	Similar to above, but leaves w pointed tips;
<i>Cryptomeria japonica</i>	Japanese Cedar	Cupressaceae	Sugi (=hair tree)- national tree of Japan
<i>Ginkgo biloba</i>	Ginkgo		not a conifer - in a gymnosperm division of its own
<i>Juniperus chinensis</i>	Chinese Juniper	Cupressaceae	dioecious / blue cones larger (7-12mm, 2-4 seeds) mature 18 months; turn brn / juvenile and adult foliage / >100 named cultivars / important bonsai / to 60' /
<i>Juniperus pfitzeriana</i>	Pfitzer Juniper	Cupressaceae	hybrid between <i>J. chinensis</i> and <i>J. sabina</i>
<i>Juniperus virginiana</i>	Eastern Redcedar	Cupressaceae	dioecious / cones stay blue / 1-3 (rarely 4) seeds mature 6-8 months / MO 795 years old / juvenile vs adult foliage / to 60' / shades out others / fallen needles raise soil pH (more alkaline) reducing phosphorous absorption of plants
<i>Metasequoia glyptostroboides</i>	Dawn Redwood	Cupressaceae	leaves oppositely arranged with rounded tips;
<i>Picea abies</i>	Norway Spruce	Pinaceae	largest cones of any spruce; lumber; Christmas Tree; closely related to Siberian Spruce
<i>Picea engelmannii</i>	Engelmann Spruce, Mountain Spruce	Pinaceae	wood, paper-making, construction; wood from slow-grown mountain trees for violins, guitars, harps, pianos;
<i>Picea glauca</i>	White Spruce	Pinaceae	250-300 years; northernmost tree species in N Amer
<i>Picea orientalis</i>	Oriental Spruce	Pinaceae	needle-like leaves are the shortest of any spruce;
<i>Picea pungens</i>	Colorado Blue Spruce	Pinaceae	state tree of Colorado; <i>pungens</i> = "sharply pointed"
<i>Pinus banksiana</i>	Jack Pine	Pinaceae	fascicles of 2; cones point forward; open in fire; pulpwood
<i>Pinus bungeana</i>	Lacebark Pine	Pinaceae	fascicles 3; attractive metallic bark sheds in round scales;
<i>Pinus cembra</i>	Swiss or Arolla Pine	Pinaceae	fascicles of 5; seeds sold as pine nuts; 500-1000 years old;
<i>Pinus densiflora</i> ' <i>Umbraculifera</i> '	Jap. Red Pine (Um- brella top; multi trunk)	Pinaceae	fascicles of 2; yellowish in winter; related to Scots Pine; national symbol of Korea; timber and ornament;
<i>Pinus echinata</i>	Shortleaf Pine	Pinaceae	fascicles of 2 & 3; wood pulp, plywood veneer, lumber;
<i>Pinus flexilis</i>	Limber Pine	Pinaceae	fascicles of 5 deciduous sheath; needles entire (smooth when rubbed either direction); West..white pine serrated;
<i>Pinus leucodermis</i>	Bosnian Pine	Pinaceae	fascicles of 2 w persistent sheath; purple cones; >1000 yrs
<i>Pinus mugo</i>	Mountain Pine	Pinaceae	fascicles of 2; small tree or shrub;
<i>Pinus nigra</i>	Austrian pine	Pinaceae	fascicles of 2; susceptible to tip blight in St. Louis area;
<i>Pinus parviflora</i>	Japanese White Pine	Pinaceae	fascicles of 5; ornamental tree for parks; popular bonsai
<i>Pinus resinosa</i>	Red Pine	Pinaceae	fascicles of 2; state tree of Minn; leaves snap when bent;
<i>Pinus strobus</i>	Eastern White Pine	Pinaceae	fasc. of 5 with decid. sheath; finely serrated; persist for 18 months; branches spaced 18" with 5-6 spokes on wheel;
<i>Pinus sylvestris</i>	Scots Pine	Pinaceae	fasc of 2 w persist. sheath; short leaves w orange bark
<i>Pinus taeda</i>	Loblolly Pine	Pinaceae	fasc of 3; second-most common tree species in U.S. (after red maple); needles last 2 years; hybridizes with shortleaf;
<i>Pinus thunbergii</i>	Japanese Black Pine	Pinaceae	fasc of 2 w white sheath; popular horticultural & bonsai

<i>Platycladus orientalis</i> (former <i>Thuja orientalis</i>)	Chinese Arborvitae	Cupressaceae	<i>Platycladus</i> is monotypic genus; monoecious; differs from <i>Thuja</i> by distinct cones, wingless seeds, scentless foliage;
<i>Pseudolarix amabilis</i>	Golden Larch (not a true larch)	Pinaceae	monotypic genus; deciduous; leaves widely spaced on long shoots, dense whorl on short shoots; tolerates heat;
<i>Taxodium ascendens</i>	Pond Cypress	Cupressaceae	deciduous; trunk expanded at base; shorter leaves; knees;
<i>Taxodium distichum</i>	Baldcypress	Cupressaceae	leaves alternately arranged with pointed tips; native;
<i>Taxus baccata</i>	English Yew	Taxaceae	leaves deadly toxic; male trees extremely allergenic;
<i>Thuja occidentalis</i>	N. White Cedar American Arborvitae	Cupressaceae	widely cultivated as an ornamental; fan-like branches with scaly leaves; threatened by deer; more than 300 cultivars;
<i>Tsuga canadensis</i>	Eastern Hemlock	Pinaceae	tolerates full shade; over 300 cultivars; state tree of PA

Table #3: Garden Flowers

	BOTANICAL NAME	FAMILY (with tribe)	COMMON NAME (with flower stage)
<input type="checkbox"/>	<i>Abelia x grandiflora</i>	Caprifoliaceae	Glossy Abelia (flower)
<input type="checkbox"/>	<i>Aesculus parviflora</i>	Sapindaceae	Bottlebrush Buckeye (flower)
<input type="checkbox"/>	<i>Ageratum houstonianum</i>	Asteraceae (Eupatorieae tribe)	Floss Flower (flower)
<input type="checkbox"/>	<i>Ajuga reptans</i>	Lamiaceae	Bugleweed (flower)
<input type="checkbox"/>	<i>Angelonia</i>	Plantaginaceae	Summer Snapdragon (flower)
<input type="checkbox"/>	<i>Asclepias curassavica</i>	Apocynaceae	Tropical Milkweed (flower)
<input type="checkbox"/>	<i>Bistorta amplexicaulis</i>	Polygonaceae	Red Bistort (flower)
<input type="checkbox"/>	<i>Canna flaccida</i>	Cannaceae	Golden Canna (flower)
<input type="checkbox"/>	<i>Canna x generalis</i>	Cannaceae	Canna Hybrid (flower)
<input type="checkbox"/>	<i>Capsicum annuum</i>	Solanaceae	Ornamental Chile Peppers (fruit)
<input type="checkbox"/>	<i>Celosia argentea</i>	Amaranthaceae	Cockscomb (flower 4 kinds!)
<input type="checkbox"/>	<i>Cenchrus alopecuroides</i>	Poaceae	Chinese Fountaingrass (seedhead)
<input type="checkbox"/>	<i>Cephalanthus occidentalis</i>	Rubiaceae	Buttonbush (fruit)
<input type="checkbox"/>	<i>Chionanthus retusus</i>	Oleaceae	Chinese Fringetree (fruit)
<input type="checkbox"/>	<i>Clematis terniflora</i>	Ranunculaceae	Sweet Autumn Clematis (flower)
<input type="checkbox"/>	<i>Clinopodium nepeta</i>	Lamiaceae	Lesser Calamint (flower)
<input type="checkbox"/>	<i>Coleus scutellarioides</i>	Lamiaceae	Coleus (colored leaves)
<input type="checkbox"/>	<i>Colocasia esculenta</i>	Araceae	Taro (huge leaves)
<input type="checkbox"/>	<i>Crataegus crus-galli</i>	Rosaceae	Cockspur Hawthorn (fruit)
<input type="checkbox"/>	<i>Cuphea ignea</i>	Lythraceae	Cigar Plant (flower)
<input type="checkbox"/>	<i>Echinacea purpurea</i>	Asteraceae (Heliantheae tribe)	Purple Coneflower (flower)
<input type="checkbox"/>	<i>Emilia javanica</i>	Asteraceae (Senecioneae tribe)	Tasseflower (flower - orange!)
<input type="checkbox"/>	<i>Eriocapitella hupehensis</i>	Ranunculaceae	Japanese Anemone (flower)
<input type="checkbox"/>	<i>Eupatorium altissimum</i>	Asteraceae (Eupatorieae tribe)	Tall Boneset (flower)
<input type="checkbox"/>	<i>Glandularia canadensis</i>	Verbenaceae	Rose Vervain (flower)
<input type="checkbox"/>	<i>Gomphrena globosa</i>	Amaranthaceae	Globe Amaranth (flower - 2 kinds!)
<input type="checkbox"/>	<i>Helenium autumnale</i>	Asteraceae (Helenieae tribe)	Sneezeweed (flower)
<input type="checkbox"/>	<i>Heptacodium miconioides</i>	Caprifoliaceae	Seven-Son Flower (flower & flower)
<input type="checkbox"/>	<i>Hydrangea paniculata</i>	Hydrangeaceae	Panicked Hydrangea (fruit)
<input type="checkbox"/>	<i>Hylotelephium</i>	Crassulaceae	Sedum (fruit)
<input type="checkbox"/>	<i>Ilex glabra</i>	Aquifoliaceae	Inkberry (fruit)
<input type="checkbox"/>	<i>Ilex verticillata</i>	Aquifoliaceae	Winterberry (fruit)
<input type="checkbox"/>	<i>Impatiens hawkeri</i>	Balsaminaceae	New Guinea Impatiens (flower)
<input type="checkbox"/>	<i>Jacobaea maritima</i>	Asteraceae (Senecioneae tribe)	Dusty Miller (leaf underside white)
<input type="checkbox"/>	<i>Lagerstroemia indica</i>	Lythraceae	Crape Myrtle (fruit)
<input type="checkbox"/>	<i>Lantana horrida</i>	Verbenaceae	Texas Lantana (flower)
<input type="checkbox"/>	<i>Lantana x hybrida</i>	Verbenaceae	New Gold Lantana (flower)
<input type="checkbox"/>	<i>Liquidambar styraciflua</i>	Altingiaceae	Sweetgum (fruit)
<input type="checkbox"/>	<i>Liriope muscari</i>	Asparagaceae	Lilyturf (flower)
<input type="checkbox"/>	<i>Lonicera sempervirens</i>	Caprifoliaceae	Trumpet Honeysuckle (flower, fruit)
<input type="checkbox"/>	<i>Malus</i>	Rosaceae	Donald Wyman Crabapple (flwr,fruit)
<input type="checkbox"/>	<i>Melampodium leucanthum</i>	Asteraceae (Millerieae tribe)	Blackfoot Daisy (flower)
<input type="checkbox"/>	<i>Melinis repens</i>	Poaceae	Natal Grass (seedhead)
<input type="checkbox"/>	<i>Metasequoia glyptostroboides</i>	Cupressaceae	Dawn Redwood (cone)

<input type="checkbox"/>	<i>Nicotiana</i>	Solanaceae	Tobacco (flower)
<input type="checkbox"/>	<i>Parthenium integrifolium</i>	Asteraceae (Heliantheae tribe)	Wild Quinine (flower, fruit)
<input type="checkbox"/>	<i>Pentas lanceolata</i>	Rubiaceae	Egyptian Starflowers (flower)
<input type="checkbox"/>	<i>Petunia x atkinsiana</i>	Solanaceae	Garden Petunia (flower) 3 kinds!
<input type="checkbox"/>	<i>Plectranthus verticillatus</i>	Lamiaceae	Swedish Ivy (flower)
<input type="checkbox"/>	<i>Pycnanthemum muticum</i>	Lamiaceae	Blunt Mountain Mint (fruit)
<input type="checkbox"/>	<i>Ricinus communis</i>	Euphorbiaceae	Castor Bean (flower, fruit)
<input type="checkbox"/>	<i>Rosa rugosa</i>	Rosaceae	Rugosa Rose (flower & fruit)
<input type="checkbox"/>	<i>Ruellia simplex</i>	Acanthaceae	Mexican Petunia (flower)
<input type="checkbox"/>	<i>Salvia elegans</i>	Lamiaceae	Pineapple Sage (flower)
<input type="checkbox"/>	<i>Salvia patens</i>	Lamiaceae	Gentian Sage (flower)
<input type="checkbox"/>	<i>Salvia splendens</i>	Lamiaceae	Scarlet Sage (flower)
<input type="checkbox"/>	<i>Scutellaria incana</i>	Lamiaceae	Downy Skullcap (flower, fruit)
<input type="checkbox"/>	<i>Solidago altissima</i>	Asteraceae (Astereae tribe)	Tall Goldenrod (flower)
<input type="checkbox"/>	<i>Sonchus asper</i>	Asteraceae (Cichorieae tribe)	Spiny Sowthistle (flower, fruit)
<input type="checkbox"/>	<i>Spigelia marilandica</i>	Loganiaceae	Indian Pink (flower)
<input type="checkbox"/>	<i>Sporobolus heterolepis</i>	Poaceae	Prairie Dropseed (fruit)
<input type="checkbox"/>	<i>Symphyotrichum novi-angliae</i>	Asteraceae (Astereae tribe)	New England Aster (flower)
<input type="checkbox"/>	<i>Symphyotrichum oblongifolium</i>	Asteraceae (Astereae tribe)	Aromatic Aster (flower)
<input type="checkbox"/>	<i>Symphyotrichum oolentangiense</i>	Asteraceae (Astereae tribe)	Sky Blue Aster (flower)
<input type="checkbox"/>	<i>Tagetes erecta</i>	Asteraceae (Tageteae tribe)	Mexican Marigold (flower)
<input type="checkbox"/>	<i>Taxodium distichum</i>	Cupressaceae	Bald Cypress (cone)
<input type="checkbox"/>	<i>Thunbergia alata</i>	Acanthaceae	Blackeyed Susan Vine (flower)
<input type="checkbox"/>	<i>Tilia cordata</i>	Malvaceae	Littleleaf Linden (fruit)
<input type="checkbox"/>	<i>Tithonia rotundifolia</i>	Asteraceae (Heliantheae tribe)	Mexican Sunflower (flower)
<input type="checkbox"/>	<i>Verbena bonariensis</i>	Verbenaceae	Purpletop Verbena (flower)
<input type="checkbox"/>	<i>Zinnia elegans</i>	Asteraceae (Heliantheae tribe)	Zinnia (flower - 2 kinds!)

Checklist Prepared 10-13-23
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