

Class: Southern Mesic Maple-Basswood Forest MHs39

SOUTHERN MESIC MAPLE-BASSWOOD FOREST										
Genus	Species		Variety or Subspecies	Species Author	Variety or Subspecies Author	Common Name	² Rarity Status	³ Freq	⁴ Abund	⁵ Index
Canopy Trees (>10 m)										
<i>Acer</i>	<i>saccharum</i>			Marsh.		Sugar maple		100	59	5900
<i>Tilia</i>	<i>americana</i>			L.		Basswood		71	21	1491
<i>Quercus</i>	<i>rubra</i>			L.		Northern red oak		53	14	742
<i>Ulmus</i>	<i>rubra</i>			Muhl.		Slippery elm		39	8	312
<i>Ulmus</i>	<i>americana</i>			L.		American elm		21	12	252
<i>Ostrya</i>	<i>virginiana</i>			(Mill.) K. Koch		Ironwood		16	6	96
<i>Fraxinus</i>	<i>nigra</i>			Marsh.		Black ash		18	4	72
<i>Carya</i>	<i>cordiformis</i>			(Wang.) K. Koch		Bitternut hickory		13	4	52
<i>Pinus</i>	<i>strobus</i>			L.		White pine		3	15	45
<i>Quercus</i>	<i>macrocarpa</i>			Michx.		Bur oak		8	2	16
<i>Celtis</i>	<i>occidentalis</i>			L.		Hackberry		5	3	15
<i>Fraxinus</i>	<i>pennsylvanica</i>			Marsh.		Green ash		11	2	22
<i>Quercus</i>	<i>alba</i>			L.		White oak		3	3	9
<i>Acer</i>	<i>negundo</i>			L.		Box elder		3	3	9
<i>Prunus</i>	<i>serotina</i>			Ehrh.		Black cherry		3	3	9
<i>Juglans</i>	<i>nigra</i>			L.		Black walnut		3	1	3
Understory Trees										
<i>Acer</i>	<i>saccharum</i>			Marsh.		Sugar maple		100	50	5000
<i>Ostrya</i>	<i>virginiana</i>			(Mill.) K. Koch		Ironwood		53	15	795
<i>Tilia</i>	<i>americana</i>			L.		Basswood		76	6	456
<i>Carya</i>	<i>cordiformis</i>			(Wang.) K. Koch		Bitternut hickory		84	5	420
<i>Ulmus</i>	<i>rubra</i>			Muhl.		Slippery elm		39	9	351
<i>Celtis</i>	<i>occidentalis</i>			L.		Hackberry		50	4	200
<i>Ulmus</i>	<i>americana</i>			L.		American elm		32	5	160
<i>Fraxinus</i>	<i>nigra</i>			Marsh.		Black ash		18	5	90
<i>Fraxinus</i>	<i>pennsylvanica</i>			Marsh.		Green ash		29	3	87
<i>Quercus</i>	<i>rubra</i>			L.		Northern red oak		42	2	84
<i>Carpinus</i>	<i>caroliniana</i>	ssp.	<i>virginiana</i>	Walt.	(Marsh.) Furlow	Blue beech		5	8	40
<i>Acer</i>	<i>negundo</i>			L.		Box elder		18	2	36

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<i>Quercus</i>	<i>macrocarpa</i>			Michx.	Bur oak		3	3	9
<i>Populus</i>	<i>tremuloides</i>			Michx.	Quaking aspen		3	3	9
Shrubs									
<i>Ribes</i>	<i>cynosbati</i>			L.	Prickly gooseberry		97	4	388
<i>Sambucus</i>	<i>racemosa</i>			L.	Red-berried Elder		53	6	318
<i>Prunus</i>	<i>virginiana</i>			L.	Chokecherry		53	3	159
<i>Zanthoxylum</i>	<i>americanum</i>			Mill.	Prickly ash		39	3	117
<i>Cornus</i>	<i>alternifolia</i>			L. f.	Pagoda dogwood		32	3	96
<i>Ribes</i>	<i>missouriense</i>			Nutt.	Missouri gooseberry		13	5	65
<i>Staphylea</i>	<i>trifolia</i>			L.	Bladdernut		8	7	56
<i>Dirca</i>	<i>palustris</i>			L.	Leatherwood		8	2	16
<i>Prunus</i>	<i>americana</i>			Marsh.	Wild plum		8	2	16
<i>Sambucus</i>	<i>canadensis</i>			L.	Common Elder		5	3	15
<i>Ribes</i>	<i>americanum</i>			Mill.	Wild black currant		3	3	9
<i>Viburnum</i>	<i>rafinesquianum</i>			Schultes	Downy arrow-wood		3	3	9
<i>Viburnum</i>	<i>lentago</i>			L.	Nannyberry		3	3	9
<i>Cornus</i>	<i>racemosa</i>			Lam.	Gray dogwood		3	1	3
Vines									
<i>Parthenocissus</i>	<i>spp.</i>				Virginia creeper		58	6	348
<i>Menispermum</i>	<i>canadense</i>			L.	Canada moonseed		32	4	128
<i>Vitis</i>	<i>riparia</i>			Michx.	Wild grape		13	3	39
<i>Smilax</i>	<i>hispida</i>			Torr.	Green-briar		13	3	39
<i>Celastrus</i>	<i>scandens</i>			L.	Climbing bittersweet		8	3	24
Forbs									
<i>Laportea</i>	<i>canadensis</i>			(L.) Wedd.	Wood-nettle		74	17	1258
<i>Hydrophyllum</i>	<i>virginianum</i>			L.	Virginia waterleaf		89	13	1157
<i>Erythronium</i>	<i>albidum</i>			Nutt.	White trout-lily		29	27	783
<i>Asarum</i>	<i>canadense</i>			L.	Wild ginger		42	16	672
<i>Osmorhiza</i>	<i>claytonii</i>			(Michx.) Clarke	Clayton's sweet cicely		71	7	497
<i>Galium</i>	<i>aparine</i>			L.	Cleavers		82	5	410
<i>Viola</i>	<i>cm4</i>				Violet		76	5	380
<i>Dicentra</i>	<i>cucullaria</i>			(L.) Bernh.	Dutchman's-breeches		50	7	350
<i>Sanguinaria</i>	<i>canadensis</i>			L.	Bloodroot		84	3	252
<i>Caulophyllum</i>	<i>thalictroides</i>			(L.) Michx.	Blue cohosh		63	4	252
<i>Thalictrum</i>	<i>dioicum</i>			L.	Early meadow-rue		63	4	252
<i>Anemone</i>	<i>acutiloba</i>			(D.C.)Lawson	Sharp-lobed hepatica		34	7	238

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<i>Uvularia</i>	<i>grandiflora</i>			Sm.		Yellow bellwort		79	3	237
<i>Cardamine</i>	<i>concatenata</i>			(Michx.) O. Schwarz		Cut-leaved toothwort		26	9	234
<i>Solidago</i>	<i>flexicaulis</i>			L.		Zig-zag goldenrod		55	4	220
<i>Circaea</i>	<i>lutetiana</i>	ssp.	<i>canadensis</i>	L.	(L.) Asch. & Magnus	Canada enchanter's nightshade		50	4	200
<i>Allium</i>	<i>tricoccum</i>			Ait.		Wild leek		66	3	198
<i>Smilacina</i>	<i>racemosa</i>			(L.) Desf.		Racemose false Solomon's-seal		58	3	174
<i>Phlox</i>	<i>divaricata</i>	ssp.	<i>laphamii</i>	L.	(Wood) Wherry	Blue phlox		42	4	168
<i>Anemone</i>	<i>quinquefolia</i>	var.	<i>bifolia</i>	L.	Farw.	Wood-anemone		55	3	165
<i>Arisaema</i>	<i>triphylllum</i>			(L.) Schott		Jack-in-the-pulpit		53	3	159
<i>Enemion</i>	<i>bitematum</i>			(Raf.)		False rue-anemone		8	19	152
<i>Phryma</i>	<i>leptostachya</i>			L.		Lopseed		42	3	126
<i>Cryptotaenia</i>	<i>canadensis</i>			(L.) DC.		Honewort		29	4	116
<i>Pilea</i>	<i>spp.</i>					Clearweed		3	38	114
<i>Anemone</i>	<i>americana</i>			(DC.)Hara		Round-lobed hepatica		3	38	114
<i>Impatiens</i>	<i>spp.</i>					Spotted touch-me-not		26	4	104
<i>Viola</i>	<i>cm1</i>					Violet		34	3	102
<i>Aplectrum</i>	<i>hyemale</i>			(Willd.) Torr.		Putty-root		32	3	96
<i>Polygonatum</i>	<i>biflorum</i>			(Walter) Elliott		Giant Solomon's-seal		29	3	87
<i>Trillium</i>	<i>grandiflorum</i>			(Michx.) Salisb.		Large-flowered trillium		11	7	77
<i>Ranunculus</i>	<i>abortivus</i>			L.		Kidney-leaf buttercup		37	2	74
<i>Polygonatum</i>	<i>pubescens</i>			(Willd.) Pursh		Hairy Solomon's-seal		24	3	72
<i>Smilax</i>	<i>cmx.</i>					Carrion-flower		32	2	64
<i>Geum</i>	<i>canadense</i>			Jacq.		White avens		32	2	64
<i>Galium</i>	<i>triflorum</i>			Michx.		Three-flowered bedstraw		21	3	63
<i>Trillium</i>	<i>cernuum</i>			L.		Nodding trillium		29	2	58
<i>Sanicula</i>	<i>gregaria</i>			Bickn.		Gregarious black snakeroot		16	3	48
<i>Geranium</i>	<i>maculatum</i>			L.		Wild geranium		8	6	48
<i>Amphicarpaea</i>	<i>bracteata</i>			(L.) Fern.		Hog-peanut		16	3	48
<i>Osmorhiza</i>	<i>longistylis</i>			(Torr.) DC.		Anise-root		8	6	48
<i>Trillium</i>	<i>flexipes</i>			Raf.		Droping trillium		16	3	48
<i>Mitella</i>	<i>diphylla</i>			L.		Two-leaved miterwort		11	4	44
<i>Actaea</i>	<i>rubra</i>			(Ait.) Willd.		Red baneberry		13	3	39
<i>Orchis</i>	<i>spectabilis</i>			L.		Showy orchis		13	3	39
<i>Sanicula</i>	<i>marilandica</i>			L.		Mariland black snakeroot		11	3	33

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<i>Claytonia</i>	<i>virginica</i>			L.		Virginia spring-beauty	8	4	32
<i>Aralia</i>	<i>nudicaulis</i>			L.		Wild sarsaparilla	8	4	32
<i>Aralia</i>	<i>racemosa</i>			L.		American spikenard	11	2	22
<i>Aster</i>	<i>cordifolius</i>			L.		Heart-leaved aster	11	2	22
<i>Prenanthes</i>	<i>alba</i>			L.		White rattlesnake-root	11	2	22
<i>Rudbeckia</i>	<i>laciniata</i>			L.		Goldenglow	8	2	16
<i>Ranunculus</i>	<i>hispidus</i>			Michx.		Hispid buttercup	5	3	15
<i>Cypripedium</i>	<i>calceolus</i>			L.		Yellow lady-slipper	5	3	15
<i>Galium</i>	<i>concinnum</i>			T. & G.		Elegant bedstraw	5	3	15
<i>Eupatorium</i>	<i>rugosum</i>			Houtt.		Common snakeroot	5	3	15
<i>Hackelia</i>	<i>spp.</i>					Stickseed	5	2	10
<i>Urtica</i>	<i>dioica</i>	ssp.	<i>gracilis</i>	L.	(Ait.) Selander	Stinging nettle	5	2	10
<i>Aquilegia</i>	<i>canadensis</i>			L.		Columbine	5	2	10
<i>Corallorhiza</i>	<i>spp.</i>					Coralroot	3	3	9
<i>Sicyos</i>	<i>angulatus</i>			L.		Bur-cucumber	3	3	9
<i>Helianthus</i>	<i>hirsutus</i>			Raf.		Woodland sunflower	3	3	9
<i>Sanicula</i>	<i>canadensis</i>			L.		Canadian black snakeroot	3	3	9
<i>Geum</i>	<i>aleppicum</i>	var.	<i>strictum</i>	Jacq.	(Ait.) Fern.	Yellow avens	3	3	9
<i>Maianthemum</i>	<i>canadense</i>			Desf.		Canada mayflower	3	3	9
<i>Allium</i>	<i>tricoccum</i>	var.	<i>burdickii</i>	Aiton	Hanes.	Burdick's leek	3	3	9
<i>Uvularia</i>	<i>sessilifolia</i>			L.		Pale bellwort	3	3	9
<i>Desmodium</i>	<i>glutinatum</i>			(Muhl. ex Willd.) Wood		Pointed-leaved tick-trefoil	3	3	9
<i>Campanula</i>	<i>americana</i>			L.		Tall bellflower	3	3	9
<i>Oxalis</i>	<i>cmx.</i>					Wood-sorrel	3	1	3
<i>Monotropa</i>	<i>uniflora</i>			L.		Indian pipe	3	1	3
Grasses, Rushes and Sedges									
<i>Carex</i>	<i>pedunculata</i>			Muhl. ex Willd.		Long-stalked sedge	37	6	222
<i>Carex</i>	<i>radiata</i>			(Wahlenb.) Small		Stellate sedge	34	4	136
<i>Carex</i>	<i>pennsylvanica</i>			Lam.		Pennsylvania sedge	29	4	116
<i>Carex</i>	<i>blanda</i>			Dewey		Charming sedge	32	3	96
<i>Carex</i>	<i>sprengelii</i>			Spreng.		Sprengel's sedge	11	4	44
<i>Carex</i>	<i>hirtifolia</i>			Mack.		Hairy-leaved sedge	13	3	39
<i>Carex</i>	<i>albursina</i>			Sheld.		White bear-sedge	13	3	39
<i>Elymus</i>	<i>hystrix</i>			L.		Bottlebrush grass	11	3	33

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<i>Brachyelytrum</i>	<i>erectum</i>			(Schreb.) Beauv.		Bearded shorthusk	8	3	24
<i>Oryzopsis</i>	<i>racemosa</i>			(Smith) Ricker		Black-fruited rice-grass	5	3	15
<i>Festuca</i>	<i>subverticillata</i>			(Pers.) E. Alexeev.		Nodding fescue	5	3	15
<i>Carex</i>	<i>amphibola</i>	var.	<i>turgida</i>	Steud.	Fern.	Ambiguous sedge	5	3	15
<i>Carex</i>	<i>intumescens</i>	var.	<i>fernaldii</i>	Rudge	Bailey	Bladder sedge	5	3	15
<i>Carex</i>	<i>peckii</i>			Howe		Peck's sedge	3	5	15
<i>Carex</i>	<i>deweyana</i>			Schwein.		Dewey's sedge	5	2	10
<i>Oryzopsis</i>	<i>asperifolia</i>			Michx.		Mountain rice-grass	3	3	9
<i>Carex</i>	<i>gracilescens</i>			Steudel.		Necklace-sedge	3	3	9
<i>Carex</i>	<i>gracillima</i>			Schwein.		Graceful sedge	3	3	9
<i>Carex</i>	<i>leptonervia</i>			Fern.		Fine-nerved sedge	3	3	9
<i>Carex</i>	<i>hitchcockiana</i>			Dewey		Hitchcock's sedge	3	3	9
<i>Elymus</i>	<i>villosus</i>			Muhl.		Downy wild rye	3	1	3
Ferns and Fern Allies									
<i>Botrychium</i>	<i>virginianum</i>			(L.) Sw.		Rattlesnakefern	53	2	106
<i>Athyrium</i>	<i>filix-femina</i>	var.	<i>angustum</i>	(L.) Roth		Lady-fern	45	3	135
<i>Adiantum</i>	<i>pedatum</i>			L.		Maidenhair fern	26	3	78
<i>Matteuccia</i>	<i>struthiopteris</i>	var.	<i>pensylvanica</i>	(L.) Todaro	(Willd.) Morton	Ostrich-fern	3	3	9
<i>Botrychium</i>	<i>multifidum</i>			(S. G. Gmel.) Rupr.		Leathery grapefern	3	3	9
<i>Cystopteris</i>	<i>bulbifera</i>			(L.) Bernh.		Bulblet bladder-fern	3	3	9
<i>Cystopteris</i>	<i>fragilis</i>			(L.) Bernh.		Fragile bladder-fern	3	1	3
<i>Cystopteris</i>	<i>tenuis</i>			(Michx.) Desv.		Macey's brittle fern	3	1	3

Exotic Invasive Species - Do Not Plant									
<i>Rhamnus</i>	<i>cathartica</i>			L.		Common buckthorn	24	3	72
<i>Taraxacum</i>	<i>spp.</i>					Common dandelion	16	2	32
<i>Lonicera</i>	<i>tatarica</i>			L.		Tartarian honeysuckle	3	3	9
<i>Poa</i>	<i>pratensis</i>			L.		Kentucky bluegrass	3	3	9
<i>Arctium</i>	<i>minus</i>			(Hill) Bernh.		Common burdock	3	1	3
<i>Leonurus</i>	<i>cardiaca</i>			L.		Lion's ear	3	1	3

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State-Listed Rare Species - Do Not Plant Without a Permit										
<i>Erythronium</i>	<i>propullans</i>			Gray		Minnesota dwarf trout lily	E	3	15	45
<i>Juglans</i>	<i>cinerea</i>			L.		Butternut	SC	13	2	26
<i>Panax</i>	<i>quinquefolium</i>			L.		American ginseng	SC	13	2	26
<i>Trillium</i>	<i>nivale</i>			Riddell		Snow trillium	SC	3	3	9

¹See the report *Species Lists for Terrestrial and Palustrine Native Plant Communities in East-central Minnesota* for instructions for using these species lists

²Rarity Status: State-listed rare species. E - Endangered, T - Threatened, SC - Special Concern

³Frequency: Number of releve plots in which species occurs divided by total number of releve plots, multiplied by 100

⁴Abundance: Average percent cover of species within the community. It is most appropriate to interpret each value as a cover class similar to those used for original data collection (see text of report for more details)

⁵Index of Commonness: Frequency multiplied by Abundance