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## The Woody Plants of Southeastern Iowa

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## THE WOODY PLANTS OF SOUTHEASTERN IOWA

MALCOLM McDONALD

This is a preliminary list of the species of trees and shrubs of southeastern Iowa, consisting of the counties of Davis, Des Moines, Henry, Jefferson, Keokuk, Lee, Louisa, Van Buren, Wapello, and Washington. The limits of the region were chosen for convenience in collecting and coincide fairly well with the forest belt of southeastern Iowa. The work at Parsons College as originally planned was to include all the above named counties, but extensive collecting has been done only in Jefferson and Van Buren Counties.

This list is a compilation based largely upon the collection in the Parsons College herbarium; the collection of Henry County plants in the Iowa Wesleyan College herbarium; and the collections in the Iowa State College herbarium made by T. J. Fitzpatrick some years ago, and by Jess L. Fults in Lee County in 1933. If time had permitted a complete investigation of the herbariums at the Iowa State College and the State University it is probable that additional species could have been added.

This list contains 159 species, seven varieties, and two hybrids, 168 in all, of which 89 are trees and 79 are shrubs. Ten trees and eight shrubs were introduced, escaped from cultivation, and became naturalized. Four of the introduced species were native to the United States; the other fourteen were exotics. The Parsons College herbarium contains 123 of the species here listed.

In this region the oak-hickory forest predominates, this list containing thirteen oaks and six hickories. The Rosaceae, with 29 species, and the Salicaceae, with 15, are the other families most largely represented.

Identification is based on the seventh edition of Gray's "Manual," Britton and Brown's "Illustrated Flora," Sargent's "Manual of the Trees of North America," and Rehder's "Manual of Cultivated Trees and Shrubs." Nomenclature follows that given by Palmer and Steyermark's "Catalogue of Flowering Plants of Missouri." Where the generic or specific name differs from that given by Gray, Gray's nomenclature is included in parentheses. For each species the counties in which it is known to occur are given, followed by the numbers referring to the herbarium or list in which it is reported.

Table I—Woody Plants of Southeastern Iowa

Technical and Common Name	Distribution by Counties											References, Notes
	D	Dm	H	J	K	L	Lo	V	W	Ws		
<i>Juniperus virginiana</i> L. Red Cedar			x	x		x		x				(1, 2, 4, 5, 7)
<i>Pinus sylvestris</i> L. Scotch Pine		x										(15). Introduced. Reported seeding in spontaneously
<i>Smilax hispida</i> Muhl. Green Brier			x			x						(2, 6)
<i>Smilax rotundifolia</i> L. Green Brier				x		x		x				(1, 4, 5, 6)
<i>Salix alba</i> L. var. <i>vitellina</i> (L.) Koch White Willow				x								(1). Introduced. Occasionally escaping
<i>Salix amygdaloides</i> Anders. Peach-leaved Willow				x	x	x	x	x				(1, 4, 5, 10, 11)
<i>Salix cordata</i> Muhl. Heart-leaved Willow			x				x					(2, 11)
<i>Salix discolor</i> Muhl. Pussy Willow			x	x		x						(2, 3, 5, 11)
<i>Salix humilis</i> Marsh. Prairie Willow			x	x								(1, 2, 11)
<i>Salix interior</i> Rowlee. ( <i>S. longifolia</i> Muhl.) Sandbar Willow			x	x		x		x				(1, 2, 5, 6, 11)
<i>Salix lucida</i> Muhl. Shining Willow				x				x				(1, 6)
<i>Salix missouriensis</i> Bebb. Missouri Willow			x	x								(1)
<i>Salix nigra</i> Marsh. Black Willow			x	x		x	x	x				(1, 2, 3, 5, 11)
<i>Salix purpurea</i> L. Purple Osier			x									(2). Introduced. Reported escaped at Mt. Pleasant
<i>Salix sericea</i> Marsh. Silky Willow							x					(11)
<i>Populus alba</i> L. White Poplar				x		x		x	x			Freely spreading. Introduced. (3, 5)
<i>Populus deltoides</i> Marsh. Cottonwood			x	x	x	x		x	x	x		(1, 2, 3, 4, 5)
<i>Populus grandidentata</i> Michx. Large-toothed Aspen				x								(1)
<i>Populus tremuloides</i> Michx. Quaking Aspen			x	x	x	x		x		x		(1, 2, 3, 4, 5)
<i>Juglans cinerea</i> L. Butternut		x	x	x		x	x	x		x		(1, 2, 3, 4, 5, 6, 8)
<i>Juglans nigra</i> L. Black Walnut		x	x	x		x		x				(1, 2, 3, 4, 5, 6, 7, 8)
<i>Carya cordiformis</i> (Wang.) K. Koch. Pignut Hickory	x		x	x		x	x	x	x	x		(1, 3, 4, 5, 6, 8)
<i>Carya laciniosa</i> (Mich. f.) Loud. Big Shell-bark Hickory			x	x			x	x				(1, 4, 6, 7, 8)

McDonald: The Woody Plants of Southeastern Iowa

<i>Carya ovalis</i> (Wang.) Sarg. ( <i>C. microcarpa</i> Nutt.) Small Pignut												(1) Collected by E. W. Graves
<i>Carya ovata</i> (Mill.) K. Koch. Shagbark Hickory	x	x	x	x	x	x		x	x	x		(1, 2, 3, 4, 5, 6, 7, 8)
<i>Carya Pecan</i> (Marsh) Engl. & Graebn. ( <i>C. illinoensis</i> (Wang.) K. Koch.) Pecan										x		(8)
<i>Carya tomentosa</i> Nutt. ( <i>C. alba</i> (L.) K. Koch.) Mockernut			x	x		x		x				(1, 2, 5, 6, 8)
<i>Corylus americana</i> Walt. Hazelnut		x	x	x		x		x	x	x		(1, 2, 4, 5, 7, 8)
<i>Ostrya virginiana</i> (Mill.) K. Koch. American Hop Hornbeam		x	x	x		x		x	x	x		(1, 2, 3, 4, 5, 7, 8)
<i>Carpinus caroliniana</i> Walt. Blue Beech		x	x	x		x		x	x			(1, 2, 5, 7, 8)
<i>Betula lenta</i> L. Cherry Birch						x						(14)
<i>Betula nigra</i> L. River Birch		x	x	x		x	x	x	x	x		(1, 2, 3, 4, 5, 8)
<i>Quercus alba</i> L. White Oak	x	x	x	x	x	x	x	x	x			(1, 2, 4, 5, 6, 7, 8). We may also have var. <i>latiloba</i> , seemingly inconstant
<i>Quercus bicolor</i> Willd. Swamp White Oak	x	x	x	x		x		x	x			(1, 2, 4, 5, 6, 8)
<i>Quercus borealis</i> Michx. Red Oak				x								(1) Infrequent. A form of this approaches <i>Q. Shumardii</i> Buckl.
<i>Quercus borealis</i> var. <i>maxima</i> Ashe ( <i>Q. rubra</i> L.) Red Oak	x	x	x	x		x	x	x	x			(1, 2, 4, 5, 6, 7, 8). The common red oak here.
<i>Quercus ellipsoidalis</i> E. J. Hill. Yellow Oak			x	x				x				(1, 6). Often confused with <i>Q. coccinea</i> Muench
<i>Quercus imbricaria</i> Michx. Shingle Oak	x	x	x	x	x	x		x	x	x		(1, 2, 3, 4, 5, 6, 7, 8)
<i>Quercus lyrata</i> Walt. Overcup Oak						x						(6)
<i>Quercus macrocarpa</i> Michx. Bur Oak	x	x	x	x		x	x	x	x	x		(1, 2, 3, 4, 5, 6, 7, 8, 10). The var. <i>olivaeformis</i> may occur in this region
<i>Quercus marilandica</i> Muench. Black Jack Oak				x		x		x				(1, 5, 6)
<i>Quercus Muhlenbergii</i> Engelm. Chestnut Oak		x	x	x		x		x				(1, 2, 5, 6, 7, 8)
<i>Quercus palustris</i> Muench. Pin Oak		x		x		x	x	x				(1, 4, 5, 6, 8)
<i>Quercus Primus</i> L. ( <i>Q. Michauxii</i> Nutt.) Basket Oak				x				x				(1, 2). These specimens may be <i>Q. Muhlenbergii</i>
<i>Quercus stellata</i> Wang. Post Oak			x			x		x				(1, 2, 5, 6)
<i>Quercus velutina</i> Lam. Black Oak	x	x	x	x		x	x	x	x			(1, 2, 4, 5, 6)

Table I—Woody Plants of Southeastern Iowa— (Continued)

Technical and Common Name	Distribution by Counties										References, Notes
	D	Dm	H	J	K	L	Lo	V	W	Ws	
X <i>Quercus Bushii</i> Sarg.				x		x					(1, 5, 6). Hybrid between <i>Q. marilandica</i> and <i>Q. velutina</i>
X <i>Quercus Leana</i> Nutt.				x							(1) Hybrid between <i>Q. imbricaria</i> and <i>Q. velutina</i>
<i>Ulmus americana</i> L. American Elm	x		x	x	x	x	x	x	x	x	(1, 2, 3, 4, 5, 7, 12)
<i>Ulmus fulva</i> Michx. Red Elm			x	x	x	x		x	x		(1, 2, 3, 4, 5, 12)
<i>Ulmus Thomasi</i> Sarg. ( <i>U. racemosa</i> Thomas.) Rock Elm						x					(5)
<i>Celtis occidentalis</i> L. Hackberry			x	x		x		x			(1, 2, 3, 4, 5)
<i>Celtis occidentalis</i> var. <i>crassifolia</i> (Lam.) Gray						x					(5)
<i>Maclura pomifera</i> (Raf.) Schneid. Osage Orange			x	x		x		x			(1, 2, 3, 4, 5). Introduced. Commonly escaping
<i>Morus alba</i> L. White Mulberry			x			x					(2, 5). Introduced. Occasionally escaping
<i>Morus rubra</i> L. Red Mulberry	x		x	x		x		x			(1, 2, 4, 5, 7)
<i>Clematis Pitcheri</i> T. & G. Leather Flower			x	x				x			(1, 2, 5)
<i>Clematis Viorna</i> L. Leather Flower				x							(1, 4)
<i>Clematis virginiana</i> L. Virginia Clematis	x		x	x				x			(1, 2, 7, 9)
<i>Asimina triloba</i> Dunal. Common Papaw			x	x		x		x			(2, 5, 9)
<i>Menispermum canadense</i> L. Moonseed			x	x		x		x			(1, 2, 3, 4, 5)
<i>Berberis vulgaris</i> L. Common Barberry			x	x		x					(2, 4, 5). Introduced. Occasional escape
<i>Ribes americanum</i> Mill. ( <i>R. floridum</i> L'Her.) Wild Black Currant			x	x							(1, 2, 4, 12)
<i>Ribes Cynosbati</i> L. Dogberry			x					x			(1, 2)
<i>Ribes missouriensis</i> Nutt. ( <i>R. gracile</i> Michx.) Missouri Gooseberry			x	x		x		x			(1, 2, 4, 5, 12)
<i>Ribes odoratum</i> Wendl. ( <i>R. aureum</i> Pursh.)			x								(2). Introduced. Occasionally escaping
<i>Platanus occidentalis</i> L. Sycamore	x		x	x		x		x		x	(1, 2, 4, 5, 7)

McDonald: The Woody Plants of Southeastern Iowa

<i>Physocarpus opulifolius</i> (L.) Maxim. var. <i>intermedius</i> (Rydb.) Robinson Ninebark	x	x	x							(1, 2, 4)
<i>Spiraea alba</i> Du Roi. ( <i>S. salicifolia</i> L.) Meadow Sweet			x	x		x				(1, 2, 4, 5, 7, 12)
<i>Malus ioensis</i> (Wood) Bailey. ( <i>Pyrus ioensis</i> (Wood) Bailey. Wild Crab	x	x	x		x		x			(1, 2, 3, 4, 5)
<i>Malus pumila</i> Mill. ( <i>Pyrus Malus</i> L.) Common Apple			x	x						(1, 2). Introduced. Occasionally escaping
<i>Amelanchier canadensis</i> Med. ( <i>A. canadensis</i> var. <i>Botryapium</i> (L. f.) T. & G.) Service Berry			x	x			x	x		(1, 2, 3, 4)
<i>Crataegus crus-galli</i> L. Cockspur Thorn			x	x		x		x		(1, 2, 5, 7, 9)
<i>Crataegus coccinioides</i> Ashe Hawthorn				x				x		(1, 3, 4)
<i>Crataegus intricata</i> Lge. ( <i>C. coccinea</i> L.) Red Haw			x					x		(2, 7)
<i>Crataegus calpodendron</i> (Ehrh.) Medic. ( <i>C. Chapmanii</i> (Beadle) Ashe var. <i>Plukenetii</i> Eggleston). Hawthorn				x				x		(1, 6)
<i>Crataegus Margaretta</i> Ashe. Hawthorn			x	x		x		x		(1, 3, 4, 5)
<i>Crataegus mollis</i> (T. & G.) Scheele. Red-fruited Thorn				x		x			x	(1, 3, 4, 5)
<i>Crataegus Phaenopyrum</i> (L. f.) Medic. Washington Thorn					x			x		One large tree, with several seedlings, reported on G. F. Miller farm near Bonaparte. (4)
<i>Crataegus punctata</i> Jacq. Hawthorn	x									(4)
<i>Rubus Baileyanus</i> Britt. ( <i>R. villosus</i> Ait. var. <i>humifusus</i> T. & G.) Dewberry						x				(5)
<i>Rubus flagellaris</i> Willd. ( <i>R. villosus</i> Ait.) Dewberry			x	x		x		x		(1, 2, 3, 4, 5, 7)
<i>Rubus frondosus</i> Bigel. High-bush Blackberry				x				x		(1, 3, 4)
<i>Rubus occidentalis</i> L. Black Raspberry			x	x				x		(2, 3, 4, 7)
<i>Rosa blanda</i> Ait. Meadow Rose			x	x				x		(1, 2, 3, 4)
<i>Rosa carolina</i> L. ( <i>R. humilis</i> Marsh.) Pasture Rose			x	x				x		(1, 4, 12)

1937]

WOODY PLANTS OF SOUTHEASTERN IOWA

69

Table I—Woody Plants of Southeastern Iowa— (Continued)

Technical and Common Name	Distribution by Counties										References, Notes
	D	Dm	H	J	K	L	Lo	V	W	Ws	
<i>Rosa Eglanteria</i> L. ( <i>R. rubiginosa</i> L.) Sweetbrier								x			(12). Introduced. Occasionally escaping (4, 5)
<i>Rosa setigera</i> Michx. Prairie Rose				x		x					
<i>Rosa suffulta</i> Greene ( <i>R. pratincola</i> Greene). Arkansas Rose		x		x	x	x		x	x		(1, 3, 4, 13) (2, 5)
<i>Rosa virginiana</i> Mill. Virginia Rose			x			x					(5)
<i>Rosa Woodsii</i> Lindl. Wild Rose						x					(1, 2, 3, 4, 5, 7, 12)
<i>Prunus americana</i> Marsh. Wild Plum			x	x		x		x		x	(2, 4)
<i>Prunus pennsylvanica</i> L. f. Wild Red Cherry			x	x							(2, 3, 5). Introduced. Occasionally escaping
<i>Prunus Persica</i> Batsch. Peach			x	x		x					(1, 2, 3, 4, 5) (1, 4, 12)
<i>Prunus serotina</i> Ehrh. Wild Black Cherry			x	x		x		x			
<i>Prunus virginiana</i> L. Choke Cherry		x	x	x		x		x			
<i>Gymnocladus dioica</i> (L.) Koch. Kentucky Coffee Tree			x	x		x		x	x		(1, 2, 3, 4) (1, 2, 3, 4, 5, 7)
<i>Gleditsia triacanthos</i> L. Honey Locust			x	x		x		x	x		
<i>Gleditsia triacanthos</i> var. <i>inermis</i> Pursh.				x				x			(3)
<i>Cercis canadensis</i> L. Redbud		x	x	x		x		x			(1, 2, 4, 5, 7)
<i>Robinia Pseudo-Acacia</i> L. Black Locust		x	x	x		x		x	x		(1, 2, 3, 4, 5, 7). Introduced. Now freely spreading
<i>Amorpha canescens</i> Nutt. Lead Plant			x	x		x		x	x		(1, 2, 4, 5, 7)
<i>Amorpha fruticosa</i> L. False Indigo			x	x		x		x	x		(1, 2, 3, 4, 5, 7)
<i>Amorpha fruticosa</i> var. <i>angustifolia</i> Pursh.			x	x							(1, 2)
<i>Amorpha microphylla</i> Pursh. Fragrant False Indigo					x						(4)
<i>Zanthoxylum americanum</i> Mill. Northern Prickly Ash			x	x		x		x		x	(1, 2, 3, 4, 5)
<i>Ptelea trifoliata</i> L. Hop Tree			x			x		x			(1, 2, 5)
<i>Ailanthus altissima</i> (Mill.) Swingle. ( <i>A. glandulosa</i> Desf.) Tree of Heaven				x		x				x	(3, 5). Introduced. Occasionally escaping in cities

McDonald: The Woody Plants of Southeastern Iowa

<i>Rhus canadensis</i> Marsh. Fragrant Sumach			x	x		x		x	x	(1, 2, 4, 5, 7)
<i>Rhus copallina</i> L. Dwarf Sumach						x		x		(1, 14)
<i>Rhus glabra</i> L. Smooth Sumach		x	x	x	x	x		x	x	(1, 2, 3, 4, 5, 7)
<i>Rhus Toxicodendron</i> L. Poison Ivy	x	x	x	x	x			x	x	(1, 2, 3, 4, 7)
<i>Rhus Vernix</i> L. Poison Sumach			x							(2) One leaf in Ia. Wes. herbarium collected 40 years ago by Mills
<i>Evonymus atropurpurea</i> Jacq. Wahoo			x	x		x		x		(1, 2, 4, 5, 7)
<i>Celastrus scandens</i> L. Climbing Bittersweet			x	x		x		x		(2, 3, 4, 5)
<i>Staphylea trifolia</i> L. American Bladdernut			x	x		x		x		(1, 2, 4, 5)
<i>Acer Negundo</i> L. Box Elder			x	x	x	x		x	x	(1, 2, 3, 4, 5, 7, 12)
<i>Acer nigrum</i> Michx. ( <i>A. saccharum</i> var. <i>nigrum</i> ) (Mich. f.) Britton. Black Maple			x	x		x		x		(1, 5)
<i>Acer rubrum</i> L. Red Maple			x	x						(4, 12)
<i>Acer saccharinum</i> L. Silver Maple		x	x	x	x			x	x	(1, 2, 3, 4, 5, 7)
<i>Acer saccharum</i> Marsh. Sugar Maple		x		x	x					(1, 4, 5, 7)
<i>Aesculus glabra</i> Willd. Ohio Buckeye			x	x		x			x	(1, 2, 3, 4, 5, 7)
<i>Aesculus glabra</i> var. <i>Sargentii</i> Rehd. ( <i>A. glabra</i> var. <i>arguta</i> (Buckley) Robinson)						x		x		(4, 5). Many gradations may be found between this and <i>A. glabra</i>
<i>Aesculus octandra</i> Marsh. Sweet Buckeye			x	x						(1, 12)
<i>Rhamnus lanceolata</i> Pursh. Buckthorn		x	x	x	x			x		(1, 2, 3, 4, 5, 7)
<i>Ceanothus americanus</i> L. New Jersey Tea		x	x	x	x			x		(1, 2, 4, 5, 7)
<i>Parthenocissus quinquefolia</i> Planche ( <i>Psedera quinquefolia</i> (L.) Greene.) Virginia Creeper			x	x		x			x	(1, 2, 3, 4, 5, 7)
<i>Parthenocissus quinquefolia</i> var. <i>hirsuta</i> (Donn) Planche. ( <i>Psedera quinquefolia</i> var. <i>hirsuta</i> (Donn) Rehd.)					x					(1)
<i>Parthenocissus vitacea</i> (Knerr.) Hitchc. ( <i>Psedera vitacea</i> (Knerr.) Greene)				x						(1)
<i>Vitis cinerea</i> Engelm. Sweet Winter Grape				x		x				(1, 3)
<i>Vitis cordifolia</i> Michx. Chicken Grape						x				(5)
<i>Vitis vulpina</i> L. Frost Grape			x	x	x			x	x	(1, 2, 3, 5)
<i>Tilia glabra</i> Vent. ( <i>T. americana</i> L.) Basswood		x	x	x	x			x	x	(1, 2, 3, 4, 5, 7)
<i>Hypericum cistifolium</i> Lam. St. John's-wort			x	x		x		x		(1, 2, 4, 5)
<i>Hypericum prolificum</i> L. Shrubby St. John's-wort		x	x	x		x		x		(1, 2, 4, 5, 7)

1937]

WOODY PLANTS OF SOUTHEASTERN IOWA

71



Table I—Woody Plants of Southeastern Iowa— (Continued)

	D	Dm	H	J	K	L	Lo	V	W	Ws	
<i>Dirca palustris</i> L. Leatherwood			x			x					(2, 5)
<i>Cornus alternifolia</i> L. Alternate-leaved Dogwood			x	x		x					(1, 5)
<i>Cornus Amomum</i> Mill. Silky Cornel						x					(5)
<i>Cornus asperifolia</i> Michx. Rough-leaved Dogwood			x	x		x		x			(1, 2, 3, 5)
<i>Cornus obliqua</i> Raf. ( <i>C. Perpusi</i> Koehne)				x							(1). Easily confused with <i>C. Amomum</i>
<i>Cornus racemosa</i> Lam. ( <i>C. paniculata</i> L'Her.) Panicled Dogwood		x	x	x		x		x	x		(1, 2, 4, 5, 7)
<i>Cornus rugosa</i> Lam. ( <i>C. circinata</i> L'Her.) Round- leaved Dogwood				x		x					(1, 5)
<i>Cornus stolonifera</i> Michx. Red-osier Dogwood			x								(2)
<i>Diospyros virginiana</i> L. Persimmon								x			(9)
<i>Fraxinus americana</i> L. White Ash			x	x	x	x		x			(1, 2, 3, 4, 5)
<i>Fraxinus nigra</i> Marsh. Black Ash						x					(5)
<i>Fraxinus pennsylvanica</i> Marsh. Red Ash				x		x					(1, 5)
<i>Fraxinus pennsylvanica</i> var. <i>lanceolata</i> (Borkh.) Sarg. Green Ash			x	x				x			(1, 2, 3, 5)
<i>Fraxinus quadrangulata</i> Michx. Blue Ash						x					(1)
<i>Solanum Dulcamara</i> L. Climbing Nightshade			x	x		x					(1, 2, 4, 5). Introduced. Occasionally escaping
<i>Lycium halimifolium</i> Mill. Common Matrimony Vine				x	x						Introduced. Occasionally escaping. (2, 3, 4)
<i>Campsis radicans</i> (L.) Seem. ( <i>Tecoma radicans</i> (L.) Juss.). Trumpet Creeper			x	x	x	x		x			(1, 2, 3, 4, 5). Native in Lee County. Probably introduced elsewhere
<i>Catalpa speciosa</i> Warder. Catalpa		x	x	x		x		x			(1, 2, 3, 4, 5, 7)
<i>Cephalanthus occidentalis</i> L. Buttonbush			x	x		x					(1, 2, 4, 5)
<i>Lonicera Caprifolium</i> L. Perfoliate Honeysuckle			x								Introduced. Reported escaped. (2)
<i>Lonicera dioica</i> L. Glaucous Honeysuckle						x					(5)
<i>Lonicera dioica</i> var. <i>glaucescens</i> (Rydb.) Butters. ( <i>L. glaucescens</i> Rydb.)			x								(2)
<i>Lonicera flava</i> Sims. Yellow Honeysuckle								x			(9)

McDonald: The Woody Plants of Southeastern Iowa

<i>Lonicera prolifera</i> Rehd. ( <i>L. Sullivantii</i> Gray)			x	x					x		(1, 2, 3, 4)
<i>Lonicera sempervirens</i> L. Trumpet Honeysuckle									x		(9) Introduced. Reported escaped
<i>Symphoricarpos albus</i> Blake ( <i>S. racemosus</i> Michx.) Snowberry											(5)
<i>Symphoricarpos orbiculatus</i> Moench. Buck Brush			x	x					x	x	(1, 2, 3, 4, 5, 7)
<i>Viburnum affine</i> Bush.				x					x		(1, 6). Easily confused with <i>V. pubescens</i>
<i>Viburnum Lentago</i> L. Nannyberry			x	x					x		(1, 2, 3, 4, 5, 12)
<i>Viburnum molle</i> Michx. Arrow-wood			x	x							(1, 3)
<i>Viburnum prunifolium</i> L. Black Haw				x							(1, 4, 5)
<i>Viburnum pubescens</i> Pursh. Arrow-wood			x	x							(2, 4). These specimens may be <i>V. affine</i>
<i>Sambucus canadensis</i> L. Common Elder	x	x	x	x	x	x			x	x	(1, 2, 4, 5, 7)

1937]

WOODY PLANTS OF SOUTHEASTERN IOWA

73

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