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# The Flora of Three State Parks In Eastern Iowa<sup>1</sup>

TOM S. COOPERRIDER<sup>2</sup>

*Abstract.* A list is presented of the vascular plant species, both native and naturalized, growing in Wapsipinicon, Maquoketa Caves and Bellevue state parks, Iowa. The list is based on collections and observations made from 1955 to 1959.

Three of Iowa's 78 state parks lie within the area studied floristically by the author from 1955 to 1959 (Cooperrider, 1958). This paper presents a list of those species of vascular plants collected or observed by the author in Wapsipinicon, Maquoketa Caves, and Bellevue state parks. The author wishes to thank Mr. William Maish, formerly at Bellevue, and currently State Conservation Officer at Wapsipinicon State Park, for pointing out locations of many of the rare plants in these two parks.

Wapsipinicon State Park is a tract of 248 acres immediately south of Anamosa in Jones County. The northern boundary of the park is formed by the Wapsipinicon River. The steep, limestone cliffs bordering the floodplain of this river (Figure 1) give the park its most distinctive feature. These moist, shaded, north-facing rocks and rocky slopes support a community of plants that includes *Cryptogramma stelleri*, slender cliff brake; *Taxus canadensis*, American yew; *Aralia racemosa*, spikenard (Figure 4); *Dicentra canadensis*, squirrel-corn; *Sullivantia renifolia*; and *Staphylea trifolia*, bladder-nut. A few species of hydrophytes grow along the muddy bank of the river. Most of the park, however, is a rolling, upland woods. A considerable amount of the upland area has been planted with conifers, principally *Pinus strobus*, white pine.

Maquoketa Caves State Park is an area of 111 acres, seven miles northwest of Maquoketa in Jackson County. The "caves" are a series of three natural bridges (Figure 2) formed by a stream working through the limestone formations of the area. Upstream from the first of these bridges, a rich, wooded hillside sloping gently down to the stream valley has a flora that includes *Cypripedium calceolus*, yellow lady-slipper; *Lithospermum latifolium*, gromwell; and *Hydrastis canadensis*, golden seal. The stream emerges from the last and largest of the three bridges into an impressive, deep

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ravine bounded by steep, limestone cliffs 125 feet in height. The same community of species found along the moist, rocky cliffs at Wapsipinicon Park is found here also, augmented by such rarities as *Carex plantaginea*, sedge; and *Dirca palustris*, leatherwood (Figure 5).

Bellevue State Park, also in Jackson County, is 145 acres in size, and is located on the crest of a bluff overlooking the Mississippi River and the village of Bellevue. The bluff (Figure 3) is approxi-



Figure 1. Limestone bluff in Wapsipinicon Park. The white flowers are false rue-anemone.

mately 150 feet above the river. Most of the park is a dry, upland woods with occasional rock exposures on which *Cheilanthes feci*, slender lip-fern; and *Arabis lyrata*, rock cress, grow. Near the crest are found such northerly species as *Betula papyrifera*, canoe birch (Figure 6); and *Sambucus pubens*, red-berried elder, both near the southernmost points of their range at this longitude. A few ravines leading down from the bluff contain several species of moist-woodland plants, including *Thelypteris hexagonoptera*, broad beech-fern.

A few species of prairie plants grow in open areas at the crests



Figure 2. The smallest of the natural bridges in Maquoketa Caves Park.

of bluffs in all three parks. In each of the parks, also, there is a weed flora found in grassy lawns, picnic areas, and along roadsides.

In the list below, the plants are presented in this order: pteridophytes, gymnosperms, monocotyledons, and dicotyledons. In the last two groups, the families, genera, and species are listed in alphabetical order. The scientific name is followed by the common name. The distribution of each species is indicated by the letters that precede the scientific name: W for Wapsipinicon, M for Maquoketa, and B for Bellevue.

In state parks, it is not always possible to know which plants are native and which naturalized or planted. Those that are believed to be naturalized or escaped from plantings are preceded by an asterisk. Plants known definitely to be planted are not included in this list.

## I. PTERIDOPHYTES

### EQUISETACEAE (Horsetail Family)

- WM *Equisetum arvense* L. Common Horsetail.
- WM *Equisetum hiemale* L. Scouring Rush.
- W *Equisetum pratense* Ehrh. Meadow Horsetail.

### OPHIOGLOSSACEAE (Adder's-tongue Family)

- WMB *Botrychium virginianum* (L.) Sw. Rattlesnake Fern.

OSMUNDACEAE (Cinnamon Fern Family)

WMB *Osmunda claytoniana* L. Interrupted Fern.

ASPIDIACEAE (Shield Fern Family)

WMB *Athyrium filix-femina* (L.) Roth. Lady Fern.

WM *Athyrium pycnocarpon* (Spreng.) Tidestr. Narrow-leaved Spleenwort.

WM *Athyrium thelypteroides* (Michx.) Desv. Silvery Spleenwort.

WMB *Cystopteris bulbifera* (L.) Bernh. Bulblet Bladder Fern.

WMB *Cystopteris fragilis* (L.) Bernh. Fragile Fern.

W *Matteuccia struthiopteris* (L.) Todaro. Ostrich Fern.

B *Thelypteris hexagonoptera* (Michx.) Weatherby. Broad Beech-fern.

ASPLENIACEAE (Spleenwort Family)

WMB *Asplenium rhizophyllum* L. Walking Fern.

PTERIDACEAE (Bracken Family)

WMB *Adiantum pedatum* L. Maidenhair Fern.

B *Cheilanthes feei* Moore. Slender Lip-fern.

WM *Cryptogramma stelleri* (Gmel.) Prantl. Slender Cliff Brake.

WMB *Pellaea glabella* Mett. Cliff Brake.

II. GYMNOSPERMS

TAXACEAE (Yew Family)

WM *Taxus canadensis* Marsh. American Yew.

PINACEAE (Pine Family)

WMB *Pinus strobus* L. White Pine. The large stand at Wapsi-



Figure 3. The bluff on which Bellevue Park is located.



Figure 4. Spikenard in fruit at Wapsipinicon Park.



Figure 5. Leaves of a leatherwood shrub in Maquoketa Caves Park.

pinicon Park is known to be planted; the few trees at Maquoketa Caves Park appear to have been planted. The origin of those at Bellevue Park is uncertain; some may be native. Seedlings were observed near the older trees in all three parks.

CUPRESSACEAE (Cypress Family)

WMB *Juniperus virginiana* L. Eastern Red Cedar.

III. MONOCOTYLEDONS

AGAVACEAE (Agave Family)

- W \**Yucca smalliana* Fern. Adam's Needle. Presumably escaped from plantings.

AMARYLLIDACEAE (Amaryllis Family)

- WM *Allium tricoccum* Ait. Wild Leek.

ARACEAE (Arum Family)

- W *Arisaema dracontium* (L.) Schott. Green Dragon.  
 WMB *Arisaema triphyllum* (L.) Schott. Jack-in-the-pulpit.

COMMELINACEAE (Spiderwort Family)

- B \**Commelina communis* L. Dayflower.

CYPERACEAE (Sedge Family)

- WM *Carex albursina* Sheldon. Sedge.  
 WMB *Carex blanda* Dew. Sedge.  
 M *Carex cephalophora* Muhl. Sedge.



Figure 6. Canoe birch in Bellevue Park.

- W B *Carex conjuncta* Boott. Sedge.  
 WM *Carex eburnea* Boott. Sedge.  
 B *Carex gravida* Bailey. Sedge.  
 WMB *Carex grisea* Wahl. Sedge.  
 W *Carex hirtifolia* Mack. Sedge.  
 M *Carex jamesii* Schw. Sedge.  
 WMB *Carex normalis* Mack. Sedge.  
 WM *Carex pedunculata* Muhl. Sedge.

- WMB *Carex pensylvanica* Lam. Sedge.  
 M *Carex plantaginea* Lam. Sedge.  
 W B *Carex rosea* Schkuhr. Sedge.  
 MB *Carex sparganioides* Muhl. Sedge.  
 WM *Carex sprengelii* Dew. Sedge.

## DIOSCOREACEAE (Yam Family)

- WMB *Dioscorea villosa* L. Wild Yam.

## GRAMINEAE (Grass Family)

- WM *Andropogon gerardii* Vitman. Tall Bluestem.  
 M *Andropogon scoparius* Michx. Little Bluestem.  
 MB *Bouteloua curtipendula* (Michx.) Torr. Side-oats Grama.  
 W *Bromus latiglumis* (Shear) Hitchc. Brome Grass.  
 M *Bromus purgans* L. Brome Grass.  
 W *Cenchrus pauciflorus* Benth. Sandbur.  
 B *Cinna arundinacea* L. Wood Reedgrass.  
 WMB \**Digitaria ischaemum* (Schreb.) Muhl. Crab Grass.  
 W \**Echinochloa crusgalli* (L.) Beauv. Barnyard Grass.  
 M *Echinochloa pungens* (Poir.) Rydb. Barnyard Grass.  
 W *Elymus canadensis* L. Wild Rye.  
 M *Elymus villosus* Muhl. Slender Wild Rye.  
 W B *Festuca obtusa* Biehler. Nodding Fescue.  
 WMB *Hystrix patula* Moench. Bottle-brush Grass.  
 WMB *Leersia virginica* Willd. White Grass.  
 M *Muhlenbergia frondosa* (Poir.) Fern.  
 WMB *Muhlenbergia schreberi* J. F. Gmel. Nimble Will.  
 M *Muhlenbergia tenuiflora* (Willd.) BSP.  
 WMB *Oryzopsis racemosa* (Sm.) Ricker. Mountain Rice.  
 WMB *Panicum capillare* L. Witch Grass.  
 W *Panicum latifolium* L. Panic Grass.  
 W *Phalaris arundinacea* L. Reed Canary Grass.  
 M \**Poa compressa* L. Canada Blue Grass.  
 WMB \**Poa pratensis* L. Kentucky Blue Grass.  
 W *Poa sylvestris* Gray. Woodland Blue Grass.  
 WMB \**Setaria lutescens* (Weigel) F. T. Hubb. Yellow Foxtail.  
 M *Sorghastrum nutans* (L.) Nash. Indian Grass.  
 W *Sphenopholis intermedia* (Rydb.) Rydb. Wedge Grass.

## IRIDACEAE (Iris Family)

- M *Sisyrinchium campestre* Bickn. Blue-eyed Grass.

## LILIACEAE (Lily Family)

- W B \**Asparagus officinalis* L. Asparagus.  
 WM *Erythronium albidum* Nutt. White Trout Lily.  
 W \**Hemerocallis fulva* L. Day Lily.  
 WMB *Polygonatum canaliculatum* (Muhl.) Pursh. Solomon's Seal.



- WMB *Smilacina racemosa* (L.) Desf. False Solmon's Seal.  
 WM *Smilacina stellata* (L.) Desf. False Solomon's Seal.  
 WMB *Uvularia grandiflora* Sm. Bellwort.
- ORCHIDACEAE (Orchid Family)
- W *Corallorhiza odontorhiza* (Willd.) Nutt. Late Coral-root.  
 M *Cypripedium calceolus* L. Yellow Lady-slipper.  
 W B *Liparis liliifolia* (L.) Rich. Tway-blade.  
 WMB *Orchis spectabilis* L. Showy Orchis.
- SMILACACEAE (Greenbrier Family)
- WMB *Smilax ecirrhata* (Engelm.) S. Wats. Carrion Flower.  
 WMB *Smilax herbacea* L. Carrion Flower.  
 WMB *Smilax hispida* Muhl. Greenbrier, Catbrier.
- TRILLIACEAE (Trillium Family)
- WM *Trillium flexipes* Raf. Trillium.  
 M *Trillium recurvatum* Beck. Wake-robin.

#### IV. DICOTYLEDONS

- ACERACEAE (Maple Family)
- WMB *Acer negundo* L. Box Elder.  
 W *Acer saccharinum* L. Soft Maple.  
 WMB *Acer saccharum* Marsh. Sugar Maple.
- AMARANTHACEAE (Amaranth Family)
- W \**Amaranthus hybridus* L. Pigweed.
- ANACARDIACEAE (Cashew Family)
- WMB *Rhus glabra* L. Smooth Sumac.  
 WMB *Rhus radicans* L. Poison Ivy.  
 M *Rhus typhina* L. Staghorn Sumac.
- APOCYNACEAE (Dogbane Family)
- M *Apocynum cannabinum* L. Dogbane, Indian Hemp.
- ARALIACEAE (Ginseng Family)
- WM *Aralia nudicaulis* L. Wild Sarsaparilla.  
 WMB *Aralia racemosa* L. Spikenard.  
 WM *Panax quinquefolius* L. Ginseng.
- ARISTOLOCHIACEAE (Birthwort Family)
- WMB *Asarum canadense* L. Wild Ginger.
- ASCLEPIADACEAE (Milkweed Family)
- M *Asclepias purpurascens* L. Purple Milkweed.  
 M *Asclepias tuberosa* L. Butterfly Weed.  
 MB *Asclepias verticillata* L. Whorled Milkweed.

## BALSAMINACEAE (Touch-me-not Family)

- W *Impatiens biflora* Walt. Touch-me-not.  
 WMB *Impatiens pallida* Nutt. Pale Touch-me-not.

## BERBERIDACEAE (Barberry Family)

- W B \**Berberis thunbergii* DC. Japanese Barberry.  
 WM *Caulophyllum thalictroides* (L.) Michx. Blue Cohosh.  
 WMB *Podophyllum peltatum* L. May Apple.

## BETULACEAE (Birch Family)

- W *Betula nigra* L. River Birch.  
 B *Betula papyrifera* Marsh. Paper Birch, Canoe Birch.  
 WM *Carpinus caroliniana* Walt. Blue Beech.  
 WMB *Corylus americana* Walt. Hazelnut.  
 WMB *Ostrya virginiana* (Mill.) K. Koch. Hop Hornbeam.

## BIGNONIACEAE (Bignonia Family)

- W \**Campsis radicans* (L.) Seem. Trumpet Vine. Perhaps planted.

## BORAGINACEAE (Borage Family)

- MB *Hackelia virginiana* (L.) I. M. Johnston. Stickseed.  
 M *Lithospermum canescens* (Michx.) Lehm. Puccoon.  
 M *Lithospermum latifolium* Michx. Gromwell.

## CAMPANULACEAE (Bluebell Family)

- WMB *Campanula americana* L. Tall Bellflower.  
 M *Campanula rotundifolia* L. Bluebell.  
 WMB *Lobelia inflata* L. Indian Tobacco.  
 WMB *Lobelia siphilitica* L. Great Lobelia.  
 B *Lobelia spicata* Lam. Pale Spike Lobelia.

## CAPRIFOLIACEAE (Honeysuckle Family)

- WMB *Lonicera prolifera* (Kirchn.) Rehd. Wild Honeysuckle.  
 W \**Lonicera tatarica* L. Tatarian Honeysuckle. Presumably escaped from plantings.  
 WM *Sambucus canadensis* L. Elderberry.  
 B *Sambucus pubens* Michx. Red-berried Elder.  
 WM *Triosteum aurantiacum* Bickn. Feverwort.  
 MB *Triosteum perfoliatum* L. Horse Gentian.  
 WMB *Viburnum lentago* L. Nannyberry.  
 WMB *Viburnum rafinesquianum* Schultes. Arrowwood.

## CARYOPHYLLACEAE (Pink Family)

- W \**Cerastium vulgatum* L. Mouse-eared Chickweed.  
 W \**Stellaria aquatica* (L.) Scop. Giant Chickweed.  
 W *Stellaria longifolia* Muhl. Stitchwort.  
 M *Stellaria media* (L.) Cyrillo. Common Chickweed.

## CELASTRACEAE (Bittersweet Family)

- WMB *Celastrus scandens* L. Bittersweet.

WMB *Euonymus atropurpureus* Jacq. Wahoo.

CHENOPODIACEAE (Goosefoot Family)

M \**Chenopodium album* L. Lamb's Quarters.

COMPOSITAE (Composite Family)

- M *Achillea millefolium* L. Yarrow.  
 MB *Ambrosia artemisiifolia* L. Ragweed.  
 WM *Ambrosia trifida* L. Giant Ragweed.  
 W B *Antennaria neglecta* Greene. Pussytoes.  
 WMB *Antennaria plantaginifolia* (L.) Hook. Pussytoes.  
 M *Aster azureus* Lindl. Aster.  
 WMB *Aster cordifolius* L. Wood Aster.  
 WM *Aster lateriflorus* (L.) Britt. Aster.  
 B *Aster novae-angliae* L. New England Aster.  
 B *Aster pilosus* Willd. Aster.  
 M *Aster prenanthoides* Muhl. Aster.  
 M *Aster ptarmicoides* (Nees) T. & G. Aster.  
 MB *Aster sagittifolius* Wed. Arrow-leaved Aster.  
 WMB *Aster shortii* Lindl. Aster.  
 W *Bidens cernua* L. Bur Marigold.  
 M *Bidens tripartita* L. Bur Marigold.  
 W \**Cichorium intybus* L. Chicory.  
 M *Cirsium altissimum* (L.) Spreng. Tall Thistle.  
 M *Coreopsis palmata* Nutt. Tickseed.  
 B *Erechtites hieracifolia* (L.) Raf. Fireweed.  
 W *Erigeron annuus* (L.) Pers. Daisy Fleabane.  
 B *Erigeron pulchellus* Michx. Robin's Plantain.  
 M *Erigeron strigosus* Muhl. Fleabane.  
 B *Eupatorium altissimum* L. Tall Thoroughwort.  
 B *Eupatorium purpureum* L. Joe Pye Weed.  
 WMB *Eupatorium rugosum* Houtt. White Snakeroot.  
 W \**Galinsoga ciliata* (Raf.) Blake. Peruvian Daisy.  
 M *Gnaphalium obtusifolium* L. Everlasting.  
 M *Helianthus strumosus* L. Wood Sunflower.  
 WM *Heliopsis helianthoides* (L.) Sweet. Oxeye.  
 W *Hieracium scabrum* Michx. Hawkweed.  
 W B *Krigia biflora* (Walt.) Blake. Dwarf Dandelion.  
 M *Kuhnia eupatorioides* L. False Boneset.  
 MB *Lactuca canadensis* L. Wild Lettuce.  
 WM *Lactuca floridana* (L.) Gaertn. Blue Lettuce.  
 M *Parthenium integrifolium* L. Wild Quinine.  
 B *Polymnia canadensis* L. Leafcup.  
 WMB *Prenanthes alba* L. Rattlesnake Root.  
 M *Ratibida pinnata* (Vent.) Barnh. Coneflower.  
 W B *Rudbeckia hirta* L. Black-eyed Susan.  
 WM *Rudbeckia laciniata* L. Tall Coneflower.

- WM *Rudbeckia triloba* L. Brown-eyed Susan.  
 M *Senecio plattensis* Nutt. Prairie Ragwort.  
 W B *Silphium perfoliatum* L. Cup Plant.  
 WM *Solidago altissima* L. Tall Goldenrod.  
 WMB *Solidago flexicaulis* L. Zig-zag Goldenrod.  
 W *Solidago gigantea* Ait. Smooth Goldenrod.  
 M *Solidago nemoralis* Ait. Goldenrod.  
 WMB *Solidago ulmifolia* Muhl. Goldenrod.  
 WM \**Taraxacum erythrospermum* Andrz. Red-seeded Dandelion.  
 WMB \**Taraxacum officinale* Weber. Common Dandelion.  
 W *Xanthium strumarium* L. Cocklebur.
- CORNACEAE (Dogwood Family)  
 WMB *Cornus alternifolia* L. f. Alternate-leaved Dogwood.  
 B *Cornus drummondii* Meyer. Rough-leaved Dogwood.  
 W B *Cornus racemosa* Lam. Gray Dogwood.
- CRUCIFERAE (Mustard Family)  
 B *Arabis drummondii* Gray. Rock Cress.  
 M *Arabis laevigata* (Muhl.) Poir. Rock Cress.  
 B *Arabis lyrata* L. Rock Cress.  
 W *Arabis perstellata* E. L. Br. Rock Cress.  
 WM \**Barbarea vulgaris* R. Br. Yellow Rocket, Winter Cress.  
 W \**Capsella bursa-pastoris* (L.) Medic. Shepherd's Purse.  
 M *Cardamine pensylvanica* Muhl. Bitter Cress.  
 WMB *Dentaria laciniata* Muhl. Toothwort.  
 W \**Lepidium campestre* (L.) R. Br. Cow Cress.  
 M *Rorippa islandica* (Oeder) Borbas. Marsh Cress.
- CUCURBITACEAE (Gourd Family)  
 W *Echinocystis lobata* (Michx.) T. & G. Wild Cucumber.
- EUPHORBIACEAE (Spurge Family)  
 WMB *Acalypha rhomboidea* Raf. Three-seeded Mercury.  
 WM *Euphorbia corollata* L. Flowering Spurge.  
 M *Euphorbia maculata* L. Spotted Spurge.
- FAGACEAE (Beech Family)  
 WMB *Quercus alba* L. White Oak.  
 WM *Quercus macrocarpa* Michx. Bur Oak.  
 MB *Quercus muhlenbergii* Engelm. Chestnut Oak.  
 W *Quercus palustris* Muenchh. Pin Oak. One tree, perhaps planted.  
 WMB *Quercus rubra* L. Red Oak.  
 B *Quercus velutina* Lam. Black Oak.
- GENTIANACEAE (Gentian Family)  
 MB *Gentiana quinquefolia* L. Stiff Gentian.

GERANIACEAE (Geranium Family)

WMB *Geranium maculatum* L. Wild Cranesbill.

GUTTIFERAE (St. John's-wort Family)

W *Hypericum punctatum* Lam. St. John's-wort.

W *Hypericum spathulatum* (Spach) Steud. Shrubby St. John's-wort.

HYDROPHYLLACEAE (Waterleaf Family)

W *Ellisia nyctelea* L.

WM *Hydrophyllum appendiculatum* Michx. Waterleaf.

WMB *Hydrophyllum virginianum* L. Waterleaf.

JUGLANDACEAE (Walnut Family)

WMB *Carya cordiformis* (Wang). K. Koch. Bitternut.

WMB *Carya ovata* (Mill.) K. Koch. Shagbark Hickory.

WM *Juglans cinerea* L. Butternut.

WMB *Juglans nigra* L. Black Walnut.

LABIATAE (Mint Family)

M *Agastache nepetoides* (L.) Ktze. Yellow Giant Hyssop.

M *Blephilia hirsuta* (Pursh) Benth. Wood Mint.

W \**Glechoma hederacea* L. Ground Ivy.

M \**Leonurus cardiaca* L. Motherwort.

W *Lycopus virginicus* L. Bugleweed.

WMB *Monarda fistulosa* L. Wild Bergamot.

WMB \**Nepeta cataria* L. Catnip.

W *Physostegia parviflora* Nutt. False Dragonhead.

WMB *Prunella vulgaris* L. Selfheal.

B *Pycnanthemum virginianum* (L.) Durand & Jackson.  
Mountain Mint.

W *Scutellaria lateriflora* L. Skullcap.

W *Scutellaria nervosa* Pursh. Skullcap.

W *Stachys tenuifolia* Willd. Hedge-nettle.

M *Teucrium canadense* L. Germander.

LEGUMINOSAE (Legume Family)

B *Amorpha canescens* Pursh. Leadplant.

WMB *Amphicarpa bracteata* (L.) Fern. Hog-peanut.

W *Apios americana* Medic. Groundnut.

M *Desmodium cuspidatum* (Muhl.) Loud. Tick-trefoil.

WMB *Desmodium glutinosum* (Muhl.) Wood. Tick-trefoil.

MB *Desmodium illinoense* Gray. Tick-trefoil.

M *Desmodium paniculatum* (L.) DC. Tick-trefoil.

W *Gleditsia triacanthos* L. Honey Locust.

WM *Gymnocladus dioica* (L.) K. Koch. Kentucky Coffee Tree.

W *Lespedeza capitata* Michx. Bush-clover.

B *Lespedeza violacea* (L.) Pers. Bush-clover.

- WMB \**Melilotus alba* Desr. White Sweetclover.  
 M *Petalostemum purpureum* (Vent.) Rydb. Purple Prairie-clover.
- WMB \**Robinia pseudo-acacia* L. Black Locust.  
 B *Strophostyles helvola* (L.) Ell. Wild Bean.
- WMB \**Trifolium pratense* L. Red Clover.  
 WMB \**Trifolium repens* L. White Clover.
- MENISPERMACEAE (Moonseed Family)  
 WMB *Menispermum canadense* L. Moonseed.
- MORACEAE (Mulberry Family)  
 W B \**Morus alba* L. White Mulberry.  
 B *Morus rubra* L. Red Mulberry.
- NYCTAGINACEAE (Four-o'clock Family)  
 B *Mirabilis nyctaginea* (Michx.) MacM. Wild Four-o'clock.
- OLEACEAE (Olive Family)  
 WMB *Fraxinus americana* L. White Ash.  
 WMB *Fraxinus nigra* Marsh. Black Ash.  
 WMB *Fraxinus pennsylvanica* Marsh. Green Ash.
- ONAGRACEAE (Evening-primrose Family)  
 WMB *Circaea quadrisulcata* (Maxim.) Franch. & Sav. Enchanter's-nightshade.  
 MB *Oenothera biennis* L. Evening Primrose.
- OROBANCHACEAE (Broom-rape Family)  
 W *Orobanche uniflora* L. Cancer-root.
- OXALIDACEAE (Wood-sorrel Family)  
 WMB *Oxalis stricta* L. Common Wood-sorrel.
- PAPAVERACEAE (Poppy Family)  
 WM *Dicentra canadensis* (Goldie) Walp. Squirrel-corn.  
 WMB *Dicentra cucullaria* (L.) Bernh. Dutchman's Breeches.  
 WMB *Sanguinaria canadensis* L. Bloodroot.
- PHRYMACEAE (Lopseed Family)  
 WMB *Phryma leptostachya* L. Lopseed.
- PLANTAGINACEAE (Plantain Family)  
 WMB *Plantago rugelii* Dcne. Plantain.
- PLATANACEAE (Plane-tree Family)  
 W *Platanus occidentalis* L. Sycamore.
- POLEMONIACEAE (Phlox Family)  
 WM *Phlox divaricata* L. Blue Phlox.  
 WMB *Polemonium reptans* L. Jacob's Ladder.

POLYGALACEAE (Milkwort Family)

- WM *Polygala senega* L. Seneca Snakeroot.
- B *Polygala verticillata* L. Milkwort.

POLYGONACEAE (Buckwheat Family)

- WM *Polygonum pensylvanicum* L. Pinkweed.
- MB *Polygonum scandens* L. Climbing False Buckwheat.
- WM *Polygonum virginianum* L. Jumpseed.
- M *Rumex altissimus* Wood. Pale Dock.
- M \**Rumex crispus* L. Curly Dock.

PORTULACACEAE (Purslane Family)

- WM *Claytonia virginica* L. Spring Beauty.
- W \**Portulaca oleracea* L. Purslane.

PRIMULACEAE (Primrose Family)

- B *Lysimachia ciliata* L. Fringed Loosestrife.
- W \**Lysimachia nummularia* L. Moneywort.

RANUNCULACEAE (Buttercup Family)

- WMB *Actaea pachypoda* Ell. White Baneberry.
- W *Actaea rubra* (Ait.) Willd. Red Baneberry.
- W *Anemone canadensis* L. Meadow Anemone.
- W *Anemone quinquefolia* L. Wood Anemone.
- WMB *Anemone virginiana* L. Tall Anemone.
- W B *Anemonella thalictroides* (L.) Spach. Rue-anemone.
- WMB *Aquilegia canadensis* L. Columbine.
- WMB *Clematis virginiana* L. Virgin's Bower.
- WMB *Hepatica acutiloba* DC. Liverleaf.
- M *Hydrastis canadensis* L. Golden Seal.
- WM *Isopyrum biternatum* (Raf.) T. & G. False Rue-anemone.
- WMB *Ranunculus abortivus* L. Small-flowered Crowfoot.
- M *Ranunculus recurvatus* Poir. Buttercup.
- WM *Ranunculus septentrionalis* Poir. Swamp Buttercup.
- W *Thalictrum dasycarpum* Fisch. & Lall. Purple Meadow-rue.

RHAMNACEAE (Buckthorn Family)

- WMB *Ceanothus americanus* L. New Jersey Tea.
- B \**Rhamnus cathartica* L. Common Buckthorn.
- M *Rhamnus lanceolata* Pursh. Buckthorn.

ROSACEAE (Rose Family)

- WMB *Agrimonia gryposepala* Wallr. Agrimony.
- M *Agrimonia pubescens* Wallr. Agrimony.
- B *Amelanchier laevis* Wieg. Shadbush, Service Berry.
- B *Aruncus dioicus* (Walt.) Fern. Goat's Beard.
- W *Crataegus margaretta* Ashe. Hawthorn.

- W *Crataegus punctata* Jacq. Hawthorn.  
 WMB *Fragaria vesca* L. Woodland Strawberry.  
 W B *Fragaria virginiana* Duchesne. Wild Strawberry.  
 WMB *Geum canadense* Jacq. White Avens.  
 WMB *Physocarpus opulifolius* (L.) Maxim. Ninebark.  
 B *Potentilla arguta* Pursh. Prairie Cinquefoil.  
 M \**Potentilla recta* L. Sulfur Cinquefoil.  
 WM *Potentilla simplex* Michx. Cinquefoil.  
 M *Prunus americana* Marsh. Wild Plum.  
 WMB *Prunus serotina* Ehrh. Black Cherry.  
 WMB *Prunus virginiana* L. Choke Cherry.  
 W *Pyrus ioensis* (Wood) Bailey. Crab Apple.  
 W B \**Pyrus malus* L. Apple.  
 M *Rosa carolina* L. Rose.  
 WMB *Rubus allegheniensis* Porter. Blackberry.  
 WMB *Rubus occidentalis* L. Black Raspberry.

## RUBIACEAE (Madder Family)

- M *Cephalanthus occidentalis* L. Buttonbush.  
 WMB *Galium aparine* L. Bedstraw.  
 WMB *Galium boreale* L. Northern Bedstraw.  
 B *Galium circaezans* Michx. Wild-licorice.  
 WMB *Galium concinnum* T. & G. Shining Bedstraw.  
 WMB *Galium triflorum* Michx. Bedstraw.

## RUTACEAE (Rue Family)

- WMB *Xanthoxylum americanum* Mill. Prickly Ash.

## SALICACEAE (Willow Family)

- WMB *Populus deltoides* Marsh. Cottonwood.  
 WMB *Populus grandidentata* Michx. Large-toothed Aspen.  
 WMB *Populus tremuloides* Michx. Quaking Aspen.  
 M *Salix discolor* Muhl. Pussy Willow.  
 M \**Salix fragilis* L. Crack Willow.  
 M *Salix interior* Rowlee. Sandbar Willow.  
 W *Salix nigra* Marsh. Black Willow.  
 W B *Salix rigida* Muhl. Willow.

## SANTALACEAE (Sandalwood Family)

- MB *Comandra umbellata* (L.) Nutt. Bastard Toad-flax.

## SAXIFRAGACEAE (Saxifrage Family)

- WMB *Mitella diphylla* L. Bishop's Cap.  
 WMB *Ribes cynosbati* L. Prickly Gooseberry.  
 WM *Ribes missouriense* Nutt. Wild Gooseberry.  
 WM *Sullivantia renifolia* Rosend.

## SCROPHULARIACEAE (Figwort Family)

- B *Gerardia grandiflora* Benth. False Fox-glove.



- B \**Linaria vulgaris* Hill. Butter-and-eggs.  
 M *Mimulus ringens* L. Monkey Flower.  
 WM *Pedicularis canadensis* L. Lousewort.  
 WM *Scrophularia marilandica* L. Figwort.  
 WMB \**Verbascum thapsus* L. Common Mullein.  
 WMB *Veronicastrum virginicum* (L.) Farw. Culver's Root.
- SOLANACEAE (Nightshade Family)  
 MB *Physalis heterophylla* Nees. Ground-cherry.  
 WM \**Solanum nigrum* L. Black Nightshade.
- STAPHYLEACEAE (Bladder-nut Family)  
 WMB *Staphylea trifolia* L. Bladder-nut.
- THYMELAEACEAE (Oleaster Family)  
 M *Dirca palustris* L. Leatherwood.
- TILIACEAE (Basswood Family)  
 WMB *Tilia americana* L. Basswood.
- ULMACEAE (Elm Family)  
 WMB *Celtis occidentalis* L. Hackberry.  
 WMB *Ulmus americana* L. American Elm.  
 WMB *Ulmus rubra* Muhl. Slippery Elm.
- UMBELLIFERAE (Parsley Family)  
 WMB *Cryptotaenia canadensis* (L.) DC. Honewort.  
 WMB \**Daucus carota* L. Wild Carrot, Queen Anne's Lace.  
 WMB *Osmorhiza claytonii* (Michx.) C. B. Clarke. Sweet Cicely.  
 WM *Osmorhiza longistylis* (Torr.) DC. Anise-root.  
 W \**Pastinaca sativa* L. Wild Parsnip.  
 B *Sanicula canadensis* L. Black Snakeroot.  
 WM *Sanicula gregaria* Bickn. Common Snakeroot.  
 WM *Sanicula trifoliata* Bickn. Large-fruited Snakeroot.  
 W *Thaspium barbinode* (Michx.) Nutt. Meadow-parsnip.  
 B *Zizia aurea* (L.) W. D. J. Koch. Golden Alexanders.
- URTICACEAE (Nettle Family)  
 W *Boehmeria cylindrica* (L.) Sw. False Nettle.  
 WM *Laportea canadensis* (L.) Gaud. Wood Nettle.  
 M *Parietaria pensylvanica* Muhl. Pellitory.  
 WM *Pilea pumila* (L.) Gray. Clearweed.  
 WM *Urtica dioica* L. Stinging Nettle.
- VERBENACEAE (Vervain Family)  
 W *Lippia lanceolata* Michx. Frogfruit.  
 WMB *Verbena urticifolia* L. White Vervain.
- VIOLACEAE (Violet Family)  
 WM *Viola pensylvanica* Michx. Smooth Yellow Violet.  
 W *Viola pubescens* Ait. Downy Yellow Violet.

WMB *Viola sororia* Willd. Hairy Blue Violet.

VITACEAE (Grape Family)

WMB *Parthenocissus quinquefolia* (L.) Planch. Virginia Creeper, Woodbine.

M *Parthenocissus vitacea* (Knerr) Hitchc.

MB *Vitis aestivalis* Michx. Summer Grape.

WMB *Vitis riparia* Michx. Frost Grape.

#### TOTALS

Wapsipinicon State Park:	262 species.
Maquoketa Caves State Park:	263 species.
Bellevue State Park	195 species.
Total in all three parks:	381 species.

#### Literature Cited

- Cooperrider, T. 1958. A preliminary report on the flora of Clinton, Jackson and Jones Counties, Iowa. Proc. Iowa Acad. Sci. 65: 110-112.