

CHECK LIST OF THE VASCULAR PLANTS OF WINNEBAGO COUNTY, ILLINOIS

GEORGE D. FULLER, EGBERT W. FELL, and GEORGE B. FELL
Illinois State Museum, Springfield

Winnebago County is in the center of the northern boundary of the State of Illinois. It is traversed by the Rock River and two of its principal tributaries—the Kishwaukee and the Pecatonica—and Sugar River, a tributary of the Pecatonica, flows into the county from Wisconsin. Most of the county has moderate topography, the elevation ranging from 680 to 990 feet above sea level. The northwest corner is more hilly than the rest of the area.

Most of the county is covered by glacial drift which was deposited by the ice-sheet of the Illinoian glacial period. The Wisconsin ice-sheet, with its border to the north and east, contributed extensive terraces of glacial outwash gravel which filled the major stream valleys, in some places to a depth of more than 250 feet. The Belvidere lobe of the Early Wisconsin glaciation extended into the southeast corner of the county, cutting off the former valley of the Kishwaukee River and causing the stream to flow along the north edge of the glacier where it eroded a gorge in the bedrock about a hundred feet deep and several miles long. The lobe of ice also blocked the Rock River and caused it to form a new channel to the west of its former one, seen at Byron in Ogle County. Here, too, a gorge was cut into the bedrock, but not so clearly defined as along the Kishwaukee.

There are small outcrops of bedrock at a number of other widely

scattered places in the county where streams have eroded new channels through the glacial drift. Some of the hilltops, especially in the west part of the area, are devoid of glacial drift and have rock directly beneath the soil. All of these outcrops are Galena dolomite except a small exposure of St. Peter sandstone on the east bank of Sugar River. The area bounded by the Sugar, Pecatonica, and Rock rivers consists largely of sandy soil and dune sand. The geography and geology of the county have been described in detail by various authors of the Illinois Geological Survey (2, 10, 11).

Like most of Illinois, in Winnebago County the vegetation consisted of a mixture of prairie and deciduous forest. The forest vegetation was mostly concentrated above the Pecatonica River and along the south and east boundaries of the county. The central area was largely prairie. The soil survey (6) shows accurately the limits of the soils formed under prairie and forest conditions.

The plant associations and habitats may be divided roughly into the following groups: forest, of which at least one area is predominantly sugar maple, others which were largely oak; prairie, ranging from low wet areas to dry hills; bogs, mainly sedge, but with several *Sphagnum* areas; swamps, especially along the Pecatonica River; streams; limestone outcrops; and sand. A num-

ber of unusual northern species of plants can be found in the bog and rock outcrop areas.

Agriculturally, the county is on the boundary between the corn belt and dairy country. Cultivation and grazing have profoundly modified the entire vegetation except for a very few small areas, yet there remains a remarkably diverse flora.

The flora of the county has been studied by many botanists, beginning with Michael S. Bebb (1). Gleason (5), in 1910, reported on the Sugar River sand area vegetation. The Nature Study Society of Rockford published lists of the woody plants of the area (8, 9). More recently Dr. Fernald, of Rockford College, has reviewed the work of former botanists (3) and published a list of the herbaceous plants (not including the ferns) of the county (4).

As a part of the Rockford Museum Project of the W. P. A., Dr. Fernald directed the collection of more than 1,000 plants in the county during the seasons of 1939 and 1940. These were deposited in the herbarium of Rockford College, duplicates being given to the Illinois State Herbarium at Springfield.

During the last few year intensive study of the flora has been made by the junior authors and the collections thus obtained have been deposited in the herbarium of the Illinois State Museum, Springfield, and on these specimens this list is based with a few exceptions that are in the herbarium of the Chicago Natural History Museum and these exceptions have been checked by the senior author. There are also a few that are in the herbarium of Rockford College which are marked with an asterisk (*) but have been re-

ported in the previously published lists.

The taxonomic arrangement and nomenclature follow Jones (7) with very few exceptions.

Lycopodiaceae

Lycopodium lucidulum Michx.

Selaginellaceae

Selaginella rupestris (L.) Spring.

Equisetaceae

Equisetum arvense L.

" *laevigatum* A. Br.

" *prealtum* Raf.

Ophioglossaceae

Botrychium dissectum Spreng.

" *multifidum* (Gmel.) Rupr.

" *obliquum* Muhl.

" *virginianum* (L.) Sw.

Osmundaceae

Osmunda cinnamomea L.

" *claytoniana* L.

" *regalis* L.

Polypodiaceae

Cystopteris bulbifera (L.) Bernh.

" *fragilis* (L.) Bernh.

Onoclea sensibilis L.

Dryopteris cristata (L.) Gray

" *intermedia* (Muhl.) Gray

" *spinulosa* (Muell.) Watt

" *thelypteris* (L.) Gray

Polypodium virginianum L.

Camptosorus rhizophyllus (L.) Link

Asplenium platyneuron (L.) Oakes

Athyrium angustum (Willd.) Presl.

" *thelypteroides* (Michx.) Desv.

Cryptogramma stelleri (Gmell.) Prantl.

Pellaea glabella Mett.

Adiantum pedatum L.

Pteridium latiusculum (Desv.) Hieron.

Taxaceae

Taxus canadensis Marsh.

Pinaceae

Pinus strobus L.

Juniperus virginiana L.

Typhaceae

Typha angustifolia L.

" *latifolia* L.

Sparganiaceae

Sparganium americanum Nutt.

" *eurycarpum* Engelm.

Potamogetonaceae

Potamogeton americanus C. & S.

" *foliosus* Raf.

" *lucens* L.

" *pectinatus* L.

Alismaceae

Alisma subcordatum Raf.

Sagittaria brevirostra Mack & Bush

" *latifolia* Willd.

" *longirostra* (Micheli) Sm.*

Hydrocharitaceae
Anacharis canadensis (Michx.) Planch.

Gramineae
Bromus ciliatus L.
 " *commutatus* Schrad.*
 " *inermis* Leyss
 " *kalmii* Gray
 " *secalinus* L.
 " *tectorum* L.
Festuca obtusa Spreng.
 " *octoflora* Walt.
Glyceria grandis Wats.
 " *septentrionalis* Hitchc.*
 " *striata* (Lam.) Hitchc.
Poa annua L.
 " *compressa* L.
 " *palustris* L.*
 " *pratensis* L.
 " *sylvestris* Gray
Eragrostis capillaris (L.) Nees.
 " *cilianensis* (All.) Link
 " *frankii* C.A. Mey
 " *hypnoides* (Lam.) BSP
 " *pectinacea* (Michx.) Nees.
 " *spectabilis* (Pursh) Steud.
Diarrhena americana Beauv.
Dactylis glomerata L.
Phragmites communis Trin.
Triodia flava (L.) Smyth
Agropyron repens (L.) Beauv.
 " *smithii* Rydb.
Elymus canadensis L.
 " *villosus* Muhl.
 " *virginicus* L.
Hystrix patula Moench.
Hordeum jubatum L.
Koeleria cristata (L.) Pers.
Arrhenatherum elatius (L.) Mert. & Koch.
Danthonia spicata (L.) Beauv.
Calamagrostis canadensis (Michx.) Beauv.
Calamovilfa longifolia (Hook.) Scribn.
Agrostis alba L.
 " *hiemalis* (Walt.) BSP.
Cinna arundinacea L.
Phleum pratense L.
Alopecurus carolinianus Walt.
Muhlenbergia foliosa (R. & S.) Trin.
 " *mexicana* (L.) Trin.
 " *schreberi* Gmel.
Sporobolus cryptandrus (Torr.) Gray
 " *heterolepis* Gray
 " *neglectus* Nash.
Orzopsis asperifolia Michx.
 " *racemosa* (Sm.) Ricker
Stipa comata Trin. & Rupr.*
 " *spartea* Trin.
Aristida oligantha Michx.
 " *purpurascens* Poir.*
 " *tuberculosa* Nutt.
Eleusine indica (L.) Gaertn.
Spartina pectinata Link
Bouteloua curtipendula (Michx.) Torr.
Hierochloa odorata (L.) Beauv.*
Leersia oryzoides (L.) Sw.
 " *virginica* Willd.
Zizania aquatica L.

Digitaria ischaemum (Schreb.) Muhl.
 " *sanguinalis* (L.) Scop

Panicum capillare L.
 " *clandestinum* L.*
 " *dichotomum* L.
 " *dichotomiflorum* Michx.
 " *huachucae* Ashe
 " *latifolium* L.
 " *perlongum* Nash.*
 " *scribnerianum* Nash.
 " *villosissimum* Nash.
 " *virgatum* L.
Echinochloa crus-galli (L.) Beauv.
 " *walteri* (Pursh) Heller
Setaria lutescens (Weigel) Hubb.
 " *viridis* (L.) Beauv.
Cenchrus longispinus (Hack.) Fern.
Andropogon furcatus Muhl.
 " *scoparius* Michx.
Sorghastrum nutans (L.) Nash.

Cyperaceae
Cyperus aristatus Rottb.
 " *diandrus* L.
 " *engelmannii* Steud.
 " *esculentus* L.
 " *ferruginescens* Boeckl.
 " *fliculmis* Vahl.
 " *houghtonii* Torr.
 " *rivularis* Kunth.
 " *schweinitzii* Torr.
 " *strigosus* L.
Dulichium arundinaceum (L.) Britt.
Eleocharis acicularis (L.) R. & S.
 " *compressa* Sulliv.
 " *engelmannii* Steud.
 " *obtusa* (Willd.) Schult.
 " *ovata* (Roth.) R. & S.
 " *palustris* (L.) R. & S.
 " *quadrangulata* (Michx.) R. & S.
 " *tenuis* (Willd.) Schult.
Bulbostylis capillaris (L.) Clarke
Hemicarpha micrantha (Vahl.) Britt
Fimbristylis autumnalis (L.) R. & S.
Scirpus americanus Pers.
 " *atrovirens* Muh.
 " *cyperinus* (L.) Kunth.
 " *fluviatilis* (Torr.) Gray*
 " *lineatus* Michx.
 " *validus* Vahl.
Eriophorum angustifolium Honck.
 " *virginicum* L.
Rhynchospora alba (L.) Vahl.
Scleria triglomerata Michx.
Carex aurea Nutt.
 " *bebbii* Olney
 " *bicknellii* Britt.
 " *blanda* Dewey
 " *buxbaumii* Vahl.
 " *cephaloidea* Dewey
 " *cephalophora* Muhl.
 " *chordorrhiza* Ehrh.*
 " *comosa* Boott.
 " *conoidea* Schkuhr.
 " *cratella* Britt
 " *crus-corvi* Shuttlew

- Carex* *davisii* Schw. & Torr.
 " *festucea* Schk.*
 " *filiformis* L.
 " *gracillima* Schw.
 " *granularis* Muhl.
 " *gravida* Bailey
 " *grisea* Wahl.
 " *grayii* Carey
 " *hirtifolia* Mack.*
 " *hystricina* Muhl.
 " *interior* Bailey
 " *lanuginosa* Michx.
 " *laxiflora* Lam.
 " *longirostris* Torr.
 " *lupulina* Muhl.
 " *lurida* Wahl.
 " *muskingumensis* Schw.*
 " *muhlenbergii* Schk.
 " *pennsylvanica* L.
 " *plantaginea* Lam.
 " *pseudo-cyperus* L.
 " *retrorsa* Schwein.*
 " *richardsonii* R. Br.
 " *rostrata* Stokes
 " *rosea* Schk.
 " *scoparia* Schk.
 " *shortiana* Dewey
 " *sparganoides* Muhl.*
 " *sprengelii* Dewey
 " *stipata* Muhl.
 " *straminea* Willd.
 " *stricta* Lam.
 " *tenera* Dewey
 " *tribuloides* Wahl.
 " *tuckermannii* Dewey*
 " *varia* Muhl.
 " *virescens* Muhl.
 " *vulpinoidea* Michx.
 Araceae
Arisaema *atrorubens* (Ait.) Blume
 " *dracontium* (L.) Schott.
Symplocarpus *foetidus* (L.) Nutt.
Acorus *calamus* L.
 Lemnaceae
Lemna *minor* L.
 " *trisulca* L.
Spirodela *polyrhiza* (L.) Schleiden
 Xyridaceae
Xyris *torta* Sm.
 Commelinaceae
Commelina *communis* L.
 " *virginica* L.
Tradescantia *canaliculata* Raf.
 " *virginiana* L.
 Pontederiaceae
Pontederia *cordata* L.
Heteranthera *dubia* (Jacq.) MacM.
 Juncaceae
Juncus *acuminatus* Michx.
 " *balticus* var. *littoralis* Engelm.
 " *dudley* Wieg.
 " *effusus* L.
 " *greenei* Oakes & Tuck.
Juncus *interior* Wieg.
 " *macer* S. F. Gray
 " *marginatus* Rostk.
 " *nodosus* L.
 " *scirpoides* Lam.
 " *vaseyi* Engelm.
Luzula *multiflora* (Ehrh.) Lej.
 Liliaceae
Hemerocallis *fulva* L.
Allium *canadense* L.
 " *cernuum* Roth.
 " *triccoccum* Ait.
Asparagus *officinalis* L.
Camassia *scilloides* (Raf.) Cory
Erythronium *lilalbidum* Nutt
 " *americanum* Ker.
Lilium *michiganense* Farw.
 " *umbellatum* Pursh
Maianthemum *canadense* var. *interius* Fern.
Ornithogalum *umbellatum* L.
Polygonatum *biflorum* (Walt.) Ell.
Uvularia *grandiflora* Sm.
Trillium *gleasoni* Fern.
 " *recurvatum* Beck.
Smilacina *racemosa* (L.) Desf.
 " *stellata* (L.) Desf.
Smilax *ecirrhata* (Engelm.) Wats.
 " *lasioneuron* Hook.
 " *hispida* Muhl.
 " *rotundifolia* L.
 Dioscoreaceae
Dioscorea *villosa* L.
 Amaryllidaceae
Aletris *farinosa* L.
Hypoxis *hirsuta* (L.) Coville
 Iridaceae
Belamcanda *chinensis* (L.) DC
Iris *shrevei* Small
Sisyrinchium *albidum* Raf.
 " *angustifolium* Mill.
 " *graminoides* Bickn.
 Orchidaceae
Cypripedium *candidum* Muhl.
 " *parviflorum* Salisb.
 " *reginae* Walt.
Orchis *spectabilis* L.
Habenaria *bracteata* (Muhl.) R. Br.
 " *lacera* (Michx.) Lodd.
 " *leucophaea* (Nutt.) Gray
 " *psycodes* (L.) Spreng.
Calopogon *pulchellus* (Salisb.) R. Br.
Triphora *trianthophora* (Sw.) Rydb.
Spiranthes *cernua* (L.) Rich.
Goodyera *pubescens* (Willd.) R. Br.
Liparis *liliifolia* (L.) Rich.
Aplectrum *hyemale* (Muhl.) Torr.
Corallorrhiza *maculata* Raf.
 Salicaceae
Populus *alba* L.
 " *deltoides* Marsh.
 " *grandidentata* Michx.
 " *tremuloides* Michx.

Salix amygdaloides Anders.

- " *bebbiana* Sarg.
- " *candida* Fluegge.
- " *cordata* Muhl.
- " *discolor* Muhl.
- " *fragilis* L.
- " *glaucophylla* Bebb.
- " *humilis* Marsh.
- " *interior* Rowlee
- " *lucida* Muhl.
- " *nigra* Marsh.
- " *pedicellaris* Pursh.*
- " *petiolaris* Sm.
- " *sericea* Marsh.
- " *tristis* Ait.

Juglandaceae

Juglans cinerea L.

- " *nigra* L.

Carya cordiformis (Wang.) K. Koch.

- " *ovata* (Mill.) K. Koch.

Betulaceae

Alnus incana (L.) Moench.

Corylus americana Walt.

Ostrya virginiana (Mill.) Koch.

Carpinus caroliniana Walt.

Betula lutea Michx. f.

- " *glandulifera* (Regel) Butler
- " *pumila* L.

Fagaceae

Quercus alba L.

- " *bicolor* Willd.
- " *borealis* Michx. f.
- " *ellipsoidalis* Hill
- " *macrocarpa* Michx.
- " *muhlenbergia* Engelm.
- " *palustris* Muench.
- " *velutina* Lam.

Ulmaceae

Ulmus americana L.

- " *fulva* Michx.

Celtis occidentalis L.

Morus rubra L.

Cannabinaceae

Cannabis sativa L.

Humulus americanus Nutt.

Urticaceae

Urtica procera Muhl.

Boehmeria cylindrica (L.) Sw.

Pilea pumila (L.) Gray

Laportea canadensis (L.) Gaud.

Parietaria pennsylvanica Muhl.

Santalaceae

Comandra umbellata (L.) Nutt.

Aristolochiaceae

Asarum acuminatum (Ashe) Bickn.

- " *reflexum* Bickn.

Polygonaceae

Rumex acetosella L.

- " *altissimus* Wood
- " *britannica* L.
- " *crispus* L.
- " *orbiculatus* Gray
- " *verticillatus* L.

Polygonum aviculare L.

- " *buxiforme* Small
- " *coccineum* Muhl.
- " *convolvulus* L.
- " *hydropiper* L.
- " *hydropiperoides* Michx.
- " *lapathifolium* L.
- " *orientale* L.
- " *natans* (Michx.) Eaton
- " *pennsylvanicum* L.
- " *persicaria* L.
- " *punctatum* Ell.
- " *ramosissimum* Michx.
- " *scandens* L.
- " *sagittatum* L.
- " *tenue* Michx.
- " *virginianum* L.

Polygonella articulata (L.) Meis.

Chenopodiaceae

Chenopodium album L.

- " *berlandieri* Moq.*
- " *boscianum* Moq.
- " *capitatum* L.
- " *glaucum* L.
- " *hybridum* L.
- " *leptophyllum* Nutt.*
- " *urbicum* L.

Kochia scoparia (L.) Schrad.

Atriplex patula L.

Salsola pestifer A. Nels.

Amaranthaceae

Amaranthus blitoides Wats.

- " *graecizans* L.
- " *hybridus* L.
- " *retroflexus* L.
- " *spinosus* L.

Acnida altissima Riddell

- " *tamariscina* (Nutt.) Wood.

Froelichia gracilis Moq.

Phytolaccaceae

Phytolacca americana L.

Nyctaginaceae

Mirabilis nyctaginea (Michx.) MacM.

Illecebraceae

Paronychia canadensis (L.) Wood

Scleranthus annuus L.

Aizoaceae

Mollugo verticillata L.

Portulacaceae

Talinum rugospermum Holz.

Claytonia virginica L.

Portulaca oleracea L.

Caryophyllaceae

Cerastium nutans Raf.

- " *vulgatum* L.
- " *stellaria aquatica* (L.) Scop.
- " *longifolia* Muhl.
- " *media* (L.) Cyril.

Arenaria lateriflora L.

- " *serpyllifolia* L.
- " *stricta* Michx.

Agrostemma githago L.

- Silene antirrhina* L.
 " *cucubalus* Wibel.
 " *dichotoma* Ehrh.
 " *nivea* (Nutt.) Otth.
 " *noctiflora* L.
 " *stellata* (L.) Ait.
Lychnis alba Mill.
Saponaria officinalis L.
 " *vaccaria* L.
 Ranunculaceae
Caltha palustris L.
Hydrastis canadensis L.
Isopyrum bitermum (Raf.) T. & G.
Aquilegia canadensis L.
Actaea alba (L.) Mill.
 " *rubra* (Ait.) Willd.
 " *rubra* var. *neglecta* Gill.
Ranunculus abortivus L.
 " *acris* L.
 " *fascicularis* Muhl.
 " *flabellaris* Raf.
 " *hispidus* Michx.
 " *pennsylvanicus* L. f.
 " *recurvatus* Poir.
 " *repens* L.
 " *rhomboideus* Goldie
 " *sceleratus* L.
 " *septentrionalis* Poir.
 " *trichophyllus* Chaix.
Thalictrum dasycarpum F. & L.
 " *dioicum* L.
 " *revolutum* DC.
Anemone canadensis L.
 " *caroliniana* Walt.
 " *cylindrica* Gray
 " *ludoviciana* Nutt.
 " *quinquefolia* L.
 " *virginiana* L.
Anemonella thalictroides (L.) Spach.
Hepatica acutiloba DC.
 " *americana* (DC.) Ker.
Clematis virginiana L.
 Nymphaeaceae
Nuphar advena Ait.
Nymphaea tuberosa Paine
 Berberidaceae
Podophyllum peltatum L.
Jeffersonia diphylla (L.) Pers.
Caulophyllum thalictroides (L.) Michx.
 Menispermaceae
Menispermum canadense L.
 Lauraceae
Lindera benzoin (L.) Blume
 Papaveraceae
Sanguinaria canadensis L.
 Fumariaceae
Dicentra canadensis (Goldie) Walp.
 " *cucullaria* (L.) Bernh.
Corydalis flavula (Raf.) DC.
 " *montana* Engelm.
Fumaria officinalis L.
 Cruciferae
Allaria officinalis Andr.
- Brassica alba* (L.) Rabenh.
 " *arvensis* (L.) Raben.
 " *campestris* L.
 " *juncea* (L.) Cosson
 " *nigra* (L.) Koch.
Diplotaxis muralis (L.) DC.
Rorippa palustris (L.) Bess.
 " *sessiflora* (Nutt.) Hitchc.
 " *sylvestris* (L.) Besser
Sisymbrium altissimum L.
 " *officinale* (L.) Scop.
Conringia orientalis (L.) Dum.
Erysimum cheiranthoides L.
 " *inconspicuum* (Wats.) MacM.
Hesperis matronalis L.
Descurainia brachycarpa (Rich.) Schulz.
Draba reptans (Lam.) Fern.
Dentaria laciniata Muhl.
Iodanthus pinnatifidus (Michx.) Steud.
Cardamine bulbosa (Schreb.) BSP.
 " *douglassii* (Torr.) Britt.
 " *pennsylvanica* Muhl.
Arabis canadensis L.
 " *confinis* Wats.
 " *dentata* T. & G.
 " *laevigata* (Muhl.) Poir.
 " *lyrata* L.
 " *pycnocarpa* Hopkins
Arabidopsis thaliana (L.) Heynh.
Nasturtium officinale R. Br.
Armoracia aquatica (Eaton) Greene
 " *rusticana* Gaertn.
Berteroa incana (L.) DC.
Camelina microcarpa Andr.
Lepidium campestre (L.) R. Br.
 " *perfoliatum* L.
 " *virginicum* L.
Thlaspi arvense L.
Capsella bursa-pastoria (L.) Medic.
 Capparidaceae
Polanisia graveolens Raf.
 " *trachysperma* T. & G.
 Crassulaceae
Penthorum sedoides L.
 Parnassiaceae
Parnassia glauca Raf.
 Saxifragaceae
Heuchera hispida Pursh
Mitella diphylla L.
Sullivantia renifolia Rosend.
Saxifraga pennsylvanica L.
 " *virginiana* Michx.
 Grossulariaceae
Ribes americanum Mill.
 " *cynosbati* L.
 " *missouriense* Nutt.*
 " *odoratum* Wendl.
 Hamamelidaceae
Hamamelis virginiana L.
 Platanaceae
Platanus occidentalis L.

- Rosaceae
Physocarpus opulifolius (L.) Maxim.
Spiraea alba DuRoi
 " *tomentosa* L.
Aruncus dioicus (Walt.) Fern.
Fragaria americana (Porter) Britt.
 " *virginiana* Duch.
Potentilla anserina L.
 " *argentea* L.
 " *arguta* Pursh
 " *fruticosa* L.
 " *monspeliensis* L.
 " *palustris* (L.) Scop.*
 " *recta* L.
 " *simplex* Michx.
Geum canadense Jacq.
 " *laciniatum* Murr.
 " *strictum* Ait.
 " *triflorum* Pursh
Agrimonia gryposepala Wallr.
 " *parviflora* Ait.
 " *pubescens* Wallr.
 " *rostellata* Wallr.
Rubus allegheniensis Porter
 " *flagellaris* Willd.
 " *hispidus* L.
 " *occidentalis* L.
 " *pubescens* Raf.
 " *strigosus* Michx.
 spp.
Rosa blanda Ait.
 " *carolina* L.
 " *palustris* Marsh.
 " *suffulta* Greene
Amelanchier arborea (Michx. f.) Fern.
 " *laevis* Wieg.
 " *spicata* (Lam.) K. Koch.
Pyrus communis L.
Malus ioensis (Wood) Britt.
Aronia melanocarpa (Michx.) Ell.
 " *prunifolia* (Marsh.) Rehd.
Crataegus calpodendron (Ehrh.) Medic.
 " *locuples* Sarg.
 " *mollis* (T. & G.) Scheele
 " *pedicellata* Sarg.
 " *pruinosa* (Wendl.) K. Koch.
 " *punctata* Jacq.
 " *succulenta* Link
Prunus americana Marsh.
 " *lanata* (Sudw.) M. & B.
 " *nigra* L.
 " *pumila* L.
 " *pennsylvanica* L.
 " *serotina* Ehrh.
 " *virginiana* L.
 Leguminosae
Desmanthus illinoensis (Michx.) MacM.
Gymnocladus dioica (L.) K. Koch.
Gleditsia triacanthos L.
Cassia fasciculata Michx.
 " *hebecarpa* Fern.
Baptisia leucantha T. & G.
 " *leucophaea* Nutt.
Lupinus perennis L.
Trifolium arvense L.
 " *hybridum* L.
 " *pratense* L.
 " *procumbens* L.
 " *repens* L.
Melilotus alba Desr.
 " *officinalis* (L.) Lam.
Medicago lupulina L.
 " *sativa* L.
Psoralea tenuiflora Pursh
Amorpha canescens Pursh
 " *fruticosa* L.
Petalostemum candidum (Willd.) Michx.
 " *purpureum* (Vent.) Rydb.
Tephrosia virginiana (L.) Pers.
Robinia pseudoacacia L.
Caragana arborescens Lam.
Astragalus canadensis L.
Desmodium canadense (L.) DC.
 " *canescens* (L.) DC.
 " *dillenii* Darl.
 " *glutinosa* (Muhl.) Wood
 " *illinoense* Gray
 " *nudiflorum* (L.) D.C.
 " *paniculatum* (L.) DC.
Lespedeza capitata Michx.
 " *hirta* (L.) Horn.
 " *intermedia* (Wats.) Britt.
 " *repens* (L.) Bart.
 " *violacea* (L.) Pers.
Vicia americana Muhl.
 " *caroliniana* Walt.
 " *cracca* L.*
 " *sativa* L.
 " *villosa* Roth.
Lathyrus myrtifolius Muhl.
 " *ochroleucus* Hook.
 " *plaustris* L.
 " *venosus* Muh.
Apios americana Medic.
Strophostyles helvola (L.) Britt.
Amphicarpa bracteata (L.) Fern.
 " *comosa* (L.) G. Don.
 Geraniaceae
Geranium carolinianum L.
 " *maculatum* L.
 " *sibiricum* L.
 Oxalidaceae
Oxalis corniculata L.
 " *cymosa* Small
 " *stricta*
 " *violacea* L.
 Linaceae
Linum sulcatum Riddell
 " *medium* (Planch.) Britt.
 " *usitatissimum* L.
 Balsaminaceae
Impatiens biflora Walt.
 " *pallida* Nutt.
 Limnanthaceae
Floerkea proserpinacoides Willd.

Rutaceae

- Zanthoxylum americanum* Mill.
Ptelea trifoliata L.

Polygalaceae

- Polygala cruciata* L.
 " *incarnata* L.
 " *polygama* Walt.
 " *sanquinea* L.
 " *senega* L.
 " *verticillata* L.

Euphorbiaceae

- Acalypha virginica* L.
Euphorbia commutata Engelm.
 " *corollata* Pursh
 " *cyparissias* L.
 " *esula* L.
 " *geyeri* Engelm.
 " *humistrata* Engelm.*
 " *maculata* L.
 " *marginata* Pursh
 " *obtusata* Pursh
 " *peplus* L.
 " *polygonifolia* L.
 " *supina* Raf.
Poinsettia dentata (Michx.) Small
 " *heterophylla* (L.) Small

Callitrichaceae

- Callitriche heterophylla* Pursh
 " *palustris* L.

Celastraceae

- Euonymus atropurpureus* Jacq.
 " *obovatus* Nutt.
Celastrus scandens L.

Aquifoliaceae

- Ilex verticillata* (L.) Gray

Anacardiaceae

- Rhus aromatica* Ait.
 " *arenaria* (Greene) Jones
 " *glabra* L.
 " *radicans* L.
 " *typhina* L.

Staphyleaceae

- Staphylea trifolia* L.

Aceraceae

- Acer nigrum* Michx. f.
 " *negundo* L.
 " *rubrum* L.
 " *saccharum* Marsh.
 " *saccharinum* L.

Rhamnaceae

- Rhamnus cathartica* L.
 " *frangula* L.
 " *lanceolata* Pursh
Ceanothus americanus L.
 " *ovatus* Desf.

Vitaceae

- Vitis aestivalis* Michx.
 " *riparia* Michx.
 " *vilpina* L.
Parthenocissus quinquefolia (L.) Planch.

Tiliaceae

- Tilia americana* L.

Malvaceae

- Malva rotundifolia* L.
Callirhoe triangulata (Leav.) Gray
Napaea dioica L.
Sida spinosa L.
Abutilon theophrasti Medic.
Hibiscus trionum L.

Hypericaceae

- Hypericum canadense* L.
 " *ellipticum* Hook.
 " *mutilus* L.
 " *perforatum* L.
 " *prolificum* L.
 " *punctatum* Lam.
 " *sphaerocarpum* Michx.
Sarothra gentianoides L.
Triadenum virginicum (L.) Raf.

Cistaceae

- Helianthemum canadense* (L.) Michx.
 " *bicknellii* Fern.
Lechea leggettii Britt. & Hollick
 " *stricta* Legg.
 " *tenuifolia* Michx.
 " *villosa* Ell.

Violaceae

- Viola canadensis* L.
 " *conspersa* Reich.
 " *cucullata* Ait.
 " *eriocarpa* Schw.
 " *fimbriatula* Sm.
 " *lanceolata* L.
 " *nephrophylla* Greene
 " *pallens* (Banks) Brain.
 " *papilionacea* Pursh
 " *pedata* L.
 " *pedatifida* Don.
 " *pubescens* Ait.
 " *sagittata* Ait.
 " *striata* Ait.
 " *sororia* Willd.

Cactaceae

- Opuntia rafinesquii* Engelm.

Thymeleaceae

- Dirca palustris* L.

Lythraceae

- Rotala ramosior* (L.) Koehne
Ammania coccinea Rottb.
Decodon verticillatus (L.) Ell.*
Lythrum alatum Pursh
 " *salicaria* L.

Onagraceae

- Epilobium adenocaulon* Hauss.
 " *angustifolium* L.
 " *coloratum* Muhl.
 " *leptophyllum* Raf.
 " *strictum* Muhl.
Ludwigia alternifolia L.
 " *palustris* (L.) Ell.
 " *polycarpa* S. & P.
Oenothera biennis L.
 " *laciniata* Hill.
 " *pumila* L.

Oenothera rhombipetala Nutt.

" *speciosa* Nutt.

Gaura biennis L.

Circaea latifolia Hill

Haloragidaceae

Myriophyllum heterophyllum Michx.

" *verticillatum* L.

Proserpinaca palustris L.

Cornaceae

Cornus alternifolia L. f.

" *obliqua* Raf.

" *racemosa* Lam.

" *rugosa* Lam.

" *stolonifera* Michx.

Araliaceae

Aralia nudicaulis L.

" *racemosa* L.

Panax quinquefolium L.

Umbelliferae

Eryngium yuccifolium Michx.

Daucus carota L.

Sanicula canadensis L.

" *gregaria* Bickn.

" *marilandica* L.

" *trifoliata* Bickn.

Osmorhiza claytoni (Michx.) Clark

" *longistylis* (Torr.) DC.

Cryptotaenia canadensis (L.) DC.

Chaerophyllum procumbens (L.) Crantz.

Zizia aptera (Gray) Fern.

" *aurea* (L.) Koch.

Taenidia integerrima (L.) Drude

Sium suave Walt.

Cicuta bulbifera L.

" *maculata* L.

Thaspium sylvaticum (Benke) Jones

" *barbinode* (Michx.) Nutt.

Polytaenia nuttallii DC.

Angelica atropurpurea L.

Heracleum lanatum Michx.

Pastinaca sativa L.

Conioselinum chinense (L.) BSP.

Oxypolis rigidior (L.) Raf.

Carum carvi L.

Ericaceae

Chimaphila corymbosa Pursh

Pyrola elliptica Nutt.

" *secunda* L.

Monotropa uniflora L.

Gaylussacia baccata (Wang.) K. Koch.

Arctostaphylos uva-ursi (L.) Spreng.

Vaccinium angustifolium Ait.

" *canadense* Richards

" *corymbosum* L.

Primulaceae

Androsace occidentalis Pursh

Trientalis borealis Raf.

Lysimachia ciliata L.

" *lanceolata* Walt.

" *nummularia* L.

" *quadriflora* Sims.

" *quadrifolia* L.

" *terrestris* (L.) BSP.

Lysimachia thyrsiflora L.

" *vulgaris* L.

Dodecatheon meadia L.

Oleaceae

Fraxinus americana L.

" *lanceolata* Borkh.

" *nigra* Marsh.

" *pennsylvanica* Marsh.

" *quadrangulata* Michx.

Gentianaceae

Gentiana andrewsii Griseb.

" *crinita* Froel.

" *flavida* Gray

" *procera* Holm.

" *puberula* Michx.

" *quinquefolia* L.

" *saponaria* L.

Bartonia virginica (L.) BSP.

Nymphoides peltatum (Gmel.) Britten &

Rendle

Apocynaceae

Apocynum androsaemifolium L.

" *cannabinum* L.

" *pubescens* R. Br.

" *sibericum* Jacq.*

Asclepiadaceae

Asclepias amplexicaulis Sm.

" *incarnata* L.

" *phytolaccoides* Pursh

" *purpurascens* L.

" *pulehra* Ehrh.

" *quadrifolia* Jacq.

" *sullivantii* Engelm.

" *syriaca* L.

" *tuberosa* L.

" *verticillata* L.

Acerates hirtella Pennell.

" *languinosa* Nutt.

" *viridiflora* (Raf.) Eaton*

Convolvulaceae

Convolvulus arvensis L.

" *sepium* L.

" *spithameus* L.

Cuscuta glomerata Choisy

" *gronovii* Willd.

spp.

Ipomoea purpurea (L.) Roth.

Polemoniaceae

Phlox bifida Beck.

" *divaricata* L.

" *glaberrima* L.

" *pilosa* L.

Collomia linearis Nutt.

Polemonium reptans L.

Hydrophyllaceae

Hydrophyllum appendiculatum Michx.

" *virginianum* L.

Ellisia nyctelea L.

Boraginaceae

Cynoglossum officinale L.

Lappula echinata Gilib.

" *virginiana* (L.) Greene

- Mertensia virginica* (L.) Link
Myosotis arvensis (L.) Hill
 scorpioides L.
 verna Nutt.
Lithospermum angustifolium Michx.
 arvense L.
 canescens (Michx.) Lehm.
 croceum Fern.
 latifolium Michx.
Onosmodium hispidissimum Mack.
 occidentale Mack.
 Verbenaceae
Verbena bracteata Lag. & Rodr.
 hastata L.
 simplex Lehm.
 stricta Vent.
 urticaefolia L.
Phyla lanceolata (Michx.) Greene
 Labiatae
Teucrium canadense L.
 occidentale Gray
Isanthus brachiatus (L.) BSP.
Scutellaria ambigua Nutt.
 epilobiifolia Hamilt.
 lateriflora L.
 ovata Hill
 parvula Michx.
Marrubium vulgare L.
Agastache nepetoides (L.) Ktze.
 scrophulariaefolia (Willd.) Ktze.
Nepeta cataria L.
Physotegia speciosa Sweet
Physostegia virginiana (L.) Benth.
Glechoma hederacea L.
Prunella vulgaris L.
Leonurus cardiaca L.
Stachys arenicola Britt.
 aspera Michx.
 cordata Ridd.
 germanica L.
 homotrichia (Fern.) Rydb.
 tenuifolia Willd.
Salvia reflexa Hornem.
Blephilia ciliata (L.) Raf.
 hirsuta (Pursh) Torr.
Monarda fistulosa L.
 fistulosa f. *alba*
 punctata L.
Hedeoma hispida Pursh
 pulegioides (L.) Pers.
Pycnanthemum flexuosum (Walt.) BSP.
 pilosum Nutt.
 virginianum (L.) D. & J.
Lycopus americanus Muhl.
 rubellus Moench.
 uniflorus Michx.
 virginicus L.
Mentha canadensis L.
 citrata Ehrh.
 gentilis L. *Glabrior* (Hook) Rydb.
 piperita L.
 spicata L.
 Solanaceae
Solanum carolinense L.
 dulcamara L.
 Solanum nigrum L.
 rostratum Dunal
Physalis heterophylla Nees.
 lanceolata Michx.
 pubescens L.
 subglabrata M. & B.
 virginiana Mill.
Lycium halimifolia Mill.
Datura stramonium L.
 Scrophulariaceae
Verbascum blattaria L.
 thapsus L.
Chelone glabra L.
Penstemon hirsutus (L.) Willd.
 digitalis Nutt.
 pallidus Small
Collinsia verna Nutt.
Scrophularia lanceolata Pursh
 marilandica L.
Linaria canadensis (L.) Dum.-Cours.
 minor (L.) Desf.
 vulgaris Mill.
Lindernia dubia (L.) Pennell
Gratiola neglecta Torr.
Leucospora multifida (Michx.) Nutt.
Mimulus ringens L.
Veronicastrum virginicum (L.) Farw.
Veronica americana (Raf.) Schw.
 arvensis L.
 connata Raf.
 peregrina L.
 serpyllifolia L.
Synthyris bullii (Eaton) Hell.
Aureolaria flava (L.) Farw.
 grandiflora (Benth.) Pennell
 pedicularia (L.) Raf.
Gerardia asper Dougl.
 gattingeri Small
 purpurea L.
 tenuifolia Vahl.
Dasistoma macrophylla (Nutt.) Raf.
Castilleja coccinea (L.) Spreng.
 sessiflora Pursh
Pedicularis canadensis L.
 lanceolata Michx.
 Lentibulariaceae
Utricularia vulgaris L.
 Orobanchaceae
Orobanche uniflora L.
 Phrymaceae
Phryma leptostachya L.
 Acanthaceae
Dianthera americana L.
Ruellia ciliosa Pursh
 Plantaginaceae
Plantago aristata Michx.
 lanceolata L.
 major L.*
 purshii R. & S.
 rugelii Dene.
 Rubiaceae
Houstonia lanceolata (Poir.) Britt.
Cephalanthus occidentalis L.
Diodia teres Walt.

- Mitchella repens* L.
Galium aparine L.
 " *asprellum* Michx.
 " *boreale* L.
 " *circaezans* Michx.
 " *concinnum* T. & G.
 " *obtusum* Bigel.
 " *tinctorium* L.
 " *trifidum* L.
 " *triflorum* Michx.
 Caprifoliaceae
Sambucus canadensis L.
 " *pubens* Michx.
Viburnum acerifolium L.
 " *affine* Bush.
 " *lentago* L.
 " *prunifolium* L.
 " *rafinesquianum* Schult.
 " *trilobum* Marsh.
Symphoricarpos occidentalis Hook.
 " *rivularis* Suksd.
Lonicera dioica L.
 " *flava* Sims.
 " *prolifera* (Kirsch.) Rehd.
Diervilla lonicera Mill.
Triosteum aurantiacum Bickn.
 " *perfoliatum* L.
 Valerianaceae
Valeriana ciliata T. & G.
 Cucurbitaceae
Echinocystis lobata (Michx.) T. & G.
Cucurbita foetidissima HBK.
Sicyos angulatus L.
 Campanulaceae
Campanula americana L.
 " *aparinoides* Pursh.
 " *rotundifolium* L.
 " *uliginosa* Rydb.
Specularia perfoliata (L.) A. DC.
 Lobeliaceae
Lobelia cardinalis L.
 " *inflata* L.
 " *kalmii* L.
 " *siphilitica* L.
 " *spicata* Lam.
 Compositae
Iva ciliata Willd.
 " *xanthifolia* Nutt.
Ambrosia coronopifolia T. & G.
 " *elatiar* L.
 " *trifida* L.
Xanthium commune Britt.
Vernonia fasciculata Michx.
Eupatorium altissimum L.
 " *maculatum* L.
 " *perfoliatum* L.
 " *purpureum* L.
 " *rugosum* Houtt.
 " *serotinum* Michx.
Kuhnia eupatorioides L.
Liatris aspera Michx.
 " *bebbiana* Rydb.
 " *cylindracea* Michx.
 " *spicata* (L.) Willd.
Grindelia squarrosa (Pursh) Dunal
Solidago altissima L.
 " *canadensis* L.
 " *glaberrima* Martens
 " *hirtella* (Greene) Bush
 " *junceae* Ait
 " *latifolia* L.
 " *media* (Greene) Bush
 " *nemoralis* Ait.
 " *riddellii* Frank
 " *rigida* L.
 " *serotina* Ait.
 " *speciosa* Nutt.
 " *ulmifolia* Muhl.
 " *uliginosa* Nutt.
Boltonia asteriodes (L.) L'Her.
Aster anomalus Engelm.
 " *azurus* Lindl.
 " *cordifolius* L.
 " *drummondii* Lindl.
 " *dumosus* L.
 " *ericoides* L.
 " *junceus* Ait.
 " *laevis* L.
 " *lateriflorus* (L.) Britt.
 " *linariifolius* L.
 " *novae-angliae* L.
 " *oblongifolius* Nutt.
 " *paniculatus* Lam.
 " *pilosus* Willd.
 " *prealtus* Poir.
 " *prenanthoides* Muhl.
 " *ptarmicoides* (Nees.) T. & G.
 " *sagittifolius* Wed.
 " *sericeus* Vent.
 " *shortii* Lindl.
 " *umbellatus* Mill.
 " *vimineus* Lam.*
Erigeron annuus (L.) Pers.
 " *canadensis* L.
 " *divaricatus* Michx.*
 " *philadelphicus* L.
 " *pulchellus* Michx.
 " *strigosus* Muhl.
Antennaria fallax Greene
 " *neglecta* Greene
 " *neodioica* Greene
 " *plantaginifolia* Hook.
Gnaphalium obtusifolium L.
Polymnia canadensis L.
Silphium integrifolium Michx.
 " *laciniatum* L.
 " *perfoliatum* L.
 " *terebinthinaceum* Jacq.
Parthenium integrifolium L.
Heliopsis helianthoides (L.) Sweet
Rudbeckia hirta L.
 " *laciniata* L.
 " *subtomentosa* Pursh
 " *triloba* L.
Brauneria pallida (Nutt.) Britt.
 " *purpurea* (DC.) Britt.
Ratibida pinnata (Raf.) Blake
 " *columnifera* (Nutt.) W. & S.
Galinsoga ciliata (Raf.) Blake

Helianthus annuus L.
 " *decapetalus* L.
 " *divaricatus* L.
 " *giganteus* L.
 " *grosseserratus* Martens
 " *hirsutus* Raf. L. *Mollis* Lam.
 " *occidentalis* Riddell
 " *petiolaris* Nutt.
 " *rigidus* (Cass.) Desf.
 " *strumosus* L.
 " *tuberosus* L.
Coreopsis lanceolata L.
 " *palmata* Nutt.
Bidens aristosa (Michx.) Britt.
 " *comosa* (Gray) Wieg.
 " *connata* Muhl.
 " *coronata* (L.) Britt.
 " *frondosa* L.
 " *laevis* (L.) BSP.
Helenium autumnale L.
Achillea millefolium L.
Chrysanthemum leucanthemum L.
Anthemis cotula L.
 " *tinctoria* L.
Tanacetum vulgare L.
Artemisia annua L.
 " *biennis* Willd.
 " *caudata* Michx.
 " *dracunculoides* Pursh
 " *gnaphaloides* Nutt.
 " *serrata* Nutt.
Cacalia atriplicifolia L.
 " *muhlenbergii* (Sch-Bip.) Fern.
 " *suaveolens* L.
 " *tuberosa* Nutt.
Erechtites hieracifolia (L.) Raf.
Senecio arueus L.
 " *pauperculus* Michx.
 " *plattensis* Nutt.
Arctium minus (Hill) Bern.
Cirsium altissimum (L.) Spreng.
 " *arvense* (L.) Scop.
 " *dicolor* (Muhl.) Spreng.
 " *hillii* (Canby) Fern.
 " *muticum* Michx.
 " *vulgare* (Savi) Airy-Shaw
Centaurea cyanus L.
 " *maculosa* Lam.
 " *nigra* L.
Tragopogon pratensis L.
Krigia biflora (Walt.) Blake
 " *virginica* (L.) Willd.
Cichorium intybus L.
Lactuca canadensis L.
 " *biennis* (Moench) Fern.
 " *floridana* (L.) Gaertn.
 " *pulchella* (Pursh) DC.
 " *sagittifolia* Ell.
 " *scariola* L.

Sonchus arvensis L.
 " *asper* (L.) Hill
 " *oleraceus* L.
Prenanthes alba L.
 " *altissima* L.
 " *aspera* Michx.
 " *crispinea* Michx.
 " *racemosa* Michx.
Hieracium aurantiacum L.*
 " *canadense* Michx.
 " *gronovii* L.
 " *longipilum* Torr.
 " *scabrum* Michx.
Agoseris cuspidata (Pursh) D. Dietr.
Taraxacum vulgare (Lam.) Schrank
 " *laevigatum* (Willd.) DC.

REFERENCES

- (1) BEBB, MICHAEL S. 1860—The flora of Ogle and Winnebago Counties. *Prairie Farmer* 22: 182-183.
- (2) BRETZ, J HARLEN. 1923—Geology and mineral resources of the Kings quadrangle: Illinois Geol. Survey Bul. 43 (C): 205-304.
- (3) FERNALD, EVELYN I. 1935—A preliminary report of a study of the plants of Winnebago County, Illinois: *Trans. Ill. Acad. Sci.* 28 (2): 89, (1936).
- (4) ———. 1940—Preliminary check list of herbaceous plants of Winnebago County, Illinois. Rockford College (mimeo.). 45 pp.
- (5) GLEASON, H. A. 1910. The vegetation of the inland sand deposits of Illinois: *Illinois Sta. Lab. Nat. Hist. Bul.* 9 (3): 23-174.
- (6) HOPKINS, CYRIL G., et al. 1916. Winnebago County soils: *Ill. Agr. Exp. Sta. Soil Rept.* 12. 76 pp.
- (7) JONES, G. NEVILLE. 1945—Flora of Illinois: *Amer. Midl. Nat. Monog.* No. 2. 1-317.
- (8) Nature Study of Rockford. 1914. The trees of Rockford and vicinity. 11 pp.
- (9) ———. 1916. Shrubs and vines of Rockford and vicinity. 23 pp.
- (10) ROLFE, DEETTE. 1929—The Rock River country of northern Illinois: *Illinois Geol. Survey Educ. Ser.* 2. 59 pp.
- (11) SALISBURY, ROLLIN D. AND HARLIN H. BARROWS. 1918. The environment of Camp Grant: *Illinois Geol. Survey Bul.* 39. 75 pp.