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A Land Odyssey:

An exploration of prairie, wetlands, savanna and beyond...

PLANT SURVEY OF WOLF ROAD PRAIRIE

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ABSTRACT: Some 462 plant species, 360 of which are native, have been reported from Wolf Road Prairie since 1973, but not all have been confirmed. A systematic search for 200 of the native prairie and savanna plants in 2000 failed to locate previously recorded 22 species. Of those located, populations ranged from one plant to thousands.

KEY WORDS: prairie, Wolf Road Prairie, populations, conservatism, species list

INTRODUCTION

Wolf Road Prairie Nature Preserve, located at the northeast corner of Wolf Road and 31st Street in Westchester, Cook County, Illinois, has one of the older and larger plant lists among sites in northeastern Illinois, dating back to Robert Betz's unpublished 1973 list which contained 251 species. By 1994, 415 species have been recorded from the prairie of which 324 are native.

New species are identified each year, adding to the list. However, as is the case with most species lists, locally extirpated plants are not removed from the list. Hence, while this preserves a record of what once grew at a site, it does not necessarily show what currently grows there. Updating this list is complicated as since positive identification of some plants can be problematic, we are unsure if a few plants really belong on the list if there is no voucher specimen, photograph, confirmation by a botanist, and some plants may be overlooked. Finally, species lists have limited informational value as they lack indication of distribution and population sizes.

The purpose of this study was to revise the species list, adding new species and recording the absence of others. Population sizes were also recorded. Since virtually all of our native prairies are tiny islands in a sea of non-native vegetation, ecological theory suggests that species will eventually be lost (MacArthur and Wilson, 1967; Simberloff and Abele, 1976; Pimm, Jones, and Diamond, 1988). We tried to answer the questions (1) are species being lost? (2) if so, which ones? and (3) how fast are they being lost? If new species were found we tried to judge whether they are truly new, or had simply been missed previously.

METHODS

We concentrated on prairie forbs due to their rarity and conservatism, as well as time limitations. Alien species were ignored since most are on the list only because they appear at the edges of the preserve or in highly disturbed areas. Some wetland plants on our list may actually be more common than we indicated, since most of the wetland is in the north half.

RESULTS

A total of species were recorded, including 360 native and 102 alien species (Table 1). Twenty-two previously recorded species were not found (Table 2). Of those found, populations ranged from one to thousands (Table 3). A list of species of concern was prepared (Table 4). Over half are very conservative species, with C values of 7 or greater (Swink and Wilhelm 1994).

DISCUSSION

The species list is evidence that Wolf Road Prairie is a rich and diverse site, with 462 species (360 native) having been seen there in the last 28 years. The FQI value (Swink and Wilhelm, 1994) is relative high at 90. The high diversity of forbs may be related to the variety of habitats, the high quality of the site which includes Grade A and Grade B prairie, as identified by the Illinois Natural Areas Inventory, and good management practices.

The apparent loss of some species does provide some cause for concern. In addition to "lost" forbs, we fear that another 10 to 20 native non-forb species may have disappeared from among the 150+ believed to have once colonized the site. This loss of flora is not uncommon as others have reported a similar trend at other high quality sites. (Leach and Givnish, 1996).

Several dozen species have very small populations, perhaps too small to sustain themselves. We recommend that management plans take into consideration the needs of the species with low populations. We propose a program of growing selected species in garden plots to increase the number of plants and seeds, to supplement natural reproduction. We also recommend that additional information be gathered on individual species of concern, in order to consider ways to maintain their populations. For example, *Castilleja coccinea* is a biennial and methods of seed collection and production will have to be greatly improved for revitalizing and stabilizing the current population.

There is evidence that a few species have moved into the site in recent years as they were not observed in their previous locations of prior years (*Amorpha canescens*, *Asclepias exaltata*, *Carduus nutans*, *Solidago ulmifolia*, *Trillium recurvatum*). Note that the *Asclepias*, *Solidago*, and *Trillium* are woodland species. Based on finding these woodland species in combination with other recent additions such as *Arisaema triphyllum* and *A. dracontium*, *Epipactis helleborine*, and *Claytonia virginica*, we feel the once open savanna is rapidly being transformed into a forest. If this rare savanna is to be preserved, management will need to be adjusted accordingly.

It is recommended that plant populations continue to be monitored, gaps in the data be addressed, management be stepped up, and the needs of individual species considered, and populations be augmented by growing plants in a nursery and returning seeds and plants.

ACKNOWLEDGMENT

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LITERATURE CITED

- Leach, M. K. and T. J. Givnish. 1996. Ecological determinants of species loss in remnant prairies. *Science* 273: 1555-1558.
- MacArthur, R. H. and E. O. Wilson. 1967. *The Theory of Island Biogeography*. Princeton University Press, Princeton, NJ, USA.
- Pimm, S. L., J. L. Jones, and J. Diamond. 1988. On the risk of extinction. *American Naturalist* 132: 757-785.
- Simberoff, D. S. and L. G. Abele. 1967. Island biogeography and conservation practice. *Science* 191: 285-286.
- Swink, F. and G. Wilhelm. 1994. *Plants of the Chicago Region*, 4th ed. Indiana Academy of Sciences, Indianapolis, IN, USA.

Table 1. Plants of Wolf Road Prairie

C	scientific name	common name	NWC
	ABUTILON THEOPHRASTI	velvetleaf, butterprint	FACU-
0	Acer negundo	box elder	FACW-
0	Acer saccharinum	silver maple	FACW
	ACHILLEA MILLEFOLIUM	yarrow, milfoil	FACU
0	Acnida altissima (Amaranthus tuberculatus)	water hemp	OBL
7	Agalinus tenuifolia (Gerardia)	slender false foxglove	FACW
2	Agrimonia gryposepala	tall agrimony	FACU+
	AGROPYRON REPENS	quack grass	FACU
8	Agropyron trachycaulum unilaterale (Elymus)	bearded wheat grass	UPL
	AGROSTISALBA	redtop	FACW
1	Agrostis hyemalis	tickle grass	FAC-
3	Agrostis perennans	thin grass	FAC-
5	Agrostis scabra	fly-away grass	FAC
4	Alisma subcordatum (A. plantago-aquatica)	water plantain	OBL
	ALLIARIA PETIOLATA (A. OFFICINALIS)	garlic mustard	FAC
2	Allium canadense	wild onion, wild garlic	FACU
7	Allium cernuum	nodding wild onion	(FAC-)
0	Ambrosia artemisiifolia elatior	common ragweed	FACU
0	Ambrosia trifida	giant ragweed	FAC+
9	Amorpha canescens	lead plant	UPL
4	Andropogon gerardii	big bluestem grass, turkeyfoot	FAC-
5	Andropogon scoparius (Schizachrium)	little bluestem grass	FACU-
4	Anemone canadensis	meadowanemone	FACW
6	Anemone cylindrica	thimbleweed	UPL
5	Anemone virginiana	tall anemone, thimbleweed	UPL
7	Anemonella thalictroides	rue anemone	UPL
4	Antennaria neglecta	cat's foot, small pussy toes	UPL
3	Antennaria plantaginifolia	pussy toes, everlasting	UPL
7	Apios americana	ground nut	FACW
5	Apocynum androsaemifolium	spreading dogbane	UPL
2	Apocynum sibiricum	prairie Indian hemp, dogbane	FAC+
6	Arabis glabra	tower mustard	UPL
	ARCTIUM MINUS	common burdock	UPL
8	Arenaria lateriflora	wood sandwort, side-flowering s.	UPL
7	Arisaema dracontium	green dragon	FACW
4	Arisaema triphyllum (A. atrorubens)	jack-in-the-pulpit	FACW-
	ARMORACIA RUSTICANA (A. LAPATHIFOLIA)	horse radish	FAC
	ARRHENATHERUM ELATIUS	tall oat grass	FACU
9	Asclepias exaltata	poke milkweed	UPL
4	Asclepias incarnata	swamp milkweed	OBL
8	Asclepias purpurascens	purple milkweed	FACU
8	Asclepias sullivantii	prairie milkweed	UPL
0	Asclepias syriaca	common milkweed	UPL
7	Asclepias tuberosa	butterfly weed	UPL
1	Asclepias verticillata	whorled milkweed	UPL
	ASPARAGUS OFFICINALIS	asparagus	FACU
8	Aster azureus	sky-blue aster	UPL
5	Aster ericoides	heath aster	FACU-
9	Aster laevis	smooth blue aster	UPL
4	Aster lateriflorus	side-flowering aster	FACW-
4	Aster novae-angliae	New England aster	FACW
0	Aster pilosus	hairy aster, frost aster	FACU+
9	Aster praealtus	willow aster	(OBL)
7	Aster puniceus firmus	shining aster	OBL
5	Aster sagittifolius	arrow-leaved aster	UPL
2	Aster sagittifolius drummondii	Drummond's aster	(FACU)
3	Aster simplex	panicked aster	OBL
10	Astragalus canadensis	Canadian milk vetch	(UPL)
	ATRIPLEX PATULA	common orach	FACW-
8	Baptisia leucantha	white wild indigo	FACU+
	BARBAREA VULGARIS	yellow rocket, winter cress	FAC
5	Bidens cernua	nodding bur marigold	OBL
1	Bidens frondosa	common beggar's ticks	FACW
1	Bidens vulgata	tall beggar's ticks	FACU

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C	scientific name	common name	NWC
2	<i>Boehmeria cylindrica</i>	false nettle	OBL
9	<i>Boltonia latissuama recognita</i>	false aster	(OBL)
	BRASSICA NIGRA	black mustard	UPL
	BRASSICA RAPA	field mustard, turnip	UPL
	BROMUS INERMIS	Hungarian brome, smooth b.	UPL
	BROMUS JAPONICUS	Japanese chess	FACU
10	<i>Bromus kalmii</i>	prairie brome	FAC
	BROMUS TECTORUM	downy brome	UPL
10	<i>Cacalia plantaginea (C. tuberosa)</i>	prairie Indian plantain	FAC
3	<i>Calamagrostis canadensis</i>	blue joint grass	OBL
6	<i>Camassia scilloides</i>	wild hyacinth	FAC+
	CAMPANULA RAPUNCULOIDES	European bellflower	UPL
6	<i>Cardamine bulbosa</i>	bulbous cress	OBL
	CARDUUS NUTANS	musk thistle, nodding t.	UPL
7	<i>Carex annectans xanthocarpa</i>	small yellow fox sedge	(FAC)
5	<i>Carex atherodes</i>	hairy-leaved lake sedge	OBL
10	<i>Carex bicknellii</i>	copper-shouldered oval sedge	(UPL)
1	<i>Carex blanda (C. laxiflora)</i>	common woodsedge	FAC
4	<i>Carex brevior (C. molesta)</i>	plains oval sedge	(FACU)
9	<i>Carex buxbaumii</i>	dark-scaled sedge	OBL
4	<i>Carex cristatella</i>	crested oval sedge	FACW+
5	<i>Carex hirtifolia</i>	hairy wood sedge	UPL
6	<i>Carex lacustris</i>	common lakesedge	OBL
4	<i>Carex pellita (C. lanuginosa)</i>	broad leaved wooly sedge	OBL
5	<i>Carex pensylvanica</i>	common oak sedge	UPL
4	<i>Carex rosea (C. convoluta)</i>	curly-styled wood sedge	UPL
6	<i>Carex sartwellii</i>	running marsh sedge	(OBL)
5	<i>Carex stricta</i>	common tussock sedge	OBL
8	<i>Carex tenera</i>	narrow-leaved oval sedge	(FAC-)
7	<i>Carex trichocarpa</i>	hairy-fruited lake sedge	OBL
2	<i>Carex vulpinoidea</i>	brown fox sedge	OBL
7	<i>Carya cordiformis</i>	bitternut hickory	(FACU)
5	<i>Carya ovata</i>	shagbark hickory	FACU
10	<i>Castilleja coccinea</i>	Indian paint brush	FAC
6	<i>Ceanothus americanus</i>	New Jersey tea	UPL
3	<i>Celtis occidentalis</i>	hackberry	FAC-
	CENTAUREA VOCHINENSIS	tyrol knapweed	UPL
	CERASTIUM VULGATUM	mouse-ear chickweed	FACU
	CHENOPODIUM ALBUM	lamb's quarters, white goosefoot	FAC
	CHRYSANTHEMUM LEUCANTHEMUM PINNATI	ox-eye daisy	UPL
	CICORIUM INTYBUS	chicory	UPL
6	<i>Cicuta maculata</i>	water hemlock	OBL
1	<i>Circaea lutetiana (C. quadrisulcata)</i>	enchanter's nightshade	FACU
	CIRSIIUM ARVENSE	field thistle, Canada thistle	UPL
2	<i>Cirsium discolor</i>	pasture thistle	UPL
10	<i>Cirsium muticum</i>	swamp thistle, fen t.	OBL
	CIRSIIUM VULGARE	bull thistle	FACU-
2	<i>Claytonia virginica</i>	spring beauty	FACU
7	<i>Comandra umbellata (C. richardsiana)</i>	false toadflax	FACU
	CONVALLARIA MAJALIS	lily-of-the-valley	UPL
1	<i>Convolvulus sepium</i>	hedgebindweed	FAC
6	<i>Coreopsis palmata</i>	prairie coreopsis	UPL
5	<i>Coreopsis tripteris</i>	tall coreopsis	FAC
6	<i>Cornus obliqua</i>	blue-fruited dogwood, pale/silky d.	FACW+
1	<i>Cornus racemosa</i>	gray dogwood	FACW-
6	<i>Cornus stolonifera</i>	red-osier dogwood	FACW
5	<i>Corylus americana</i>	American hazelnut	FACU-
2	<i>Crataegus crus-galli</i>	cockspur hawthorn	FAC
2	<i>Crataegus mollis</i>	downy hawthorn	FACU-
2	<i>Crataegus punctata</i>	dotted hawthorn	UPL
2	<i>Cryptotaenia canadensis</i>	honewort	FAC
7	<i>Cuscuta glomerata</i>	rope dodder	(FACW)
8	<i>Cuscuta polygonorum</i>	knotweed dodder	(OBL)
1	<i>Cyperus strigosus</i>	long-scaled nut sedge, straw-colored s.	FACW

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10	<i>Cypripedium candidum</i>	white lady's slipper	OBL
	DACTYLIS GLOMERATA	orchard grass	FACU
3	<i>Danthonia spicata</i>	poverty oat grass	UPL
	DAUCUSCAROTA	wild carrot, Queen Anne's lace	UPL
4	<i>Desmodium canadense</i>	showy tick trefoil	FAC-
	DIPSACUS LACINIATUS	cut-leaved teasel	UPL
6	<i>Dodecatheon meadia</i>	shooting star	FACU
	DUCHESNIA INDICA	Indian strawberry	FACU-
8	<i>Echinacea pallida</i>	pale purple coneflower	UPL
0	<i>Echinochloa crusgalli</i>	barnyard grass	FACW
5	<i>Echinocystis lobata</i>	wild cucumber	FACW-
2	<i>Eleocharis acicularis</i>	needle spike rush	OBL
8	<i>Eleocharis compressa</i>	flat-stemmed spike-rush	FACW
8	<i>Eleocharis elliptica</i>	golden-seeded spike rush	(OBL)
3	<i>Eleocharis obtusa</i>	blunt spike rush	OBL
2	<i>Ellisia nyctelea</i>	Aunt Lucy	FAC+
4	<i>Elymus canadensis</i>	Canada wild rye	FAC-
5	<i>Elymus villosus</i>	silky wild rye	FACU
4	<i>Elymus virginicus</i>	Virginia wild rye	FACW-
3	<i>Epilobium coloratum</i>	cinnamon willow herb	OBL
	EPIACTIS HELLEBORINE	helleborine orchid	UPL
0	<i>Equisetum arvense</i>	horsetail	FAC
3	<i>Equisetum hyemale</i>	tall scouring rush	FACW-
5	<i>Eragrostis frankii</i>	sandbar love grass	FACW
2	<i>Erechtites hieracifolia</i>	fireweed	FACU
0	<i>Erigeron annuus</i>	annual fleabane	FAC-
0	<i>Erigeron canadensis</i>	horseweed	FAC-
4	<i>Erigeron philadelphicus</i>	marsh fleabane	FACW
5	<i>Erigeron strigosus</i>	daisy fleabane	(UPL)
9	<i>Eryngium yuccifolium</i>	rattlesnake master	FAC+
5	<i>Erythronium albidum</i>	white trout lily, w. adder's tongue	UPL
8	<i>Euonymus atropurpureus</i>	burning bush, wahoo	FAC-
0	<i>Eupatorium altissimum</i>	tall boneset	(FACU)
4	<i>Eupatorium maculatum</i>	spotted Joe Pye weed	OBL
7	<i>Eupatorium purpureum</i>	purple Joe Pye weed	UPL
4	<i>Eupatorium rugosum</i>	white snakeroot	UPL
0	<i>Eupatorium serotinum</i>	late boneset	FAC+
2	<i>Euphorbia corollata</i>	flowering spurge	UPL
0	<i>Euphorbia maculata</i>	eyebane, nodding spurge	FACU
	FESTUCA ELATIOR	tall fescue	FACU+
1	<i>Fragaria virginiana</i>	wild strawberry	FAC-
5	<i>Fraxinus pennsylvanica</i>	red ash	FACW
1	<i>Fraxinus pennsylvanica subintegerrima</i>	green ash	FAC
	GALINSOGACILIATA (G. QUADRIRADIATA)	Peruvian daisy, quickweed	UPL
1	<i>Galium aparine</i>	annual bedstraw, cleavers	FACU
10	<i>Galium asprellum</i>	rough bedstraw	OBL
7	<i>Galium boreale</i>	northern bedstraw	FAC
5	<i>Galium concinnum</i>	shining bedstraw	(UPL)
5	<i>Galium obtusum</i>	wild madder	FACW+
8	<i>Galium tinctorium</i>	stiff bedstraw	OBL
5	<i>Galium triflorum</i>	sweet-scented bedstraw	FACU+
2	<i>Gaura biennis</i>	biennial gaura	FACU-
8	<i>Gentiana andrewsii</i>	closed gentian, bottle g.	FACW
9	<i>Gentiana flavida</i>	yellowish gentian	FACU
10	<i>Gentiana puberulenta</i> (G. puberula)	downy gentian, prairie g.	UPL
4	<i>Geranium maculatum</i>	wild geranium	(UPL)
7	<i>Geum aleppicum strictum</i>	yellow avens	FAC+
1	<i>Geum canadense</i>	white avens, wood a.	FAC
2	<i>Geum laciniatum trichocarpum</i>	rough avens	FACW
	GLECHOMA HEDERACEA	ground ivy, creeping Charlie	FACU
2	<i>Gleditsia triacanthos</i>	honey locust	FAC
4	<i>Glyceria striata</i>	fowl meadow grass, fowl manna g.	(FACW)
10	<i>Habenaria leucophaea</i> (Platanthera)	Eastern prairie fringed orchid	FACW+
0	<i>Hackelia virginiana</i>	stickseed	FAC-

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C	scientific name	common name	NWC
5	<i>Helenium autumnale</i>	sneezeweed	FACW+
	HELIANTHUS ANNUUS	garden sunflower, annual s.	FAC-
2	<i>Helianthus grosseserratus</i>	sawtooth sunflower	FACW-
8	<i>Helianthus rigidus</i> (H. laetiflorus)	prairie sunflower	UPL
5	<i>Helianthus strumosus</i>	pale-leaved (wood) sunflower	UPL
	HEMEROCALLIS FULVA	orange day-lily	UPL
	HESPERIS MATRONALIS	Dame's rocket	UPL
8	<i>Heuchera richardsonii</i>	prairie alum root	FAC-
6	<i>Hieracium canadense</i> var. fasciculatum	Canada hawkweed	UPL
	HORDEUM JUBATUM	squirrel-tail grass	FAC+
5	<i>Hydrophyllum virginianum</i>	Virginia waterleaf	(FAC)
6	<i>Hypericum majus</i>	sand St. John's wort	FACW
	HYPERICUM PERFORATUM	common St. John's wort	UPL
4	<i>Hypericum punctatum</i>	spotted St. John's wort	(FACU)
10	<i>Hypericum pyramidatum</i>	great St. John's wort	FAC+
9	<i>Hypoxis hirsuta</i>	yellow star-grass	FAC
5	<i>Hystrix patula</i>	bottlebrush grass	UPL
	IRIS GERMANICA	German iris	UPL
5	<i>Iris virginica shrevei</i>	blue flag	OBL
8	<i>Isopyrum biternatum</i>	false rue anemone	UPL
5	<i>Juglans nigra</i>	black walnut	FACU
4	<i>Juncus dudleyi</i>	Dudley's rush	(FAC)
8	<i>Juncus greenei</i>	Greene's rush	FAC
6	<i>Juncus interior</i>	inland rush	(FACU)
0	<i>Juncus tenuis</i>	path rush	(FACU+)
2	<i>Juniperus virginiana crebra</i>	red cedar	FACU
	KOCHIA SCOPARIA	burning bush	FACU-
7	<i>Krigia biflora</i>	false dandelion, 2-flowered cynthia	FACU
2	<i>Lactuca canadensis</i>	wild lettuce	FACU+
	LACTUCA SALIGNA	willow lettuce	FACU
	LACTUCA SERRIOLA (L. SCARIOLA)	prickly lettuce	FAC
	LATHYRUS LATIFOLIUS	everlasting pea, flat pea	UPL
8	<i>Lathyrus palustris</i>	marsh vetchling	FACW
9	<i>Lathyrus venosus</i>	veiny pea	(UPL)
4	<i>Leersia oryzoides</i>	rice cut grass	OBL
5	<i>Lemna minor</i>	small duckweed	OBL
	LEPIDIUM CAMPESTRE	field cress	UPL
0	<i>Lepidium virginicum</i>	common peppergrass, c. peppergrass	FACU-
4	<i>Lespedeza capitata</i>	round-headed bush clover	FACU
6	<i>Liatris aspera</i>	rough blazing star	UPL
8	<i>Liatris pycnostachya</i>	prairie blazing star, gayfeather	FAC-
6	<i>Liatris spicata</i>	marsh blazing star, gayfeather	FAC
6	<i>Lilium michiganense</i>	Michigan lily, Turk's cap l.	FAC+
10	<i>Lilium philadelphicum andinum</i>	prairie lily	FAC-
	LINARIA VULGARIS	butter-and-eggs, toadflax	UPL
8	<i>Lithospermum canescens</i>	hoary puccoon	UPL
6	<i>Lobelia spicata</i>	pale spiked lobelia	FAC
	LONICERA TATARICA	Tartarian honeysuckle	(UPL)
6	<i>Ludwigia alternifolia</i>	seedbox	OBL
5	<i>Ludwigia palustris americana</i>	marsh purslane, water p.	OBL
6	<i>Ludwigia polycarpa</i>	false loosestrife	OBL
	LYCHNIS ALBA	white campion	UPL
5	<i>Lycopus americanus</i>	common water horehound	OBL
7	<i>Lycopus uniflorus</i>	northern bugle weed	OBL
4	<i>Lysimachia ciliata</i>	fringed loosestrife	FACW
10	<i>Lysimachia hybrida</i>	river loosestrife	OBL
7	<i>Lysimachia lanceolata</i>	lance-leaved loosestrife	FAC
9	<i>Lysimachia quadriflora</i>	narrow-leaved loosestrife	OBL
7	<i>Lythrum alatum</i>	winged loosestrife	OBL
	MACLURA POMIFERA	Osageorange	FACU
3	<i>Malus ioensis</i> (Pyrus)	Iowa crab	UPL
	MALUS PUMILA (PYRUS MALUS)	apple	UPL
	MALUS SP.	a crabapple cultivar	
	MATRICARIA MATRICARIOIDES	pineapple weed	FACU

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C	scientific name	common name	NWC
	MELILOTUS ALBA	white sweet clover	FACU
	MELILOTUS OFFICINALIS	yellow sweet clover	FACU
5	Mentha arvensis villosa	wild mint	(OBL)
6	Mimulus ringens	monkey flower	OBL
4	Monarda fistulosa	wild bergamot	FACU
	MORUS ALBA	white mulberry	FAC
	MUHLENBERGIA RACEMOSA	upland wild timothy	(UPL)
	Muhlenbergia sp.	satin grass	FACW
	NARCISSUS PSEUDONARCISSUS	daffodil	UPL
	NEPETA CATARIA	catnip	FAC-
0	Oenothera biennis	common evening primrose	FACU
10	Oenothera pilosella	prairie sundrops	FAC-
8	Onoclea sensibilis	fern, sensitive	FACW
	ORNITHOGALUM UMBELLATUM	star of Bethlehem	UPL
3	Osmorhiza claytonii	hairy sweet cicely	FACU-
3	Osmorhiza longistylus	smooth sweet cicely	FACU-
0	Oxalis stricta	common wood sorrel	UPL
9	Oxalis violacea	violet wood sorrel	UPL
7	Oxypolis rigidior	cowbane	OBL
	PAEONIA SP.	peony	
2	Panicum implicatum (P. lanuginosum)	old-field panic grass, hairy panic g.	FAC-
4	Panicum oligosanthes scribnerianum	Scribner's panic grass	(FACU)
5	Panicum virgatum	switch grass	FAC+
8	Parthenium integrifolium	wild quinine, American feverfew	UPL
2	Parthenocissus quinquefolia	Virginia creeper	FAC-
	PASTINACASATIVA	wild parsnip	UPL
9	Pedicularis canadensis	wood betony, lousewort	FACU+
7	Penstemon calycosus	smooth beard tongue	FACU
5	Penthorum sedoides	ditch stonecrop	OBL
9	Petalostemum purpureum (Dalea)	purple prairie clover	UPL
	PHALARIS ARUNDINACEA	reed canary grass	FACW+
	PHLEUM PRATENSE	timothy	FACU
8	Phlox glaberrima interior	marsh phlox	FACW
	PHLOX PANICULATA	garden phlox	FACU
7	Phlox pilosa var. fulgida	prairie phlox, downy p.	FAC-
1	Phragmites australis (P. communis)	common reed	FACW+
3	Physalis heterophylla	clammy ground cherry	UPL
0	Physalis subglabrata	tall ground cherry	UPL
6	Physostegia virginiana arenaria	prairie obedient plant	(UPL)
1	Phytolacca americana	pokeweed	FAC-
	PICEA GLAUCA (?)	white spruce	
5	Pilea pumila	clearweed	FACW
0	Plantago rugelii	red-stalked plantain	FAC
9	Platanus occidentalis	sycamore	FACW
	POA COMPRESSA	Canada blue grass	FACU+
	POA PRATENSIS	Kentucky blue grass	FAC-
4	Podophyllum peltatum	May apple	FACU
6	Polygala sanguinea	field milkwort	FACU
8	Polygala senega	Seneca snakeroot	FACU
3	Polygonatum canaliculatum (P. biflorum)	smooth Solomon's seal	FACU
4	Polygonum amphibium stipulaceum	water knotweed, w. heartsease	OBL
	POLYGONUM AVICULARE	common knotweed	FAC-
4	Polygonum coccineum (etc.)	water heartsease	OBL
	POLYGONUM CONVULVULUS	black bindweed	FAC-
	POLYGONUM CUSPIDATUM	Japanese knotweed	FACU
2	Polygonum hydropiper	water pepper	FACW
0	Polygonum lapathifolium	heartsease	FACW-
0	Polygonum pensylvanicum	pinkweed, Pennsylvania smartweed	FACW-
	POLYGONUM PERSICARIA	lady's thumb	(FACU-)
6	Polygonum punctatum	smartweed	OBL
5	Polygonum ramosissimum	bushy knotweed	FAC-
8	Polygonum sagittatum	arrow-leaved tear thumb	OBL
1	Polygonum scandens	climbing false buckwheat	FAC
2	Polygonum virginianum (Tovara virginiana)	woodland knotweed, jumpseed	FAC

Table 1. Plants of Wolf Road Prairie

C	scientific name	common name	NWC
2	<i>Populus deltoides</i>	eastern cottonwood	FAC+
6	<i>Populus grandidentata</i>	large-toothed aspen	FACU
	POPULUS NIGRA ITALICA	Lombardy poplar	UPL
4	<i>Populus tremuloides</i>	quaking aspen	FAC
	PORTULACA OLERACEA	purslane	FAC-
10	<i>Potamogeton amplifolius</i> (?)	large-leaved pond weed	OBL
9	<i>Potentilla arguta</i>	prairie cinquefoil	FACU-
	POTENTILLA RECTA	sulphur cinquefoil, upright c.	UPL
4	<i>Potentilla simplex</i>	common cinquefoil	FACU-
5	<i>Prenanthes alba</i>	white lettuce, lion's foot	FACU
8	<i>Prenanthes aspera</i>	rough white lettuce	UPL
8	<i>Prenanthes racemosa</i>	glaucous white lettuce, rattlesnake root	FACW
0	<i>Prunella vulgaris lanceolata</i>	selfheal, carpenter's weed	(FACU)
5	<i>Prunus americana</i>	wild plum	UPL
1	<i>Prunus serotina</i>	wild black cherry	FACU
	PRUNUS SP.	a cherry cultivar	
3	<i>Prunus virginiana</i>	choke cherry	(FACU)
5	<i>Pycnanthemum virginianum</i>	common mountain mint, Virginia m.	FACW+
6	<i>Quercus bicolor</i>	swamp white oak	FACW+
4	<i>Quercus coccinea</i>	scarlet oak	UPL
5	<i>Quercus macrocarpa</i>	bur (or burr) oak	FAC-
7	<i>Quercus rubra</i>	red oak	FACU
6	<i>Quercus velutina</i>	black oak	UPL
4	<i>Ratibida pinnata</i>	yellow coneflower, gray-headed c.	UPL
	RHAMNUS CATHARTICA	common buckthorn	FACU
	RHAMNUS FRANGULA	glossy buckthorn	FAC+
1	<i>Rhus glabra</i>	smooth sumac	UPL
2	<i>Rhus radicans</i> (<i>Toxicodendron</i>)	poison ivy	FAC+
1	<i>Rhus typhina</i>	staghorn sumac	UPL
5	<i>Ribes missouriense</i>	wild gooseberry	UPL
	ROBINIA PSEUDOACACIA	black locust	FACU-
4	<i>Rorippa palustris fernaldiana</i> (<i>R. islandica</i>)	marsh cress	OBL
5	<i>Rosa arkansana suffulta</i>	sunshine rose	UPL
5	<i>Rosa blanda</i>	early wild rose	FACU
5	<i>Rosa carolina</i>	pasture rose	FACU-
	ROSA MULTIFLORA	multiflora rose, Japanese r.	FACU
7	<i>Rosa setigera</i>	Illinois rose	FACU+
3	<i>Rubus allegheniensis</i>	common blackberry	FACU+
3	<i>Rubus flagellaris</i>	common dewberry	FACU-
2	<i>Rubus occidentalis</i>	black raspberry	UPL
3	<i>Rubus pensilvanicus</i> (etc)	Yankee blackberry	FACU
1	<i>Rudbeckia hirta</i>	black-eyed Susan	FACU
9	<i>Rudbeckia subtomentosa</i>	sweet black-eyed Susan	FACU+
2	<i>Rumex altissimus</i>	pale dock	FACW-
	RUMEX CRISPUS	curly dock	FAC+
4	<i>Sagittaria latifolia</i>	common arrowhead	OBL
5	<i>Salix amygdaloides</i>	peach-leaved willow	FACW
2	<i>Salix discolor</i>	pussy willow	FACW
7	<i>Salix glaucophylloides</i> (<i>S. myricoides</i>)	blue-leaved willow	FACW
6	<i>Salix humilis</i>	prairie willow	FACW
1	<i>Salix interior</i>	sandbar willow	OBL
1	<i>Sambucus canadensis</i>	elderberry	FACW-
2	<i>Sanicula gregaria</i>	clustered black snakeroot	FAC+
6	<i>Scirpus acutus</i>	hard-stemmed bulrush	OBL
4	<i>Scirpus atrovirens</i>	dark green rush	OBL
4	<i>Scirpus fluviatilis</i>	river bulrush	OBL
4	<i>Scirpus pendulus</i> (<i>S. lineatus</i>)	red bulrush	OBL
5	<i>Scirpus validus creber</i>	great bulrush, soft-stem b.	OBL
5	<i>Scutellaria epilobiifolia</i>	marsh skullcap	OBL
5	<i>Scutellaria lateriflora</i>	mad-dog skullcap	OBL
7	<i>Scutellaria parvula leonardii</i>	small skullcap	FACU
6	<i>Senecio pauperculus</i>	balsam ragwort	FAC+
	SETARIA FABERI	giant foxtail	FACU+
	SETARIA GLAUCA	yellow foxtail	FAC

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C	scientific name	common name	NWC
6	<i>Silene stellata</i>	starry campion	UPL
5	<i>Silphium integrifolium, deamii</i>	rosin weed	UPL
5	<i>Silphium laciniatum</i>	compass plant	UPL
5	<i>Silphium terebinthinaceum</i>	prairie dock	FACU
	SISYMBRIUM OFFICINALE	hedge mustard	UPL
7	<i>Sisyrinchium albidum</i>	common blue-eyed grass (white b.)	FACU
7	<i>Sium suave</i>	tall water parsnip	OBL
3	<i>Smilacina racemosa</i>	feathery false Solomon's seal	FACU
5	<i>Smilacina stellata</i>	starry false Solomon's seal	FAC-
5	<i>Smilax lasioneura</i>	common carrion flower	(UPL)
0	<i>Solanum americanum (S. NIGRUM)</i>	black nightshade	FACU-
	SOLANUM CAROLINENSE	horse nettle	FACU-
	SOLANUM DULCAMARA	bittersweet nightshade	FAC
1	<i>Solidago altissima</i>	tall goldenrod	FACU
1	<i>Solidago canadensis</i>	Canadagoldenrod	FACU
4	<i>Solidago gigantea leiophylla</i>	late goldenrod	FACW
4	<i>Solidago graminifolia</i>	common grass-leaved goldenrod	FACW-
3	<i>Solidago graminifolia nuttallii</i>	hairy grass-leaved goldenrod	(FAC)
5	<i>Solidago gymnospermoides</i>	viscid grass-leaved goldenrod	FAC
5	<i>Solidago juncea</i>	early goldenrod	UPL
7	<i>Solidago missouriensis fasciculata</i>	Missouri goldenrod, prairie g.	UPL
4	<i>Solidago nemoralis</i>	old-field goldenrod, gray g.	UPL
7	<i>Solidago riddellii</i>	Riddell's goldenrod	OBL
4	<i>Solidago rigida</i>	stiff goldenrod	FACU-
5	<i>Solidago ulmifolia</i>	elm-leaved goldenrod	UPL
	SONCHUS ASPER	spiny sow thistle	(FACU)
	SONCHUS ULIGINOSUS	common sow thistle	FAC-
5	<i>Sorghastrum nutans</i>	Indian grass	FACU+
6	<i>Sparganium eurycarpum</i>	common bur reed	OBL
4	<i>Spartina pectinata</i>	prairie cord grass, slough g.	FACW+
7	<i>Sphenopholis obtusata</i>	prairie wedge grass	FAC
7	<i>Spiraea alba</i>	meadowsweet	FACW+
7	<i>Spiranthes cernua</i>	nodding ladies' tresses	FACW-
10	<i>Sporobolus heterolepis</i>	prairie dropseed	FACU-
5	<i>Stachys palustris homotricha</i>	woundwort	OBL
5	<i>Stachys tenuifolia hispida</i>	marsh hedge nettle	FACW+
8	<i>Stellaria longifolia</i>	stitchwort	FACW+
	TARAXACUM OFFICINALE	common dandelion	FACU
3	<i>Teucrium canadense</i>	germander, wood sage	FACW
5	<i>Thalictrum dasycarpum</i>	purple meadow rue	FACW-
7	<i>Thalictrum dioicum</i>	early meadow rue	FACU+
6	<i>Thalictrum revolutum</i>	waxy meadow rue	FAC
5	<i>Tilia americana</i>	basswood, American linden	FACU
2	<i>Tradescantia ohiensis</i>	common spiderwort	FACU+
	TRAGOPOGON PRATENSIS	common goat's beard	UPL
	TRIFOLIUM CAMPESTRE (T. PROCUMBENS)	low hop clover	UPL
	TRIFOLIUM HYBRIDUM	alsike clover	FAC-
	TRIFOLIUM PRATENSE	red clover	UPL
	TRIFOLIUM REPENS	white clover	FACU+
5	<i>Trillium recurvatum</i>	red trillium	FACU-
5	<i>Triosteum aurantiacum</i>	early horse gentian	UPL
	TULIPA SP.	tulip	
1	<i>Typha angustifolia</i>	narrow-leaved cattail	OBL
1	<i>Typha latifolia</i>	common cattail, broad-leaved c.	OBL
3	<i>Ulmus americana</i>	American elm	FACW-
	ULMUS PUMILA	Siberian elm	UPL
4	<i>Ulmus rubra</i>	slippery elm	FAC
2	<i>Urtica procera (U. dioica)</i>	tall nettle, stinging n.	FAC+
	VERBASCUM THAPSUS	common mullein	UPL
0	<i>Verbena bracteata</i>	creeping vervain	FACU
4	<i>Verbena hastata</i>	blue vervain	FACW+

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C	scientific name	common name	NWC
5	<i>Verbena urticifolia</i>	hairy white vervain	UPL
5	<i>Vernonia altissima</i>	(hairy) tall ironweed	FAC
5	<i>Vernonia fasciculata</i>	common ironweed	FACW
7	<i>Veronicastrum virginicum</i>	Culver's root	FAC
	VIBURNUM LANTANA	wayfaring tree	UPL
	VIBURNUM OPULUS	European highbush cranberry	(FACU)
	VIBURNUM RECOGNITUM	smooth arrow-wood	FACW-
7	<i>Vicia americana</i>	American vetch	UPL
	VINCA MINOR	periwinkle	UPL
4	<i>Viola affinis</i>	LeConte's violet	FACW
9	<i>Viola pedatifida</i>	prairie violet	FACU-
5	<i>Viola pubescens</i> (<i>V. pensylvanica</i>)	yellow violet	FACU-
7	<i>Viola sagittata</i>	arrow-leaved violet	FACW-
3	<i>Viola sororia</i> (<i>V. papilionacea</i>)	common blue violet	FAC-
2	<i>Vitis riparia</i>	riverbank grape	FACW-
	XANTHIUM STRUMARIUM (etc)	cocklebur	FAC
7	<i>Zizia aurea</i>	golden Alexanders	FAC+

Table 2. Species Searched For But Not Found

<u>Scientific Name</u>	<u>Common Name</u>
1. <i>Anemone cylindrica</i>	Thimbleweed
2. <i>Apios americana</i>	Ground Nut
3. <i>Asclepias sullivantii</i>	Prairie Milkweed
4. <i>Asclepias verticillata</i>	Whorled Milkweed
5. <i>Bidens vulgata</i>	Tall Beggar's Ticks
6. <i>Cuscuta polygonorum</i>	Knotweed Dodder
7. <i>Cypripedium candidum</i>	White Lady's Slipper
8. <i>Echinocystis lobata</i>	Wild Cucumber
9. <i>Eupatorium maculatum</i>	Spotted Joe Pye Weed
10. <i>Habenaria leucophaea</i>	Eastern Prairie Fringed Orchid
11. <i>Helianthus rigidus</i>	Prairie Sunflower
12. <i>Liatris pycnostachya</i>	Prairie Blazing Star
13. <i>Oxypolis rigidior</i>	Cowbane
14. <i>Physalis heterophylla</i>	Clammy Ground Cherry
15. <i>Solidago gigantea</i>	Late Goldenrod
16. <i>Solidago gymnospermoides</i>	Viscid Grass-Leaved Goldenrod
17. <i>Solidago missouriensis</i>	Missouri Goldenrod
18. <i>Solidago riddellii</i>	Riddell's Goldenrod
19. <i>Stellaria longifolia</i>	Stitchwort
20. <i>Thalictrum dasycarpum</i>	Purple Meadow Rue
21. <i>Vernonia fasciculata</i>	Common Ironweed
22. <i>Viola sagittata</i>	Arrow-leaved Violet

Table 3. Estimates of Flowering Stalks for 179 Species

<u>Number of Flowering Stalks</u>	<u>Number of Species</u>
Less than 100	73
100 to 500	39
More than 500	67

Table 4. Species of Special Concern

<u>Scientific Name</u>	<u>Common Name</u>	<u>Abundance</u>	<u>C</u>
1. <i>Spiranthes cernua</i>	Nodding Ladies' Tresses	1	7
2. <i>Cacalia plantaginea</i>	Prairie Indian Plantain	12	10
3. <i>Astragalus canadensis</i>	Canadian Milk Vetch	12	10
4. <i>Lilium philadelphicum</i>	Prairie Lily	15	10
5. <i>Hypericum pyramidatum</i>	Great Saint John's Wort	49	10
6. <i>Gentiana puberulenta</i>	Downy Gentian	87	10
7. <i>Castilleja coccinea</i>	Indian Paintbrush	137	10
8. <i>Viola pedatifida</i>	Prairie Violet	174	10

9. <i>Lathyrus venosus</i>	Veiny pea	1	9
10. <i>Potentilla arguta</i>	Prairie Cinquefoil	3	9
11. <i>Lysimachia quadriflora</i>	Narrow-Leaved Loosestrife	4	9
12. <i>Rudbeckia subtomentosa</i>	Sweet Black-Eyed Susan	17	9
13. <i>Amorpha canescens</i>	Lead Plant	75	9
14. <i>Prenanthes aspera</i>	Rough White Lettuce	9	8
15. <i>Heuchera richardsonii</i>	Prairie Alum Root	10	8
16. <i>Echinacea pallida</i>	Purple Coneflower	10	8
17. <i>Prenanthes racemosa</i>	Glaucous White Lettuce	13	8
18. <i>Aster azureus</i>	Sky-blue Aster	18	8
19. <i>Gentiana andrewsii</i>	Closed Gentian	37	8
20. <i>Polygala senega</i>	Seneca Snakeroot	53	8
21. <i>Asclepias purpurascens</i>	Purple Milkweed	58	8
22. <i>Phlox glaberrima</i>	Marsh Phlox	87	8
23. <i>Baptisia leucantha</i>	White Wild Indigo	148	8
24. <i>Scutellaria parvula</i>	Small Skullcap	2	7
25. <i>Rosa setigera</i>	Illinois Rose	3	7
26. <i>Aster puniceus firmus</i>	Shining Aster	3	7
27. <i>Asclepias tuberosa</i>	Butterfly Weed	4	7
28. <i>Geum aleppicum</i>	Yellow Avens	5	7
29. <i>Spiraea alba</i>	Meadowsweet	16	7
30. <i>Arisaema dracontium</i>	Green Dragon	39	7
31. <i>Eupatorium purpureum</i>	Purple Joe Pye Weed	62	7
32. <i>Mimulus ringens</i>	Monkey Flower	3	6
33. <i>Hieracium canadense</i>	Canada Hawkweed	5	6
34. <i>Cardamine bulbosa</i>	Bulbous Cress	7	6
35. <i>Arabis glabra</i>	Tower Mustard	10	6
36. <i>Polygala sanguinea</i>	Field Milkwort	21	6
37. <i>Lilium michiganense</i>	Michigan Lily	29	6
38. <i>Liatris aspera</i>	Rough Blazing Star	35	6
39. <i>Coreopsis palmata</i>	Prairie Coreopsis	40	6
40. <i>Silene stellata</i>	Starry Champion	67	6
41. <i>Physostegia virginiana</i>	Prairie Obedient Plant	95	6
42. <i>Dodecatheon meadia</i>	Shooting Star	151	6
43. <i>Prenanthes alba</i>	White Lettuce	3	5
44. <i>Silphium laciniatum</i>	Compass Plant	5	5
45. <i>Asclepias exaltata</i>	Poke Milkweed	5	5
46. <i>Iris virginica</i>	Blue Flag	15	5
47. <i>Viola pubescens</i>	Yellow Violet	19	5
48. <i>Scutellaria lateriflora</i>	Mad-dog Skullcap	20	5
49. <i>Smilax lasioneura</i>	Common Carrion Flower	25	5
50. <i>Rosa carolina</i>	Pasture Rose	50	5

Table 5. Comments on individual species growing in Wolf Road Prairie.

Asclepias tuberosa (butterfly weed) has never had more than 2-4 plants.

Astragalus canadensis (Canada milk vetch) has a small and localized population, and appears to be holding steady, though flowers are rarely seen. It appears that deer are eating the flowers, thus preventing reproduction.

Castilleja coccinea (Indian paintbrush, red form) has declined significantly since the 1970's, when they were estimated to be in the thousands.

Habenaria leucophaea (prairie white fringed orchid, also known as *Platanthera leucophaea*), is Endangered in Illinois and Federally Threatened. It has not been seen since about 1983 and is presumably extirpated.

Hypericum pyramidatum (Great St. Johns Wort) population remains small in spite of a serious attempt to revitalize it.
