

# Appendix A

## Vascular flora of the King Road Landfill and/or selected communities of the Oak Openings Metropark

Catalog of the plant species identified in the waste disposal parcels at the King Road Landfill, the two control sites, and the four selected plant communities at the Oak Openings Metropark. Each species identified includes species and common name, growth form, and description of their abundance in the study. The physiographic of each species to Ohio is abbreviated N = native: A = alien.

### Cupressaceae

### Cypress Family

*Juniperus virginiana* L. Eastern Red Cedar N Tree  
Found only in the KRL SE corner control site.

### Dennstaedtiaceae

### Hay-scented Fern Family

*Pteridium aquilinum* (L.) Huhn Bracken Fern N Forb  
Found only in the OOMP sand barren, oak savanna, and deciduous woodland communities.

### Dryopteridaceae

### Wood Fern Family

*Athrium filix-femina* (L.) Roth ex Mert. Lady Fern N Forb  
Found only in the OOMP deciduous woodland community.

### Osmundaceae

### Royal Fern Family

*Osmunda cinnamomea* L. Cinnamon Fern N Forb  
Found only in the OOMP near the base of a hill in the deciduous woodland community.

### *Osmunda regalis* L. var. *spectabilis* (Willd.) A. Gray

Royal Fern N Forb  
Found only in the OOMP near the base of a hill in the deciduous woodland community.

## Pinaceae

## Pine Family

### ***Pinus strobus* L.**

White Pine

N Tree

Seedling found in the KRL waste disposal parcel operated from 1960 to 1963, and saplings were found in the OOMP sand barren community.

## Monocotyledoneae

## Araceae

## Arum Family

### ***Arisaema dracontium* (L.) Schott**

Green Dragon

N Forb

Commonly found in moist habitats, located in the KRL floodplain control site and in the OOMP floodplain community.

### ***Arisaema triphyllum* (L.) Schott**

Jack-in-the-pulpit

N Forb

Commonly found in moist habitats, located in the KRL floodplain control site and in the plots near the base of a hill in the OOMP deciduous forest community.

### ***Symplocarpus foetidus* (L.) Salisb. Ex Nutt.**

Skunk Cabbage

N Forb

Commonly found in moist habitats, located only in the OOMP plots near the base of a hill of the deciduous woodland community and in the floodplain community.

## Commelinaceae

## Spiderwort Family

### ***Commellina communis* L.**

Asiatic Dayflower

A Forb

Found in two KRL waste disposal parcels operated from 1963 to 1969 and 1969 to 1976.

## Cyperaceae

## Sedge Family

### ***Carex cephalophlora* Muhl. ex Willd.**

Oval-headed Sedge

N Sedge

Found only in the KRL waste disposal parcel operated from 1954 to 1957.

### ***Carex intumescens* Rudge**

Bladder Sedge

N Sedge

Common in moist habitat: found in KRL floodplain control site and in the OOMP floodplain community.

### ***Carex molesta* Mack. ex Bright**

Troublesome Sedge

N Sedge

Found only in the OOMP oak savanna community.

***Carex pensylvanica* Lam.** Pennsylvania Sedge N Sedge  
Found in two KRL waste disposal parcels operated from 1954 to 1957 and 1969 to 1976, the SE control site, and in three OOMP plant communities.

***Carex rugosperma* Mack.** Low Sand Sedge N Sedge  
Found only in the OOMP sand barren and oak savanna communities.

***Carex siccata* Dewey** Dry Spike Sedge  
N Sedge (State Endangered)  
Found only in the OOMP sand barren community.

***Carex swanii* (Fernald) Mack.** Swan's Sedge N Sedge  
Found only in the OOMP sand barren and oak savanna communities.

***Cyperus lupulinus* (Spreng.) Marcks subsp. *macilentus* (Fernald) Marcks** Slender Umbrella Sedge N Sedge  
Found in the KRL waste disposal parcel operated from 1963 to 1969 and in the OOMP sand barren and oak savanna communities.

***Scirpus atrovirens* Willd.** Dark-green Bulrush N Sedge  
Found only in the KRL waste disposal parcel operated from 1969 to 1976.

***Scirpus pendulus* Muhl.** Rufous Bulrush N Sedge  
Found in two KRL waste disposal parcels operated from 1954 to 1957 and 1969 to 1976.

## **Juncaceae** Rush Family

***Juncus articulatus* L.** Jointed Rush N Grass  
Found only in the OOMP oak savanna community.

***Juncus effusus* L.** Common Rush N Grass  
Found in the KRL waste disposal parcel operated from 1969 to 1976 and the OOMP oak savanna community.

***Juncus torreyi* Coville** Torrey's Rush N Grass  
Found only in the KRL waste disposal parcel operated from 1969 to 1976.

## **Liliaceae** Lily Family

***Medeola virginiana* L.** Indian Cucumber Root N Forb  
Found only in the OOMP deciduous woodland community.

***Polygonatum biflorum* (Walter) Elliot** Smooth Solomon's Seal N Forb  
Found only in the OOMP sand barren and deciduous woodland communities.

***Polygonatum* sp.** Solomon's Seal sp.  
Found only in the KRL waste disposal parcel operated from 1969 to 1976.

***Smilacina racemosa* (L.) Desf.** False Spikenard N Forb  
Found only in the OOMP deciduous woodland community.

***Smilacina* sp.** Lily-of-the-valley sp.  
Found only in the OOMP oak savanna community.

## Poaceae

## Grass Family

***Agrostis gigantea* Roth.** Redtop A Grass  
Common at the KRL: found in four KRL waste disposal parcels, and in the OOMP oak savanna community.

***Agrostis stolonifera* L. var. *palustris* (Huds.) Farw.** Creeping Bent Grass A Grass  
Found only in the KRL waste disposal parcel operated from 1969 to 1976.

***Alopecurus pratensis* L.** Meadow Foxtail A Grass  
Found only in the KRL waste disposal parcel operated from 1969 to 1976.

***Bromus inermis* Leyss.** Smooth Brome A Grass  
Common at the KRL: found in four waste disposal parcels.

***Bromus japonicus* Thunb. ex Murray** Japanese Brome A Grass  
Common at the KRL: found in three waste disposal parcels and in the SE corner control site.

***Bromus latiglumis* (Shear) Hitchc.** Ear-leaved Brome N Grass  
Found in the KRL floodplain control site and in OOMP deciduous woodland community.

***Bromus pubescens* Muhl. ex Willd.** Woodland Brome N Grass  
Found in three KRL waste disposal parcels.

***Dactylis glomerata* L.** Orchard Grass A Grass  
Found in the KRL waste disposal parcels operated from 1954 to 1957 and 1960 to 1963.

- Danthonia spicata* (L.) P. Beauv. ex Roem. & Shult.**  
 Poverty Grass      N Grass  
 Found in three KRL waste disposal parcels and in the OOMP sand barren and oak savanna communities.
- Digitaria filiformis* (L.) Koeler**  
 Slender Finger Grass  
 N Grass (Presumed Extirpated)  
 Found only in the KRL waste disposal parcel operated from 1960 to 1963.
- Echinochloa muricata* (P. Beauv.) Fernal var. *microstachya* Wiegand**  
 Barnyard Grass      N Grass  
 Found only in the KRL waste disposal parcel operated from 1960 to 1963.
- Elymus repens* (L.) Gould**  
 Quack Grass      A Grass  
 Common at the KRL: found in four waste disposal parcels.
- Elymus trachycaulus* (Link) Gould ex Shinnery**  
 Bearded Wheat Grass  
 N Grass (State Threatened)  
 Found in the KRL waste disposal parcels operated from 1954 to 1957 and 1960 to 1963.
- Elymus virginicus* L.**  
 Virginia Wild Rye      N Grass  
 Found in the KRL waste disposal parcels operated from 1957 to 1960 and 1960 to 1963, the floodplain control site, and in the OOMP floodplain community.
- Festuca ovina* L.**  
 Sheep Fescue      A Grass  
 Found only in the OOMP sand barren and oak savanna communities.
- Festuca subverticillata* (Pers.) E.B. Alexeev.**  
 Nodding Fescue      N Grass  
 Found only in the OOMP floodplain community.
- Leersia virginica* Willd.**  
 White Grass      N Grass  
 Common of moist habitat: found in the KRL floodplain control site and in the OOMP floodplain community.
- Lolium arundinaceae* (Scribn.) Darbysh.**  
 Tall Fescue      A Grass  
 Common at the KRL: found in four waste disposal parcels.
- Lolium perenne* L.**  
 Perennial Rye Grass      A Grass  
 Found in three KRL waste disposal parcels.
- Muhlenbergia schreberi* J.F. Gmel.**  
 Nimblewill      N Grass  
 Found only in the KRL waste disposal parcel operated from 1969 to 1976.

***Panicum acuminatum* Sw. var. *fasiculatum* (Torr.) Lelong**  
Old-field Panic Grass      N Grass  
Found only in the KRL SE corner control site.

***Panicum acuminatum* Sw. var. *lindheimeri* (Nash) Lelong**  
Lindheimer's Panic Grass      N Grass (State Endangered)  
Found in the KRL waste disposal parcel operated from 1969 to 1976 and in the OOMP sand barren and oak savanna communities.

***Panicum clandestinum* L.**      Deer's Tongue Grass      N Grass  
Found in the KRL waste disposal parcels operated from 1960 to 1963 and 1969 to 1976 and in the SE corner control site.

***Panicum columbianum* Scribn.**      American Panic Grass      N Grass  
Common at the KRL; found in three KRL waste disposal parcels, the SE corner control site, and in the OOMP sand barren and oak savanna communities.

***Panicum latifolium* L.**      Broad-leaved Panic Grass      N Grass  
Found only in the OOMP deciduous woodland community.

***Panicum oligosanthos* Schult. var. *scribnerian* (Nash) Fernald**  
Scribner's Rosette Grass      N Grass  
Found in the KRL waste disposal parcel operated from 1960 to 1963 and in the OOMP sand barren and oak savanna communities.

***Phleum pretense* L.**      Timothy      A Grass  
Found in the KRL waste disposal parcel operated from 1969 to 1976 and in the SE corner control site.

***Poa compressa* L.**      Canada Blue Grass      A Grass  
Common at the KRL; found in three KRL waste disposal parcels, the SE corner control site, and in the OOMP sand barren and oak savanna communities.

***Poa pratensis* L.**      Kentucky Blue Grass      A Grass  
Common at the KRL: found in three KRL waste disposal parcels and in the OOMP oak savanna community.

***Setaria glauca* (L.) P. Beauv.**      Yellow Foxtail Grass      A Grass  
Common at the KRL: found in three waste disposal parcels.

***Setaria viridis* (L.) P. Beauv.**      Green Foxtail Grass      A Grass  
Found in the KRL waste disposal parcels operated from 1957 to 1960 and 1960 to 1963 and in the SE corner control site.

## Smilacaceae

## Catbrier Family

***Smilax hispida* Muhl. ex Torr.** Bristly Greenbrier N Shrub  
Found only in the OOMP deciduous woodland community.

***Smilax rotundifolia* L.** Common Greenbrier N Shrub  
Found only in the OOMP sand barren and deciduous woodland communities.

## Typhaceae

## Cat-tail Family

***Typha latifolia* L.** Broadleaf Cattail N Forb  
Common in moist habitat; found in the KRL waste disposal parcel operated from 1969 to 1976 near standing water.

## Dicotoledoneae

## Aceraceae

## Maple Family

***Acer negundo* L.** Box Elder N Tree  
Common in the KRL: found in four KRL waste disposal parcels, both control sites, and in the OOMP floodplain community.

***Acer rubrum* L.** Red Maple N Tree  
Found only in the OOMP in the floodplain, sand barren, and deciduous woodland communities.

***Acer saccharinum* L.** Silver Maple N Tree  
Common in moist habitat: found in the KRL waste disposal parcel operated from 1963 to 1969, the floodplain control site, and in the OOMP floodplain community.

## Anacardiaceae

## Sumac Family

***Rhus copallina* L. var. *latifolia* Engl.** Dwarf Sumac N Tree  
Saplings only found in the OOMP sand barren community.

***Rhus typhina* L.** Staghorn Sumac N Tree  
Found in two KRL waste disposal parcels operated from 1957 to 1960 and 1963 to 1969.

***Toxicodendron radicans* (L.) Kuntze var. *radicans***

Poison Ivy N Vine

Found in all KRL waste disposal parcels and in the OOMP floodplain community.

**Apiaceae**

**Carrot Family**

***Cryptotaenia canadensis* (L.) DC.**

Canadian Honewort N Forb

Commonly found in moist habitats, located in the KRL floodplain control site, and in the OOMP floodplain community.

***Daucus carota* L.**

Wild Carrot A Forb

Found in all KRL waste disposal parcels.

**Araliaceae**

**Ginseng Family**

***Aralia nudicaulis* L.**

Wild Sarsaparilla N Forb

Found in the KRL waste disposal parcel operated from 1963 to 1969 and in the OOMP deciduous woodland community.

**Aristolochiaceae**

**Birthwort Family**

***Asarum canadense* L.**

Wild Ginger N Forb

Found only in the KRL floodplain control site.

**Asclepiadaceae**

**Milkweed Family**

***Asclepias exaltata* L.**

Poke Milkweed N Forb

Found in the KRL waste disposal parcel operated from 1954 to 1957 and in the SE corner control site.

***Asclepias incarnata* L.**

Swamp Milkweed N Forb

Found only in the KRL waste disposal parcel operated from 1969 to 1976 near a depression with standing water at the KRL.

***Asclepias syriaca* L.**

Common Milkweed N Forb

Found only in the KRL waste disposal parcel operated from 1969 to 1976.

***Asclepias tuberosa* L.**

Butterfly Milkweed N Forb

Found in the KRL waste disposal parcel operated from 1957 to 1960 and in the OOMP oak savanna community.

***Asclepias verticillata* L.**

Whorled Milkweed N Forb

Found the KRL waste disposal parcels operated from 1960 to 1963 and 1969 to 1976.

## Asteraceae

## Aster Family

- Achillea millefolium* L.** Yarrow N Forb  
Found in three KRL waste disposal parcels and in the OOMP oak savanna community.
- Ambrosia artemisiifolia* L.** Annual Ragweed N Forb  
Very common; located in all five KRL waste disposal parcels, both control sites, and in the OOMP sand barren community.
- Ambrosia trifida* L.** Great Ragweed N Forb  
Found in the KRL waste disposal parcel operated from 1957 to 1960 and in the SE corner control site.
- Aster lanceolatus* Willd var. *simplex* (Willd.) A. G. Jones**  
Panicked Aster N Forb  
Common in moist habitat: located in the KRL waste disposal parcel operated from 1963 to 1969, the floodplain control site, and in the OOMP floodplain community.
- Aster macrophyllus* L.** Large-leaved Aster N Forb  
Found only in the OOMP deciduous woodland community.
- Chrysanthemum leucanthemum* L.** Ox-eye Daisy A Forb  
Found in only the KRL waste disposal parcel operated from 1957 to 1960.
- Conyza canadensis* (L.) Cronquist** Horseweed N Forb  
Found in three KRL waste disposal parcels and in the SE corner control site.
- Erigeron annuus* (L.) Pers.** Daisy Fleabane N Forb  
Very common: found in all five KRL waste disposal parcels and in the SE corner control site.
- Erigeron pulchellus* Michx. var. *pulchellus*** Robin's Plantain N Forb  
Common species, found in four KRL waste disposal parcels, the SE corner control site, and in the OOMP sand barren and oak savanna communities.
- Eupatorium album* L.** White Thoroughwort  
N Forb (State Threatened)  
Common at the KRL: found in four KRL waste disposal parcels and in the SE corner control site.
- Euthamia graminifolia* (L.) Nutt.** Grass-leaved Goldenrod N Forb  
Found in the KRL waste disposal parcels operated from 1960 to 1963 and 1963 to 1969, and in the OOMP oak savanna community.

- Euthamia tenuifolia* (Pursh) Nutt. var. *tenuifolia*** Lance-leaved Goldenrod N Forb  
 Found in two KRL waste disposal parcels operated from 1960 to 1963 and 1969 to 1976.
- Helianthus divaricatus* L.** Woodland Sunflower N Forb  
 Found in the KRL waste disposal parcel operated from 1969 to 1976 and in the SE corner control site.
- Heliopsis helianthoides* (L.) Sweet** Smooth Ox-eye N Forb  
 Found only in the OOMP floodplain community.
- Hieracium caespitosum* Dumort** Meadow Hawkweed A Forb  
 Found only in the KRL waste disposal parcel operated from 1954 to 1957.
- Krigia virginica* (L.) Willd.** Dwarf Dandelion  
 N Forb (State Threatened)  
 Found only in the OOMP sand barren and oak savanna communities.
- Liatris* sp.** Blazing Star sp.  
 Found only in the OOMP oak savanna community.
- Prenanthes alba* L.** White Lettuce N Forb  
 Found only in the OOMP deciduous woodland community.
- Rudbeckia laciniata* L. var. *laciniata*** Cut-leaf Coneflower N Forb  
 Found only in the OOMP floodplain community.
- Solidago canadensis* L. var. *canadensis*** Canada Goldenrod N Forb  
 Found in four KRL waste disposal parcels.
- Sonchus* sp.** Sow-thistle sp.  
 Found only in the KRL waste disposal parcel operated from 1960 to 1963.
- Taraxacum officinale* Weber ex F.H. Wigg.** Common Dandelion A Forb  
 Found in the KRL waste disposal parcels operated from 1954 to 1957 and 1963 to 1969.
- Tragopogon dubius* Scop.** Yellow Salsify A Forb  
 Found in four KRL waste disposal parcels.

## **Balsaminaceae**

## **Touch-me-not Family**

***Impatiens capensis* Meerb.** Spotted Touch-me-not N Forb  
Common in moist habitat: found in the KRL waste disposal parcel operated from 1954 to 1957, the floodplain control site, and in the OOMP floodplain community.

***Impatiens pallida* Nutt.** Pale Touch-me-not N Forb  
Common in moist habitat: found only in the OOMP floodplain community.

## **Betulaceae** Birch Family

***Betula pumila* L.** Bog Birch N (State Threatened)  
Found only saplings in the OOMP floodplain community.

***Corylus americana* Walter** American Hazelnut N Shrub  
Found only seedlings in the OOMP deciduous woodland community.

## **Bignonaceae** Trumpet-creeper Family

***Campsis radicans* (L.) Seem. ex Bureau** Trumpet Creeper N Vine  
Found only in the KRL waste disposal parcel operated from 1960 to 1963.

***Catalpa bignonioides* Walter** Common Catalpa A Tree  
Found only in the KRL SE corner control site.

***Catalpa speciosa* (Warder) Warder ex Engelm.** Northern Catalpa A Tree  
Found in four KRL waste disposal parcels.

## **Boraginaceae** Borage Family

***Hackelia virginiana* (L.) I. M. Johnst.** Virginia Stickseed N Forb  
Found only in the KRL waste disposal parcel operated from 1954 to 1957.

***Lithospermum officinale* L.** European Gromwell A Forb  
Found in four KRL waste disposal parcels, the SE corner control site, and in the OOMP floodplain community.

## **Brassicaceae** Mustard Family

***Alliaria petiolata* (M. Bieb.) Cavara & Grande** Garlic Mustard A Forb  
Very common: found in all KRL waste disposal parcels, both control sites, and in the OOMP floodplain and deciduous woodland communities

***Barbarea vulgaris* R. Br.** Yellow Rocket A Forb  
Found in three KRL waste disposal parcels.

***Lepidium campestre* (L.) R. Br.** Field Pepperweed A Forb  
Found in four KRL waste disposal parcels.

***Thlaspi arvense* L.** Field Pennycress A Forb  
Found in the KRL SE corner control site and in the OOMP oak savanna community.

## **Caesalpinaceae**

## **Caesalpinia Family**

***Gledistia triacanthos* L.** Honey Locust N Tree  
Found in the KRL waste disposal parcels operated from 1954 to 1957 and 1963 to 1969 and in the SE corner control site.

## **Campanulaceae**

## **Bellflower Family**

***Campanula americana* L.** American Bellflower N Forb  
Found only in the OOMP floodplain community.

## **Caprifoliaceae**

## **Honeysuckle Family**

***Lonicera maackii* (Rupr.) Maxim.** Amur Honeysuckle A Shrub  
Found in two KRL waste disposal parcels operated from 1963 to 1969 and 1969 to 1976.

***Lonicera tatarica* L.** Tartarian Honeysuckle A Shrub  
Very common; found in all the KRL waste disposal parcels, and both control sites.

## **Caryophyllaceae**

## **Pink Family**

***Arenaria serpyllifolia* L.** Thyme-leaved Sandwort A Forb  
Found in two KRL waste disposal parcels operated from 1954 to 1957 and 1957 to 1960 and in the SE corner control site.

***Dianthus armeria* L.** Deptford Pink A Forb  
Very common: found in all the KRL waste disposal parcels, the SE corner control site, and in the OOMP oak savanna community.

***Paronychia canadensis* (L.) A.W. Wood** Forked Chickweed N Forb  
Found only in the KRL waste disposal parcel operated from 1960 to 1963.

***Saponaria officinalis* L.** Bouncing Bet A Forb  
Found in two KRL waste disposal parcels operated from 1954 to 1957 and 1960 to 1963.

***Silene latifolia* Poir.** White Campion A Forb  
Found in four KRL waste disposal parcels.

***Silene virginica* L.** Fire Pink N Forb  
Found only in the KRL waste disposal parcel operated from 1969 to 1976.

***Silene vulgaris* (Moench) Garcke** Bladder Campion A Forb  
Found in only the KRL waste disposal parcel operated from 1960 to 1963.

## **Celastraceae** Bittersweet Family

***Celastrus scandens* L.** American Bittersweet N Vine  
Found in the KRL waste disposal parcel operated from 1954 to 1957 and in the SE corner control site.

## **Cistaceae** Rock-rose Family

***Helianthemum canadense* (L.) Michx.** Rockrose  
N Forb (Potentially State Threatened)  
Found only in the OOMP sand barren community.

## **Clusiaceae** St. John's-wort Family

***Hypericum perforatum* L.** Common St. Johnswort A Forb  
Found in four KRL waste disposal parcels and in the SE corner control site.

***Hypericum prolificum* L.** Shrubby St. Johnswort N Shrub  
Found only in the OOMP oak savanna community.

## **Cornaceae** Dogwood Family

***Cornus amomum* Miller** Silky Dogwood N Shrub  
Found in three KRL waste disposal parcels and in the SE corner control site.

***Cornus drummondii* C. A. Mey.** Roughleaf Dogwood N Shrub  
Found in two KRL waste disposal parcels operated from 1954 to 1957 and 1960 to 1963 and in the SE corner control site.

***Cornus florida* L.** Flowering Dogwood N Shrub  
Found only in the OOMP oak savanna and deciduous woodland communities.

***Cornus racemosa* Lam.** Gray Dogwood N Shrub  
Found in three KRL waste disposal parcels, the floodplain control site, and in the OOMP floodplain community.

***Cornus stolonifera* Michx. (cultivated)** Red Oisier Dogwood N Shrub  
Found only in the KRL waste disposal parcel operated from 1954 to 1957.

## **Dipsacaceae** Teasel Family

***Dipsacus fullonum* L.** Common Teasel A Forb  
Found only in the KRL waste disposal parcel operated from 1969 to 1976.

## **Elaeagnaceae** Oleaster Family

***Elaeagnus angustifolia* L.** Russian Olive A Tree  
Found in two KRL waste disposal parcels operated from 1954 to 1957 and 1960 to 1963, and in the OOMP oak savanna community.

## **Equisetaceae** Horsetail Family

***Equisetum arvense* L.** Field Horsetail N Forb  
Found only in the OOMP floodplain community.

## **Ericaceae** Heath Family

***Gaultheria procumbens* L.** Wintergreen N Forb  
Found only in the OOMP deciduous woodland community.

***Vaccinium pallidum* Aiton** Blue-ridge Blueberry N Shrub  
Found in the OOMP oak savanna and deciduous woodland woodland.

***Vaccinium vacillans* Kalm** Early Low-bush Blueberry N Shrub  
Found only in the OOMP deciduous woodland community.

## **Euphorbiaceae** Spurge Family

***Acalypha virginica* L. var. *rhomboidea* (Raf.) Cooperr.** Three-seeded Mercury N Forb  
Found in the KRL waste disposal parcel operated from 1957 to 1960 and in the SE corner control site.

***Euphorbia corollata* L.** Flowering Spurge N Forb  
Found only in the OOMP sand barren and oak savanna communities.

***Euphorbia cyparissas* L.** Cypress Spurge A Forb  
Found only in the KRL waste disposal parcels operated from 1957 to 1960 and 1960 to 1963.

***Euphorbia nutans* Lag.** Spotted Spurge N Forb  
Found only in the KRL waste disposal parcel operated from 1957 to 1960.

## **Fabaceae**

## **Pea Family**

***Lespedeza capitata* Michx.** Bush-clover N Forb  
Found only in the OOMP sand barren and oak savanna communities.

***Lupinus perennis* L.** Wild Lupine  
N Forb (Potentially State Threatened)  
Found in the KRL SE corner control site and in the OOMP sand barren community.

***Medicago lupulina* L.** Black Medick A Forb  
Common at the KRL: found in four waste disposal parcels and in the SE corner control site.

***Melilotus albus* Medik.** White Sweet Clover A Forb  
Common at the KRL: found on all the waste disposal parcels and in the SE corner control site.

***Melilotus officinalis* (L.) Pall.** Yellow Sweet Clover A Forb  
Common at the KRL: found in all the waste disposal parcels and in the SE corner control site.

***Robinia pseudoacacia* L.** Black Locust A Tree  
Common at the KRL: found in all the waste disposal parcels and in the SE corner control site.

***Trifolium pretense* L.** Red Clover A Forb  
Found in the KRL waste disposal parcels operated from 1954 to 1957 and 1960 to 1963.

***Trifolium repens* L.** White Clover A Forb  
Found only in the KRL waste disposal parcel operated from 1957 to 1960.

## **Fagaceae**

## **Beech Family**

***Quercus alba* L.** White Oak N Tree  
Found in the KRL SE corner control site and in the OOMP oak savanna and deciduous woodland communities.

***Quercus bicolor* Willd.** Swamp White Oak N Tree  
Common in moist habitat: found in the KRL floodplain control site and in the OOMP floodplain community.

***Quercus rubra* L.** Red Oak N Tree  
Found in the KRL waste disposal parcel operated from 1969 to 1976, the SE corner control site, and in the OOMP sand barren, oak savanna, and deciduous woodland communities.

***Quercus velutina* Lam.** Black Oak N Tree  
Common at the KRL: found in three KRL waste disposal parcels, the SE corner control site, and in all four OOMP plant communities.

## **Geraniaceae** Geranium Family

***Geranium maculatum* L.** Wild Geranium N Forb  
Found in three KRL waste disposal parcels and in the SE corner control site.

## **Hamamelidaceae** Witch-hazel Family

***Hamamelis virginiana* L.** Witch Hazel N Tree  
Found in the KRL waste disposal parcel operated from 1954 to 1957, the SE corner control site, and in the OOMP deciduous woodland community.

## **Hippocastanaceae** Horse-chestnut Family

***Aesculus glabra* Willd.** Ohio Buckeye N Tree  
Common in moist habitat: found only in the KRL floodplain control site.

## **Juglandaceae** Walnut Family

***Juglans nigra* L.** Black Walnut N Tree  
Found in the KRL waste disposal parcel operated from 1963 to 1969, the SE corner control site, and in the OOMP floodplain community.

## **Lamiaceae** Mint Family

***Agastache nepetoides* (L.) Kuntze** Yellow Giant Hyssop N Forb  
Found only in the KRL waste disposal parcel operated from 1954 to 1957.

***Collinsonia canadensis* L.** Richweed N Forb  
Found in the KRL waste disposal parcel operated from 1969 to 1976, and the OOMP floodplain community.

***Glechoma hederaceae* L.** Ground Ivy A Forb  
Found only in the KRL waste disposal parcel operated from 1954 to 1957.

***Leonurus cardiaca* L.** Motherwort A Forb  
Common at the KRL: found in three waste disposal parcels and in the SE corner control site.

***Lycopus americanus* Muhl. ex W.P.C. Barton** Cut-leaved Water-horehound N Forb  
Found only in the KRL waste disposal parcel operated from 1969 to 1976.

***Monarda fistulosa* L.** Wild Bergamot N Forb  
Found in the KRL waste disposal parcel operated from 1963 to 1969 and in the SE corner control site.

***Nepeta cataria* L.** Catnip A Forb  
Common at the KRL: found in four waste disposal parcels and in the SE corner control site.

***Stachys aspera* Michx.** Hyssop Hedge Nettle N Forb  
Found only in the OOMP floodplain community.

***Stachys tenuifolia* Willd.** Common Hedge Nettle N Forb  
Found only in the OOMP floodplain community.

## **Lauraceae** Laurel Family

***Lindera benzoin* (L.) Blume var. *benzoin*** Spice Bush N Shrub  
Common in moist habitat: found in the KRL floodplain control site, and in the OOMP floodplain and deciduous woodland communities

***Sassafras albidum* (Nutt.) Nees** Sassafras N Tree  
Found in the KRL SE corner control site, and in the OOMP sand barren, oak savanna, and deciduous woodland communities.

## **Lythraceae** Loosestrife Family

***Lythrum alatum* Pursh** Winged Loosestrife N Forb  
Found only in the KRL waste disposal parcel operated from 1969 to 1976.

## **Malvaceae** Mallow Family

***Hibiscus trionum* L.** Flower-of-an-hour A Forb  
Found only in the KRL waste disposal parcel operated from 1960 to 1963.

**Moraceae** Mulberry Family

***Morus alba* L.** White Mulberry A Tree  
Common at the KRL: found in three waste disposal parcels and in the SE corner control site, and in the OOMP floodplain community.

**Myriaceae** Bayberry Family

***Comptonia peregrine* (L.) J.M. Coult.** Sweet Fern  
N Shrub (State Threatened)  
Found only in the OOMP oak savanna community.

**Oleaceae** Olive Family

***Fraxinus americana* L. var. *americana*** White Ash N Tree  
Common of moist habitat: found only in the OOMP floodplain community.

***Fraxinus pennsylvanica* Marshall var. *pennsylvanica***  
Green Ash N Tree  
Common at the KRL: found in all the waste disposal parcels and in the floodplain control site.

***Fraxinus pennsylvanica* Marshall var. *subintegerrima* (M. Vahl.) Fernald**  
Red Ash N Tree  
Common at the KRL, found in three waste disposal parcels and in both control sites.

***Fraxinus quadrangulata* Michx.** Blue Ash N Tree  
Found only in the KRL SE corner control site at the KRL.

***Ligustrum vulgare* L.** Common Privet A Shrub  
Common at the KRL: found in three waste disposal parcels.

**Onagraceae** Evening-primrose Family

***Circaeae lutetiana* L. var. *canadensis* L.**  
Enchanter's Nightshade N Forb  
Found in the KRL waste disposal parcels operated from 1954 to 1957 and 1957 to 1960, the SE corner control site, and in the OOMP floodplain community.

***Oenothera biennis* L. var. *biennis***

Common Evening Primrose N Forb

Found in the KRL waste disposal parcels operated from 1957 to 1960 and 1960 to 1963, and in the OOMP sand barren and oak savanna communities.

**Oxalidaceae**

**Wood-sorrel Family**

***Oxalis stricta* L.**

Common Yellow Wood-sorrel N Forb

Common at the KRL: found in all waste disposal parcels and in the SE corner control site.

**Phytolaccaceae**

**Pokeweed Family**

***Phytolacca americana* L.**

American Pokeweed N Forb

Found in the KRL waste disposal parcels operated from 1963 to 1969 and 1969 to 1976.

**Plantaginaceae**

**Plantain Family**

***Plantago lanceolata* L.**

English Plantain A Forb

Found in three KRL waste disposal parcels.

***Plantago major* L.**

Common Plantain A Forb

Found in three KRL waste disposal parcels.

**Polygalaceae**

**Milkwort Family**

***Polygala polygama* Walter**

Racemed Milkwort N Forb (State Threatened)

Found only in the OOMP sand barren and the oak savanna communities.

**Polygonaceae**

**Buckwheat Family**

***Polygonum convolvulus* L.**

Black Bindweed A Vine

Common at the KRL: found in four waste disposal parcels and in the SE corner control site.

***Polygonum pensylvanicum* L.**

Pennsylvania Smartweed N Forb

Found in the KRL waste disposal parcel operated from 1960 to 1963 and the OOMP floodplain community.

***Polygonum persicaria* L.**

Lady's Thumb A Forb

Found only in the OOMP floodplain community.

***Polygonum virginianum* L.** Jumpseed N Forb  
Found in the KRL waste disposal parcel operated from 1963 to 1969, the floodplain control site, and in the OOMP floodplain community.

***Rumex acetosella* L.** Red Sorrel A Forb  
Found only in the OOMP sand barren community.

***Rumex crispus* L.** Curly Dock A Forb  
Common at the KRL: found in all the waste disposal parcels and the SE corner control site.

***Rumex obtusifolius* L.** Bitter Dock A Forb  
Found only in the KRL waste disposal parcel operated from 1954 to 1957.

## **Primulaceae** Primrose Family

***Lysimachia ciliata* L.** Fringed Loosestrife N Forb  
Found only in the KRL floodplain control site.

***Lysimachia nummularia* L.** Moneywort A Forb  
Common in moist habitat: found in the KRL floodplain control site and the OOMP floodplain community.

***Lysimachia quadrifolia* L.** Whorled Loosestrife N Forb  
Found in the KRL floodplain control site and the OOMP oak savanna community.

## **Ranunculaceae** Buttercup Family

***Ranunculus hispidus* Michx. var. *hispidus***  
Hispid Buttercup N Forb  
Found in the KRL floodplain control site and the OOMP oak savanna community.

***Ranunculus hispidus* Michx. var. *nitidus* (Chapm.) T. Duncan**  
Swamp Buttercup N Forb  
Found only in the KRL floodplain control site.

***Thalictrum thalictroides* (L.) A. J. Eames & B. Boivin**  
Rue Anemone N Forb  
Found in the KRL SE corner control site and in the OOMP floodplain community.

## **Rhamnaceae** Buckthorn Family

***Ceanothus americanus* L.** New Jersey Tea N Shrub  
Found only in the SE corner control site.

***Rhamnus cathartica* L.** Common Buckthorn A Tree  
Common at the KRL: found in four waste disposal parcels and in the SE corner control site.

## **Rosaceae** Rose Family

***Amelanchier arborea* (F. Michx.) Fernald**  
Downy Serviceberry N Tree  
Found only in the OOMP deciduous woodland community.

***Crataegus* spp.** Hawthorn spp.  
Common at the KRL: found in three waste disposal parcels and in the SE corner control site.

***Fragaria vesca* L.** Woodland Strawberry N Shrub  
Found only in the KRL SE corner control site.

***Geum canadense* Jacq.** White Avens N Forb  
Common at the KRL, found in three waste disposal parcels and both control sites, and in the OOMP floodplain community.

***Photinia floribunda* (Lindl.) K. R. Robertson & J. B. Phipps**  
Chokeberry N Shrub  
Found in only the KRL waste disposal parcel operated from 1969 to 1976.

***Potentilla recta* L.** Sulphur Cinquefoil A Forb  
Common at the KRL: found in four of the waste disposal parcels.

***Potentilla* spp.** Cinquefoil spp.  
Found in the OOMP sand barren and oak savanna communities.

***Prunus americana* Marshall** American Plum N Tree  
Found in the KRL waste disposal parcel operated from 1963 to 1969 and in the SE corner control site.

***Prunus avium* (L.) L.** Sweet Cherry A Shrub  
Found only in the KRL SE corner control site.

***Prunus serotina* Ehrh.** Black Cherry N Tree  
Common plant: found in four waste disposal parcels and the southeast corner control site at the KRL and in the OOMP sand barren, oak savanna, and deciduous woodland communities.

- Prunus sp.*** Prunus sp.  
Found only in the KRL waste disposal parcel operated from 1963 to 1969.
- Prunus virginiana L.*** Choke Cherry N Shrub  
Found in the KRL waste disposal parcel operated from 1969 to 1976 and the SE corner control site, and in the OOMP sand barren community.
- Rubus allegheniensis Porter*** Allegheny Blackberry N Shrub  
Found only in the OOMP sand barren community.
- Rubus flagellaris Willd.*** Northern Dewberry N Shrub  
Common plant, found in three waste disposal parcels and the southeast corner control site at the KRL, and in the OOMP sand barren, oak savanna, and deciduous woodland communities.
- Rubus hispidus L.*** Bristly Dewberry N Shrub  
Found only in the OOMP deciduous woodland community.
- Rubus occidentalis L.*** Black Raspberry N Shrub  
Common at the KRL: found in all the waste disposal parcels and the SE corner control site.
- Rubus pensilvanicus Poir.*** Pennsylvania Blackberry N Shrub  
Found only in the KRL SE corner control site.
- Spirea alba Du Roi var. alba*** Meadow-sweet N Shrub  
Found only in the OOMP oak savanna community.

## **Rubiaceae**

## **Madder Family**

- Galium asprellum Michx.*** Rough Bedstraw N Forb  
Found only in the OOMP floodplain community.
- Galium circaezans Michx.*** Wild Licorice N Forb  
Found in the KRL SE corner control site and in the OOMP oak savanna community.

## **Rutaceae**

## **Rue Family**

- Zanthoxylum americanum Mill.*** Prickly-ash N Tree  
Found only in the KRL waste disposal parcel operated from 1969 to 1976.

## **Saliaceae**

## **Willow Family**

***Populus deltoides* W. Bartram ex Marshall** Cottonwood N Tree  
Common at the KRL: found in all the waste disposal parcels and the SE corner control site, and in the OOMP sand barren and oak savanna communities.

***Salix discolor* Muhl.** Pussy Willow N Shrub  
Found only in the OOMP sand barren community.

***Salix humilis* var. *tristis* (Aiton) Griggs** Prairie Willow N Shrub  
Found only in the KRL waste disposal parcel operated from 1960 to 1963.

***Salix nigra* Marshall** Black Willow N Tree  
Found only in the OOMP floodplain community.

## Scrophulariaceae

## Figwort Family

***Penstemon digitalis* Nutt. ex Sims** Bearded Foxglove N Forb  
Found only in the KRL waste disposal parcel operated from 1960 to 1963.

***Verbascum blattaria* L.** Moth Mullein A Forb  
Found in the KRL waste disposal parcels operated from 1954 to 1957 and 1963 to 1969.

***Verbascum thapsus* L.** Common Mullein A Forb  
Common at the KRL, found in all the waste disposal parcels and the SE corner control site, and in the OOMP oak savanna community.

***Veronica arvensis* L.** Corn Speedwell A Forb  
Found in the KRL waste disposal parcels operated from 1957 to 1960 and 1960 to 1963.

## Simaroubaceae

## Quassia Family

***Ailanthus altissima* (Mill.) Swingle** Tree-of-heaven A Tree  
Common at the KRL: found in four waste disposal parcels and the SE corner control site.

## Solanaceae

## Nightshade Family

***Datura stramonium* L.** Jimsonweed A Forb  
Found only in the KRL waste disposal parcel operated from 1957 to 1960.

***Physalis heterophylla* Nees** Clammy Ground Cherry N Forb  
Found only in the KRL waste disposal parcel operated from 1957 to 1960.

***Solanum carolinense* L.** Horsenettle A Forb  
Found in three KRL waste disposal parcels.

## **Tiliaceae** Linden Family

***Tilia americana* L.** American Basswood N Tree  
Common of moist habitat: found only in the KRL floodplain control site.

## **Ulmaceae** Elm Family

***Celtis occidentalis* L.** Hackberry N Tree  
Common in moist habitat: found in the KRL waste disposal parcels operated from 1963 to 1969 and 1969 to 1976 and in the floodplain control site, and the OOMP floodplain community.

***Ulmus americana* L.** American Elm N Tree  
Common of moist habitat: found in the OOMP floodplain community, and in the KRL waste disposal parcels operated from 1963 to 1969 and 1969 to 1976 and floodplain control site.

***Ulmus pumila* L.** Chinese Elm A Tree  
Common at the KRL: found in all the waste disposal parcels and in the SE corner control site.

***Ulmus rubra* Muhl.** Slippery Elm N Tree  
Found in the KRL waste disposal parcel operated from 1969 to 1976 and the SE control site.

## **Urticaceae** Nettle Family

***Boehmeria cylindrica* (L.) Sw.** False Nettle N Forb  
Found in KRL waste disposal parcels operated from 1960 to 1963 and 1969 to 1976 and in the floodplain control site.

***Laportea canadensis* (L.) Wedd.** Wood Nettle N Forb  
Common in moist habitat: found in the KRL floodplain control site and the OOMP floodplain community.

***Pilea pumila* (L.) A. Gray** Clearweed N Forb  
Common in moist habitat: found in the KRL floodplain control site and the OOMP floodplain community.

***Urtica dioica* L. var. *procera*** Tall Nettle N Forb  
Found in the KRL waste disposal parcel operated from 1957 to 1960 and the OOMP floodplain community.

## **Verbenaceae**

## **Vervain Family**

***Verbena urticifolia* L.** White Vervain N Forb  
Found in the KRL waste disposal parcels operated from 1963 to 1969 and 1969 to 1976 and the OOMP floodplain community.

## **Violaceae**

## **Violet Family**

***Viola pubescens* Aiton** Common Yellow Violet N Forb  
Found only in the KRL floodplain control site.

***Viola sagittata* Aiton** Arrow-leaved Violet N Forb  
Found only in the OOMP oak savanna community.

## **Vitaceae**

## **Grape Family**

***Parthenocissus quinquefolia* (L.) Planch.** Virginia Creeper A Vine  
Common in most habitats, found in all of the KRL waste disposal parcels and control sites, and in the OOMP floodplain and deciduous woodland communities.

***Vitis aestivalis* Michx.** Summer Grape N Vine  
Common in most habitats, found in all of the KRL waste disposal parcels and control sites, and the OOMP oak savanna community.