

Argonne National Laboratory 2018-2020 Ecology Survey Summary



Environmental Science Division

About Argonne National Laboratory

Argonne is a U.S. Department of Energy laboratory managed by UChicago Argonne, LLC under contract DE-AC02-06CH11357. The Laboratory's main facility is outside Chicago, at 9700 South Cass Avenue, Argonne, Illinois 60439. For information about Argonne, see www.anl.gov.

Disclaimer

This report was prepared as an account of work sponsored by an agency of the United States Government. Neither the United States Government nor any agency thereof, nor UChicago Argonne, LLC, nor any of their employees or officers, makes any warranty, express or implied, or assumes any legal liability or responsibility for the accuracy, completeness, or usefulness of any information, apparatus, product, or process disclosed, or represents that its use would not infringe privately owned rights. Reference herein to any specific commercial product, process, or service by trade name, trademark, manufacturer, or otherwise, does not necessarily constitute or imply its endorsement, recommendation, or favoring by the United States Government or any agency thereof. The views and opinions of document authors expressed herein do not necessarily state or reflect those of the United States Government or any agency thereof.

Argonne National Laboratory 2018-2020 Ecology Survey Summary

prepared by

R. A. Van Lonkhuizen
Environmental Science Division
Argonne National Laboratory

February 2022

Argonne National Laboratory 2018-2020 Ecology Survey Summary

A review of the floristic quality of the entire Argonne site is conducted every three years upon completion of the survey of the eastern area of the site. A comparison of the summary results helps to understand the effect of the overall Natural Resource Management program on Argonne's natural area quality. The results of the first triennial summary, including the years 2012, 2013, and 2014, were 665 total species, with 475 natives (71.4%) and 190 non-natives. The native mean *C* was 4.3 and total mean *C* was 3.1, while the native Floristic Quality Index (FQI) was 93.7 and total FQI was 79.9. The second triennial summary included the surveys from the years 2015, 2016, and 2017. The results of the second triennial summary were 687 total species, with 501 natives (72.9%), 186 non-natives, a native mean *C* of 4.4, total mean *C* of 3.2, a native FQI of 98.5, and total FQI of 83.9. The recently completed triennial summary, including the 2018, 2019, and 2020 surveys, resulted in 758 total species, with 541 natives (71.4%), 217 non-natives, a native mean *C* of 4.5, total mean *C* of 3.2, a native FQI of 104.7, and total FQI of 88.1. These results indicate an overall improvement in the floristic quality of the Argonne site.

Floristic Quality Assessment Results

Years	Native Species	Non-native Species	Total Species	Native Mean C	Total Mean C	Native FQI	Total FQI
2012-2014	475	190	665	4.3	3.1	93.7	79.9
2015-2017	501	186	687	4.4	3.2	98.5	83.9
2018-2020	541	217	758	4.5	3.2	104.7	88.1

Plant Species Recorded in Argonne Surveys 2018-2020 (non-native species are in italics)

Scientific Name	Common Name	Scientific Name	Common Name
<i>Abutilon theophrasti</i>	velvetleaf	<i>Agalinis tenuifolia</i>	slender false foxglove
<i>Acalypha rhomboidea</i>	three-seeded mercury	<i>Agastache nepetoides</i>	yellow giant hyssop
<i>Acalypha virginica</i>	Virginia mercury	<i>Ageratina altissima</i>	white snakeroot
<i>Acer ginnala</i>	amur maple	<i>Agrimonia gryposepala</i>	tall agrimony
<i>Acer negundo</i>	boxelder	<i>Agrimonia parviflora</i>	swamp agrimony
<i>Acer platanoides</i>	Norway maple	<i>Agrimonia pubescens</i>	soft agrimony
<i>Acer saccharinum</i>	silver maple	<i>Agrimonia rostellata</i>	beaked agrimony
<i>Acer saccharum</i>	sugar maple	<i>Agrostis gigantea</i>	redtop
<i>Achillea millefolium</i>	common yarrow	<i>Agrostis perennans</i>	thin grass
<i>Acorus americanus</i>	American sweet flag	<i>Agrostis stolonifera</i>	creeping bent grass
<i>Acorus calamus</i>	Eurasian sweet flag	<i>Ailanthus altissima</i>	tree of heaven
<i>Actaea pachypoda</i>	white baneberry	<i>Alisma subcordatum</i>	common water plantain
<i>Adiantum pedatum</i>	maidenhair fern	<i>Alisma triviale</i>	large-flowered water plantain

Scientific Name	Common Name	Scientific Name	Common Name
<i>Alliaria petiolata</i>	garlic mustard	<i>Asparagus officinalis</i>	asparagus
<i>Allium burdickii</i>	Chicago leek	<i>Athyrium filix-femina</i>	lady fern
<i>Allium canadense</i>	wild onion	<i>Atriplex patula</i>	common orach
<i>Allium cernuum</i>	nodding wild onion	<i>Atriplex prostrata</i>	arrow-leaved orach
<i>Allium sativum</i>	garlic	<i>Avena sativa</i>	seed oats
<i>Allium tricoccum</i>	wild leek	<i>Baptisia lactea</i>	white wild indigo
<i>Allium vineale</i>	field garlic	<i>Barbarea vulgaris</i>	common yellow rocket
<i>Alopecurus pratensis</i>	meadow foxtail	<i>Berberis thunbergii</i>	Japanese barberry
<i>Amaranthus tuberculatus</i>	water hemp	<i>Bidens cernua</i>	nodding bur marigold
<i>Ambrosia artemisiifolia</i>	common ragweed	<i>Bidens comosa</i>	straw-stemmed tickseed
<i>Ambrosia psilostachya</i>	western ragweed	<i>Bidens connata</i>	purple-stemmed tickseed
<i>Ambrosia trifida</i>	giant ragweed	<i>Bidens frondosa</i>	common beggars ticks
<i>Amphicarpaea bracteata</i>	upland hog peanut	<i>Bidens polylepis</i>	bur marigold
<i>Amphicarpaea bracteata</i> var. <i>comosa</i>	lowland hog peanut	<i>Bidens vulgata</i>	tall beggars ticks
<i>Anagallis arvensis</i>	scarlet pimpernel	<i>Boechera laevigata</i>	smooth bank cress
<i>Andropogon gerardii</i>	big bluestem	<i>Boehmeria cylindrica</i>	swamp false nettle
<i>Anemone canadensis</i>	meadow anemone	<i>Bolboschoenus fluviatilis</i>	river bulrush
<i>Anemone quinquefolia</i>	wood anemone	<i>Boltonia asteroides</i>	false aster
<i>Anemone virginiana</i>	eastern tall anemone	<i>Botrypus virginianus</i>	rattlesnake fern
<i>Anemone virginiana</i> var. <i>alba</i>	northern tall anemone	<i>Bouteloua curtipendula</i>	side-oats grama
<i>Anemonella thalictroides</i>	rue anemone	<i>Brassica nigra</i>	black mustard
<i>Angelica atropurpurea</i>	great angelica	<i>Bromus inermis</i>	Hungarian brome
<i>Antennaria parlinii</i>	green everlasting	<i>Bromus japonicus</i>	Japanese chess
<i>Antenoron virginianum</i>	jumpseed	<i>Bromus kalmii</i>	prairie brome
<i>Apios americana</i>	ground nut	<i>Bromus latiglumis</i>	ear-leaved brome
<i>Apocynum androsaemifolium</i>	spreading dogbane	<i>Bromus nottowanus</i>	glossy-leaved brome
<i>Apocynum cannabinum</i> var. <i>glaberrimum</i>	smooth dogbane	<i>Bromus tectorum</i>	downy chess
<i>Apocynum sibiricum</i>	smooth Indian hemp	<i>Calamagrostis canadensis</i>	blue joint grass
<i>Aquilegia canadensis</i>	wild columbine	<i>Caltha palustris</i>	marsh marigold
<i>Arctium lappa</i>	great burdock	<i>Calystegia sepium</i>	hedge bindweed
<i>Arctium minus</i>	common burdock	<i>Calystegia spithamea</i>	low bindweed
<i>Arisaema dracontium</i>	green dragon	<i>Camassia scilloides</i>	wild hyacinth
<i>Arisaema triphyllum</i>	jack-in-the-pulpit	<i>Campanulastrum americanum</i>	tall bellflower
<i>Aristida oligantha</i>	plains three-awn	<i>Campsis radicans</i>	trumpet creeper
<i>Armoracia rusticana</i>	horse radish	<i>Capsella bursa-pastoris</i>	shepherds purse
<i>Artemisia vulgaris</i>	mugwort	<i>Cardamine bulbosa</i>	bulbous cress
<i>Asarum canadense</i> var. <i>reflexum</i>	reflexed wild ginger	<i>Carduus acanthoides</i>	plumeless thistle
<i>Asclepias exaltata</i>	poke milkweed	<i>Carduus nutans</i>	musk thistle
<i>Asclepias incarnata</i>	swamp milkweed	<i>Carex aggregata</i>	smooth clustered sedge
<i>Asclepias purpurascens</i>	purple milkweed	<i>Carex albursina</i>	blunt-scaled wood sedge
<i>Asclepias syriaca</i>	common milkweed	<i>Carex annectens</i>	large-seeded fox sedge
<i>Asclepias tuberosa</i>	butterfly weed	<i>Carex annectens</i> var. <i>xanthocarpa</i>	small-seeded fox sedge
<i>Asclepias verticillata</i>	whorled milkweed	<i>Carex atherodes</i>	hairy-leaved lake sedge

Scientific Name	Common Name	Scientific Name	Common Name
<i>Carex australis</i>	southern bracted sedge	<i>Ceratophyllum demersum</i>	coontail
<i>Carex blanda</i>	common wood sedge	<i>Cercis canadensis</i>	redbud
<i>Carex brevior</i>	plains oval sedge	<i>Chaenorhinum minus</i>	small snapdragon
<i>Carex bushii</i>	long-scaled green sedge	<i>Chaiturus marrubiastrum</i>	lions tail
<i>Carex cephalophora</i>	short-headed bracted sedge	<i>Chamaecrista fasciculata</i>	common partridge pea
<i>Carex comosa</i>	bristly sedge	<i>Chamaesyce maculata</i>	spotted creeping spurge
<i>Carex conjuncta</i>	green-headed fox sedge	<i>Chamaesyce nutans</i>	nodding spurge
<i>Carex cristatella</i>	crested oval sedge	<i>Chenopodium album</i>	lamb's quarters
<i>Carex frankii</i>	bristly cattail sedge	<i>Chenopodium glaucum</i>	oak-leaved goosefoot
<i>Carex granularis</i>	pale sedge	<i>Chenopodium standleyanum</i>	woodland goosefoot
<i>Carex gravida</i>	long-awned bracted sedge	<i>Chionanthus virginicus</i>	fringe tree
<i>Carex grisea</i>	wood gray sedge	<i>Cichorium intybus</i>	chicory
<i>Carex hirsutella</i>	fuzzy wuzzy sedge	<i>Cicuta maculata</i>	water hemlock
<i>Carex hirtifolia</i>	hairy wood sedge	<i>Cinna arundinacea</i>	common wood reed
<i>Carex hystericina</i>	porcupine sedge	<i>Circaea canadensis</i>	enchanters nightshade
<i>Carex jamesii</i>	grass sedge	<i>Cirsium arvense</i>	field thistle
<i>Carex lacustris</i>	common lake sedge	<i>Cirsium discolor</i>	pasture thistle
<i>Carex lupulina</i>	common hop sedge	<i>Cirsium vulgare</i>	bull thistle
<i>Carex lurida</i>	bottlebrush sedge	<i>Claytonia virginica</i>	spring beauty
<i>Carex mesochorea</i>	midland bracted sedge	<i>Clematis virginiana</i>	virgins bower
<i>Carex molesta</i>	field oval sedge	<i>Commelina communis</i>	common day flower
<i>Carex normalis</i>	spreading oval sedge	<i>Conium maculatum</i>	poison hemlock
<i>Carex pellita</i>	prairie woolly sedge	<i>Convallaria majalis</i>	lily-of-the-valley
<i>Carex pennsylvanica</i>	common oak sedge	<i>Convolvulus arvensis</i>	field bindweed
<i>Carex rosea</i>	curly-styled wood sedge	<i>Conyza canadensis</i>	tall horseweed
<i>Carex sartwellii</i>	running prairie sedge	<i>Coreopsis grandiflora</i>	large-flowered coreopsis
<i>Carex scoparia</i>	broom oval sedge	<i>Coreopsis palmata</i>	prairie coreopsis
<i>Carex sparganioides</i>	loose-headed bracted sedge	<i>Coreopsis tinctoria</i>	golden coreopsis
<i>Carex stipata</i>	common fox sedge	<i>Coreopsis tripteris</i>	tall coreopsis
<i>Carex stricta</i>	common tussock sedge	<i>Cornus drummondii</i>	rough-leaved dogwood
<i>Carex swanii</i>	downy green sedge	<i>Cornus florida</i>	flowering dogwood
<i>Carex tenera</i>	narrow-leaved oval sedge	<i>Cornus obliqua</i>	blue-fruited dogwood
<i>Carex tribuloides</i>	awl-fruited oval sedge	<i>Cornus racemosa</i>	gray dogwood
<i>Carex trichocarpa</i>	hairy-fruited lake sedge	<i>Corylus americana</i>	American hazelnut
<i>Carex vulpinoidea</i>	brown fox sedge	<i>Cotoneaster divaricatus</i>	spreading cotoneaster
<i>Carya cordiformis</i>	bitternut hickory	<i>Crataegus coccinea</i>	scarlet hawthorn
<i>Carya ovata</i>	shagbark hickory	<i>Crataegus crus-galli</i>	shining cockspur hawthorn
<i>Catalpa speciosa</i>	northern cigar tree	<i>Crataegus mollis</i>	downy hawthorn
<i>Celastrus orbiculatus</i>	oriental bittersweet	<i>Crataegus monogyna</i>	single-seeded hawthorn
<i>Celtis occidentalis</i>	hackberry	<i>Crataegus phaenopyrum</i>	Washington hawthorn
<i>Centaurea cyanus</i>	bachelors button	<i>Crataegus pruinosa</i>	frosted hawthorn
<i>Centaurea jacea</i>	brown knapweed	<i>Crataegus punctata</i>	dotted hawthorn
<i>Centaureum pulchellum</i>	showy centauray	<i>Crypsis schoenoides</i>	false timothy
<i>Cerastium fontanum</i>	mouse-ear chickweed	<i>Cryptotaenia canadensis</i>	honestwort

Scientific Name	Common Name	Scientific Name	Common Name
<i>Cuscuta gronovii</i>	common dodder	<i>Eleocharis erythropoda</i>	red-rooted spikerush
<i>Cyperus bipartitus</i>	brook flat sedge	<i>Eleocharis obtusa</i>	blunt spikerush
<i>Cyperus erythrorhizos</i>	red-rooted nut sedge	<i>Eleocharis palustris</i>	marsh spikerush
<i>Cyperus esculentus</i> var. <i>leptostachyus</i>	field nut sedge	<i>Eleocharis verrucosa</i>	wiry spikerush
<i>Cyperus odoratus</i>	rusty nut sedge	<i>Eleutherococcus sieboldianus</i>	five-fingered aralia
<i>Cyperus squarrosus</i>	awned flat sedge	<i>Elodea canadensis</i>	common waterweed
<i>Cyperus strigosus</i>	long-scaled nut sedge	<i>Elymus canadensis</i>	Canada wild rye
<i>Cystopteris protrusa</i>	woodland fragile fern	<i>Elymus riparius</i>	riverbank wild rye
<i>Dactylis glomerata</i>	orchard grass	<i>Elymus villosus</i>	silky wild rye
<i>Dalea candida</i>	white prairie clover	<i>Elymus virginicus</i>	Virginia wild rye
<i>Dalea purpurea</i>	purple prairie clover	<i>Elymus virginicus</i> var. <i>intermedius</i>	hairy wild rye
<i>Danthonia spicata</i>	poverty oat grass	<i>Elymus virginicus</i> var. <i>jejunus</i>	stalked wild rye
<i>Datura stramonium</i>	jimson weed	<i>Elytrigia repens</i>	quack grass
<i>Daucus carota</i>	Queen Annes lace	<i>Endodeca serpentaria</i>	Virginia snakeroot
<i>Dentaria laciniata</i>	toothwort	<i>Epilobium coloratum</i>	cinnamon willowherb
<i>Desmanthus illinoensis</i>	Illinois bundleflower	<i>Epilobium hirsutum</i>	hairy willowherb
<i>Desmodium canadense</i>	showy ticktrefoil	<i>Epipactis helleborine</i>	helleborine
<i>Desmodium illinoense</i>	Illinois ticktrefoil	<i>Equisetum arvense</i>	horsetail
<i>Desmodium perplexum</i>	perplexed ticktrefoil	<i>Equisetum hyemale</i>	tall scouring rush
<i>Dianthus armeria</i>	deptford pink	<i>Eragrostis pectinacea</i>	small love grass
<i>Dicentra cucullaria</i>	dutchmans breeches	<i>Erechtites hieraciifolius</i>	American burnweed
<i>Dichanthelium huachucae</i>	old-field panic grass	<i>Erigeron annuus</i>	annual fleabane
<i>Dichanthelium implicatum</i>	common panic grass	<i>Erigeron philadelphicus</i>	marsh fleabane
<i>Dichanthelium latifolium</i>	broad-leaved panic grass	<i>Erigeron strigosus</i>	daisy fleabane
<i>Digitaria ischaemum</i>	smooth crabgrass	<i>Eriochloa contracta</i>	prairie cup grass
<i>Digitaria sanguinalis</i>	hairy crabgrass	<i>Eriochloa villosa</i>	Chinese cup grass
<i>Dioscorea villosa</i>	wild yam	<i>Eryngium yuccifolium</i>	rattlesnake master
<i>Dipsacus fullonum</i>	common teasel	<i>Erythronium albidum</i>	white trout lily
<i>Dipsacus laciniatus</i>	cut-leaved teasel	<i>Euonymus alatus</i>	winged euonymus
<i>Dodecatheon meadia</i>	shooting star	<i>Euonymus europaeus</i>	European spindle tree
<i>Dryopteris carthusiana</i>	spinulose shield fern	<i>Euonymus fortunei</i>	wintercreeper
<i>Dryopteris cristata</i>	crested wood fern	<i>Euonymus phellomanus</i>	cork spindle tree
<i>Duchesnea indica</i>	Indian strawberry	<i>Eupatorium altissimum</i>	tall boneset
<i>Dyssodia papposa</i>	fetid marigold	<i>Eupatorium perfoliatum</i>	common boneset
<i>Echinacea pallida</i>	pale purple coneflower	<i>Eupatorium serotinum</i>	late boneset
<i>Echinacea purpurea</i>	purple coneflower	<i>Euphorbia corollata</i>	flowering spurge
<i>Echinochloa crus-galli</i>	barnyard grass	<i>Euphorbia davidii</i>	Dauids spurge
<i>Echinochloa muricata</i>	spiny barnyard grass	<i>Euthamia graminifolia</i>	smooth grass-leaved goldenrod
<i>Eclipta prostrata</i>	yerba de tajo	<i>Euthamia nuttallii</i>	hairy grass-leaved goldenrod
<i>Elaeagnus umbellata</i> var. <i>parvifolia</i>	Himalayan autumn olive	<i>Eutrochium maculatum</i>	spotted joe pye weed
<i>Eleocharis acicularis</i>	needle spikerush	<i>Eutrochium purpureum</i>	purple joe pye weed
<i>Eleocharis compressa</i>	prairie spikerush	<i>Fallopia convolvulus</i>	black bindweed

Scientific Name	Common Name	Scientific Name	Common Name
<i>Fallopia cristata</i>	crested false buckwheat	<i>Hesperis matronalis</i>	dames rocket
<i>Fallopia scandens</i>	climbing false buckwheat	<i>Hibiscus laevis</i>	halberd-leaved rose mallow
<i>Festuca subverticillata</i>	nodding fescue	<i>Hibiscus palustris</i>	northern rose mallow
<i>Floerkea proserpinacoides</i>	false mermaid	<i>Hibiscus trionum</i>	flower-of-an-hour
<i>Fragaria virginiana</i>	wild strawberry	<i>Hieracium caespitosum</i>	yellow field hawkweed
<i>Frangula alnus</i>	glossy buckthorn	<i>Hierochloe hirta</i>	sweet grass
<i>Frasera caroliniensis</i>	American columbo	<i>Hordeum jubatum</i>	squirrel-tail barley
<i>Fraxinus americana</i>	white ash	<i>Hosta lancifolia</i>	little blue plantain lily
<i>Fraxinus lanceolata</i>	green ash	<i>Hydrastis canadensis</i>	goldenseal
<i>Fraxinus pennsylvanica</i>	red ash	<i>Hydrophyllum appendiculatum</i>	great waterleaf
<i>Fraxinus quadrangulata</i>	blue ash	<i>Hydrophyllum virginianum</i>	Virginia waterleaf
<i>Gaillardia pulchella</i>	blanket flower	<i>Hylodesmum glutinosum</i>	pointed ticktrefoil
<i>Galium aparine</i>	wild velcro	<i>Hylotelephium erythrostictum</i>	garden orpine
<i>Galium circaezans</i> var. <i>hypomalacum</i>	hairy wild licorice	<i>Hypericum perforatum</i>	common St Johns wort
<i>Galium concinnum</i>	shining bedstraw	<i>Hypericum punctatum</i>	spotted St Johns wort
<i>Galium obtusum</i>	wild madder	<i>Hystrix patula</i>	bottlebrush grass
<i>Galium tinctorium</i>	stiff bedstraw	<i>Impatiens capensis</i>	spotted touch-me-not
<i>Galium triflorum</i>	sweet-scented bedstraw	<i>Impatiens pallida</i>	pale touch-me-not
<i>Gaura longiflora</i>	common gaura	<i>Ipomoea hederacea</i>	ivy-leaved morning glory
<i>Geranium maculatum</i>	wild geranium	<i>Ipomoea pandurata</i>	wild sweet potato
<i>Geum canadense</i>	white avens	<i>Iris pseudacorus</i>	tall yellow iris
<i>Geum laciniatum</i>	rough avens	<i>Iris virginica</i> var. <i>shrevei</i>	blue flag
<i>Glechoma hederacea</i>	creeping charlie	<i>Isanthus brachiatus</i>	false pennyroyal
<i>Gleditsia triacanthos</i>	honey locust	<i>Juglans nigra</i>	black walnut
<i>Glyceria septentrionalis</i>	floating manna grass	<i>Juncus antheratus</i>	tall path rush
<i>Glyceria striata</i>	green fowl manna grass	<i>Juncus bufonius</i>	toad rush
<i>Gymnocladus dioicus</i>	Kentucky coffee tree	<i>Juncus dudleyi</i>	Dudleys rush
<i>Hackelia virginiana</i>	stickseed	<i>Juncus effusus</i>	soft rush
<i>Hedeoma pulegioides</i>	American pennyroyal	<i>Juncus tenuis</i>	path rush
<i>Helenium autumnale</i>	sneezeweed	<i>Juncus torreyi</i>	Torreys rush
<i>Helianthus annuus</i>	garden sunflower	<i>Juniperus virginiana</i>	red cedar
<i>Helianthus divaricatus</i>	woodland sunflower	<i>Kickxia elatine</i>	fluellin
<i>Helianthus grosseserratus</i>	sawtooth sunflower	<i>Krigia biflora</i>	false dandelion
<i>Helianthus hirsutus</i>	hispid sunflower	<i>Lactuca biennis</i>	blue lettuce
<i>Helianthus maximiliani</i>	Maximilian sunflower	<i>Lactuca canadensis</i>	wild lettuce
<i>Helianthus mollis</i>	downy sunflower	<i>Lactuca floridana</i>	wood lettuce
<i>Helianthus pauciflorus</i>	prairie sunflower	<i>Lactuca saligna</i>	willow lettuce
<i>Helianthus strumosus</i>	savanna sunflower	<i>Lactuca serriola</i>	prickly lettuce
<i>Helianthus tuberosus</i>	Jerusalem artichoke	<i>Laportea canadensis</i>	wood nettle
<i>Heliopsis helianthoides</i>	false sunflower	<i>Lathyrus palustris</i>	marsh vetchling
<i>Hemerocallis fulva</i>	orange daylily	<i>Lathyrus tuberosus</i>	Dutch mice
<i>Hepatica acutiloba</i>	sharp-lobed hepatica	<i>Lathyrus venosus</i>	veiny pea
<i>Heracleum maximum</i>	cow parsnip	<i>Leersia oryzoides</i>	rice cut grass

Scientific Name	Common Name	Scientific Name	Common Name
<i>Leersia virginica</i>	white grass	<i>Lythrum alatum</i>	winged loosestrife
<i>Lemna minor</i>	green duckweed	<i>Lythrum salicaria</i>	purple loosestrife
<i>Lemna trisulca</i>	forked duckweed	<i>Maclura pomifera</i>	osage orange
<i>Lemna turionifera</i>	red duckweed	<i>Malus baccata</i>	Siberian crab apple
<i>Leonurus cardiaca</i>	motherwort	<i>Malus floribunda</i>	Japanese flowering crab apple
<i>Lepidium campestre</i>	field cress	<i>Malus ioensis</i>	Iowa crab apple
<i>Lepidium virginicum</i>	common pepper cress	<i>Malus prunifolia</i>	plum-leaved crab apple
<i>Leptochloa acuminata</i>	greater salt-meadow grass	<i>Malus pumila</i>	apple
<i>Leptochloa fascicularis</i>	lesser salt-meadow grass	<i>Malus toringo</i>	Japanese crab apple
<i>Lespedeza capitata</i>	round-headed bush clover	<i>Malus x astracanica</i>	Astrakhan apple
<i>Lespedeza frutescens</i>	violet bush clover	<i>Malva neglecta</i>	cheeses
<i>Leucanthemum vulgare</i> var. <i>pinnatifidum</i>	ox-eye daisy	<i>Matricaria discoidea</i>	pineapple weed
<i>Leucospora multifida</i>	obi-wan-conobea	<i>Medicago lupulina</i>	black medick
<i>Liatris aspera</i>	rough blazing star	<i>Medicago sativa</i>	alfalfa
<i>Liatris pycnostachya</i>	prairie gay feather	<i>Melilotus albus</i>	white sweet clover
<i>Liatris spicata</i>	marsh gay feather	<i>Melilotus officinalis</i>	yellow sweet clover
<i>Ligustrum obtusifolium</i>	border privet	<i>Menispermum canadense</i>	moonseed
<i>Ligustrum vulgare</i>	common privet	<i>Mentha canadensis</i>	wild mint
<i>Lilium michiganense</i>	Michigan lily	<i>Mentha x piperita</i>	peppermint
<i>Lindernia dubia</i>	false pimpernel	<i>Mentha x verticillata</i>	whorled mint
<i>Liparis liliifolia</i>	purple twayblade	<i>Mertensia virginica</i>	Virginia bluebells
<i>Liquidambar styraciflua</i>	sweet gum	<i>Mimulus ringens</i>	monkey flower
<i>Liriodendron tulipifera</i>	tulip tree	<i>Moehringia lateriflora</i>	wood sandwort
<i>Lobelia cardinalis</i>	cardinal flower	<i>Monarda fistulosa</i>	wild bergamot
<i>Lobelia siphilitica</i>	great blue lobelia	<i>Monotropa uniflora</i>	Indian pipe
<i>Lobelia spicata</i>	pale-spiked lobelia	<i>Morus alba</i>	white mulberry
<i>Lolium multiflorum</i>	Italian rye grass	<i>Morus alba</i> var. <i>tatarica</i>	Russian mulberry
<i>Lolium perenne</i>	perennial rye grass	<i>Morus cult. illinois</i> everbearing	black mulberry
<i>Lonicera japonica</i>	Japanese honeysuckle	<i>Morus rubra</i>	red mulberry
<i>Lonicera maackii</i>	amur honeysuckle	<i>Muhlenbergia frondosa</i>	leafy satin grass
<i>Lonicera reticulata</i>	yellow honeysuckle	<i>Muhlenbergia mexicana</i>	wood satin grass
<i>Lonicera x muendeniensis</i>	common fly honeysuckle	<i>Muhlenbergia schreberi</i>	nimblewill
<i>Lotus corniculatus</i>	birds foot trefoil	<i>Myosoton aquaticum</i>	water chickweed
<i>Ludwigia palustris</i> var. <i>americana</i>	marsh purslane	<i>Myriophyllum spicatum</i>	eurasian water milfoil
<i>Ludwigia polycarpa</i>	false loosestrife	<i>Nepeta cataria</i>	catnip
<i>Luzula multiflora</i>	common woodrush	<i>Oenothera biennis</i>	common evening primrose
<i>Lycopus americanus</i>	common water horehound	<i>Oligoneuron riddellii</i>	Riddells goldenrod
<i>Lycopus uniflorus</i>	northern bugleweed	<i>Oligoneuron rigidum</i>	stiff goldenrod
<i>Lysimachia ciliata</i>	fringed loosestrife	<i>Onoclea sensibilis</i>	sensitive fern
<i>Lysimachia lanceolata</i>	prairie loosestrife	<i>Origanum vulgare</i>	oregano
<i>Lysimachia nummularia</i>	moneywort	<i>Ornithogalum umbellatum</i>	star of Bethlehem

Scientific Name	Common Name	Scientific Name	Common Name
<i>Osmorhiza claytonii</i>	hairy sweet cicely	<i>Pinus banksiana</i>	jack pine
<i>Osmorhiza longistylis</i>	smooth sweet cicely	<i>Pinus nigra</i>	Austrian pine
<i>Ostrya virginiana</i>	hop hornbeam	<i>Pinus resinosa</i>	red pine
<i>Oxalis dillenii</i>	common wood sorrel	<i>Pinus strobus</i>	white pine
<i>Oxalis stricta</i>	tall wood sorrel	<i>Plantago lanceolata</i>	English plantain
<i>Oxalis violacea</i>	violet wood sorrel	<i>Plantago major</i>	common plantain
<i>Packera glabella</i>	butterweed	<i>Plantago rugelii</i>	red-stalked plantain
<i>Packera paupercula</i>	balsam ragwort	<i>Platanus occidentalis</i>	sycamore
<i>Panicum capillare</i>	old witch grass	<i>Poa annua</i>	annual bluegrass
<i>Panicum dichotomiflorum</i>	knee grass	<i>Poa compressa</i>	Canada bluegrass
<i>Panicum virgatum</i>	switch grass	<i>Poa nemoralis</i>	false wood bluegrass
<i>Parietaria pensylvanica</i>	pellitory	<i>Poa palustris</i>	marsh bluegrass
<i>Paronychia canadensis</i>	tall forked chickweed	<i>Poa pratensis</i>	Kentucky bluegrass
<i>Parthenium integrifolium</i>	wild quinine	<i>Poa trivialis</i>	rough bluegrass
<i>Parthenocissus inserta</i>	thicket creeper	<i>Podophyllum peltatum</i>	mayapple
<i>Parthenocissus quinquefolia</i>	Virginia creeper	<i>Polanisia dodecandra</i>	clammy weed
<i>Pastinaca sativa</i>	wild parsnip	<i>Polemonium reptans</i>	Jacobs ladder
<i>Pedicularis canadensis</i>	wood betony	<i>Polygala sanguinea</i>	field milkwort
<i>Penstemon digitalis</i>	foxglove beard tongue	<i>Polygonatum biflorum</i>	smooth Solomons seal
<i>Penthorum sedoides</i>	ditch stonecrop	<i>Polygonum arenastrum</i>	sidewalk knotweed
<i>Persicaria amphibia</i> var. <i>stipulacea</i>	marsh smartweed	<i>Polygonum aviculare</i>	common knotweed
<i>Persicaria coccinea</i>	water smartweed	<i>Polygonum prolificum</i>	proliferous knotweed
<i>Persicaria hydropiper</i>	woodland water pepper	<i>Polygonum ramosissimum</i>	bushy knotweed
<i>Persicaria hydropiperoides</i>	mild water pepper	<i>Populus alba</i>	white poplar
<i>Persicaria lapathifolia</i>	pale pinkweed	<i>Populus deltoides</i>	eastern cottonwood
<i>Persicaria longiseta</i>	creeping smartweed	<i>Portulaca oleracea</i>	purslane
<i>Persicaria maculosa</i>	ladys thumb	<i>Potamogeton foliosus</i>	leafy pondweed
<i>Persicaria pensylvanica</i>	pinkweed	<i>Potamogeton natans</i>	common pondweed
<i>Persicaria punctata</i>	water pepper	<i>Potamogeton nodosus</i>	long-leaved pondweed
<i>Phalaris arundinacea</i>	reed canary grass	<i>Potentilla norvegica</i>	rough cinquefoil
<i>Phleum pratense</i>	timothy	<i>Potentilla recta</i>	sulfur cinquefoil
<i>Phlox divaricata</i>	woodland phlox	<i>Potentilla simplex</i>	common cinquefoil
<i>Phragmites australis</i>	common reed	<i>Prenanthes alba</i>	white lettuce
<i>Phryma leptostachya</i>	lopseed	<i>Proserpinaca palustris</i>	mermaid weed
<i>Phyla lanceolata</i>	fog fruit	<i>Prunella vulgaris</i> var. <i>lanceolata</i>	wood self heal
<i>Physalis heterophylla</i>	clammy ground cherry	<i>Prunus americana</i>	wild plum
<i>Physalis longifolia</i>	tall ground cherry	<i>Prunus serotina</i>	wild black cherry
<i>Physostegia praemorsa</i>	prairie obedient plant	<i>Prunus virginiana</i>	choke cherry
<i>Physostegia speciosa</i>	showy obedient plant	<i>Ptelea trifoliata</i>	wafer ash
<i>Phytolacca americana</i>	pokeweed	<i>Puccinellia distans</i>	alkali grass
<i>Picea abies</i>	Norway spruce	<i>Pycnanthemum muticum</i>	broad-leaved mountain mint
<i>Picea glauca</i>	white spruce	<i>Pycnanthemum pilosum</i>	hairy mountain mint
<i>Pilea pumila</i>	clearweed	<i>Pycnanthemum tenuifolium</i>	slender mountain mint

Scientific Name	Common Name	Scientific Name	Common Name
<i>Pycnanthemum virginianum</i>	common mountain mint	<i>Rudbeckia sullivantii</i>	fen black-eyed susan
<i>Pyrus calleryana</i>	bradford pear	<i>Rudbeckia triloba</i>	brown-eyed susan
<i>Quercus alba</i>	white oak	<i>Rumex altissimus</i>	pale dock
<i>Quercus bicolor</i>	swamp white oak	<i>Rumex crispus</i>	curly dock
<i>Quercus ellipsoidalis</i>	Hills oak	<i>Rumex obtusifolius</i>	bitter dock
<i>Quercus imbricaria</i>	shingle oak	<i>Rumex verticillatus</i>	riverbank dock
<i>Quercus macrocarpa</i>	bur oak	<i>Sagittaria graminea</i>	grass-leaved arrowhead
<i>Quercus muehlenbergii</i>	chinquapin oak	<i>Sagittaria latifolia</i>	common arrowhead
<i>Quercus palustris</i>	pin oak	<i>Salix alba</i>	white willow
<i>Quercus rubra</i>	red oak	<i>Salix amygdaloides</i>	peach-leaved willow
<i>Quercus velutina</i>	black oak	<i>Salix discolor</i>	pussy willow
<i>Ranunculus abortivus</i>	small-flowered buttercup	<i>Salix eriocephala</i>	heart-leaved willow
<i>Ranunculus flabellaris</i>	yellow water crowfoot	<i>Salix fragilis</i>	crack willow
<i>Ranunculus recurvatus</i>	hooked buttercup	<i>Salix interior</i>	sandbar willow
<i>Ranunculus sceleratus</i>	cursed buttercup	<i>Salix nigra</i>	black willow
<i>Ranunculus septentrionalis</i>	swamp crowfoot	<i>Salix x glatfelteri</i>	hybrid black willow
<i>Ratibida pinnata</i>	yellow coneflower	<i>Salvia pratensis</i>	meadow sage
<i>Rhamnus cathartica</i>	common buckthorn	<i>Sambucus canadensis</i>	elderberry
<i>Rhamnus davurica</i>	Dahurian buckthorn	<i>Samolus parviflorus</i>	brookweed
<i>Rhus glabra</i>	smooth sumac	<i>Sanguinaria canadensis</i>	bloodroot
<i>Rhus typhina</i>	staghorn sumac	<i>Sanicula canadensis</i>	Canadian black snakeroot
<i>Rhus x pulvinata</i>	northern sumac	<i>Sanicula odorata</i>	clustered black snakeroot
<i>Ribes americanum</i>	wild black currant	<i>Saponaria officinalis</i>	soapwort
<i>Ribes missouriense</i>	Missouri wild gooseberry	<i>Schedonorus arundinaceus</i>	tall fescue
<i>Robinia pseudoacacia</i>	black locust	<i>Schizachyrium scoparium</i>	little bluestem
<i>Rorippa palustris</i> var. <i>fernaldiana</i>	marsh cress	<i>Schoenoplectus acutus</i>	hard-stemmed bulrush
<i>Rosa blanda</i>	early wild rose	<i>Schoenoplectus pungens</i>	chair-makers rush
<i>Rosa carolina</i>	pasture rose	<i>Schoenoplectus tabernaemontani</i>	great bulrush
<i>Rosa carolina</i> subsp. <i>subserrulata</i>	prickly pasture rose	<i>Scirpus atrovirens</i>	dark green rush
<i>Rosa multiflora</i>	multiflora rose	<i>Scirpus cyperinus</i>	woolgrass
<i>Rosa rubiginosa</i>	rusty sweetbrier	<i>Scirpus hattorianus</i>	mosquito rush
<i>Rosa setigera</i>	smooth Illinois rose	<i>Scirpus pendulus</i>	red bulrush
<i>Rosa setigera</i> var. <i>tomentosa</i>	downy Illinois rose	<i>Scrophularia marilandica</i>	late figwort
<i>Rubus allegheniensis</i>	highbush blackberry	<i>Scutellaria lateriflora</i>	mad-dog skullcap
<i>Rubus frondosus</i>	leafy bramble	<i>Scutellaria ovata</i>	heart-leaved skullcap
<i>Rubus meracrus</i>	pure dewberry	<i>Securigera varia</i>	crown vetch
<i>Rubus occidentalis</i>	black raspberry	<i>Senecio vulgaris</i>	common groundsel
<i>Rudbeckia hirta</i>	black-eyed susan	<i>Setaria faberi</i>	giant foxtail
<i>Rudbeckia hirta</i> var. <i>pulcherrima</i>	narrow-leaved black-eyed susan	<i>Setaria pumila</i>	yellow foxtail
<i>Rudbeckia laciniata</i>	wild golden glow	<i>Setaria viridis</i>	green foxtail
<i>Rudbeckia speciosa</i>	showy black-eyed susan	<i>Setaria viridis</i> var. <i>major</i>	giant green foxtail
<i>Rudbeckia subtomentosa</i>	sweet black-eyed susan	<i>Sicyos angulatus</i>	bur cucumber

Scientific Name	Common Name	Scientific Name	Common Name
<i>Silene latifolia</i>	white campion	<i>Sorghastrum nutans</i>	Indian grass
<i>Silene noctiflora</i>	nocturnal catchfly	<i>Sorghum bicolor</i>	sorghum
<i>Silene stellata</i>	starry campion	<i>Sparganium eurycarpum</i>	common bur reed
<i>Silene virginica</i>	fire pink	<i>Spartina pectinata</i>	prairie cordgrass
<i>Silphium integrifolium</i> var. <i>deamii</i>	Deams rosinweed	<i>Spergularia media</i>	salt spurry
<i>Silphium integrifolium</i> var. <i>neglectum</i>	bald rosinweed	<i>Sphenopholis intermedia</i>	slender wedge grass
<i>Silphium laciniatum</i>	compass plant	<i>Spirodella polyrhiza</i>	great duckweed
<i>Silphium perfoliatum</i>	cup plant	<i>Sporobolus compositus</i>	rough dropseed
<i>Silphium terebinthinaceum</i>	prairie dock	<i>Sporobolus heterolepis</i>	prairie dropseed
<i>Sinapis arvensis</i>	charlock	<i>Sporobolus neglectus</i>	small dropseed
<i>Sisyrinchium albidum</i>	common blue-eyed grass	<i>Sporobolus vaginiflorus</i>	poverty dropseed
<i>Sisyrinchium angustifolium</i>	stout blue-eyed grass	<i>Stachys hispida</i>	marsh hedge nettle
<i>Sium suave</i>	tall water parsnip	<i>Stachys pilosa</i>	woundwort
<i>Smilacina racemosa</i>	feathery false Solomons seal	<i>Stellaria media</i>	common chickweed
<i>Smilacina stellata</i>	starry false Solomons seal	<i>Stuckenia pectinata</i>	sago pondweed
<i>Smilax ecirrhata</i>	upright carrion flower	<i>Suaeda calceoliformis</i>	sea blite
<i>Smilax hispida</i>	bristly cat brier	<i>Symphoricarpos orbiculatus</i>	coralberry
<i>Smilax illinoensis</i>	Illinois carrion flower	<i>Symphotrichum cordifolium</i>	heart-leaved aster
<i>Smilax lasioneura</i>	common carrion flower	<i>Symphotrichum drummondii</i>	Drummonds aster
<i>Solanum carolinense</i>	horse nettle	<i>Symphotrichum ericoides</i>	heath aster
<i>Solanum dulcamara</i>	deadly nightshade	<i>Symphotrichum laeve</i>	smooth blue aster
<i>Solanum ptychanthum</i>	black nightshade	<i>Symphotrichum lanceolatum</i>	panicked aster
<i>Solidago canadensis</i>	Canada goldenrod	<i>Symphotrichum lateriflorum</i>	calico aster
<i>Solidago flexicaulis</i>	zig-zag goldenrod	<i>Symphotrichum novae-angliae</i>	New England aster
<i>Solidago gigantea</i>	late goldenrod	<i>Symphotrichum ontarionis</i>	Ontario aster
<i>Solidago juncea</i>	early goldenrod	<i>Symphotrichum oolentangiense</i>	sky-blue aster
<i>Solidago nemoralis</i>	old-field goldenrod	<i>Symphotrichum pilosum</i>	hairy aster
<i>Solidago sempervirens</i>	seaside goldenrod	<i>Symphotrichum praealtum</i>	willow aster
<i>Solidago speciosa</i>	showy goldenrod	<i>Symphotrichum shortii</i>	Shorts aster
<i>Solidago ulmifolia</i>	elm-leaved goldenrod	<i>Symphotrichum subulatum</i>	expressway aster
<i>Sonchus asper</i>	spiny sow thistle	<i>Symphotrichum urophyllum</i>	arrow-leaved aster
<i>Sonchus oleraceus</i>	store-front sow thistle	<i>Symphytum officinale</i>	common comfrey
<i>Sonchus uliginosus</i>	common sow thistle	<i>Taraxicum officinale</i>	common dandelion

Scientific Name	Common Name	Scientific Name	Common Name
<i>Teucrium canadense</i>	Canadian germander	<i>Verbena bracteata</i>	creeping vervain
<i>Teucrium canadense</i> var. <i>occidentale</i>	downy germander	<i>Verbena hastata</i>	blue vervain
<i>Thalictrum dasycarpum</i>	purple meadow rue	<i>Verbena urticifolia</i>	hairy white vervain
<i>Thalictrum dasycarpum</i> var. <i>hypoglaucom</i>	smooth meadow rue	<i>Verbesina alternifolia</i>	wingstem
<i>Thalictrum dioicum</i>	early meadow rue	<i>Vernonia fasciculata</i>	common ironweed
<i>Thalictrum revolutum</i>	waxy meadow rue	<i>Vernonia gigantea</i>	smooth tall ironweed
<i>Thlaspi arvense</i>	large-fruited penny cress	<i>Vernonia missurica</i>	Missouri ironweed
<i>Tilia americana</i>	American linden	<i>Veronica arvensis</i>	corn speedwell
<i>Tilia cordata</i>	little-leaved linden	<i>Veronica catenata</i> var. <i>glandulosa</i>	water speedwell
<i>Torilis japonica</i>	Japanese hedge parsley	<i>Veronica peregrina</i>	purslane speedwell
<i>Toxicodendron radicans</i>	poison ivy	<i>Veronica serpyllifolia</i>	thyme-leaved speedwell
<i>Tracaulon sagittatum</i>	arrow-leaved tear-thumb	<i>Veronicastrum virginicum</i>	culvers root
<i>Tradescantia ohiensis</i>	common spiderwort	<i>Viburnum lentago</i>	nannyberry
<i>Tradescantia virginiana</i>	Virginia spiderwort	<i>Viburnum opulus</i>	European cranberry bush
<i>Tragopogon dubius</i>	sand goats beard	<i>Viburnum prunifolium</i>	black haw
<i>Tragopogon pratensis</i>	common goats beard	<i>Viburnum rafinesquianum</i>	downy arrowwood
<i>Tridens flavus</i>	purpletop	<i>Viburnum recognitum</i>	smooth arrowwood
<i>Trifolium hybridum</i>	alsike clover	<i>Vicia americana</i>	American vetch
<i>Trifolium pratense</i>	red clover	<i>Vincetoxicum nigrum</i>	black swallowwort
<i>Trifolium repens</i>	white clover	<i>Viola missouriensis</i>	Missouri violet
<i>Trillium flexipes</i>	declined trillium	<i>Viola priceana</i>	confederate violet
<i>Trillium grandiflorum</i>	large-flowered trillium	<i>Viola pubescens</i>	downy yellow violet
<i>Trillium recurvatum</i>	prairie trillium	<i>Viola pubescens</i> var. <i>scabriuscula</i>	smooth yellow violet
<i>Triosteum aurantiacum</i>	early horse gentian	<i>Viola sororia</i>	common blue violet
<i>Typha angustifolia</i>	narrow-leaved cattail	<i>Viola subsinuata</i>	lobed blue violet
<i>Typha latifolia</i>	broad-leaved cattail	<i>Vitis aestivalis</i>	summer grape
<i>Typha x glauca</i>	hybrid cattail	<i>Vitis riparia</i>	riverbank grape
<i>Ulmus americana</i>	American elm	<i>Vitis vulpina</i>	frost grape
<i>Ulmus pumila</i>	Siberian elm	<i>Wisteria floribunda</i>	Japanese wisteria
<i>Ulmus rubra</i>	slippery elm	<i>Wolffia borealis</i>	spotted watermeal
<i>Ulmus x intermedia</i>	Wares elm	<i>Wolffia brasiliensis</i>	nippled watermeal
<i>Urtica gracilis</i>	tall nettle	<i>Wolffia columbiana</i>	American watermeal
<i>Utricularia macrorhiza</i>	common bladderwort	<i>Xanthium strumarium</i> var. <i>canadense</i>	common cocklebur
<i>Uvularia grandiflora</i>	bellwort	<i>Zanthoxylum americanum</i>	prickly ash
<i>Verbascum thapsus</i>	common mullein	<i>Zizia aurea</i>	golden alexanders



Environmental Science Division

Argonne National Laboratory
9700 South Cass Avenue, Bldg. 240
Argonne, IL 60439-4847

www.anl.gov



Argonne National Laboratory is a U.S. Department of Energy
laboratory managed by UChicago Argonne, LLC