

## Report on 2018 Phenology Observations

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During the 2018 phenology season, from Feb 28-Nov 7 (38 weeks), a total of 3,377 observations of 245 species were recorded.

**Table 1. Transects in the 2018 LREC phenology study.**

<b>Transect</b>	<b>Habitat Type</b>	<b>Length (m)</b>
North Prairie	Wet-Mesic Prairie	200
North Woods	Riparian Woods	180
North Edge	Prairie/Woodland Transition	130
South Prairie	Wet-Mesic Prairie	160
South Woods	Riparian Woods	200
Pasture Prairie	Wet-Mesic Prairie	100
Mulch Woods	Riparian Woods	90
South Edge	Prairie/Woodland Transition	120

**Table 2. Observation and species count by transect**

<b>Transect</b>	<b>observations</b>	<b>species count</b>
North Prairie	592	101
South Prairie	476	92
Pasture Prairie	454	97
North Woods	399	99
South Woods	346	90
North Edge	424	90
South Edge	432	104

**Table 3. List of species recorded during the 2018 phenology season. Species names in all caps are non-native.**

<b>Species</b>	<b>Common name</b>	<b>Habitat</b>
Enemion biternatum	false rue anemone	Prairie,Woodland
Ficaria verna	lesser celandine	Woodland
Claytonia virginica	spring beauty	Prairie,Woodland,Edge
Viola sororia	common violet	Woodland
Mertensia virginica	Virginia bluebells	Prairie,Woodland,Edge
Trillium recurvatum	purple trillium	Woodland
Acer negundo	box elder	Woodland
ALLIARIA PETIOLATA	garlic mustard	Woodland
Asarum canadense	wild ginger	Woodland
Chaerophyllum procumbens	wild chervil	Woodland
STELLARIA MEDIA	chickweed	Woodland
TARAXACUM OFFICINALE	common dandelion	Woodland
Aesculus glabra	Ohio buckeye	Prairie,Woodland,Edge
Cercis canadensis	Eastern redbud	Woodland,Edge
DUCHESNEA INDICA	mock strawberry	Woodland,Edge
Galium aparine	common bedstraw	Woodland,Edge
GLECHOMA HEDERACEA	ground ivy	Woodland,Edge
LAMIUM AMPLEXICAULE	purple henbit	Prairie,Woodland,Edge
ORNITHOGALUM UMBELLATUM	star-of-Bethlehem	Woodland
Osmorhiza claytonii	sweet cicely	Prairie,Woodland,Edge
Packera aurea	golden ragwort	Woodland
Phlox divaricata	wild sweet william	Woodland
Staphylea trifolia	bladdernut	Woodland,Edge
Ranunculus abortivus	small-flowered buttercup	Woodland
Arabis shortii	Short's rockcress	Prairie,Woodland,Edge
Allium canadense	wild garlic	Woodland
Arisaema dracontium	green dragon	Prairie,Woodland,Edge
Erigeron philadelphicus	Philadelphia fleabane	Woodland
Packera glabella	butterweed	Prairie,Woodland,Edge
TRIFOLIUM REPENS	white clover	Prairie,Woodland,Edge
MEDICAGO LUPULINA	black medick	Prairie,Woodland,Edge
Cryptotaenia canadensis	honestwort	Woodland
Lepidium virginicum	pepperweed	Woodland,Edge

POLYGONUM CESPITOSUM	smartweed	Woodland
Tradescantia subaspera	zig-zag spiderwort	Prairie,Woodland,Edge
Blephilia hirsuta	wood mint	Prairie,Woodland
Erigeron annuus	annual fleabane	Prairie,Woodland,Edge
Geum canadense	white avens	Prairie,Woodland,Edge
Verbena urticifolia	white vervain	Prairie,Woodland,Edge
MELILOTUS OFFICINALIS	yellow sweet clover	Prairie,Woodland,Edge
Oxalis dillenii	yellow woodsorrel	Woodland
Teucrium canadense	American germander	Woodland,Edge
Campanulastrum americanum	tall bellflower	Prairie,Woodland,Edge
Erigeron strigosus	daisy fleabane	Woodland,Edge
Eutrochium pupureum	joe-pye weed	Prairie,Woodland,Edge
Hypericum punctatum	spotted St. Johns wort	Prairie,Woodland,Edge
Oxalis stricta	common wood sorrel	Woodland
Acalypha rhomboidea	copperleaf	Prairie,Woodland,Edge
Hackelia virginiana	stickseed	Woodland
POLYGONUM PERSICARIA	smartweed	Woodland,Edge
Rudbeckia triloba	brown-eyed Susan	Woodland
Ageratina altissima	white snakeroot	Prairie,Woodland,Edge
Persecaria virginianum	jumpseed	Prairie,Woodland,Edge
Conoclinium coelestinum	mistflower	Prairie,Woodland,Edge
IPOMOEA HEDERACEA	morning glory	Woodland
Persecaria hydropiperoides	water pepper	Woodland
Solidago missouriensis	Missouri goldenrod	Prairie,Woodland,Edge
Elephantopus carolinianus	elephant's foot	Woodland,Edge
Eupatorium altissimum	tall boneset	Prairie,Woodland,Edge
Verbesina alternifolia	wingstem	Prairie,Woodland,Edge
Dicliptera brachiata	hummingbird plant	Prairie,Woodland,Edge
COMMELINA COMMUNIS	asiatic dayflower	Woodland
Desmodium perplexum	beggar's ticks	Prairie,Woodland
PERILLA FRUTESCENS	beefsteak plant	Prairie,Woodland,Edge
Lobelia siphilitica	blue lobelia	Woodland
Solidago altissima	tall goldenrod	Prairie,Woodland,Edge
Symphyotrichum sp.	aster	Prairie,Woodland,Edge
Symphyotrichum lanceolatum	panicled aster	Prairie,Woodland,Edge
Symphyotrichum lateriflorum	calico aster	Prairie,Woodland,Edge

CARDAMINE HIRSUTA	hairy bittercress	Prairie,Woodland,Edge
NARCISSUS PSEUDONARCISSUS	daffodil	Prairie,Woodland,Edge
CERASTIUM FONTANUM	mouse ear chickweed	Prairie,Woodland,Edge
VERONICA SERPYLLIFOLIA	thyme leaf speedwell	Prairie,Edge
Veronica arvensis	common speedwell	Prairie,Woodland,Edge
BARBAREA VULGARIS	yellow rocket	Prairie,Edge
Polemonium reptans	jacob's ladder	Prairie,Edge
VICIA SATIVA	comon vetch	Prairie,Woodland,Edge
Hydrophyllum virginianum	Virginia waterleaf	Prairie,Woodland,Edge
Persecaria pensylvanicum	Pennsylvania smartweed	Woodland,Edge
Rubus flagellaris	dewberry	Edge
Tradescantia ernestiana	woodland spiderwort	Prairie,Edge
ROSA MULTIFLORA	multiflora rose	Woodland,Edge
Rubus allegheniensis	blackerry	Edge
STELLARIA GRAMINEA	grass-leaved starwort	Prairie,Woodland,Edge
Cornus drumondii	gray dogwood	Prairie,Woodland,Edge
LONICERA JAPONICA	Japanese honeysuckel	Woodland,Edge
LYSIMACHIA NUMMULARIA	creeping jenny	Woodland,Edge
Ruellia humilis	hairy petunia	Edge
DAUCUS CAROTA	Queen Anne's lace	Prairie,Edge
Phyla lanceolata	fogfruit	Edge
Solanum carolinense	horse nettle	Prairie,Woodland,Edge
Vitis vulpina	wild grape	Prairie,Woodland,Edge
Heliopsis helianthoides	false sunflower	Edge
Calystegia sepium	bindweed	Prairie,Edge
Monarda fistulosa	bee balm	Prairie,Edge
Phlox paniculata	garden phlox	Prairie,Edge
Pycnanthemum tenuifolium	slender mountain mint	Prairie,Woodland,Edge
Pycnanthemum verticillatum v. pilosum	hairy mountain mint	Prairie,Edge
Ratibida pinnata	gray-headed coneflower	Prairie,Edge
Equisetum hyemale	horsetail	Prairie,Edge
Vernonia baldwinii	Baldwin's ironweed	Edge
Veronicastrum virginicum	culver's root	Prairie,Woodland,Edge
Agrimonia paraviflora	swamp agrimony	Prairie,Edge
Coreopsis tripteris	tall coreopsis	Prairie,Edge
Rudbeckia subtomentosa	sweet coneflower	Prairie,Edge

<i>Silphium perfoliatum</i>	cup plant	Prairie,Edge
<i>Arnoglossum atriplicifolium</i>	pale indian plantain	Prairie,Edge
<i>Boehmeria cylindrica</i>	false nettle	Prairie,Woodland,Edge
<i>Pycnanthemum virginianum</i>	common mountain mint	Woodland,Edge
<i>Monarda bradburiana</i>	Bradbury's bee balm	Prairie,Edge
<i>Ambrosia trifida</i>	giant ragweed	Edge
<i>Ambrosia artemisiifolia</i>	common ragweed	Prairie,Edge
<i>Sicyos angulatus</i>	bur cucumber	Prairie,Edge
LIRIOPE SPICATA	creeping liriopse	Edge
<i>Impatiens capensis</i>	orange jewelweed	Woodland,Edge
<i>Pedicularis lanceolata</i>	swamp betony	Prairie,Edge
<i>Chelone obliqua</i>	rose turtlehead	Prairie,Edge
<i>Helianthus strumosus</i>	woodland sunflower	Prairie,Woodland,Edge
<i>Pedicularis canadensis</i>	wood betony	Prairie,Edge
<i>Symphyotrichum pilosum</i>	hairy aster	Prairie,Edge
<i>Symphyotrichum novae-angliae</i>	New England astwer	Prairie,Woodland,Edge
<i>Symphyotrichum oolentangiense</i>	aromatic aster	Prairie,Woodland,Edge
<i>Symphyotrichum patens</i>	late purple aster	Edge
<i>Symphyotrichum praealtum</i>	willow aster	Edge
<i>Dalea candida</i>	white prairie clover	Prairie,Edge
<i>Rudbeckia hirta</i>	black-eyed susan	Prairie,Edge
<i>Geum vernum</i>	spring avens	Prairie,Edge
<i>Amsonia illustris</i>	shining bluestar	Prairie,Edge
<i>Potentilla simplex</i>	cinquefoil	Prairie
<i>Rumex altissimus</i>	pale dock	Prairie,Edge
<i>Zizia aurea</i>	golden alexander	Prairie
<i>Tradescantia ohiensis</i>	Ohio spiderwort	Prairie,Edge
<i>Baptisia alba</i>	white false indigo	Prairie,Woodland,Edge
<i>Iris virginica shrevii</i>	southern blue flag iris	Prairie
TRIFOLIUM PRATENSE	red clover	Prairie,Edge
<i>Apocynum cannabinum</i>	dogbane	Prairie
<i>Penstemon digitalis</i>	foxglove beardtongue	Prairie
RUMEX CRISPUS	curly dock	Prairie,Edge
<i>Thalictrum revolutum</i>	meadow rue	Prairie
<i>Asclepias syriaca</i>	common milkweed	Prairie
<i>Asclepias tuberosa</i>	butterfly weed	Prairie

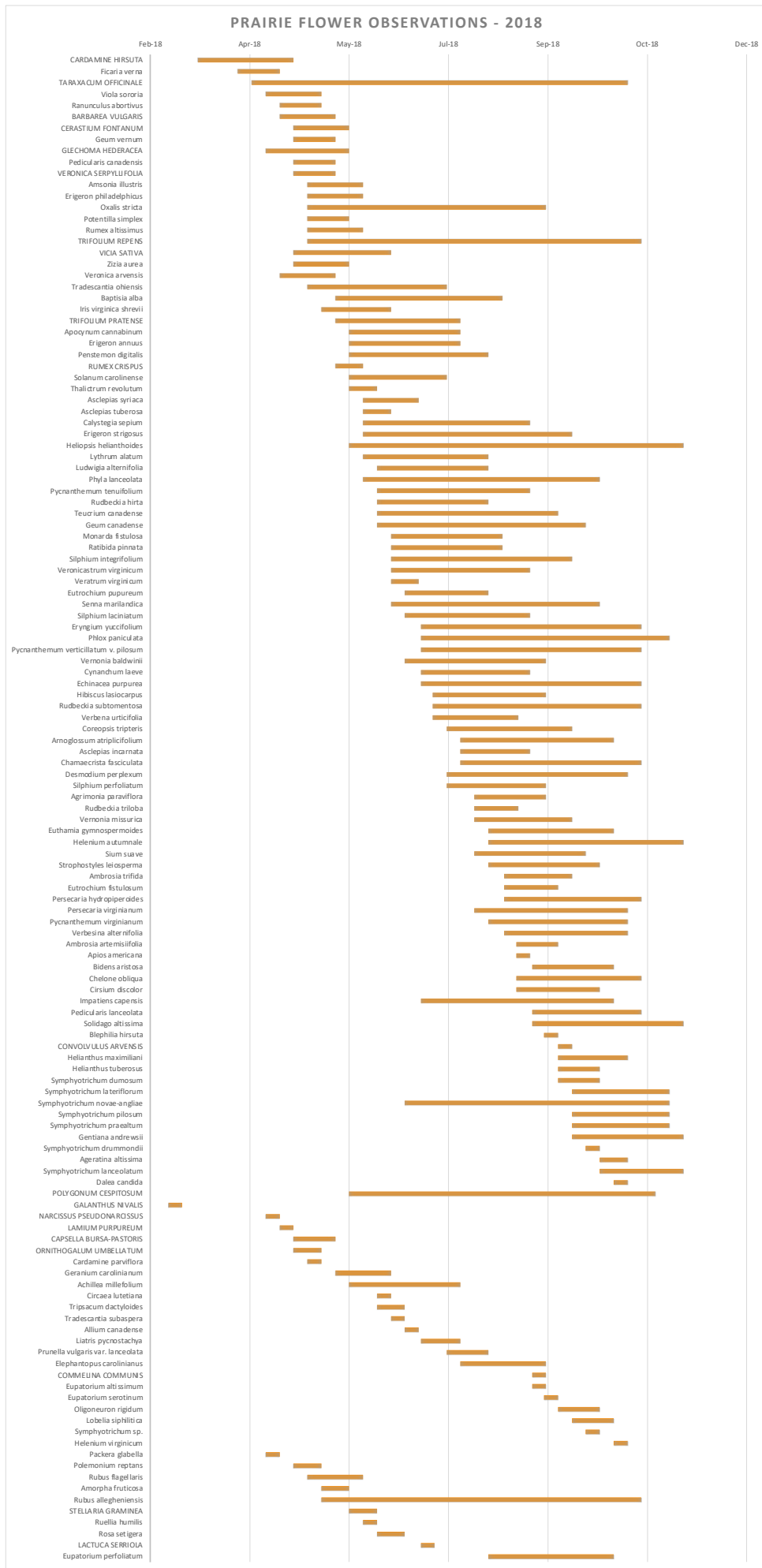
Lythrum alatum	winged loosestrife	Prairie
Ludwigia alternifolia	seedbox	Prairie
Silphium integrifolium	rosinweed	Prairie,Edge
Veratrum virginicum	Virginia bunchflower	Prairie
Senna marilandica	wild senna	Prairie
Silphium laciniatum	compass plant	Prairie,Woodland,Edge
Eryngium yuccifolium	rattlesnake master	Prairie
Cynanchum laeve	honeysuckle	Prairie
Echinacea purpurea	purple coneflower	Prairie
Hibiscus lasiocarpus	rose mallow	Prairie,Woodland,Edge
Asclepias incarnata	swamp milkweed	Prairie,Edge
Chamaecrista fasciculata	partidge pea	Prairie
Vernonia missurica	Missouri ironweed	Prairie
Euthamia gymnospermoides	grass-leaved goldenrod	Prairie,Woodland,Edge
Helenium autumnale	sneezeweed	Prairie,Edge
Sium suave	water parsnip	Prairie
Strophostyles leiosperma	small fuzzy bean	Prairie,Edge
Eutrochium fistulosum	hollow joe-pye weed	Prairie,Edge
Apios americana	America groundnut	Prairie
Bidens aristosa	showy tickseed	Prairie
Cirsium discolor	field thistle	Prairie
CONVOLVULUS ARVENSIS	field bindweed	Prairie
Helianthus maximiliani	Maximillian sunflower	Prairie
Helianthus tuberosus	Jerusalem artichoke	Prairie
Symphyotrichum dumosum	bushy aster	Prairie,Edge
Gentiana andrewsii	closed bottle gentian	Prairie
Symphyotrichum drummondii	Drummond's aster	Prairie,Edge
Lindera benzoin	spicebush	Prairie
VINCA MINOR	lesser periwinkle	Woodland
Cardamine concatenata	cutleaf toothwort	Woodland
Ranunculus hispidus	hispid buttercup	Woodland
Ribes missouriense	gooseberry	Woodland
Stylophorum diphyllum	celandine poppy	Woodland
Geranium maculatum	wild geranium	Woodland
LONICERA MAACKII	bush honeysuckle	Woodland
Packera obovata	roundleaf ragwort	Woodland

<i>Podophyllum peltatum</i>	mayapple	Woodland
<i>Arisaema triphyllum</i>	jack-in-the-pulpit	Woodland,Edge
<i>Sanicula odorata</i>	black snakeroot	Woodland
<i>Arnoglossum reniforme</i>	greater indian plantain	Woodland
<i>Circaea lutetiana</i>	enchanter's nightshade	Woodland
<i>Phryma leptostachya</i>	American lopseed	Prairie,Woodland
CICHORIUM INTYBUS	chicory	Woodland
<i>Solidago sp.</i>	goldenrod	Woodland
<i>Agastache nepetoides</i>	yellow giant hyssop	Prairie,Woodland
<i>Laportea canadensis</i>	wood netterl	Woodland
<i>Lactuca floridana</i>	blue lettuce	Woodland
<i>Rudbeckia laciniata</i>	goldenglow	Woodland
<i>Persecaria scandens</i>	smartweed	Woodland,Edge
<i>Solidago gigantea</i>	giant goldenrod	Woodland
<i>Solidago flexicaulis</i>	zig-zag goldenrod	Woodland
<i>Symphotrichum racemosum</i>	small white aster	Woodland
LAMIUM PURPUREUM	deadnettle	Woodland
CAPSELLA BURSA-PASTORIS	shepherd's purse	Prairie
<i>Cardamine parviflora</i>	small-flowered bittercress	Prairie
<i>Geranium carolinianum</i>	Carolina geranium	Prairie
<i>Achillea millefolium</i>	yarrow	Prairie,Edge
<i>Tripsacum dactyloides</i>	Eastern gammagrass	Prairie
<i>Liatris pycnostachya</i>	prairie balzingstar	Prairie
<i>Prunella vulgaris var. lanceolata</i>	self heal	Prairie
<i>Eupatorium serotinum</i>	late boneset	Prairie,Edge
<i>Oligoneuron rigidum</i>	stiff goldenrod	Prairie,Woodland,Edge
<i>Helenium virginicum</i>	Virginia sneezeweed	Prairie
<i>Acer saccharinum</i>	silver maple	Prairie
<i>Corylus americana</i>	hazelnut	Edge
<i>Prunus americana</i>	wild plum	Edge
<i>Collinsia verna</i>	blue-eyed Mary	Edge
<i>Sassafras albidum</i>	sassafras	Woodland,Edge
<i>Aesculus pavia</i>	red buckeye	Edge
<i>Amorpha fruticosa</i>	indigo bush	Edge
<i>Viburnum dentatum</i>	arrowwood viburnum	Prairie,Edge
<i>Sisyrinchium angustifolium</i>	blue-eyed grass	Edge

Iris fulva	copper iris	Edge
Anemone canadensis	Canada anemone	Edge
Anemone virginiana	thimbleweed	Edge
Hypericum mutilum	dwarf St. John's wort	Edge
Scutellaria incana	downy skullcap	Edge
Lobelia inflata	indian tobacco	Woodland,Edge
Lobelia cardinalis	cardinal flower	Edge
Persecaria punctatum	dotted smartweed	Edge
Rosa setigera	prairie rose	Edge
LACTUCA SERRIOLA	prickly lettuce	Prairie
Eupatorium perfoliatum	boneset	Prairie
Helianthus hirsutus	hairy sunflower	Prairie
Agalinis tenuifolia	purple false foxglove	Prairie
Boltonia asteroides	false aster	Prairie
Helianthus grosseserratus	sawtooth sunflower	Prairie
Oenothera biennis	biennial primrose	Prairie
Trillium viride	green trillium	Prairie
Asimina triloba	pawpaw	Woodland
Cornus florida	flowering dogwood	Woodland
Viola striata	pale violet	Woodland
Lamium galeobdolon	yellow archangel	Woodland
Phacelia purshii	Miami mist	Woodland
Iodanthus pinnatifidus	purple rocket	Woodland
Phytolacca americana	pokeweed	Woodland
Spigelia marilandica	indian pink	Woodland
Urtica dioica	stinging nettle	Woodland
Tradescantia virginiana	Virginia spiderwort	Woodland
HUMULUS JAPONICUS	Japanese hops	Woodland
Physostegia virginiana	obedient plant	Woodland
CHENOPODIUM ALBUM	lamb's quarters	Woodland



**Figure 1. chart showing the relative bloom period for each species found in the prairie transects.**



## WOODLAND FLOWER OBSERVATIONS - 2018

Figure 2. chart showing the relative bloom period for each species found in the woodland transects.

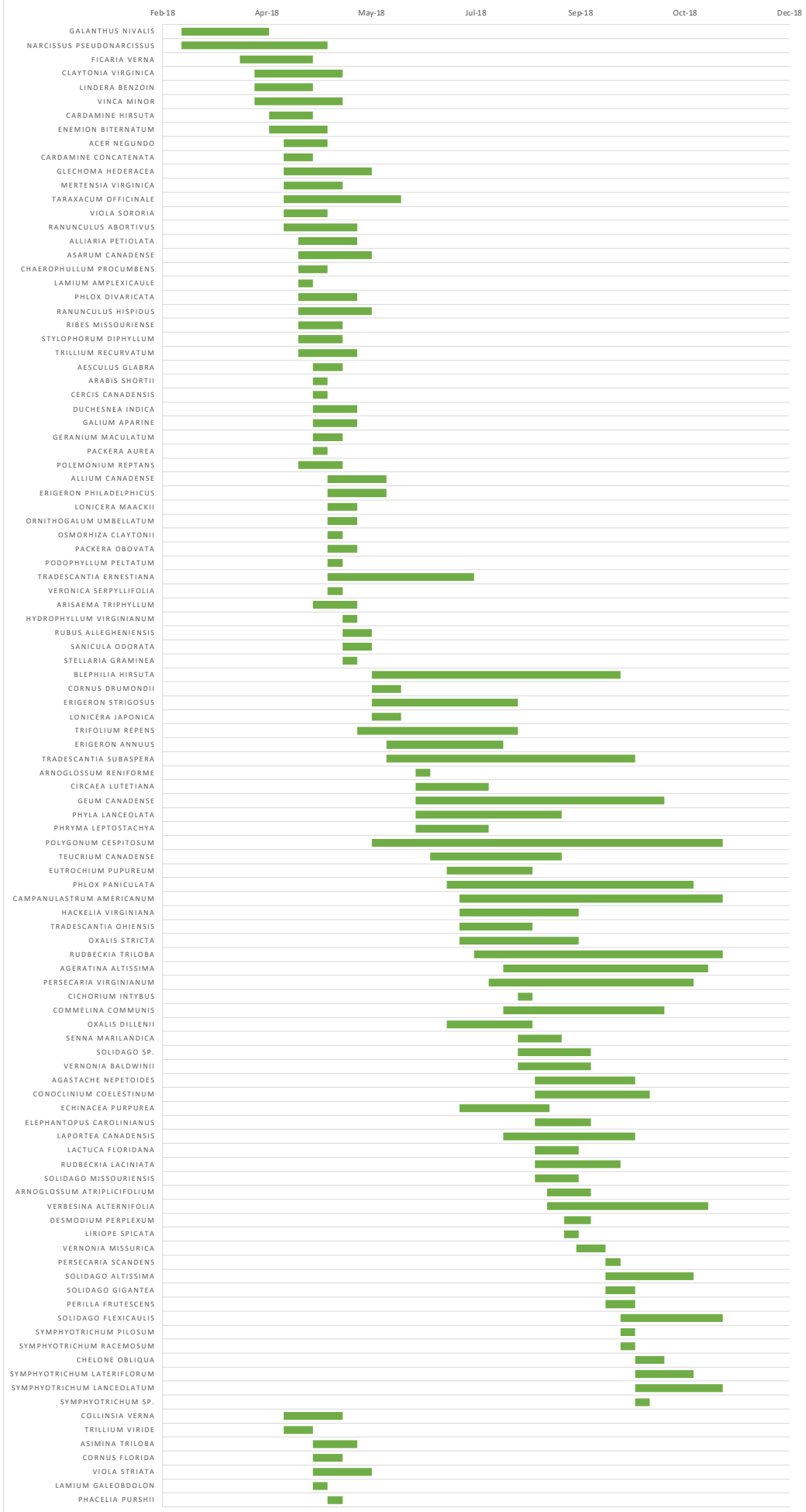


Figure 3. chart showing the relative bloom period for each species found along the edge transects.

