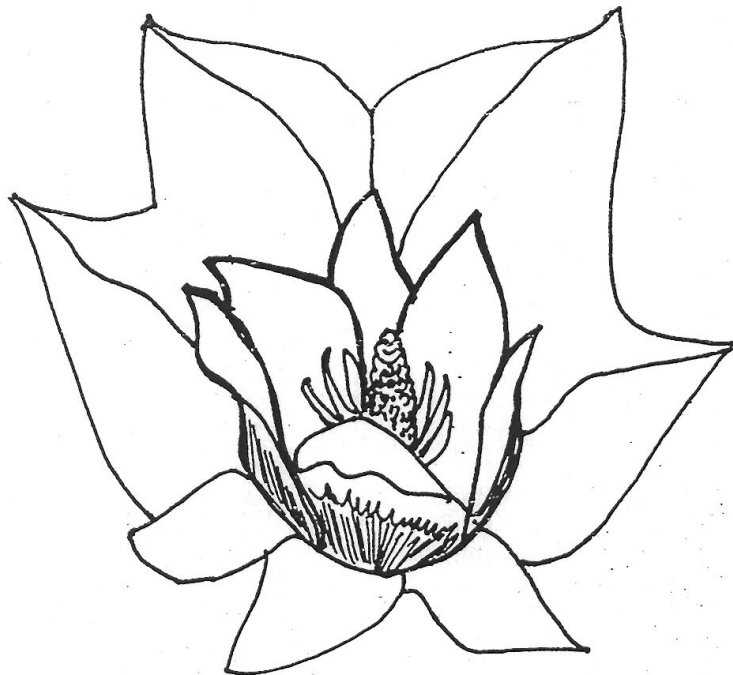


****Bee Forage Through the Year in Northern Maryland was originally compiled and published by Art Gruver. Art passed away in 2010. His original document is presented here with permission.**

BEE FORAGE THROUGH THE YEAR

In Northern Maryland

Presented by Arthur B. Gruver



BEE FORAGE THROUGH THE YEAR
In Northern Maryland
 Part 1 - Wild Plants (Native or Introduced)
 Photos by Arthur B. Gruver

Month	Common Name	Type*	Scientific Name
Feb.	Skunk Cabbage	(W,F) (Araceae)	Symplocarpus foetidus
March	Red Dead Nettle	(W,F) (Labiatae)	Lamium purpureum
	Common Dandelion	(W,F) (Compositae)	Taraxacum officinale
April	Field Mustard	(W,F) (Cruciferae)	Brassica rapa
	Red Maple	(W,T) (Aceraceae)	Acer rubrum
	Redbud	(W & O,T) (Leguminosae)	Cercis canadensis
May	Bush Honeysuckle	(W,S) (Caprifoliaceae)	Lonicera Morrowi
	White or Dutch Clover	(W,F) (Leguminosae)	Trifolium repens
	Black Raspberry	(W & A,F) (Rosaceae)	Rubus occidentalis
	Blackberry	(W & A,F) "	Rubus allegheniensis
	Tulip Poplar	(W & O,T) (Magnoliaceae)	Liriodendron tulipifera
	Black Locust	(W & O,T) (Leguminosae)	Robinia Pseudo-Acacia
	American Holly	(W,T) (Aquifoliaceae)	Ilex opaca
	Common Motherwort	(W,F) (Labiatae)	Leonurus cardiaca
June	Vipers Bugloss	(W,F) (Boraginaceae)	Echium vulgare
	Privet	(W & O,S) (Oleaceae)	Ligustrum spp.
	Poison Ivy	(W,F) (Anacardiaceae)	Rhus radicans
	Canada Thistle	(W,F) (Compositae)	Cirsium arvense
	Intermediate Dogbane	(W,F) (Apocynaceae)	Apocynum medium
	Butterfly Weed	(W & O,F) (Asclepiadaceae)	Asclepias tuberosa
July	Common Milkweed	(W,F) "	Asclepias syriaca
	Mountain Mint	(W,F) (Labiatae)	Pycnanthemum muticum

	Smooth Sumac	(W,S)	(Anacardiaceae)	Rhus glabra
August	Shiny Sumac	(W,S)	(Anacardiaceae)	Rhus copallina
	Jewelweed	(W,F)	(Balsaminaceae)	Impatiens capensis
Sept.	Japanese Knotweed	(W,S)	(Polygonaceae)	Polygonum cuspidatum
	Goldenrod	(W,F)	(Compositae)	Solidago spp.
Oct.	White Heath Aster	(W,F)	"	Aster pilosus

Additional wild (native or introduced) plants recorded when providing bee forage.

April	Autumn Olive	(W,T)	(Elaeagnaceae)	Elaeagnus umbellata
May	Yellow Water Flag	(W,F)	(Iridaceae)	Iris pseudacorus
	Multiflora Rose	(W,S)	(Rosaceae)	Rosa multiflora
June	Japanese Honeysuckle	(W,F)	(Caprifoliaceae)	Lonicera japonica
July	Thistle,			
	Bull or Common	(W,F)	(Compositae)	Cirsium vulgare
	Chicory	(W,F)	"	Cichorium intybus
	Mountain Mint,			
	Narrow Leaved	(W,F)	(Labiatae)	Pycnanthemum tenuifolium
	Tyrol Knapweed	(W,F)	(Compositae)	Centaurea vochinensis
Sept	Yellow Wood Sorrel	(W,F)	(Oxalidaceae)	Oxalis europaea
Oct	Queen Anne's Lace	(W,F)	(Umbelliferae)	Daucus carota

* A = Agricultural F = Flowering herbaceous annuals and perennials
O = Ornamental S = Shrubs
W = Wild T = Trees

BEE FORAGE THROUGH THE YEAR
 IN NORTHERN MARYLAND
 PART 1 - WILD PLANTS (NATIVE OR INTRODUCED)
 BLOOMING DATE CHART

NAME	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER
Skunk Cabbage	X									
Red Dead Nettle	X									
Common Dandelion		X								
Field Mustard		X								
Red Maple			X							
Redbud			X							
Bush Honeysuckle			X							
White or Dutch Clover			X							
Black Raspberry			X							
Blackberry			X							
Tulip Poplar			X							
Black Locust			X							
American Holly			X							
Common Motherwort			X							
Vipers Bugloss			X							
Privet			X							
Poison Ivy			X							
Canada Thistle			X							
Intermediate Dogbane			X							
Butterfly Weed			X							
Common Milkweed			X							
Mountain Mint			X							
Smooth Sumac			X							
Shiny Sumac			X							
Jewelweed			X							
Japanese Knotweed			X							
Goldenrod			X							
White Heath Aster			X							

X = Date When Photograph Was Taken

BEE FORAGE THROUGH THE YEAR
 In Northern Maryland
 Part 2 - Agricultural Plants
 Photos by Arthur B. Gruver

Month	Common Name	Type*	Scientific Name
March	Apricot	(A,T) (Rosaceae)	Prunus spp.
	Peach	(A,T) "	Prunus Persica
April	Sweet Cherry	(A,T) "	Prunus spp.
	Pear	(A,T) "	Pyrus spp.
	Crab Apple	(A & O,T) "	Pyrus spp.
	Apple	(A,T) "	Pyrus Malus
	Gooseberry	(A,S) (Saxifragaceae)	Ribes hirtellum
	Blueberry	(A,S) (Ericaceae)	Vaccinium Spp.
	Rape	(A,F) (Cruciferae)	Brassica napus
May	Crimson Clover	(A,F) (Leguminosae)	Trifolium incarnatum, var. elatius
	Strawberry	(A,F) (Rosaceae)	Fragaria spp.
	Common Thyme	(A,F) (Labiatae)	Thymus vulgaris
June	Red Raspberry	(A,S) (Rosaceae)	Rubus idaeus
	Sweet Clover, yellow	(A,F) (Leguminosae)	Melilotus officinalis
	Alfalfa	(A,F) (Leguminosae)	Medicago sativa
	Asparagus	(A,F) (Liliaceae)	Asparagus officinalis
	Anise Hyssop	(A,F) (Labiatae)	Agastache foeniculum
	Greek Oregano	(A,F) "	Origanum heracleoticum
	Pumpkin, Conn. Field	(A,F) (Cucurbitaceae)	Cucurbita pepo
	Squash, Butternut	(A,F) "	Cucurbita moschata
	Yellow Crookneck		Cucurbita pepo
	Zucchini		" "
Cantaloupe	(A,F) "	Cucumis melo	

	Buckwheat	(A, F)	(Polygonaceae)	Fagopyrum sagittatum
July	Sunflower	(A & O, F)	(Compositae)	Helianthus Spp.
	Soybeans	(A, F)	(Leguminosae)	Glycine Max
	Lavender, English	(A & O, F)	(Labiatae)	Lavandula augustifolia
	Spearmint	(A, F)	"	Mentha spicata
	Apple mint	(A, F)	"	Mentha suaveolens
August	Fall Red Raspberry	(A, S)	(Rosaceae)	Rubus idaeus
	Basil	(A, F)	(Labiatae)	Ocimum basilicum

Additional agricultural plants recorded when providing bee forage.

May	Chives	(A, F)	(Liliaceae)	Allium schoenoprasum
June	Crown Vetch	(A, F)	(Leguminosae)	Coronilla varia
July	Broccoli	(A, F)	(Cruciferae)	Brassica oleracea
	Popcorn	(A, F)	(Gramineae)	Tripsacum Zea mays
	Borage	(A, F)	(Boraginaceae)	Borago officinalis
	Catmint or Nepeta	(A, F)	(Labiatae)	Nepeta mussini
	Hairy Vetch	(A, F)	(Leguminosae)	Vicia villosa
	Birdsfoot Trefoil	(A, F)	"	Lotus corniculatus
Sept	Oilseed Radish	(A, F)	(Cruciferae)	Raphanus sativus
	Jerusalem Artichoke	(A, F)	(Compositae)	Helianthus tuberosa
	Hyssop	(A, F)	(Labiatae)	Hyssopus officinalis

* A = Agricultural F = Flowering herbaceous annuals and perennials
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BEE FORAGE THROUGH THE YEAR
 IN NORTHERN MARYLAND
 PART 2 - AGRICULTURAL PLANTS
 BLOOMING DATE CHART

NAME	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER
Apricot		X								
Peach		X								
Sweet Cherry		X								
Pear		X								
Crab Apple		X								
Apple		X								
Gooseberry		X								
Blueberry		X								
Rape		X								
Crimson Clover		X								
Strawberry		X								
Common Thyme		X								
Red Raspberry		X								
Sweet Clover, Yellow		X								
Alfalfa		X								
Asparagus		X								
Anise Hyssop		X								
Greek Oregano		X								
Pumpkin, Conn. Field		X								
Squash, Winter & Summer		X								
Cantaloupe		X								
Buckwheat		X								
Sunflower		X								
Soybeans		X								
Lavender, English		X								
Spearmint		X								
Applement		X								
Fall Red Raspberry		X								
Basil		X								

X = Date When Photograph Was Taken

BEE FORAGE THROUGH THE YEAR
In Northern Maryland
 Part 3 - Ornamental Plants
 Photos by Arthur B. Gruver

Month	Common Name	Type*	Scientific Name
Jan/Feb	Winter Aconite	(O,F) (Ranunculaceae)	Eranthis hyemalis
March	Crocus	(O,F) (Iridaceae)	Crocus spp.
	Daffodil	(O,F) (Amaryllidaceae)	Narcissus spp.
	Black Pussy Willow	(O,T) "	Salix melanostachys
	Rhododendron, Mary Ellen	(O,S) (Ericaceae)	Rhododendron spp.
	Grape Hyacinth	(O,F) (Liliaceae)	Muscari botryoides
April	Wintergreen Barberry	(O,S) (Berberidaceae)	Berberis julianae
	Bradford Pear	(O,T) (Rosaceae)	Pyrus calleryana
	Flowering Dogwood	(O&W,T) (Cornaceae)	Cornus florida
May	Cotoneaster, Willowleaf	(O,S) (Rosaceae)	Cotoneaster salicifolius
	Oriental Poppy	(O,F) (Papaveraceae)	Papaver orientale
June	Japanese Holly	(O,S) (Aquifoliaceae)	Ilex crenata
July	Breadseed Poppy	(O & A,F) (Papaveraceae)	Papaver spp.
	Golden Rain Tree	(O,T) (Sapindaceae)	Koelreuteria paniculata
	Vitex	(O,S) (Verbenaceae)	Vitex negundo heterophylla
	Cone Flower, Purple	(O,F) (Compositae)	Echinacea purpurea
	Globe Thistle	(O,F) (Compositae)	Echinops sphaerocephalus
	Russian Sage	(O,F) (Labiatae)	Perovskia atriplicifolia
	Bee Bee Tree	(O,T) (Rutaceae)	Evodia hupehensis or danielli
	Blue Mist Shrub	(O,S) (Verbenaceae)	Caryopteris clandonensis
	Aug/Sept	Japanese Pagodatree	(O,T) (Leguminosae)
	Sedum, Autumn Joy	(O,F) (Crassulaceae)	Sedum Spp.

Additional ornamental plants recorded when providing bee forage:			
March	Pussy Willow	(O,T) (Salicaceae)	Salix caprea
	Weeping Willow	(O,T) "	Salix babylonica
	Glory-of-the-Snow	(O,F) (Liliaceae)	Chionodoxa spp.
April	Mahonia	(O,S) (Berberidaceae)	Mahonia aquifolium
	Stachys	(O,F) (Labiatae)	Stachys Betonica lanata
	Ajuga/Bugleweed	(O,F) (Labiatae)	Ajuga reptans
	Rhododendron, PJM	(O,S) (Ericaceae)	Rhododendron spp.
May	Lilac	(O,S) (Oleaceae)	Syringa vulgaris
	Peony	(O,F) (Paeoniaceae)	Paeonia Spp.
	Inkberry Holly	(O,S) (Aquifoliaceae)	Ilex glabra 'Shamrock'
	Old-Fashion Weigela	(O,S) (Caprifoliaceae)	Weigela florida
	Peachleaved		
	Campanula	(O,F) (Campanulaceae)	Campanula persicifolia
June	Common Sundrops	(O,F) (Onagraceae)	Oenothera tetragona
	Liatris	(O,F) (Compositae)	Liatris spicata
	Siberian Wallflower	(O,F) (Cruciferae)	Cheiranthus allionii
	Veronica	(O,F) (Scrophulariaceae)	Veronica spicata
July	Ageratum	(O,F) (Compositae)	Ageratum houstonianum
	Bachelor Button	(O,F) "	Centaurea cyanus
	Plaintain Lily/Hosta	(O,F) (Liliaceae)	Hosta spp.
	Marine Heliotrope	(O,F) (Boraginaceae)	Heliotropium arborescens
	Scabiosa,	(O,F) (Dipsacaceae)	Scabiosa atropurpurea
	Mourning Bride		
	Butterfly Bush	(O,S) (Loganiaceae)	Buddleia Davidii
	Zinnia	(O,F) (Compositae)	Zinnia elegans
	Hollyhock	(O,F) (Malvaceae)	Alcea rosea
Aug/Sept	Spider Plant	(O,F) (Capparidaceae)	Cleome spinosa
	Cosmos	(O,F) (Compositae)	Cosmos bipinnatus
Nov	Iris, Bearded or German	(O,F) (Iridaceae)	Iris germanica

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BEE FORAGE THROUGH THE YEAR
 IN NORTHERN MARYLAND
 PART 3 - ORNAMENTAL PLANTS
 BLOOMING DATE CHART

NAME	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER
Winter Aconite	X									
Crocus		X								
Daffodil			X							
Black Pussy Willow			X							
Rhododendron, Mary Ellen			X							
Grape Hyacinth			X							
Wintergreen Barberry			X							
Bradford Pear			X							
Flowering Dogwood			X							
Cotoneaster, Willowleaf			X							
Oriental Poppy			X							
Japanese Holly			X							
Breadseed Poppy			X							
Golden Rain Tree			X							
Vitex			X							
Cone Flower, Purple			X							
Globe Thistle			X							
Russian Sage			X							
Bee Bee Tree			X							
Blue Mist Shrub			X							
Japanese Pagodatree			X							
Sedum, Autumn Joy			X							

X = Date When Photograph Was Taken