





What is it?

On July 9th and 10th the Oak Spring Garden Foundation (OSGF) and Virginia Outdoors Foundation (VOF) hosted a Bioblitz across the 700-acre OSGF Upperville, Virginia property. The Bioblitz aimed to identify and record as many individual species as possible through observation and collection within an approximately 24-hour period.





Where did the data go?

A collection project was created in iNaturalist(an application that uses AI to determine species) to compile all observations captured by photograph on OSGF property. The OSGF iNaturalist project can be found online at inaturalist.org/projects/oak-spring-garden-foundation

A total of 451 species were documented

The Bioblitz comprised a series of targeted surveys by subject experts, expert-led observational walks, and the general documentation of plant, animal, and fungal life over the course of 24-hours

Actinopterygii Found



Bluegill size: 7.5 inches

BLUEGILL

Left - Photo on Flickr by Elizabeth Nicodemus

Scientific Name - Lepomis macrobirus

- In the sunfish family, is a freshwater fish found in lakes, ponds, rivers, and streams.
- Swim in schools of up to 10 or 20
- It's growth depends on how much food it eats, their small mouth allows them to eat small and microscopic creatures.

LONGNOSE DACE

Right - Photo on Flickr by NYS DEC

Scientific Name - Rhinichtbys cataractae

- Is a streamlined minnow that can be found in streams, lakes, and clear river pools.
- They prey on immature blackflies, midges, mayflies, as well as insects and fish eggs.
- Prefer water cooler than 23 degrees Celsius.



Longnose Dace size: about 6 inches

River Chub size: 5.5-13 inches (Males are larger than females)

RIVER CHUB

Bottom Left - Photo on Flickr by NYS DEC

Scientific Name - Cyprinidae

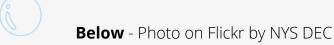
- Also in the minnow family, can be found in rivers, streams, and lakes.
- They prey on aquatic invertebrates, filamentous algae, crustaceans, mollusks, arachnids, and some fish.
- Their average litter size is between 500-1000.
- Has a life span of 5 years.

Actinoptrygii Found

CREEK CHUB

Scientific Name - Semotilus atromaculatus

- A part of the minnow family, can be found in flowing water for spawning, headwater creeks, small streams, and agricultural ditches.
- The male creek chubs grow at a faster rate than females, reaching sexual maturity at the age of 3 years.
- They are diurnal, feeding during the day after the water temperature has increased.
- They eat aquatic insect larvae, smaller fish, crayfish, and mollusks.





Creek Chub size: (Female - 7-8 inches) (Male - 10-12 inches)



Redbreast Sunfish size: 2-9 inches

REDBREAST SUNFISH

Left - Photo on Flickr by Brian Gratwicke

Scientific Name - Lepomis auritus

- Can be found in slow-moving water such as backwaters of streams, rivers, and upstream reach of reservoirs.
- They feed predominantly on aquatic and terrestrial insects, crayfish, mollusks, and other fish.
- They can build nests in groups of more than 80.
- The males construct large saucershaped nests in shallow waters on sand or gravel substrates.

NORTHERN HOG SUCKER

Right - Photo on Flickr by Brian Gratwicke

Scientific Name - Hypentelium nigricians

- Can be found in streams with moderate to swift current, clear water. They camouflage to their environment.
- They overturn rocks and stir up the bottom as they forage for immature aquatic insects with their fleshy, sucking lips.
- They can live up to 11 years.



Northern Hogsucker size: 8-15 inches

Amphibia and Crustacea Found



American Toad size: 2-3.5 inches

AMERICAN TOAD

Left - Photo on Flickr by Kerry Wixted Scientific Name - Anaxyrus americanus

- Can be found in terrestrial habitats ranging from hardwood or pine forests, in leaf litter, sand or loamy soil, and moist hiding places.
- · They are the most active at night, spending the day hiding in burrows, underneath logs or rocks.
- Eat a variety of small insects including ants, beetles, moths, and earthworms...
- · When threatened, they will remain still relying on camouflage.

CAMBARID CRAYFISH Right - Photo on iNaturalist by Craig Newsom

Scientific Name - Cambaridae

- Can be found in rivers, streams, lakes, ponds, springs, creaks, ditches, bayous.
- There are over 350 species of the cambaridae, many of them are rare or protected.
- They eat aquatic worms, dead or alive plants, snails, aquatic insects, small fish and carrion.



Cambarid Crayfish size: 1-5 cm

VIRILE CRAYFISH

Bottom Right - Photo on Flickr by Smithsonian Environmental Research Center

Scientific Name - Faxonius virilis

- Can be found in streams with moderate flow, abundant cover, muddy, sandy, or rocky substrate with stable water levels.
- They do not burrow, but may tunnel.
- Their mating occurs in two periods; August to October and April to May, eggs are laid in the spring.



Virile Crayfish size: up to 5 inches

Arachnida Found



American Dog Tick size: 5-15 mm

LONE STAR TICK

Right - Photo on Flickr by Judy Gallagher

Scientific Name - Amblyomma americanum

- · Found in wooded areas and fields, near bodies of water.
- Feed on humans and mammalian hosts such as deer, racoons and opossums.
- They are very aggressive and travel to their host whereas other species wait for the host to come to them.
- Can transmit Tularemia and Southern Tick-Associated Rash Illness.



Scientific Name - Dermacentor variabilis

- · Can be found along forest edges and in areas with little to no tree cover, such as grassy fields and scrubland.
- They are 3-host ticks(use 3 different hosts in their lifecycle. They can survive up to two years with no host.
- They feed on humans and animals ranging from rodents to livestock.
- Can transmit Rocky Mountain Spotted Fever and the germ causing Tularemia.



Lone Star Tick size: 4-6 mm up to 16mm fed



Yellow Garden Spider Size: 19-28 mm

YELLOW GARDEN SPIDER Left - Photo on Flickr by Jeff Flinn

Scientific Name - Argiope aurantia

- They spin their webs in sunny areas with plants on which they can anchor the web.
- They produce venom that's harmless to humans, but helps immobilize their prey, which include, flies, bees, and other flying insects.
- Males die after mating, females can live for several years with the right temperature.

Mammalia Found





WHITE-TAILED DEER

Left - Photo on Flickr by Hal Trachtenberg

Scientific Name - Odocoileus virginianus

- · Can be found in wooded areas or habitats shared with humans.
- They feed in early morning hours, eating green plants, corn, acorn, buds, twigs, and other nuts.
- Their stomach has four chambers for digesting food.
- Lives 2-3 years, rarely past 10 years and can run speeds up to 30 mph.

EASTERN COTTONTAIL

Bottom Left- Photo on Flickr by Tom Murray

Scientific Name - Sylvilagus floridanus

- Can be found in areas that are between woody areas and open land and/or bushy areas, fields, swamps and thickets.
- They eat a variety of plants including, grasses, clover, fruits and vegetables.
- They are very territorial and mostly nocturnal.
- Can leap distances of between 10-15 feet.

Mollusca Found



Left- Photo on Flickr by Bjorn S



Right - Photo on Flickr by Tom Murray



Scientific Name - Corbicula fluminea

- Found in fresh water, lakes, rivers, ponds and streams.
- They burrow into the bottom sediments of the streams and lakes, having the ability to feed from both the water column and substrate.
- · They use their siphon to filter feed suspended



ACUTE BLADDER SNAIL Scientific Name - Physella acuta

- Occupying a wide variety of freshwater habitats, from rivers to lakes and ponds.
- They have a lung and breathe the air, often found near the water surface.
- They feed on detritus as well as algae.

Aves Found



RED-TAILED HAWKLeft - Photo on Flickr by Jerry Mcfarland

Scientific Name - Buteo jamaicensis

- The red-railed hawk is one of the largest birds you'll see in North America.
- They can be found in a wide range of habitats and altitudes from deserts, grasslands, forests, agricultural fields and urban areas.
- They eat small mammals; rodents and rabbits. They also eat birds, reptiles, fish and insects.
- Females are 25% heavier and larger than males.

GRASSHOPPER SPARROW

Right - Photo on Flickr by Tom Benson

Scientific Name - Ammodramus savannarum

- These birds prefer to run or walk rather than fly.
- They can be found in open grasslands, prairies, hayfields, and pastures with some bare ground.
- 12 subspecies have been identified.





NORTHERN FLICKER

Bottom Left- Photo on Flickr by Jerry Mcfarland

Scientific Name - Colaptes auratus

- You can find them in open woodlands and they eat insects,
- Most woodpeckers hunt in the air, these birds prefer to find food on the ground.
- They are one of the few woodpeckers that are strongly migratory.

Aves Found



TURKEY VULTURE

Left- Photo on Flickr by Michael Klotz

Scientific Name - Cathartes aura

- Can be found in farmlands, rangelands, forests, and lowelevation mountains.
- They have an average wing span of 6 feet.
- They can travel up to 200 miles in a day and rarely eat during their migration period.
- They are the only scavenger birds that can't kill their prey which includes carrion, human garbage, young or sick birds and mammals.



Right - Photo on Flickr by Ashley Wahlberg

Scientific Name - Coccyzus americanus

- Can be found in coastal scrub, second-growth forests and woodlands, hedgerows, and forest edges.
- They feed on caterpillars, cicadas, katydids, other insects, and frogs or lizards.
- They prefer to nest on a horizontal branch of a willow tree.
- Both bird parents incubate the eggs, build the nest, and brood the nestlings.





EASTERN WOOD PEWEE

Bottom Left- Photo on Flickr by Andy Reago & Chrissy Mccarren

Scientific Name - Contopus virens

- Can be found in deciduous forest and woodland, any woodlot or treed area.
- They are sit-and-wait predators, they often perch high in trees.
- Feeds on various insects, small numbers of berries.
- Usually lay 2-3 eggs, very rarely
 4.

Aves Found



RED-WINGED BLACK BIRD

Left- Photo on Flickr by Michael Klotz

Scientific Name - Agelaius phoeniceus

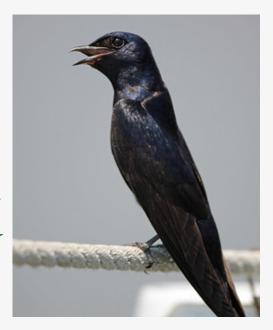
- Can be found in marshes, brushy swamps, fields, and pastures.
- Forages mostly on the ground, looking for insects including beetles, caterpillars, grasshoppers, spiders, and snails.
- Their eggs are a pale blue-green color
- Adults are very aggressive in nesting territory and often attack larger birds that approach.

INDIGO BUNTING

Right - Photo on Flickr by Joan Piazza

Scientific Name - Passerina cyanea

- Can be found in weedy, brushy areas, especially where fields meet forests.
- Males are blue all over whereas females are mostly brown with a touch of blue on their wings.
- They migrate at night, using the stars for guidance.
- They feed on twigs, bugs, and leaves of trees.
 They also eat small seeds and berries.





PURPLE MARTIN

Bottom Left- Photo on Flickr by Matt Tillet

Scientific Name - Progne subis

- They are colonial with dozens of martins nesting in the same spot.
 They can be found in boxes and martin houses.
- They feed in midair, catching aerial insects, such as dragonflies.
- The largest roosting colony of the purple martins ever found was estimated to have over 700,000 birds at one time.





Foundation has an extensive list of bird species found on site the rest of list is on the right.

Something our gardeners do to conserve these species is to plant for the birds.

"We've lost half of our birds in our lifetime, and a lot of that's about habitat," said Tom Wood, a professor of conservation studies at George Mason University, during a birding trip to Oak Spring. "We don't know all the problems, but the close interaction between animals and their habitat is certainly an important part of it."

Planting trees, grasses, and flowers that support diverse insect populations, produce ample fruit and nuts, and provide shelter and nesting materials at different times of the year is a great way to support local bird populations.



- Coopers Hawk
- Wood Duck
- **Tufted Titmouse**
- Canada Goose
- Red-shouldered hawk
- Green Heron
- Northern Cardinal
- **Chimney Swift**
- Feral Rock Pigeon
- Black Vulture
- American Crow
- Common Raven
- Fish Crow
- Blue Jav
- Downy Woodpecker
- Pileated Woodpecker
- Gray Catbird
- Acadian Flycatcher
- American Kestrel
- Domestic Chicken
- Common Yellowthroat
- Bald Eagle
- Barn Swallow
- Wood Thrush
- Orchard Oriole
- Belted Kingfisher
- Red-bellied Woodpecker
- Red-headed woodpecker
- Song Sparrow
- Northern Mockingbird
- Brown-headed Cowbird
- **Great Crested Flycatcher**
- House Sparrow
- Savannah Sparrow
- Blue Grosbeak
- Eastern Towhee
- Blue-gray Gnatcatcher
- Common Grackle
- Eastern Pheobe
- Yellow Warbler
- Eastern Bluebird
- American Goldfinch
- **Chipping Sparrow**
- Field Sparrow
- Eastern Meadowlark
- European Starling
- Carolina Wren
- **Brown Thrasher**
- House Wren
- American Robin
- Eastern Kingbird
- Yellowthroated Vireo
- Warbling Vireo
- Red-eved Vireo Bobolink
- Mourning Dove

Accipiter cooperii

- Aix sponsa
- Baeolphus bicolor
- Branta canadensis
- Buteo lineatus
- Butorides virescens
- Cardinalis cardinalis
- Chaetura pelagica
- Columba domestica
- Coragyps atratus
- Corvus brachyrhynchos
- Corvus corax
- Corvus ossifragus
- Cyanocitta cristata
- Dryobates pubescens
- Dryocopus pileatus
- Dumetella carolinensis
- Empidonax virescens
- Falco sparverius
- Gallus gallus domesticus
- Geothlypis trichas
- Haliaeetus leucocephalus
- Hirundo rustica
- Hylocichla mustelina
- Icterus spurius
- Megaceryle alcyon
- Melanerpes carolinus
- Melanerpes erythrocephalus
- Melospiza melodia
- Mimus polyglottos
- Molothrus ater
- Myiarchus crinitus
- Passer domesticus
- Passerculus sandwichensis
- Passerina caerulea
- Pipilo ervthrophthalmus
- Polioptila caerulea
- Quiscalus quiscula
- Sayornis phoebe
- Setophaga petechia
- Sialia sialis
- Spinus tristis
- Spizella passerina
- Spizella pusilla
- Sturnella magna
- Sturnus vulgaris
- Thryothorus Iudovicianus
- Toxostoma rufum
- Troglodytes aedon
- Turdus migratorius
- Tyrannus tyrannus
- Vireo flavifrons
- Vireo gilvus Vireo olivaceus
- Dolichonyx oryzivorus
- Zenaida macroura

Fungi & Lichen Found



AMERICAN FLOURY AMANITA

Left- Photo on iNaturalist by Noah Siegel

Scientific Name - Amanita farinosa

- An uncommon mushroom found in coniferous or deciduous woodlands.
- It is poisonous, one of the most deadly mushrooms.
- Its cap is 2.5-7 cm in diameter with white gills. The gills are either attached to the stem or free.
- It can measure up to be 6.7 cm in height.
- The smell can be strong and that of mink.

EAR FUNGUS

Right- Photo on Flickr by Dushan Hanuska

Scientific Name - Auricularia cornea

- It is very common, a tough rubbery fungus that grows on any dead wood.
- It is 20-80mm in diameter.
- Is edible and has been commercially cultivated for food in China and East Asia





CANDLEFLAME LICHEN

Bottom Left- Photo on Flickr by Ryan Hodnett

Scientific Name - Candelaria concolor

- Can be found on bark, often in the branch axils and rain tracks of tree trunks. The bark is also nutrient rich and well-lit. Sometimes found on wooden fences and nutrient enriched rocks and walls.
- Common throughout the US.
- Minute lobes are up to 1 mm long with toothed edges.

Fungi & Lichen Found =



COMMON GOLDSPECK

Left - Photo on Flickr by Richard Droker

Scientific Name - Candelariella vitellina

- Grows on rock, wood, and bark all over the world.
- Can be found in nutrient rich areas such as bird perches, silica-rich rocks, calcareous rock, and brick.
- Very common

CARBON ANTLERS

Right - Photo on Flickr by Hedera Baltica

Scientific Name - Xylaria hypocylon

- Grow on dead wood, such as rotting logs and stumps.
- Produces forked, antler-shaped fruiting bodies that grow 4-8cm tall on a think stalk.
- Contains both anti-viral properties and compounds.



CERAMIC PARCHMENT

Left- Photo on Flickr by Jason Hollinger

Scientific Name - Xylobolus frustulatus

- Found on hardwood logs, particularly oak.
- Has individual fruitbodies .3-2 cm wide.
- · Lives in colonies.
- Not edible.

LIPSTICK POWDERHORN

Right- Photo on Flickr by I.Maugr

Scientific Name - Cladonia macilenta

- A widespread and very common lichen, found all over the world except Antarctica.
- Grows on dead wood often on bases of trees.



Fungi & Lichen Found



GREY REINDEER LICHEN

Left- Photo on Flickr by Ruth Hartnup

Scientific Name - Cladonia rangiferina

- A fruticose lichen found in great abundance in Arctic lands serving as pasture for reindeer, moose, and caribou.
- Found in hot and cold environments, extremely cold-hardy.
- Can grow up to 8cm high
- Very slow growing 3-11mm per year.

COMMON SPLIT-GILL

Right- Photo on Flickr by Jason Hollinger

Scientific Name - Schizophyllum commune

- Grows in clusters on dead branches of deciduous trees. Very common.
- Shrivels up in dry conditions and then revives in wet ones.
- Not edible.





CORAL-PINK MERULIUS

Left- Photo on Flickr by Katja Schulz

Scientific Name - Phlebia incarnata

- Its bright color fades with age.
- Produces spores on edges as well as in between them.
- Grows on dead logs and stumps of deciduous trees.
- Can either grow singly or in layers.



"Bioblitzes provide biotic snapshots of the landscape and these snapshots can help land managers better understand the habitat that they are responsible for, and can help educators gain a fuller portrait of what natural wonders are present within an area, and what "stories" still need to be interpreted," -Joe Villari, manager of Bull **Run Mountains Natural Area** Preserve.



Common Name

- **Golden Moonglow Lichen**
- **False Turkey-Tail**
- Firm Russula
- **Common Script Lichen**
- **Grainy Shadow-Crust Lichen**
- Smooth Shadow-Crust Lichen
- **Mealy Rim-Lichen**
- **Zoned Dust Lichen**
- Mile-white Toothed Polypore
 - **Mossy Maze Polypore**
- **Multicolor Gill Polypore**
- **Mortar Rim Lichen**
 - Shield Lichen
 - **Powdered Ruffle Lichen**
- Black Sheet Lichen
- **Mealy Shadow Lichen**
- **Orange-cored Shadow Lichen**
- Wrinkly stinkhorn
- **Willow Bracket**
- **Rosette Lichen**
- **Sulphur Dust Lichen**
- **Mealy Speckled Shield Lichen**
- Rough Speckled Shield Lichen
- **Reddish-brown Crust**
- **Smooth Chanterelle**
- **Stubby Brittle-gill**
- Witch's butter
- **Turkey-tail**
- **Bare-bottom Sunburst Lichen**
 - **Cumberland Rock Shield**

Violet Toothed polypore

Scientific Name

- Dimelaena oreina
- False Turkey-tail
- Firm Russula
- Graphis scripta
- Hyperphyscia adglutinata
- Hyperphyscia syncolla
- Lecanora strobilina
- Lepraria neglecta
- Milk-white Toothed Polypore
 - Mossy Maze Polypore
- Multicolor Gill Polypore
- Myriolecis dispersa
 - Parmelia sulcata
- Parmotrema hypotropum
- Parmotrema reticulatum
- Phaeophyscia orbicularis
- Phaeophyscia rubropulchra
 - Phallus rugulosus
- Phellinus igniarius
- Physcia millegrana
- Psilolechia lucida
- Punctelia missouriensis
 - Punctelia rudecta
 - Reddish-brown Crust
- Smooth Chanterelle
- Stubby Brittle-gill
 - Tremella mesenterica
 - Turkey-tail
- Violet toothed Polypore
- Xanthomendoza weberi
- Xanthoparmelia cumberlandia

Insecta Found



POWDERED DANCER

Right- Photo on Flickr by Judy Gallagher

Scientific Name - Argia moesta

- Varying from 1.5-1.7 inches inches
- Can be found by rocky rivers and lakes with rocky shores.
- Males are blue, whereas females are brown



HALLOWEEN PENNANT

Right- Photo on Flickr by Vicki DeLoach

Scientific Name - Celithemis eponina

- Size ranges from 1.5-1.65 inches.
- The male and female do not separate until all the female's eggs are deposited.
- Can be found around freshwater habitats.
- Feed on smaller insects captured in flight.
- Can fly in rain and strong wind.



Left- Photo on Flickr by Lisa Brown

Scientific Name - Anax junius

- Has a size of 68-80 mm
- Can be found anywhere, more commonly found by still marshy waters, fresh and slightly brackish.
- Both adults and naiads are predaceous.
- Eggs are laid beneath the water surface and are the only Darner to lay eggs in tandem.



FAWN DARNER

Left- Photo on Flickr by Vicki DeLoach

Scientific Name - Boyeria vinosa

- Can be found by streams and rivers.
- They tend to stay away from open sunny areas, hiding in shady underbrush.
- Feed on spiders, damselflies, and other small prey.



Insecta Found



EMERALD ASH BORER

Right- Photo on Flickr by Tom Murray

Scientific Name - Agrilus planipennis

- Adults feed on ash foliage, while larvae feed on the inner bark of ash tree.
- Adults are about .5 inches long.
- Most likely came from Asia in wood packing material.



FIERY SEARCHER BEETLE

Right- Photo on Flickr by Judy Gallagher

Scientific Name - Calosoma scrutator

- One of the continent's largest beetles. 25-35 mm long.
- Found primarily in fields, gardens, deciduous forests hiding under logs and rocks.
- Prefers to hunt at night and feeds primarily on caterpillars.

BLACK-SHOULDERED SPINYLEG

Left- Photo on Flickr by Vicki DeLoach

Scientific Name - Dromogomphus spinosus

- Can be found in rocky, shallow rivers and streams.
- Have large leg spines for holding prey.
- Juveniles are bright yellow and turn pale olive with age.
- Approximately 2 inches long.



VETCH LOOPER MOTH

Left- Photo on Flickr by Mike Chapman

Scientific Name - Caenurgia chloropha

- Has a wingspan of 2.7-3.6 cm
- Feed on vetch and other legumes.
- Can be found anywhere in the grass.
- Mostly lives on the middle to the east coast of North America.



Insecta Found



PUSTULATED CARRION BEETLE Right- Photo on Flickr by Smithsonian Environmental

Research Center.

Scientific Name - Nicrophorus pustulatus

- Feeds typically on dead animals, larvae has been found to parasitize snake eggs.
- Size ranges between 14-22 mm.
- Can be found in semi rural areas, attracted to light.



WHITE-CROSSED SEED BUG

Left- Photo on Flickr by Judy Gallagher

Scientific Name - Neacoryphus bicrucis

- Can be found in open grassy areas, where its food plants are abundant.
- Feeds primarily on groundsels and ragworts.
- Can range from 7-10 mm in size.



HORNED PASSALUS BEETLE Left- Photo on Flickr by Katja Schulz

Scientific Name - Odontotaenius disjunctus

- Decomposes wood, feeds, on oak or elm trees.
- Can be found in high moisture levels
- Adults create auditory signals using an adapted abdomen and wing structure.

BASSWOOD LEAFROLLER MOTH

Right- Photo on Flickr by Kent McFarland

Scientific Name - Pantographa limata

- Larvae rolls in leaves, using silk to help do so, providing itself protection.
- Ranges up to 25-38 mm
- Feeds on basswood, oak, and rock elm.
- Can be found in deciduous forests.



INSECTA CONTINUED

Common Name

- Stream Bluet
- Dragonhunter
- Widow Skimmer
- Spot-winged Glider
- Common Whitetail
- Black Saddlebags
- Greater Oak Dagger
- Common Gray
- Least Skipper
- Western Honey Bee
- Wheel Bug
- T-----------
- Tawny Emperor
- Sachem
- Meadow Fritillary
- Brown-belted Bumble Bee
- Common Eastern Bumble Bee
- Brown Scoopwing
- Ebony Jewelwing
- Chestnut Carpenter Ant
- Woody Underwing
- Tufted Bird-dropping Moth
- Margined Leatherwing Beetle
- Green-striped Grasshopper
- Dogbane Leaf Beetle
- Yellow-collared Scape Moth
- Seven-spotted Lady Beetle
- Clouded Sulphur
- Eastern Dobsonfly
- Twice-stabbed Stink Bug
- Common Green lune Beetle
- Eastern Tailed-Blue
- Southern Masked Chafer
- Monarch
- Rosy Maple Moth
- Eastern Hercules Beetle
- Potato Leafhopper
- Stream Bluet
- Slender Bluet
- Salt Marsh Moth
- Milkweed Tussock Moth
- Variegated Fritillary
- Zebra Swallowtail
- Oriental Beetle
- European Earwig
- Chickweed Geometer Moth
- Brown Marmorated Stink Bug
- Clymene Moth
- Asian Lady Beetle
- Pennsylvania Dingy Ground Beetle
- Snowberry Clearwing
- Cecropia Moth
- Green Cloverworm Moth
- Giant Leopard Moth
- Scalloped Sack-bearer Moth

Scientific Name

- Enallagma exsulans
- · Hagenius brevistylus
- Libellula luctuosa
- Pantala hymenaea
- Plathemis lydia
- Tramea lacerata
- Acronicta lobeliae
- Anavitrinella pampinaria
- Ancyloxypha numitor
- Apis mellifera
- Arilus cristatus
- Asterocampa clyton
- Atalopedes campestris
- Boloria bellona
- Bombus griseocollis
- Bombus impatiens
- Calledapteryx dryopterata
- Calopteryx maculata
- Camponotus castaneus
- Catocala grynea
- Cerma cerintha
- Chauliognathus marginatus
- Chortophaga viridifasciata
- Chrysochus auratus
- Cisseps fulvicollis
- Coccinella septempunctata
- Colias philodice
- Corydalus cornutus
- Cosmopepla lintneriana
- Cotinis nitida
- Cupido comyntas
- Cyclocephala lurida
- Danaus plexippus
- Dryocampa rubicunda
- Dynastes tityus
- Empoasca fabae
- Enallagma exsulans
- Enallagma traviatum
- Estigmene acrea
- Euchaetes egle
- Euptoieta claudia
- Eurytides marcellus
- Exomala orientalis
- Forficula auricularia
- Haematopis grataria
- Halyomorpha halys
- Haploa clymene
- Harmonia axyridis
- Harpalus pensylvanicus
- Hemaris diffinis
- Hyalophora cecropia
- Hypena scabraHypercompe scribonia
- Lacosoma chiridota

Common Name

- North American Tarnished Plant Bug
- LD Moth
- American Rose Chafer
- Black-bordered Lemon Moth
- Sculptured Resin Bee
- Elf Shoe Stink Bug
- Long-necked Seed Bug
- White-crossed Seed Bug
- Pustulated Carrion Beetle
- Horned Passalus Beetle
- Basswood Leafroller Moth
- Easterb tiger swallowtail
- Grapevine Beetle
- Eastern Amberwing
- Meadow spittlebug
- Common Eastern Firefly
- Pearl Crescent
- Cabbage white
- Common Whitetail
- Japanese Beetle
- Milkweed Stem Weevil
- Banded Hairstreak
- Big-headed Ground Beetle
- Dimorphic Sitochroa Moth
- Six-spotted Gray
- Sparganothis Fruitworm Moth
- Virginian Tiger Moth
- Admirable Grasshopper
- Chinese Mantis
- Red Milkweed BeetleBanded Longhorn Beetle
- Red Admiral
- European Hornet

Scientific Name

- Lygus lineolaris
- Lymantria dispar
- Macrodactylus subspinosus
- Marimatha nigrofimbria
- Megachile sculpturalis
- Menecles insertus
- Myodocha serripes
- Neacoryphus bicrucis
- Nicrophorus pustulatus
- Odontotaenius disjunctus
- Pantographa limata
- Papilio glaucus
- Pelidnota punctata
- Perithemis tenera
- Philaenus spumarius
- Photinus pyralisPhyciodes tharos
- Pieris rapae
- Plathemis lydia
- Popillia japonica
- Rhyssomatus lineaticollisSatyrium calanus
- Scarites subterraneus
- Sitochroa chortalis
- Spargaloma sexpunctataSparganothis sulfureana
- Spilosoma virginica
- Syrbula admirabilisTenodera sinensis
- Tetraopes tetrophthalmus
- Typocerus velutinus

Vespa crabro

Vanessa atalanta

Gardens are made up of so much more than plants. A healthy garden thrives with a wide variety of organisms, and some of its most significant residents are insects – the creepy-crawly critters that pollinate plants, eat and are eaten by other creatures, and generally help keep things up and running.

Plantae Found



MUSK THISTLE

Right- Photo on Flickr by F.D Richards

Scientific Name - Carduus nutans

- They are an invasive species.
- · Colonizes in pastures, roadside ditches, ditch banks, and hayfields.
- A biennial herbaceous plant, between 1-7 feet tall.
- Has a fibrous taproot.



CALLERY PEAR

Right- Photo on Flickr by Thomas Cizauskas

Scientific Name - Pyrus calleryana

- · A tree that has invasive traits causing it to spread aggressively.
- Can grow up to 50 ft tall and 35 ft wide.
- · Requires direct sunlight.
- · Prefers moist soil.

BUTTONBUSH

Left- Photo on Flickr by Dennis Church

Scientific Name - Cephalanthus occidentalis

- A multi-stemmed shrub that grows up to 6-12 feet tall.
- Suited to wet soils, a honey plant producing nectar to attract pollinators.
- Has poisonous foliage and spreads easily.
- Requires partly shaded areas.

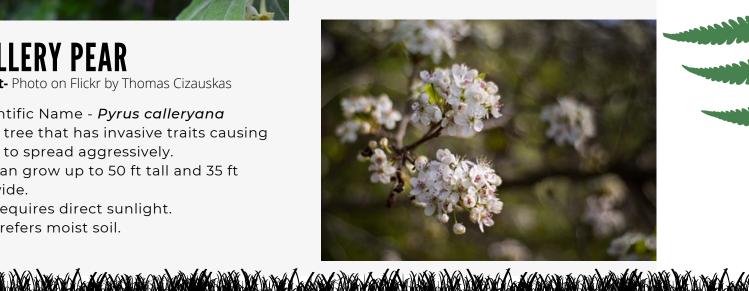


AUTUMN OLIVE

Left- Photo on Flickr by Scott Zona

Scientific Name - Elaeagnus umbellata

- A deciduous shrub native to Asia and invasive to North America.
- · Spreads rapidly across forest edges, roadsides, meadows, and grasslands.
- Can grow up to 20 ft tall and 30 ft wide.
- Produce red berries that are edible.



Plantae Found



AMERICAN POKEWEED

Right- Photo on Flickr by Dandelion Salad

Scientific Name - Phytolacca americana

- Can grow up to 6-10 ft tall.
- Can be found at forest edges, pastures, forest openings.
- The entire plant is poisonous, especially its berries.
- Mockingbirds and cardinals feed on berries.



LONG-LEAVED GROUNDCHERRY

Right- Photo on Flickr by Matthew Beziat

Scientific Name - Physalis longifolia

- Perennial forb that grows up to 1-3 ft tall.
- Can be found in dry areas including prairies, woods, and disturbed soils.
- Prefers full sun.
- Invasive species.
- Fruit is edible.

NODDING SPURGE

Left- Photo on Flickr by Melissa McMasters

Scientific Name - Euphorbia nutans

- A summer annual plant
- Can be found in dry upland areas of prairies, thickets, and pastures.
- Prefers full sunlight, poor soil, and dry conditions.
- · Hairless stems.



RIBWORT PLANTAIN

Left- Photo on Flickr by hedera.baltica Scientific Name - *Plantago lanceolata*

- Edible.
- Can be found in fields, meadows, roadsides, parks, and even sand dunes.
- Hardy plant.
- Can be used as an antihistamine, antioxidant, and dealing with nettle stings or bug bites.



Plantae Found



SQUARROSE SEDGERight- Photo on Flickr by Kerry Wixted

Scientific Name - Carex squarrosa

- Can be found in wet areas of bottomland, prairie swales, swamps.
- Prefers partial sun and shade and wet to moist conditions.
- Many insects are adapted to feed on



RUSH SKELETONWEED

Right- Photo on Flickr by Peter Stevens

Scientific Name - Chondrilla juncea

- Can grow up to 1-5 ft tall. Taproot can grow up to 7 ft deep.
- Can be found in pastures, rangeland, cropland, roadsides.
- Mature plants produce between 1,500-20,000 seeds.
- · Noxious weed.

MEADOW SALSIFY

Left- Photo on Flickr by Dan Mullen

Scientific Name - Tragopogon pratensis

- Invasive plant, native to Eurasia.
- Can be found in grasslands, near forests, old farm fields.
- Can grow up to 60 cm tall.
- · Flowers open in morning and close early afternoon.
- Can be used as a medicinal plant.



FORGET-ME-NOTS Left- Photo on Flickr by John Munt

Scientific Name - Myosotis

- Can be found in moist mountainous areas on wooded slopes and grassy meadows.
- · Has invasive tendencies.
- About 1 ft tall.



PLANTAE CONTINUED

Common Name

- White clover
- Common dandelion
- Spotted spurge
- Hairy crabgrass
- Timothy grass
- · Carolina horsenettle
- Chicory
- Great mullein
- Common milkweed
- Wild bergamot
- American germander
- Wild teasel
- Broomsedge bluestem
- Broad-winged thistle
- Hop trefoil
- Swamp milkweed
- American persimmon
- Blue mistflower
- Sweet vernal grass
- Red clover
- Scarlet pimpernel
- Beefsteak plant
- Common yarrow
- Common jewelweed
- Hemp dogbane
- Common st. John's-wort
- Japanese honeysuckle
- Moth mullein
- Deptford pink
- Swamp agrimony
- Honey locust
- Oxeye daisy
- American sycamore
- Black-eyed susan
- Wild carrot
- Blackhaw
- Common selfheal
- Sassafras
- Flowering dogwood
- Spotted st. John's wort
- Asiatic dayflower
- Green comet milkweed
- Butterfly milkweed
- Stringy stonecrop
- Roundleaf greenbrier
- Mile-a-minute weed
- Common mugwort
- Ghost pipes
- Curled dock
- Poison ivy
- Bay forget-me-not
- Creeping thistle
- Wild garlic
- White avens

Scientific Name

- Trifolium repens
- Taraxacum officinale
- Euphorbia maculata
- Digitaria sanguinalis
- Phleum pratense
- Solanum carolinense
- Cichorium intybus
- Verbascum thapsus
- Asclepias syriaca
- Monarda fistulosa
- Teucrium canadense
- Dipsacus fullonum
- Andropogon virginicus
- Carduus acanthoides
- Trifolium campestre
- Asclepias incarnata
- Ascrepius irreditiata
- Diospyros virginiana
- Conoclinium coelestinum
- Anthoxanthum odoratum
- Trifolium pratense
- Lysimachia arvensis
- Perilla frutescens
- Achillea millefolium
- Impatiens capensis
- Apocynum cannabinum
- Hypericum perforatum
- Lonicera japonica
- Verbascum blattaria
- Dianthus armeria
- Agrimonia parviflora
- Gleditsia triacanthos
- Leucanthemum vulgare
- Platanus occidentalis
- Rudbeckia hirta
- Daucus carota
- Viburnum prunifolium
- Prunella vulgaris
- Sassafras albidum
- Cornus florida
- Hypericum punctatum
- Commelina communis
- Asclepias viridiflora
- Asclepias tuberosa
- Sedum sarmentosum
- Smilax rotundifolia
 Description and distributes
- Persicaria perfoliata
- Artemisia vulgaris
- Monotropa uniflora Rumex crispus
- Toxicodendron radicans
- Myosotis laxa
- Cirsium arvense
- Allium vineale Geum canadense

Common Name

- Wild cherry
- White oak
- White ash
- Eastern cottonwood
- Tree-of-heaven
- Downy rattlesnake plantain
- Winged euonymus
- Northern maidenhair fern
- Wineberry
- White campion
- Catnip
- Virginia creeper
- Dwarf cinquefoil
- Orange mullein
- Eastern redcedar
- Common wrinkle-leaved goldenrod •
- Grey-headed coneflower
- White mulberry
- Yellow salsify
- Yellow nutsedge

Scientific Name • Prunus avium

- Ouercus alba
- Fraxinus americana
- Populus deltoides
- Ailanthus altissima
- Goodyera pubescens
- Euonymus alatus
- Adiantum pedatum
- Rubus phoenicolasius
- Silene latifolia
- Nepeta cataria
- Parthenocissus quinquefolia
- Potentilla canadensis
- Verbascum phlomoides
- Juniperus virginiana
- Solidago rugosa
- Ratibida pinnata
- Morus alba
- Tragopogon dubiusCyperus esculentus



Bunny Mellon once said, "Too much should not be explained about a garden. Its greatest reality is not reality, for a garden, hovering always in a state of becoming, sums its own past and its future. A garden, like a library, is a whole made up of separate interests and mysteries."