# The Flora and Fauna of Virginia Army National Guard OMS No. 1 and No. 2 near Sandston, Henrico County, Virginia

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## INTRODUCTION

In 2000, the Virginia Department of Military Affairs contracted with the Virginia Department of Conservation and Recreation's Division of Natural Heritage (DCR-DNH) to conduct a biological inventory of plant and animal species on the lands included in Virginia Army National Guard (VA ARNG) installations Organizational Maintenance Shop (OMS) No. 1 and No. 2, located near Sandston, Virginia. The intent of the project was to provide VA ARNG with species lists of plants and animals found on the installations so as to document the presence, distribution, and status of significant elements of biodiversity. A major focus of the study was inventory for rare species listed under the federal Endangered Species Act of 1973, as amended, the Virginia Endangered Species Act, the Virginia Endangered Plant and Insect Act, and rare plant and animal lists maintained by DCR-DNH (Roble, 2001; Townsend, 2001). The practical goal of the inventory was to assist facility personnel in decisions concerning land use and management in the event that rare, threatened, or endangered species or significant natural communities were encountered.

## STUDY AREA

OMS No. 1 and No. 2 are located about 3 km SE of the town of Sandston in Henrico County, Virginia, and about 12 km ESE of Richmond. The property consists of 21.4 contiguous ha that are bordered by the Richmond International Airport to the west and by forested habitats to the north, south, and east. Other land uses in the area include low to high-density suburban development and agriculture.

The headwaters of White Oak Swamp (a creek) are located to the north of the property; this creek is a tributary of the Chickahominy River in the James River watershed. Two northeast-trending intermittent branches of White Oak Swamp cross the property. These streams and the small headwater seeps that feed them create a mosaic of forested upland and forested wetland habitats. Two vernal pools are located along these drainages. Elevations on the property range from 41 to 47 m.

The property is located within Virginia's Inner Coastal Plain physiographic province just east of the Fall Line. This province is characterized by poorly consolidated sediments eroded from highlands to the west and deeply underlain by the crystalline rocks characteristically exposed to the west in the Piedmont physiographic province. One major soil association is found on the property, Kempsville-Atlee-Duplin, which is characterized by deep, well-drained and moderately well-drained soils that have a dominantly sandy clay loam or clay subsoil (Clay, 1975). The climate of Henrico County is classified as humid subtropical, with warm to hot summers and mild winters and an average annual precipitation of 112 cm (Clay, 1975).

OMS No. 1 and No. 2 are active VA ARNG facilities used for training and light vehicle maintenance. U.S. government records indicate that the property has been owned by the U.S. Army and utilized by VA ARNG since the 1940s. Land use prior to this time is unknown (Shea & Smith, 1996).

Natural habitats within the survey area have been severely altered from pre-European settlement times, including hydrologic alterations in the form of stream channelization and ditching. Buildings and parking areas are confined to two areas on the southern and western perimeter of the property, and several roads, both paved and dirt, traverse the area. A perimeter fence surrounds the entire property, and a narrow strip along the inside of the fence is kept open by mowing. Other disturbed habitats include lawns, an infrequently-

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mowed field, and an open utility right-of-way with both upland and saturated wetland habitats.

OMS No. 1 and No. 2 lie within Braun's (1950) Oak-Pine region, which includes Virginia's southern Piedmont and the Inner Coastal Plain north of the James River. This region is generally considered a transition zone where pines characteristic of the southeastern United States become more common in oak-dominated forests east of the Appalachians. Two of Virginia's natural community types as described by Fleming et al. (2001) have been identified on the property: Mixed Oak/Heath Forest and Coastal Plain/Piedmont Acidic Seepage Swamp.

Mixed Oak/Heath Forests are oak-dominated forests of infertile uplands with submesic to xeric moisture regimes and soils that are highly acidic (nutrient poor). The presence of thick duff layers and inflammable shrubs makes this community susceptible to frequent fires and, subsequently, favors the recruitment of oaks. At OMS No. 1 and No. 2, these upland oak species are Quercus alba (white oak), Q. coccinea (scarlet oak), Q. falcata (southern red oak), Q. rubra (northern red oak), Q velutina (black oak), and Q. stellata (post oak). Pines are also important canopy associates; at OMS No. 1 and No. 2 Pinus taeda (loblolly pine) and P. virginiana (Virginia pine) are prevalent. Hickories are usually unimportant, and no hickory species were observed during the inventory. Acer rubrum (red maple) and Nyssa sylvatica (blackgum) are prevalent in the understory, and dense colonies of heath-family plants dominate the shrub layers. At OMS No. 1 and No. 2, abundant upland ericads include Vaccinium pallidum (early lowbush blueberry), V. stamineum (deerberry), V. fuscatum (hairy highbush blueberry), Gaylussacia baccata (black huckleberry), Rhododendron atlanticum (dwarf azalea). Herbaceous species are sparsely distributed (Fleming et al., 2001).

Coastal Plain/Piedmont Acidic Seepage Swamps are oligotrophic (nutrient-poor) wetlands cloaked in deciduous or mixed forests. They are found along stream headwaters and toe-slopes where groundwater is discharged as surface seepage and slowly drained away as stream flow. Drainage patterns are generally diffuse in these saturated wetlands and typically characterized by braided channels interspersed with Sphagnumcovered hummocks. Substrates are sandy or peaty (Fleming et al., 2001). At OMS No. 1 and No. 2, this community type is poorly developed and has been disturbed by forest clearing, stream channelization, and ditching. Canopy species there include Acer rubrum, Nyssa sylvatica, and Pinus taeda; small trees and shrubs include Magnolia virginiana (sweetbay), Clethra alnifolia (sweet pepperbush), Viburnum nudum (possum-haw), and Vaccinium formosum (swamp highbush blueberry). The herb layer is diverse and rich in sedge species, including *Carex lonchocarpa* (southern long sedge), *C. seorsa* (weak stellate sedge), and *C. scoparia* (pointed broom sedge).

#### **METHODS**

#### Botanical

Botanical fieldwork was conducted by author AB and consisted of seven site visits between April and October 2001. A list was compiled of all plant taxa encountered at OMS No.1 and No. 2. Species that could not be identified in the field were collected and identified later using standard floras for the area, including Fernald (1950), Radford et al. (1968), and Gleason & Cronquist (1991). A draft flora in progress, (Weakley 2000), was consulted for more recent treatments. Plant specimens that represented new county records as determined by Harvill et al. (1992) and updated information provided by one of its authors (G.P. Fleming) were pressed, labeled, and deposited at the herbarium of Virginia Polytechnic Institute and State University (VPI) in Blacksburg, Virginia.

Rare plant searches focused on Helonias bullata (swamp-pink) and Isotria medeoloides (small whorled pogonia). Both of these species are listed as federally threatened and state endangered. Helonias bullata is known to occur in the Coastal Plain/Piedmont Acidic Seepage Swamp natural community type, and a known population is located about 10 km ESE of OMS No. 1 and No. 2 (DCR-DNH, unpublished data). Isotria medeoloides occurs in infertile, mesic to submesic upland forests and appears to favor areas with sparse shrub and herb layers. Coastal Plain occurrences of this orchid in Virginia are known from Williamsburg City and the following counties: Caroline, Gloucester, James City, King William, and New Kent (Ware, 1991; DCR-DNH, unpublished data). The small size of the study area allowed for intensive searches for these two plants when appropriate habitats were encountered.

## Zoological

Zoological fieldwork was led by KLD and consisted of 30 site visits between April 2001 and April 2002. Inventory of animal species entailed a full complement of sampling techniques as follows:

1. <u>Baited pitfall traps</u> (PF) – Small 8 cm-diameter cups baited with rotting meat were buried with the rims at ground level and used for four days in June to attract carrion-feeding insects.

- 2. <u>Bird surveys</u> (BD) Birds were inventoried using visual and aural survey techniques during three early morning (0600 h -1000h) site visits during the breeding season (May and June). In addition, owls were inventoried using tape playback calls for two nights in February.
- 3. <u>Coverboards</u> (CB) Eight coverboards (ca. 0.6 x 1.2 m each) made of pressboard were placed in various locations at the onset of the inventory in May 2001 to assist in the survey of reptiles and amphibians. Boards were lifted during each subsequent site visit to determine the presence of targeted species.
- 4. <u>Dip nets</u> (DN) Aquatic invertebrates were sampled with D-ring dip nets on three site visits in June and July.
- 5. <u>Drift fences</u> (DF) Two drift fence arrays were established in May 2001 for the purpose of trapping reptiles, amphibians, small mammals, and invertebrates. Each array consisted of three 5 m lengths of aluminum flashing radiating out from a central pitfall trap made from a one-gallon can. Flashing was buried 10 cm into the ground in order to direct traveling animals towards pitfall traps that were installed at the end of each length. Pitfall traps were filled with equal parts antifreeze and 10% formalin to kill and preserve captures. A wire mesh was placed over pitfalls to discourage vertebrates from being caught, but was removed during nine trap nights of mammal trapping sessions (18-22 June, 13-16 August, 18-20 September).
- 6. <u>Hand collection and visual/aural surveys</u> (HV) Reptiles and amphibians, as well as some invertebrates, were searched for and collected by hand in terrestrial habitats (12 hours of effort), where various cover objects were overturned in search of cryptic species. Opportunistic surveys for birds, amphibians, and mammals utilized visual and aural identification techniques.
- 7. <u>Malaise trap</u> (MA) Flying insects were sampled with a Malaise trap set from mid-May to late August along an intermittent stream in the Coastal Plain/Piedmont Acidic Seepage Swamp community.
- 8. Minnow traps (MN) Standard wire-mesh minnow traps were used to sample a variety of aquatic animals. Traps were baited with chicken livers and set overnight in shallow water for a total of seven nights in June.
- 9. <u>Mist netting</u> (MT) Nocturnal bat surveys were conducted using 17 x 18 ft. (5.2 x 5.5 m) mist nets

placed across appropriate corridor and aquatic habitats. Nets were set up at dusk on two nights (14 August, 18 September) and checked regularly for 3-5 hours.

- 10. <u>Sherman live traps</u> (SH) Traps for small mammals were placed along the drift fences as well as in various natural habitats. Traps were baited with oats and peanut butter and left open for a total of nine trap nights (18-22 June, 13-16 August, 18-20 September).
- 11. <u>Sugaring</u> (SU) Some nocturnal insects that are not attracted to UV-light come to bait. The bait used was a mixture of fermented beer, fruit, and sugar, which was applied to tree trunks during the two mist netting sessions. Moths were collected with a kill-jar and non-lepidopterans were collected in alcohol.
- 12. Sweep nets (SW) Lepidopterans, odonates, tiger beetles, and other flying invertebrates were sampled opportunistically on most site visits to both terrestrial and aquatic habitats using sweep nets.
- 13. <u>UV-Light traps</u> (UV) Nocturnal lepidopterans and other invertebrates were captured using standard bucket traps equipped with a blacklight (= ultraviolet) powered by a 12-volt gel-cell battery with ethyl acetate used as a killing agent. Traps were run overnight in a variety of habitats for twelve trap nights during the May-October period. During the two mist netting sessions, a UV-light was used with a white sheet. Moths attracted to the sheet were collected in a kill-jar and non-lepidopterans were collected in alcohol.

All invertebrate specimens collected during the study were preserved using standard methods (Martin, 1977). All lepidopterans were mounted on pins, odonates were preserved with acetone and stored in glassine envelopes, and other insects were stored in 70% isopropyl alcohol. Frogs and toads were the only vertebrate specimens collected from the pitfall traps; specimens were transferred to 35% isopropyl alcohol. Most specimens have been or will be deposited in the Virginia Museum of Natural History; some specimens may be deposited in the National Museum of Natural History and the reference collection (primarily Lepidoptera and Odonata) of DCR-DNH.

## RESULTS AND DISCUSSION

#### **Botanical**

A total of 325 vascular plant species and subspecific taxa was recorded for OMS No. 1 and No. 2 (Table 1). These taxa are contained within 189 genera

and 70 families. Four families, the Poaceae (55 taxa), Asteraceae (47 taxa), Cyperaceae (33 taxa), and Fabaceae (22 taxa) comprise 48.3% of the flora. *Carex* is by far the largest genus with 17 taxa. The 66 nonnative taxa represent 20.3% of the flora.

Included among the non-native taxa is a new Virginia state record, *Cerastium dubium* (doubtful mouse-ear chickweed). This weedy species has previously been reported in North America from Illinois, Ohio, Kentucky, Tennessee, Arkansas, Mississippi, Oregon, Washington, and Idaho (Kartesz, 1999; Chester & Wofford, 2000). It is native to western France and Sicily to central Russia (Shildneck & Jones, 1986). Thirteen new Henrico County records were collected (Table 1).

Neither Helonias bullata nor Isotria medeoloides was found during the survey. The Coastal Plain/Piedmont Acidic Seepage Swamp community at OMS No. 1 and No. 2 is small and poorly developed. There did not appear to be sufficient seepage to support Helonias. Uplands at the study site are mostly cloaked in a dense ericaceous shrub layer; thus, it is not surprising that Isotria was not found. No other rare, threatened, or endangered plant taxa were located during the inventory.

#### Zoological

Sixty-eight species of vertebrates were identified at OMS No. 1 and No. 2 during the course of the inventory, including 9 amphibians, 8 reptiles, 3 fish, 42 birds, and 6 mammals (Table 2). Two groups that are not well represented in the results are salamanders and small mammals. No salamanders were discovered on the property despite extensive searches. The year of the survey was particularly dry, and this may account for the difficulty of locating salamanders on the surface. Small mammals are typically difficult to inventory and often require many trap nights for few captures. It is likely that other species of mice, voles, and shrews exist on the property, but only the white-footed mouse (*Peromyscus leucopus*) was captured.

Vertebrate species associated with aquatic habitats (fish, aquatic turtles, and frogs) were located exclusively in the semipermanently flooded habitats of a tributary to White Oak Swamp. All other vertebrates identified during the inventory were common throughout the study area, showing little habitat

specificity. No rare, threatened, or endangered species of vertebrates were expected from the survey area based on available habitats and regional patterns, and all vertebrate species identified in the inventory are considered common in the region. No new county records of vertebrates resulted from the inventory.

The majority of Lepidoptera and Odonata captured during the inventory have been identified, yielding 124 species of Lepidoptera, 16 of which were new county record butterflies and skippers (Opler et al., 1995), and 20 species of Odonata, including seven new county records (Carle, 1982; Table 2). Dragonfly species collected included *Libellula flavida* (yellow-sided skimmer), an uncommon species in Virginia (Carle, 1982). Numerous other invertebrates were collected but will not be identified in the near future due to funding and expertise constraints. No rare, threatened, or endangered species of invertebrates were identified during the inventory.

The method of inventory that yielded the greatest number of species was hand collection and visual surveys (i.e., opportunistic searching). Nevertheless, nine of the vertebrate species were captured with an intensive trapping method, such as the drift fence arrays, mist nets, or minnow traps, thus justifying continued use of labor- and material-intensive methods in comprehensive inventories.

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Table 1. Flora of Virginia Army National Guard OMS No. 1 and No. 2 identified during DCR-DNH inventory, 2001. The list is arranged by major plant groups: Pteridophyta (ferns and fern allies), Gymnospermae (non-flowering seed plants), and Angiospermae (flowering plants). The Angiospermae are further divided into the Dicotyledoneae and Monocotyledoneae. Within each major group, families, genera, species, and subtaxa are arranged alphabetically. Nomenclature and common names follow Kartesz (1999) with the exception of *Setaria pumila* (Poir.) Roemer & J.A. Schultes ssp. *pumila*, where it appears that the Kartesz name, *Pennisetum glaucum* (L.) R. Br., is in error (A. Weakley, pers. comm.). Synonyms, shown following an equal sign (=), are provided for some taxa where Kartesz (1999) departs sharply from other familiar sources. Non-native taxa, as determined from a consensus of the standard regional floras, are preceded by an asterisk (\*). Dates are listed as month-day-year. The last column shows the Allen Belden Jr. collection number for specimens deposited at VPI to voucher new Henrico County plant records.

GROUP/FAMILY SCIENTIFIC NAME	COMMON NAME	DATE FIRST OBSERVED	COUNTY RECORD COLLECTION NO.
PTERIDOPHYTA			
BLECHNACEAE Woodwardia areolata (L.) T. Moore	Netted chain fern	04-25-01	
DENNSTAEDTIACEAE  Dennstaedtia punctilobula (Michx.) T. Moore  Pteridium aquilinum (L.) Kuhn	Eastern hay-scented fern Northern bracken fern	10-03-01 04-25-01	
DRYOPTERIDACEAE  Athyrium filix-femina (L.) Roth ssp.  asplenioides (Michx.) Hultén  Onoclea sensibilis L.	Subarctic lady fern Sensitive fern	05-23-01 05-23-01	
Polystichum acrostichoides (Michx.) Schott	Christmas fern	05-23-01	
LYCOPODIACEAE  Lycopodium digitatum Dill. ex A. Braun  Lycopodium obscurum L.	Fan ground-pine Princess-pine	05-23-01 04-25-01	
OPHIOGLOSSACEAE Botrychium dissectum Spreng.	Cut-leaf grape fern	09-05-01	
OSMUNDACEAE Osmunda cinnamomea L. Osmunda regalis L. var. spectabilis (Willd.) Gray	Cinnamon fern Royal fern	04-25-01 10-10-01	
THELYPTERIDACEAE Thelypteris noveboracensis (L.) Nieuwl.	New York fern	10-03-01	
GYMNOSPERMAE			
CUPRESSACEAE Juniperus virginiana L.	Eastern red-cedar	04-19-01	
PINACEAE Pinus taeda L. Pinus virginiana P. Mill.	Loblolly pine Virginia pine	04-25-01 04-25-01	
ANGIOSPERMAE: DICOTYLEDONEAE			
ACERACEAE Acer rubrum L.	Red maple	04-25-01	
ANACARDIACEAE  Rhus copallinum L. var. latifolia Engl.  Toxicodendron radicans (L.) Kuntze	Winged sumac Eastern poison-ivy	05-23-01 04-25-01	
APIACEAE *Daucus carota L.	Queen Anne's lace	07-03-01	

GROUP/FAMILY SCIENTIFIC NAME	COMMON NAME	DATE FIRST OBSERVED	COUNTY RECORD COLLECTION NO.
APOCYNACEAE			
Apocynum cannabinum L.	Indian-hemp	04-25-01	
Trachelospermum difforme (Walt.) Gray	Climbing-dogbane	07-03-01	
AQUIFOLIACEAE			
Ilex opaca Ait.	American holly	04-19-01	
Ilex verticillata (L.) Gray	Common winterberry	10-03-01	
nex verneman (E.) Glay	Common winterberry	10 03 01	
ASCLEPIADACEAE	Duttoufly milleyood	07.02.01	
Asclepias tuberosa L.	Butterfly milkweed	07-03-01	
ASTERACEAE			
*Achillea millefolium L.	Common yarrow	04-25-01	
Ambrosia artemisiifolia L.	Annual ragweed	09-05-01	
Arnica acaulis (Walt.) B.S.P.	Common leopardbane	04-25-01	
Bidens aristosa (Michx.) Britt.	Bearded beggarticks	09-05-01	
= Bidens polylepis Blake			
Bidens bipinnata L.	Spanish-needles	10-10-01	
*Centaurea biebersteinii DC.	Spotted knapweed	07-03-01	
= Centaurea maculosa auct. non Lam.	-		
*Centaurea cyanus L.	Garden cornflower	05-23-01	
Conyza canadensis (L.) Cronq.	Canadian horseweed	09-05-01	
= Erigeron canadensis L.			
Coreopsis verticillata L.	Whorled tickseed	04-25-01	
Elephantopus carolinianus Raeusch.	Carolina elephant's-foot	10-03-01	
Erechtites hieraciifolia (L.) Raf. ex DC.	American burnweed	09-05-01	
Erigeron annuus (L.) Pers.	Eastern daisy fleabane	07-03-01	
Erigeron strigosus Muhl. ex Willd.	Prairie fleabane	07-03-01	
Eupatorium capillifolium (Lam.)	Small dog-fennel	04-25-01	
Eupatorium dubium Willd. ex Poir.	Coastal-Plain Joe-Pye-weed	07-03-01	
Eupatorium hyssopifolium L. var. hyssopifolium	Hyssop-leaf thoroughwort	10-10-01	
Eupatorium hyssopifolium L. var. laciniatum Gray	Hyssop-leaf thoroughwort	07-03-01	
Eupatorium perfoliatum L.	Common boneset	05-23-01	
Eupatorium pilosum Walt.	Rough boneset	07-03-01	
Eupatorium rotundifolium L. var. ovatum (Bigelow) Torr.	Round-leaf thoroughwort	05-23-01	
=Eupatorium pubescens Muhl. ex Willd.	Round-tear thoroughwort	03-23-01	
Eurybia compacta Nesom	Savannah wood-aster	09-05-01	
= Aster gracilis Nutt.	61 1 11	00.05.01	
Euthamia caroliniana (L.) Greene ex Porter & Britt. = Solidago tenuifolia Pursh	Slender goldentop	09-05-01	
Euthamia graminifolia (L.) Greene	Flat-top goldentop	09-05-01	
= Solidago graminifolia (L.) Salisb.	10 1		
Gamochaeta purpurea (L.) Cabrera = Gnaphalium purpureum L.	Spoon-leaf purple everlasting	04-25-01	
– Ghaphattum purpureum L. Helenium flexuosum Raf.	Purple-head sneezeweed	07-03-01	
Hieracium gronovii L.	Queendevil	09-05-01	
*Hypochaeris radicata L.	Hairy cat's-ear	04-25-01	
туроспаеть raaicata L. Krigia virginica (L.) Willd.	Virginia dwarf-dandelion	04-23-01	
Lactuca canadensis L.	Florida blue lettuce	07-03-01	
Lactuca canaaensis L. *Leucanthemum vulgare Lam.	Oxy-eye daisy	04-25-01	
· ·	Ony-eye daisy	U4-23-U1	
= Chrysanthemum leucanthemum L.	Climbing hempvine	05-23-01	
Mikania scandens (L.) Willd.	Small's groundsel	03-23-01	
Packera anonyma (Wood) W.A. Weber & A. Löve = Senecio anonymus Wood	Small 8 groundset	04-23-01	
Pluchea camphorata (L.) DC.	Plowman's-wort	09-05-01	
Pseudognaphalium obtusifolium (L.) Hilliard & Burtt = Gnaphalium obtusifolium L.	Blunt-leaf rabbit-tobacco	09-05-01	
	Carolina dasset shis	07.02.01	
Pyrrhopappus carolinianus (Walt.) DC.	Carolina desert-chicory	07-03-01	
Sericocarpus linifolius (L.) B.S.P. = Aster solidagineus Michx.	Narrow-leaf white-top-aster	07-03-01	
Solidago altissima L.	Tall goldenrod	09-05-01	
Sonaago amssina L.	G		
	Gray goldenrod	09-05-01	
Solidago nemoralis Ait. Solidago pinetorum Small	Gray goldenrod Small's goldenrod	09-05-01 07-03-01	

ASTERACEAE (continued)	GROUP/FAMILY SCIENTIFIC NAME	COMMON NAME	DATE FIRST OBSERVED	COUNTY RECORD COLLECTION NO.
Solidago rugosa P. Mill. Symphyotrichum grandiflorum (L.) Nesom  = Aster grandiflorus L. Symphyotrichum lanceolatum (Willd.) Nesom  = Aster lanceolatum Willd. Symphyotrichum lanceolatum (Willd.) Nesom  = Aster lanceolatum Willd. Symphyotrichum lanceolatum (Willd.) Nesom  = Aster lanceolatum Willd. Symphyotrichum lateriflorum (L.) Ac. D. Löve  = Aster lanceolatum Willd. Symphyotrichum lateriflorum (L.) Britt. Symphyotrichum pilosum (Willd.) Nesom  = Aster planceolatum Willd. Symphyotrichum pilosum (Willd.) Nesom  = Aster planceolatum Sill.  *Trancacum officiale American-aster    10-03-01	ASTERACEAE (continued)			
Symphyotrichum grandiflorum (L.) Nesom		Wrinkle-leaf goldenrod	09-05-01	
**Aster grandifforus L. Symphyotrichum lanceolatum (Willd.) Nesom				
### Aster Ianceolanus Willd. Symphyotrichum lateriflorum (L.) A.& D. Löve   = Aster Ianceriflorus (L.) Brit. Symphyotrichum pilosum (Willd.) Nesom   = Aster pilosus Willd. #Taraxacum officinale G.H. Weber ex Wiggers   Vernonia noveboracensis (L.) Michx.    BETULACEAE   Betula nigra L.    BIGNONIACEAE   Campsis radicans (L.) Seem. ex Bureau    BRASSICACEAE    #Wosotis verna Nutt.    BRASSICACEAE   #Arabidopsis haliama (L.) Heynh.    *Barbarea vulgaris Ait. f.   Garden yellow-rocket    #Cardamine hirsuta L.    #Porroab prodycarpa Nutt. ex Torr. & Gray    Lepidium virginicum L.    *Will will will will be the progression of the progress		8		
Symphyotrichum lateriflorum (L.) A.& D. Löve   Farewell-summer   10-10-01	Symphyotrichum lanceolatum (Willd.) Nesom	White panicled American-aster	10-03-01	
Symphyotrichum pilosum (Willd.) Nesom  = Aster pilosus Willd. **Taraxacum officinale G.H. Weber ex Wiggers Vernonia noveboracensis (L.) Michx.  **BeTULACEAE Betula nigra L.  **BiGNONIACEAE Campsis radicans (L.) Seem. ex Bureau  **Borasis verna Nutt.  **Spring forget-me-not  **Barabarea vulgaris Ait. f.  **Gardamin hirsuta L.  **Draba brachycarpa Nutt. ex Torr. & Gray Lepidium virginicum L.  **Philosup perfoliatum (L.) F.K. Mey.  **Theaspi alliaceum L.  **Thaspi alliaceum L.  **Thaspi alliaceum L.  **Common shepherd's-cress  **O4-25-01  **Roadside Pennycress  **O4-25-01  **Thaspi alliaceum L.  **Common shepherd's-cress  **O4-25-01  **Thaspi alliaceum L.  **Common shepherd's-cress  **O4-25-01  **Thaspi alliaceum (L.) Nieuwl,  = Specularia perfoliatua (L.) A DC.  **CAPRIFOLIACEAE  Lobelia narlatili J.A. Schultes  **Nuttali's lobelia  **Triodanis perfoliata (L.) Nieuwl,  = Sambucus canadensis L.  **Southern arrow-wood  **O5-23-01  **Southern arrow-wood  **O5-23-01  **Southern arrow-wood  **O5-23-01  **Southern arrow-wood  **O5-23-01	Symphyotrichum lateriflorum (L.) A.& D. Löve	Farewell-summer	10-10-01	
*Taraxacum afficinale G.H. Weber ex Wiggers Vernonia noveboracensis (L.) Michx.  New York ironweed  10-03-01  BETULACEAE BEULACEAE Betula nigra L.  BIGNONIACEAE Campsis radicans (L.) Seem. ex Bureau  Trumpet-creeper  04-25-01  BORAGINACEAE Myosotis verna Nutt.  Spring forget-me-not  04-25-01  BRASSICACEAE *Arabidopsis thaliana (L.) Heynh.  *Barbarea vulgaris Ait. f.  Garden yellow-rocket  04-25-01  *Barbarea vulgaris Ait. f.  Cardanine hirsuta L.  Draba brachycarpa Nutt. ex Torr. & Gray Lepidlum vignicium L.  *Microthlaspi perfoliatum (L.) F.K. Mey.  = Thlaspi perfoliatum (L.) F.K. Mey.  = Thlaspi perfoliatum (L.) Ait. f.  Common shepherd's-cress  04-25-01  *Thlaspi alliaceum L.  Roadside Pennycress  04-19-01  AB 1896  CAMPANULACEAE Lobelia niplata L.  Lobelia niplata (L.) Nieuwl.  = Specularia perfoliata (L.) Nieuwl.  Sambucus rigra ssp. canadensis (L.) R. Bolli  = Sambucus sigra ssp. canadensis (L.) R. Bolli  = Sambucus sigra ssp. canadensis (L.) Southern arrow-wood  05-23-01  Viburuun dentatum L.  Southern arrow-wood  05-23-01	Symphyotrichum pilosum (Willd.) Nesom	White oldfield American-aster	10-03-01	
New York ironweed   10-03-01		Common dandelion	04-19-01	
BIGNONIACEAE Campsis radicans (L.) Seem. ex Bureau  Trumpet-creeper  04-25-01  BORAGINACEAE Myosotis verna Nutt.  Spring forget-me-not  04-25-01  BRASSICACEAE *Arabidopsis thaliana (L.) Heynh.  *Barbarea vulgaris Ait. f.  Garden yellow-rocket  *Cardamine hirsuta L.  Draba brachycarpa Nutt. ex Torr. & Gray  Lepidium virginicum L.  *Microthilaspi perfoliatum (L.) F.K. Mey.  = Thlaspi perfoliatum L.  *Teesdalia nudicaulis (L.) Ait. f.  Common shepherd's-cress  Lobelia inflata L.  Lobelia inflata L.  Lobelia inflata (L.) Nieuwl.  Especularia perfoliata (L.) Nieuwl.  Clasping-leaf Venus'-looking-  glass  CAPRIFOLIACEAE  *Lonicar japonica Thunb.  Sambucus nigra ssp. canadensis (L.) R. Bolli  = Sambucus canadensis (L.)  Viburnum dentatum L.  Southern arrow-wood  O4-25-01  O4-25-01  O4-25-01  O4-25-01  O4-25-01  AB 1896		New York ironweed	10-03-01	
BIGNONIACEAE Campsis radicans (L.) Seem. ex Bureau  Trumpet-creeper  04-25-01  BORAGINACEAE Myosotis verna Nutt.  Spring forget-me-not  04-25-01  BRASSICACEAE *Arabidopsis thaliana (L.) Heynh.  *Barbarea vulgaris Ait. f.  Garden yellow-rocket  *Cardamine hirsuta L.  Draba brachycarpa Nutt. ex Torr. & Gray  Lepidium virginicum L.  *Microthilaspi perfoliatum (L.) F.K. Mey.  = Thlaspi perfoliatum L.  *Teesdalia nudicaulis (L.) Ait. f.  Common shepherd's-cress  Lobelia inflata L.  Lobelia inflata L.  Lobelia inflata (L.) Nieuwl.  Especularia perfoliata (L.) Nieuwl.  Clasping-leaf Venus'-looking-  glass  CAPRIFOLIACEAE  *Lonicar japonica Thunb.  Sambucus nigra ssp. canadensis (L.) R. Bolli  = Sambucus canadensis (L.)  Viburnum dentatum L.  Southern arrow-wood  O4-25-01  O4-25-01  O4-25-01  O4-25-01  O4-25-01  AB 1896	BETULACEAE			
Trumpet-creeper   O4-25-01		River birch	04-25-01	
Trumpet-creeper   O4-25-01	-			
BORAGINACEAE  Myosotis verna Nutt.  Spring forget-me-not  04-25-01  BRASSICACEAE  *Arabidopsis thaliana (L.) Heynh.  *Barbarae vulgaris Ait. f.  Garden yellow-rocket  4-19-01  *Cardamine hirsuta L.  Draba brachycarpa Nutt. ex Torr. & Gray  Lepidium virginicum L.  *Microthlaspi perfoliatum (L.) F.K. Mey.  = Thlaspi perfoliatum L.  *Teesdalia nudicaulis (L.) Ait. f.  Common shepherd's-cress  Thlaspi alliaceum L.  *Teesdalia nudicaulis (L.) Ait. f.  Common shepherd's-cress  O4-25-01  *Thlaspi alliaceum L.  *Teesdalia nudicaulis (L.) Ait. f.  Common shepherd's-cress  O4-25-01  *Thlaspi alliaceum L.  Todanis perfoliata (L.) Nieuwl.  Lobelia nuttallii J.A. Schultes  Nuttall's lobelia  Triodanis perfoliata (L.) Nieuwl.  Specularia perfoliata (L.) A. DC.  CAPRIFOLIACEAE  *Lonicera japonica Thunb.  Sambucus canadensis (L.) R. Bolli  = Sambucus canadensis L.  Viburum dentatum L.  Southern arrow-wood  O5-23-01				
Myosotis verna Nutt.         Spring forget-me-not         04-25-01           BRASSICACEAE         *Arabidopsis thaliana (L.) Heynh.         Thalecress         04-25-01           *Barbarea vulgaris Ait. f.         Garden yellow-rocket         04-19-01           *Cardamine hirsuta L.         Hairy bittercress         04-25-01           Draba brachycarpa Nutt. ex Torr. & Gray         Short-pod whitlow-grass         04-25-01           Lepidium virginicum L.         Poorman's-pepperwort         04-25-01           *Microthlaspi perfoliatum (L.) F.K. Mey.         Pennycress         04-19-01           = Thlaspi perfoliatum L.         Common shepherd's-cress         04-25-01           *Tresdalia nudicaulis (L.) Ait. f.         Common shepherd's-cress         04-25-01           *Thlaspi alliaceum L.         Roadside Pennycress         04-19-01         AB 1896           CAMPANULACEAE         Lobelia inflata L.         Indian-tobacco         09-05-01         AB 1896           Lobelia nuttallii J.A. Schultes         Nuttall's lobelia         07-03-01         Triodanis perfoliata (L.) Nieuwl.         Clasping-leaf Venus'-looking-         05-23-01           = Specularia perfoliata (L.) A. DC.         glass         CAPRIFOLIACEAE         *Lonicera japonica Thunb.         Japanese honeysuckle         04-19-01           Sambucus anigra ssp. canadensis L. <td>Campsis radicans (L.) Seem. ex Bureau</td> <td>Trumpet-creeper</td> <td>04-25-01</td> <td></td>	Campsis radicans (L.) Seem. ex Bureau	Trumpet-creeper	04-25-01	
BRASSICACEAE **Arabidopsis thaliana* (L.) Heynh.  **Barbarea vulgaris* Ait. f.  **Cardamine hirsuta* L.  Draba brachycarpa* Nutt. ex Torr. & Gray  Lepidium virginicum L.  **Teesdalia nudicaulis* (L.) Ait. f.  **Teesdalia nudicaulis* (L.) Ait. f.  **Todanis perfoliatum* L.  **Todanis perfoliatua* L.  **Lobelia nuttallii J.A. Schultes  **Lobelia nuttallii J.A. Schultes  **Todanis perfoliata* (L.) Nieuwl.  = Specularia perfoliata* (L.) Nieuwl.  = Specularia perfoliata* (L.) A. DC.  **CAPRIFOLIACEAE  **Lonicera japonica* Thunb.  **Sambucus nigra ssp. canadensis (L.) R. Bolli  = Sambucus canadensis L.  **Viburnum dentatum* L.  **Southern arrow-wood**  **Southern arrow-wood**  **Od-25-01**  **Od-25-01**  **Arabidopsis velow-rocket  Od-19-01**  AB 1896**  AB 1896**  **Caprification (L.) Nieuwl.  = Specularia perfoliata*  Clasping-leaf Venus'-looking-  glass*  **CAPRIFOLIACEAE**  **Lonicera japonica*  **Lonicera japonica*  Sambucus canadensis (L.) R. Bolli  = Sambucus canadensis (L.) R. Bolli  = Sambucus canadensis L.  **Viburnum dentatum* L.  **Southern arrow-wood**  Od-25-01**  **Todanis perfoliata*  Od-19-01**  AB 1896**  **Arabidow-rocket  Od-19-01**  AB 1896**  AB 1896**  AB 1896**  AB 1896**  AB 1896**  **Caprification (L.) Nieuwl.  Clasping-leaf Venus'-looking-  05-23-01**  Od-19-01**  AB 1896**  AB 1896**  **Caprification (L.) Nieuwl.  Od-19-01**  Sambucus canadensis (L.) R. Bolli  Sambucus canadensis (L.) R. Bolli  Southern arrow-wood  Od-25-01**  **Viburnum dentatum L.  **Caprification (L.) Nieuwl.  Od-25-01**  Od-	BORAGINACEAE			
**Arabidopsis thaliana (L.) Heynh.  **Barbarea vulgaris Ait. f.  **Cardamine hirsuta L.  Draba brachycarpa Nutt. ex Torr. & Gray  Lepidium virginicum L.  **Microthlaspi perfoliatum (L.) F.K. Mey.  = Thlaspi perfoliatum L.  **Teesdalia nudicaulis (L.) Ait. f.  Common shepherd's-cress  CA-25-01  **Thalspi alliaceum L.  **Teesdalia nudicaulis (L.) Ait. f.  Common shepherd's-cress  CAMPANULACEAE  Lobelia inflata L.  Lobelia nuttallii J.A. Schultes  Triodanis perfoliata (L.) Nieuwl.  = Specularia perfoliata (L.) A. DC.  CARRIFOLIACEAE  **Lonicera japonica Thunb.  Sambucus nigra ssp. canadensis (L.) R. Bolli  = Sambucus canadensis L.  Viburnum dentatum L.  Southern arrow-wood  O4-25-01  AB 1896	Myosotis verna Nutt.	Spring forget-me-not	04-25-01	
**Arabidopsis thaliana (L.) Heynh.  **Barbarea vulgaris Ait. f.  **Cardamine hirsuta L.  Draba brachycarpa Nutt. ex Torr. & Gray  Lepidium virginicum L.  **Microthlaspi perfoliatum (L.) F.K. Mey.  = Thlaspi perfoliatum L.  **Teesdalia nudicaulis (L.) Ait. f.  Common shepherd's-cress  CA-25-01  **Thalspi alliaceum L.  **Teesdalia nudicaulis (L.) Ait. f.  Common shepherd's-cress  CAMPANULACEAE  Lobelia inflata L.  Lobelia nuttallii J.A. Schultes  Triodanis perfoliata (L.) Nieuwl.  = Specularia perfoliata (L.) A. DC.  CARRIFOLIACEAE  **Lonicera japonica Thunb.  Sambucus nigra ssp. canadensis (L.) R. Bolli  = Sambucus canadensis L.  Viburnum dentatum L.  Southern arrow-wood  O4-25-01  AB 1896	BRASSICACEAE			
*Barbarea vulgaris Ait. f.  *Cardamine hirsuta L.  Draba brachycarpa Nutt. ex Torr. & Gray  Lepidium virginicum L.  *Microthlaspi perfoliatum (L.) F.K. Mey.  = Thlaspi perfoliatum L.  *Teesdalia nudicaulis (L.) Ait. f.  *Thlaspi alliaceum L.  CAMPANULACEAE  Lobelia inflata L.  Lobelia nuttallii J.A. Schultes  Triodanis perfoliata (L.) Nieuwl.  = Specularia perfoliata (L.) A. DC.  CAPRIFOLIACEAE  *Lonicera japonica Thunb.  Sambucus nigra ssp. canadensis (L.) R. Bolli  = Sambucus canadensis L.  Viburnum dentatum L.  Garden yellow-rocket  Hairy bittercress  04-19-01  Hairy bittercress 04-25-01  Poorman's-pepperwort 04-25-01  Pennycress 04-19-01  AB 1896  CAMPANULACEAE  Lobelia nuttallii J.A. Schultes  Nuttall's lobelia 07-03-01  Triodanis perfoliata (L.) Nieuwl.  = Specularia perfoliata (L.) A. DC.  glass  CAPRIFOLIACEAE  *Lonicera japonica Thunb.  Sambucus canadensis (L.) R. Bolli  = Sambucus canadensis L.  Viburnum dentatum L.  Southern arrow-wood 05-23-01		Thalecress	04-25-01	
*Cardamine hirsuta L.  Draba brachycarpa Nutt. ex Torr. & Gray Lepidium virginicum L.  *Microthlaspi perfoliatum (L.) F.K. Mey. = Thlaspi perfoliatum L.  *Teesdalia nudicaulis (L.) Ait. f.  Common shepherd's-cress Pennycress  O4-19-01  *Thlaspi alliaceum L.  CAMPANULACEAE Lobelia inflata L. Lobelia nuttallii J.A. Schultes Triodanis perfoliata (L.) Nieuwl. = Specularia perfoliata (L.) A. DC.  CAPRIFOLIACEAE  *Lonicera japonica Thunb. Sambucus nigra ssp. canadensis (L.) R. Bolli = Sambucus canadensis L.  Viburnum dentatum L.  Hairy bittercress O4-25-01 Poorman's-pepperwort O4-25-01 O4-19-01  AB 1896  AB 1896  Common shepherd's-cress O4-25-01  AB 1896  Common shepherd's-cress O4-19-01  AB 1896  Caprifoliaceum L.  Clasping-leaf Venus'-looking- glass  CAPRIFOLIACEAE  *Lonicera japonica Thunb. Sambucus nigra ssp. canadensis (L.) R. Bolli = Sambucus canadensis L.  Southern arrow-wood O5-23-01				
Draba brachycarpa Nutt. ex Torr. & Gray Lepidium virginicum L. Poorman's-pepperwort Poorman's			04-25-01	
*Microthlaspi perfoliatum (L.) F.K. Mey.  = Thlaspi perfoliatum L.  *Teesdalia nudicaulis (L.) Ait. f.  Common shepherd's-cress 04-25-01  *Thlaspi alliaceum L.  Roadside Pennycress 04-19-01  AB 1896  CAMPANULACEAE  Lobelia inflata L.  Lobelia nuttallii J.A. Schultes  Triodanis perfoliata (L.) Nieuwl.  = Specularia perfoliata (L.) A. DC.  CAPRIFOLIACEAE  *Lonicera japonica Thunb.  Sambucus nigra ssp. canadensis (L.) R. Bolli  = Sambucus canadensis L.  Viburnum dentatum L.  Southern arrow-wood  O4-19-01  Black elder  10-03-01	Draba brachycarpa Nutt. ex Torr. & Gray		04-25-01	
#Teesdalia nudicaulis (L.) Ait. f.  *Teesdalia nudicaulis (L.) Ait. f.  *Thlaspi alliaceum L.  *Thlaspi alliaceum L.  Roadside Pennycress  04-25-01  Roadside Pennycress  04-19-01  AB 1896  CAMPANULACEAE  Lobelia inflata L.  Indian-tobacco  Up-05-01  Lobelia nuttallii J.A. Schultes  Nuttall's lobelia  O7-03-01  Triodanis perfoliata (L.) Nieuwl.  Especularia perfoliata (L.) A. DC.  Clasping-leaf Venus'-looking-  glass  CAPRIFOLIACEAE  *Lonicera japonica Thunb.  Sambucus nigra ssp. canadensis (L.) R. Bolli  Esambucus canadensis L.  Viburnum dentatum L.  Southern arrow-wood  05-23-01	Lepidium virginicum L.	Poorman's-pepperwort	04-25-01	
*Thlaspi alliaceum L. Roadside Pennycress 04-19-01 AB 1896  CAMPANULACEAE Lobelia inflata L. Indian-tobacco 09-05-01 Lobelia nuttallii J.A. Schultes Nuttall's lobelia 07-03-01 Triodanis perfoliata (L.) Nieuwl. Clasping-leaf Venus'-looking- = Specularia perfoliata (L.) A. DC. glass  CAPRIFOLIACEAE *Lonicera japonica Thunb. Japanese honeysuckle 04-19-01 Sambucus nigra ssp. canadensis (L.) R. Bolli Black elder 10-03-01 = Sambucus canadensis L. Viburnum dentatum L. Southern arrow-wood 05-23-01		Pennycress	04-19-01	
CAMPANULACEAE  Lobelia inflata L. Indian-tobacco 09-05-01  Lobelia nuttallii J.A. Schultes Nuttall's lobelia 07-03-01  Triodanis perfoliata (L.) Nieuwl. Clasping-leaf Venus'-looking- 05-23-01  = Specularia perfoliata (L.) A. DC. glass  CAPRIFOLIACEAE  *Lonicera japonica Thunb. Japanese honeysuckle 04-19-01  Sambucus nigra ssp. canadensis (L.) R. Bolli Black elder 10-03-01  = Sambucus canadensis L.  Viburnum dentatum L. Southern arrow-wood 05-23-01	* *			
Lobelia inflata L. Indian-tobacco 09-05-01  Lobelia nuttallii J.A. Schultes Nuttall's lobelia 07-03-01  Triodanis perfoliata (L.) Nieuwl. Clasping-leaf Venus'-looking- = Specularia perfoliata (L.) A. DC. glass  CAPRIFOLIACEAE  *Lonicera japonica Thunb. Japanese honeysuckle 04-19-01  Sambucus nigra ssp. canadensis (L.) R. Bolli Black elder 10-03-01  = Sambucus canadensis L.  Viburnum dentatum L. Southern arrow-wood 05-23-01	*Thlaspi alliaceum L.	Roadside Pennycress	04-19-01	AB 1896
Lobelia nuttallii J.A. Schultes Nuttall's lobelia 07-03-01 Triodanis perfoliata (L.) Nieuwl. Clasping-leaf Venus'-looking- glass  CAPRIFOLIACEAE *Lonicera japonica Thunb. Sambucus nigra ssp. canadensis (L.) R. Bolli Sambucus canadensis L. Viburnum dentatum L.  Nuttall's lobelia 07-03-01 05-23-01	CAMPANULACEAE			
Triodanis perfoliata (L.) Nieuwl.  = Specularia perfoliata (L.) A. DC.  CAPRIFOLIACEAE  *Lonicera japonica Thunb.  Sambucus nigra ssp. canadensis (L.) R. Bolli  = Sambucus canadensis L.  Viburnum dentatum L.  Clasping-leaf Venus'-looking- glass  05-23-01  04-19-01  Black elder 10-03-01  5-23-01	Lobelia inflata L.	Indian-tobacco	09-05-01	
= Specularia perfoliata (L.) A. DC. glass  CAPRIFOLIACEAE  *Lonicera japonica Thunb. Japanese honeysuckle 04-19-01 Sambucus nigra ssp. canadensis (L.) R. Bolli Black elder 10-03-01  = Sambucus canadensis L.  Viburnum dentatum L. Southern arrow-wood 05-23-01			07-03-01	
CAPRIFOLIACEAE *Lonicera japonica Thunb. Sambucus nigra ssp. canadensis (L.) R. Bolli = Sambucus canadensis L. Viburnum dentatum L. Southern arrow-wood  04-19-01 10-03-01 10-03-01		Clasping-leaf Venus'-looking-	05-23-01	
*Lonicera japonica Thunb.  Sambucus nigra ssp. canadensis (L.) R. Bolli  = Sambucus canadensis L.  Viburnum dentatum L.  Japanese honeysuckle  Black elder  10-03-01  10-03-01  50uthern arrow-wood  05-23-01	= Specularia perfoliata (L.) A. DC.	glass		
Sambucus nigra ssp. canadensis (L.) R. Bolli  = Sambucus canadensis L.  Viburnum dentatum L.  Southern arrow-wood  05-23-01	CAPRIFOLIACEAE			
= Sambucus canadensis L.  Viburnum dentatum L. Southern arrow-wood 05-23-01				
		Black elder	10-03-01	
Viburnum nudum L. Possumhaw 04-19-01	Viburnum dentatum L.	Southern arrow-wood	05-23-01	
	Viburnum nudum L.	Possumhaw	04-19-01	
CARYOPHYLLACEAE	CARYOPHYLLACEAE			
· · · · · · · · · · · · · · · · · · ·	*Cerastium dubium (Bast.) Guépin			AB 1899 State record
*Scleranthus annuus L. Annual knawel 04-25-01				
*Stellaria media (L.) Vill. Common chickweed 04-19-01	*Stellaria media (L.) Vill.	Common chickweed	04-19-01	
CISTACEAE				
Lechea minor L. Thyme-leaf pinweed 09-05-01	Lechea minor L.	Thyme-leaf pinweed	09-05-01	
CLETHRACEAE	CLETHRACEAE			
Clethra alnifolia L. Coastal sweet-pepperbush 04-19-01	Clethra alnifolia L.	Coastal sweet-pepperbush	04-19-01	
CLUSIACEAE	CLUSIACEAE			
Hypericum canadense L. Lesser Canadian St. John's-wort 07-03-01				
Hypericum gentianoides (L.) B.S.P. Orange-grass 04-25-01				
Hypericum hypericoides (L.) Crantz ssp. hypericoides St. Andrew's-cross 05-23-01	**			
Hypericum hypericoides (L.) Crantz ssp. St. Andrew's-cross 04-25-01  multicaule (Michx. ex Willd.) Robson  = Hypericum stragulum P. Adams & Robson	multicaule (Michx. ex Willd.) Robson	St. Andrew´s-cross	04-25-01	

GROUP/FAMILY SCIENTIFIC NAME	COMMON NAME	DATE FIRST OBSERVED	COUNTY RECORD COLLECTION NO.
CLUSIACEAE (continued)	D (C) 11 2	07.02.01	
Hypericum mutilum L. Hypericum perforatum L.	Dwarf St. John's-wort Common St. John's-wort	07-03-01 05-23-01	
Hypericum punctatum Lam.	Spotted St. John's-wort	07-03-01	
Пуренсин ринскийн Баш.	Spotted St. John 3-wort	07-03-01	
CONVOLVULACEAE			
Ipomoea pandurata (L.) G.F.W. Mey.	Man-of-the-earth	09-05-01	
CORNACEAE			
Cornus florida L.	Flowering dogwood	04-19-01	
Nyssa sylvatica Marsh.	Black tupelo	04-25-01	
EDENAL CELE			
EBENACEAE		10.02.01	
Diospyros virginiana L.	Common persimmon	10-03-01	
ERICACEAE			
Gaylussacia baccata (Wangenh.) K. Koch	Black huckleberry	04-25-01	
Gaylussacia frondosa (L.) Torr. & Gray ex Torr.	Blue huckleberry	04-25-01	
Leucothoe racemosa (L.) Gray	Swamp doghobble	04-19-01	
Lyonia mariana (L.) D. Don	Piedmont Staggerbush	05-23-01	
Rhododendron atlanticum (Ashe) Rehd. Vaccinium formosum Andr.	Dwarf azalea Southern blueberry	04-25-01 04-19-01	
Vaccinium fuscatum Aidt.  Vaccinium fuscatum Ait.	Black blueberry	04-19-01	
Vaccinium jusculum Alt. Vaccinium pallidum Ait.	Early lowbush blueberry	04-19-01	
Vaccinium stamineum L.	Deerberry	04-19-01	
	,		
EUPHORBIACEAE		10.02.01	
Acalypha gracilens Gray Acalypha rhomboidea Raf.	Slender three-seed-mercury Common three-seed-mercury	10-03-01 09-05-01	
Chamaesyce maculata (L.)	Small spotted sandmat	07-03-01	
= Euphorbia maculata L.	Sman spotted sandmat	07-03-01	
Chamaesyce nutans (Lag.) Small	Eyebane	09-05-01	
= Euphorbia nutans Lag.	•		
FABACEAE			
*Albizia julibrissin Durazz.	Silktree	05-23-01	
Apios americana Medik.	Groundnut	07-03-01	
Chamaecrista fasciculata (Michx.) Greene	Sleepingplant	07-03-01	
= Cassia fasciculata Michx.			
Chamaecrista nictitans (L.) Moench	Partridge-pea	09-05-01	
= Cassia nictitans L.	D31	00.07.01	
Desmodium glabellum (Michx.) DC.	Dillenius' tick-trefoil	09-05-01	
Desmodium paniculatum (L.) DC. *Kummerowia stipulacea (Maxim.) Makino	Panicled-leaf tick-trefoil Korean-clover	09-05-01 09-05-01	
= Lespedeza stipulacea Maxim.	Korean-ciovei	07-03-01	
*Kummerowia striata (Thunb.) Schindl.	Japanese-clover	07-03-01	AB 1943
= Lespedeza striata (Thunb.) Hook . & Arn.	•		
*Lespedeza cuneata (DumCours.) G. Don	Chinese bush-clover	04-25-01	
Lespedeza procumbens Michx.	Trailing bush-clover	09-05-01	
Lespedeza repens (L.) W. Bart.	Creeping bush-clover	09-05-01	
Lespedeza virginica (L.) Britt.	Slender bush-clover	09-05-01	
*Melilotus officinalis (L.) Lam.	Yellow sweet-clover	05-23-01	
Stylosanthes biflora (L.) B.S.P. Tephrosia virginiana (L.) Pers.	Side-beak pencil-flower Goat's-rue	09-05-01 07-03-01	
*Trifolium arvense L.	Rabbit-foot clover	07-03-01	
*Trifolium campestre Schreb.	Lesser hop clover	05-23-01	
*Trifolium dubium Sibthorp	Suckling clover	04-25-01	
*Trifolium pratense L.	Red clover	09-05-01	
*Trifolium repens L.	White clover	04-25-01	
*Vicia lathyroides L.	Spring vetch	04-25-01	
*Vicia sativa L.	Garden vetch	04-25-01	

GROUP/FAMILY SCIENTIFIC NAME	COMMON NAME	DATE FIRST OBSERVED	COUNTY RECORD COLLECTION NO.
FAGACEAE			
Castanea pumila (L.) P. Mill.	Allegheny-chinkapin	05-23-01	
Ouercus alba L.	Northern white oak	04-25-01	
Quercus coccinea Muenchh.	Scarlet oak	10-03-01	
Quercus falcata Michx.	Southern red oak	04-25-01	
	Water oak	04-25-01	
Quercus nigra L.	Willow oak		
Quercus phellos L.		04-25-01	
Quercus rubra L.	Northern red oak	04-25-01	
Quercus stellata Wangenh. Quercus velutina Lam.	Post oak Black oak	10-10-01 05-23-01	
GENTIANACEAE			
Gentiana saponaria L.	Harvestbells	10-03-01	
GERANIACEAE			
*Geranium dissectum L.	Cut-leaf crane's-bill	05-23-01	AB 1903
GROSSULARIACEAE	***	05.22.04	
Itea virginica L.	Virginia sweetspire	05-23-01	
HAMAMELIDACEAE	Sweet-gum	04-19-01	
Liquidambar styraciflua L.	Sweet-gum	04-19-01	
LAMIACEAE			
*Lamium purpureum L.	Red henbit	04-25-01	
Lycopus virginicus L.	Virginia water-horehound	09-05-01	
*Prunella vulgaris L.	Common selfheal	09-05-01	
Scutellaria integrifolia L.	Helmet-flower	05-23-01	
LAURACEAE Sassafras albidum (Nutt.) Nees	Sassafras	04-19-01	
LINACEAE  Linum medium (Planch.) Britt. var. texanum (Planch.) Fern.	Stiff yellow flax	07-03-01	
MAGNOLIACEAE			
Magnolia virginiana L.	Sweet-bay	04-19-01	
MELASTOMATACEAE			
Rhexia mariana L.	Maryland meadow-beauty	07-03-01	
Rhexia virginica L.	Handsome-Harry	07-03-01	
OLEACEAE			
*Ligustrum sinense Lour.	Chinese privet	10-03-01	
ONAGRACEAE	G 11	07.02.01	
Ludwigia alternifolia L. Ludwigia palustris (L.) Ell.	Seedbox Marsh primrose-willow	07-03-01 07-03-01	
OVALIDACEAE	•		
OXALIDACEAE *Oxalis corniculata L.	Creeping yellow wood-sorrel	05-23-01	
Oxalis corniculaid L. Oxalis dillenii Jacq.	Slender yellow wood-sorrel	05-23-01	
PHYTOLACCACEAE Phytolacca americana L.	American pokeweed	07-03-01	
PLANTAGINACEAE			
Plantago aristata Michx.	Large-bract plantain	07-03-01	
*Plantago lanceolata L.	English plantain	04-25-01	
Plantago virginica L.	Pale-seed plantain	04-25-01	
POLYGALACEAE	a . ,		
Polygala curtissii Gray	Curtiss' milkwort	10-03-01	

GROUP/FAMILY SCIENTIFIC NAME	COMMON NAME	DATE FIRST OBSERVED	COUNTY RECORD COLLECTION NO.
POLYGONACEAE			
*Polygonum caespitosum Blume var. longisetum (de Bruyn) A.N. Steward	Oriental lady's-thumb	09-05-01	
Polygonum hydropiperoides Michx.	Swamp smartweed	10-30-01	
Polygonum pensylvanicum L.	Pinkweed	10-10-01	
Polygonum punctatum Ell.	Dotted smartweed	10-03-01	
*Rumex acetosella L.	Common sheep sorrel	04-25-01	
*Rumex crispus L.	Curly dock	04-25-01	
*Rumex obtusifolius L.	Bitter dock	05-23-01	
PRIMULACEAE			
*Anagallis arvensis L.	Scarlet pimpernel	09-05-01	
Lysimachia quadrifolia L.	Whorled yellow-loosestrife	05-23-01	
PYROLACEAE			
Chimaphila maculata (L.) Pursh	Striped prince's-pine	04-19-01	
RANUNCULACEAE			
Clematis virginiana L.	Devil's-darning-needles	05-23-01	
Ranunculus bulbosus L.	St. Anthony's-turnip	04-25-01	
ROSACEAE			
Amelanchier canadensis (L.) Medik.	Canadian service-berry	04-19-01	
Duchesnea indica (Andr.) Focke	Indian-strawberry	04-25-01	
Photinia pyrifolia (Lam.) Robertson & Phipps = Aronia arbutifolia (L.) Pers. = Pyrus arbutifolia (L.) L. f.	Red chokeberry	04-19-01	
Potentilla canadensis L.	Dwarf cinquefoil	04-25-01	
Potentilla simplex Michx.	Oldfield cinquefoil	04-25-01	
Prunus serotina Ehrh.	Black cherry	04-25-01	
Rubus argutus Link	Saw-tooth blackberry	05-23-01	
Rubus cuneifolius Pursh	Sand blackberry	07-03-01	
Rubus flagellaris Willd.	Whiplash dewberry	07-03-01	
Rubus scambens Bailey	Springtime dewberry	10-03-01	
RUBIACEAE			
Cephalanthus occidentalis L.	Common buttonbush	10-10-01	
Diodia teres Walt.	Poorjoe	04-25-01	
Houstonia caerulea L.	Quaker-ladies	04-25-01	
= Hedyotis caerulea (L.) Hook.			
Houstonia pusilla Schoepf	Tiny bluet	04-25-01	AB 1897
= Hedyotis crassifolia Raf.			
Mitchella repens L.	Partridge-berry	04-19-01	
SALICACEAE			
Populus grandidentata Michx.	Big-tooth aspen	05-23-01	
Salix humilis Marsh.	Prairie willow	04-19-01	
Salix nigra Marsh.	Black willow	04-25-01	
SCROPHULARIACEAE			
Agalinis purpurea (L.)	Pennell purple false foxglove	10-03-01	
Nuttallanthus canadensis (L.) D.A. Sutton = Linaria canadensis (L.) Chaz.	Oldfield-toadflax	04-25-01	
*Veronica arvensis L.	Corn speedwell	04-25-01	
*Veronica hederifolia L.	Ivy-leaf speedwell	04-25-01	
Veronica officinalis L.	Common gypsyweed	04-25-01	
Veronica peregrina L.	Neckweed	04-25-01	
*Veronica persica Poir.	Bird-eye speedwell	04-25-01	
SOLANACEAE			
Solanum carolinense L.	Carolina horse-nettle	07-03-01	
TVDHACEAE			
TYPHACEAE Typha latifolia L.	Broad-leaf cat-tail	09-05-01	
1 урна шијона L.	Dioau-icai cat-taii	09-03-01	

URTICACEAE  Rochmeria cylindrica (I.) Sw.  Small-spike false nettle  10-03-01  VALERIANACEAE  *Valeriandella locustia (L.) Lat.  Lamb's-lettuce  04-25-01  VIOLACEAE  *Valor arrowsits Murr.  European field pansy  04-19-01  Valor scurdina Ai.  Valor scriptial with the violet  10-19-01  Valor scriptial ai.  Viola crecitata Ai.  Viola crecitata Ai.  Viola primalifolia L. (pro sp.) [lancrolata × macloskeyl]  Primrose-leaved violet  10-19-01  Virginia-creeper  04-19-01  AB 1937  ANGIOSPERMAE: MONOCOTYLEDONEAE  COMMEL INACEAE  **Commelina communis I.  **Mardamita keisak (Hassk.) HandMaz.  Wart-removing-herb  05-23-01  CYPERACEAE  Carex dalari Tor.  Carex alaria Tor.  Broad-wing sedge  05-23-01  Carex banda Boewey  Eastern woodland sedge  05-23-01  Carex torinia Machania  Carex alaria Tor.  Carex ala	GROUP/FAMILY SCIENTIFIC NAME	COMMON NAME	DATE FIRST OBSERVED	COUNTY RECORD COLLECTION NO.
VALERIANACEAE	LIDTICACEAE			
VIOLACEAE		Small-spike false nettle	10-03-01	
VIOLACEAE	VALERIANACEAE			
**Viola arvenis Murr.         European field pansy (04-19-01)           Viola bicolor Pursh         Field pansy (04-19-01)           Viola cuallata Ait.         Wind cuallata Ait.           Viola x primulifolia L. (pro sp.) [lanceolata × maclaskeyi]         Primrose-leaved violet         04-19-01           Parthemocissus quinquefolia (L.)Planch.         Virginia-creeper         04-19-01           Vitis cinera (Engelm) Millard var, floridana Munson         Gray-bark grape         10-03-01         AB 1937           ANGIOSPERMAE: MONOCOTYLEDONEAE         COMMELINACEAE         COMMELINACEAE           **COMMELINACEAE         COMMELINACEAE         COMMELINACEAE           **COMMELINACEAE         Virginia-creeper         09-05-01           **Murdannia keizak (Hassk.) HandMaz.         Want-removing-herb         05-23-01           **CYPERACEAE         Crease and Tort.         Broad-wing sedge         05-23-01           **Carex and Tort.         Broad-wing sedge         05-23-01         2-23-01           **Carex and Dewey         Eastern woolland sedge         05-23-01         2-23-01           **Carex and Dewey         Eastern woolland sedge         05-23-01         2-23-01           **Carex farbilis Michx.         White-singe sedge         05-23-01         2-23-01           **Carex farbilis Mackenzie         Fira		Lamb's-lettuce	04-25-01	
**Viola arvenis Murr.         European field pansy (04-19-01)           Viola bicolor Pursh         Field pansy (04-19-01)           Viola cuallata Ait.         Wind cuallata Ait.           Viola x primulifolia L. (pro sp.) [lanceolata × maclaskeyi]         Primrose-leaved violet         04-19-01           Parthemocissus quinquefolia (L.)Planch.         Virginia-creeper         04-19-01           Vitis cinera (Engelm) Millard var, floridana Munson         Gray-bark grape         10-03-01         AB 1937           ANGIOSPERMAE: MONOCOTYLEDONEAE         COMMELINACEAE         COMMELINACEAE           **COMMELINACEAE         COMMELINACEAE         COMMELINACEAE           **COMMELINACEAE         Virginia-creeper         09-05-01           **Murdannia keizak (Hassk.) HandMaz.         Want-removing-herb         05-23-01           **CYPERACEAE         Crease and Tort.         Broad-wing sedge         05-23-01           **Carex and Tort.         Broad-wing sedge         05-23-01         2-23-01           **Carex and Dewey         Eastern woolland sedge         05-23-01         2-23-01           **Carex and Dewey         Eastern woolland sedge         05-23-01         2-23-01           **Carex farbilis Michx.         White-singe sedge         05-23-01         2-23-01           **Carex farbilis Mackenzie         Fira	VIOLACEAE			
Viola primulifolia L. (pro sp.) [lanceolata × macloskeyi]		European field pansy	04-25-01	
Viola primulifolia L. (pro sp.)   lanceolata × macloskeyi   Vinginia-creeper   Vinginia	Viola bicolor Pursh	1 2	04-19-01	
### Viola primultjolia L  VITACEAE  Parthenocissus quinquefolia (L.)Planch. Viis cineva (Engelm.) Millard var. floridana Munson Vitis rotundifolia Michx.  **Nomenina communis** L  **Commelina communis** L  **Mundamia keiska (Hassk.) HandMaz.  **War-removing-herb** **O5-23-01  **CYPERACEAE**  **Carex alaia Torr.  **Bringed sedge  **O5-23-01  **Carex alaia Torr.				
Parthenocissus quinquefolia (L.)Planch. Vitis cinerea (Engelm.) Millard var. floridana Munson Vitis rotundifolia Michx.  ANGIOSPERMAE: MONOCOTYLEDONEAE  **Commelina communis L. **Murdamia keisak (Hassk.) HandMaz.  **Murdamia keisak (Hassk.) HandMaz.  **CYPERACEAE  **Carex alata Torr.  **Carex alata Torr.  **Carex alata Torr.  **Carex alata Torr.  **Carex alata Box.**  **Carex willd. ex Spreng.  **White-tinge sedge  **O5-23-01  **Carex bullada Sechuhr ex Willd.  **Button sedge  **O5-23-01  **Carex bullada Sechuhr ex Willd.  **Button sedge  **O5-23-01  **Carex bullada Sechuhr ex Willd.  **Button sedge  **O5-23-01  **Carex fabriatud Mackenzie  **Carex fabriatud Mackenzie  **Carex initua Lam.  **Carex initua Lam.  **Carex fabriatud Mackenzie  **Carex initua Lam Sedge  **Carex initua Mackenzie  **Carex initua Lam Sedge  **Carex initua Lam Sedge  **Carex initua Lam Sedge  **Carex initua Mackenzie  **Carex initua Lam Sedge  **Carex initua Mackenzie  **Carex initua Mack		Primrose-leaved violet	04-19-01	
Parthenocissus quinquefolia (L.)Planch. Vitis cinerea (Engelm.) Millard var. floridana Munson Vitis rotundifolia Michx.  ANGIOSPERMAE: MONOCOTYLEDONEAE  **Commelina communis L. **Murdamia keisak (Hassk.) HandMaz.  **Murdamia keisak (Hassk.) HandMaz.  **CYPERACEAE  **Carex alata Torr.  **Carex alata Torr.  **Carex alata Torr.  **Carex alata Torr.  **Carex alata Box.**  **Carex willd. ex Spreng.  **White-tinge sedge  **O5-23-01  **Carex bullada Sechuhr ex Willd.  **Button sedge  **O5-23-01  **Carex bullada Sechuhr ex Willd.  **Button sedge  **O5-23-01  **Carex bullada Sechuhr ex Willd.  **Button sedge  **O5-23-01  **Carex fabriatud Mackenzie  **Carex fabriatud Mackenzie  **Carex initua Lam.  **Carex initua Lam.  **Carex fabriatud Mackenzie  **Carex initua Lam Sedge  **Carex initua Mackenzie  **Carex initua Lam Sedge  **Carex initua Lam Sedge  **Carex initua Lam Sedge  **Carex initua Mackenzie  **Carex initua Lam Sedge  **Carex initua Mackenzie  **Carex initua Mack	VITACEAE			
Vitis croundifolia Michx.         Gray-bark grape         10-03-01         AB 1937           Vitis ronundifolia Michx.         Muscadine         04-25-01         AB 1937           ANGIOSPERMAE: MONOCOTYLEDONEAE           COMMELINACEAE           Wart-removing-herb         09-05-01           Wart-removing-herb         05-23-01           CYPERACEAE           Carex dato Torr.         Broad-wing sedge         05-23-01           Carex dato Torr.         Broad-wing sedge         05-23-01            Broad-wing sedge         05-23-01           Carex bullata Schkuhr ex Willd.         Button sedge         05-23-01           Carex bullatas Schkuhr ex Willd.         Button sedge         05-23-01           Carex cinita Lam.         Fringed sedge         05-23-01           Carex cinita Lam.         Pringed sedge         05-23-01           Carex cinita Lam.         Pringed sedge         07-03-01           Carex cinita Lam.         Pringed sedge         07-23-01           Carex cinita Kunth         Frank 'S Sedge         07-03-01           Carex cinita Lam.         Fringed sedge         05-23-01		Virginia-creeper	04-19-01	
ANGIOSPERMAE: MONOCOTYLEDONEAE  COMMELINACEAE  **Commelina communis L. **Murdannia keisak (Hassk.) HandMaz.  **Martannia keisak (Hassk.) HandMaz.  **CyperaCEAE  Carex alabicans Willd. ex Spreng.  **Carex alabicans Willd. ex Spreng.  **Carex alabicans Willd. ex Spreng.  **Carex bullana Schkuhr ex Willd.  **Carex formina Torr. & Broad.  **Carex intimescerns Rudge  **Carex formina Schkuhr ex Willd.  **Carex formina Mackenzie  **Carex formina Mackenzie  **Carex bullana Schkuhr ex Willd.  **Carex formina Mackenzie  **Carex songaria Schkuhr ex Willd.  **Common for sedge			10-03-01	AB 1937
COMMELINACEAE   **Commelina communis L.   Asiatic dayflower   09-05-01   **Murdamia keisak (Hassk.) HandMaz.   Wart-removing-herb   05-23-01   **CYPERACEAE   Carex alabicans Willd. ex Spreng.   White-tinge sedge   05-23-01   Carex albicans Willd. ex Spreng.   White-tinge sedge   05-23-01   Carex blanda Dewey   Eastern woodland sedge   05-23-01   Carex blanda Schkuhr ex Willd.   Button sedge   05-23-01   Carex care minister   Carex bullada Schkuhr ex Willd.   Button sedge   05-23-01   Carex familis Michx.   White-edge sedge   05-23-01   Carex familis Michx.   White-edge sedge   05-23-01   Carex familis Michx.   White-edge sedge   05-23-01   Carex firmitistella Mackenzie   Fuzzy-wuzzy sedge   05-23-01   Carex instrustella Mackenzie   Fuzzy-wuzzy sedge   05-23-01   Carex instrustella Mackenzie   Carex instructenza Milld.   Southern long sedge   05-23-01   Carex instructenza Mallenb.   Carex instructenza Mallenb.   Carex instructenza Mallenb.   Sallow sedge   05-23-01   Carex seorga mackenzie   Carex instructenza Mallenb.   Sallow sedge   05-23-01   Carex seorga mackenzie   Carex violatica Michx.   Common fox sedge   05-23-01   Carex violatica Michx.   Carex			04-25-01	
**Commelina communis L. **Asiatic dayflower	ANGIOSPERMAE: MONOCOTYLEDONEAE			
**Commelina communis L. **Asiatic dayflower	COMMELINACEAE			
**Murdamia keisak (Hassk.) HandMaz.         Wart-removing-herb         05-23-01           CYPERACEAE         Carex alatar Torr.         Broad-wing sedge         05-23-01           Carex albizams Willd. ex Spreng.         White-tinge sedge         05-23-01           Carex blanda Dewey         Eastern woodland sedge         05-23-01           Carex chilata Schkuhr ex Willd.         Button sedge         05-23-01           Carex fraintia Lam.         Pringed sedge         05-23-01           Carex debilis Michx.         White-edge sedge         05-23-01           Carex fraintik Kunth         Frank's Sedge         07-03-01           Carex nirsutella Mackenzie         Fuzzy-wuzzy sedge         05-23-01           Carex nirsutella Mackenzie         Fuzzy-wuzzy sedge         05-23-01           Carex nirsutella Mackenzie         Fuzzy-wuzzy sedge         05-23-01           Carex nirsutella Mackenzie         Cyperses-swamp sedge         10-10-01           Carex intumescens Rudge         Greater bladder sedge         05-23-01           Carex londocarpa Willd.         Southern long sedge         05-23-01           Carex individual L. var. australis Bailey         Lous sand sedge         10-10-01           Carex londocarpa Willd.         Sallow sedge         05-23-01           Carex londocarpa (aschala		Asiatic dayflower	09-05-01	
Carex alata Torr.         Broad-wing sedge         05-23-01           Carex albicans Willd. ex Spreng.         White-tinge sedge         05-23-01           Carex blanda Dewey         Eastern woodland sedge         05-23-01           Carex bullata Schkuhr ex Willd.         Button sedge         05-23-01           Carex crinita Lam.         Pringed sedge         05-23-01           Carex fankii Kunth         Frank's Sedge         07-03-01           Carex fankii Kunth         Frank's Sedge         07-03-01           Carex fankii Kunth         Frank's Sedge         05-23-01           Carex formalidat Torr. & Hook.         Var.         Virtual Willd.) Gleason           Carex complanata Torr. & Hook.         Var.         Virtual Willd.) Gleason           Carex londicascens Rudge         Greater bladder sedge         05-23-01           Carex londicascens Rudge         Greater bladder sedge         05-23-01           Carex lonchocarpa Willd.         Southern long sedge         05-23-01           Carex lonchocarpa Willd.         Southern long sedge         05-23-01           Carex longii Mackenzie         Long's sedge         05-23-01           Carex longii Mackenzie         Long's sedge         05-23-01           Carex vongria Schkuhr ex Willd.         Pointed broom sedge         05-23-01 </td <td></td> <td></td> <td></td> <td></td>				
Carex albicans Willd. ex Spreng.         White-tinge sedge         05-23-01           Carex bulanda Dewey         Eastern woodland sedge         05-23-01           Carex bullata Schkuhr ex Willd.         Button sedge         05-23-01           Carex crinita Lam.         Fringed sedge         05-23-01           Carex debilis Michx.         White-edge sedge         05-23-01           Carex frankii Kunth         Frank's Sedge         07-03-01           Carex kirisutella Mackenzie         Fuzzy-wuzzy sedge         05-23-01           Carex complanata Torr. & Hook.         Var. hirsuta (Willd.) Gleason         Var. hirsuta (Willd.) Gleason           Carex intimescens Rudge         Greater bladder sedge         05-23-01           Carex intimescens Rudge         Greater bladder sedge         05-23-01           Carex intimescens Rudge         Cypress-swamp sedge         10-10-01           Carex intimescens Rudge         O5-23-01         Carex intimescens Rudge           Carex foniculata L. var. australis Bailey         Long's sedge         05-23-01           Carex kondina Mackenzie         Long's sedge         05-23-01           Carex louisianica Bailey         Louisiana sedge         05-23-01           Carex unida Wahlenb.         Sallow sedge         05-23-01           Carex sonyaria Schkuhr ex Willd. <td>CYPERACEAE</td> <td></td> <td></td> <td></td>	CYPERACEAE			
Carex blanda Dewey Carex bullata Schkuhr ex Willd. Button sedge O5-23-01 Carex crinita Lam. Fringed sedge O5-23-01 Carex debilis Michx. White-edge sedge O5-23-01 Carex fankii Kunth Frank's Sedge O7-03-01 Carex frankii Kunth Frank's Sedge O5-23-01 Carex firsutella Mackenzie Fuzzy-wuzzy sedge O5-23-01 Carex instrutella Mackenzie Carex intimescerns Rudge Greater bladder sedge Carex intimescerns Rudge Carex intimescerns Rudge Carex intimescerns Rudge Carex folliculata L. var. australis Bailey Carex lonchocarpa Willd. Carex lonchocarpa Willd. Carex longii Mackenzie Carex longii Mackenzie Carex longii Mackenzie Carex longii Mackenzie Carex louisianica Bailey Louisiana sedge O5-23-01 Carex scoparia Schkuhr ex Willd. Pointed broom sedge O5-23-01 Carex scoparia Schkuhr ex Willd. Pointed broom sedge O5-23-01 Carex scorsa Howe Weak stellate sedge O5-23-01 Carex vorsa Howe Carex tulpinoidea Michx. Common fox sedge O5-23-01 Cyperus volularis (Michx.) Torr. Veyperus strigosus L. Cyperus volularis (Michx.) Torr.  Cyperus strigosus L. Eleocharis tovata (Roth) Roemer & J.A. Schultes Blunt spike-rush O9-05-01 Fimbristylis antumandis (L.) Roemer & J.A. Schultes Fimbristylis antumandis (L.) Roemer & J.A. Schultes Rhynchospora capitellata (Michx.) Vahl Rhynchospora corniculata (Lam.) Gray Rhynchospora corniculata (Lam.) Gray Rhynchospora glomerata (L.) Wahl Clustered beak sedge O9-05-01 AB 1932 Rhynchospora glomerata (L.) Wahl Clustered beak sedge 10-03-01 AB 1932				
Carex bullalas Schkuhr ex Willd.         Button sedge         05-23-01           Carex crinita Lam.         Fringed sedge         05-23-01           Carex debilis Michx.         White-edge sedge         05-23-01           Carex frankii Kunth         Frank's Sedge         07-03-01           Carex hirsutella Mackenzie         Fuzzy-wuzzy sedge         05-23-01           Ecarex complanata Torr. & Hook.         Var. hirsuta (Willd.) Gleason         Var. hirsuta (Willd.) Gleason           Carex intumescens Rudge         Greater bladder sedge         05-23-01           Carex intumescens Rudge         Oypress-swamp sedge         10-10-01           Carex lonchocarpa Willd.         Southern long sedge         05-23-01           Carex lonchocarpa Willd.         Southern long sedge         05-23-01           Carex longii Mackenzie         Long's sedge         05-23-01           Carex londia Wahlenb.         Sallow sedge         05-23-01           Carex lurida Wahlenb.         Sallow sedge         05-23-01           Carex seorsa Howe         Weak stellate sedge         05-23-01           Carex valpinoidea Michx.         Common fox sedge         05-23-01           Cyperus echinatus (L.) Wood         Globe flat sedge         07-03-01           Cyperus pseudovegetus Steud.         Marsh flat sedge				
Carex crinita Lam.         Fringed sedge         05-23-01           Carex debilis Michx.         White-edge sedge         05-23-01           Carex furbilis Michx.         Frazey-wuzzy sedge         05-23-01           Carex hirsutella Mackenzie         Fuzzy-wuzzy sedge         05-23-01           = Carex complanata Torr. & Hook.         Var. hirsuta (Willd.) Gleason         Var. hirsuta (Willd.) Gleason           Carex complanata Torr. & Hook.         Var. hirsuta (Willd.) Gleason         05-23-01           Carex complanata Torr. & Hook.         Var. hirsuta (Willd.) Gleason         05-23-01           Carex constitution (Garey Sulld.)         Southern long sedge         10-10-01           Carex longit Mackenzie         Long's sedge         05-23-01           Carex longit Mackenzie         Conex long sedge         05-23-01           Carex longit Mackenzie         Malley <td></td> <td></td> <td></td> <td></td>				
Carex debitis Michx.         White-edge sedge         05-23-01           Carex frankit Kunth         Frank's Sedge         07-03-01           Carex hirsutella Mackenzie         Fuzzy-wuzzy sedge         05-23-01           = Carex complanata Torr. & Hook.         ****           var. hirsuta (Willd.) Gleason         ****           Carex intumescens Rudge         Greater bladder sedge         05-23-01           Carex foorii Bailey         Cypress-swamp sedge         10-10-01           Carex soorii Bailey         Southern long sedge         05-23-01           Carex longii Mackenzie         Long's sedge         05-23-01           Carex longii Mackenzie         Long's sedge         05-23-01           Carex longii Mackenzie         Long's sedge         05-23-01           Carex scorsal Bailey         Louisiana sedge         10-10-01           Carex kurida Wahlenb.         Sallow sedge         05-23-01           Carex scoparia Schkuhr ex Willd.         Pointed broom sedge         05-23-01           Carex scoparia Schkuhr ex Willd.         Pointed broom sedge         05-23-01           Carex scoparia Schkuhr ex Willd.         Pointed broom sedge         05-23-01           Carex scoparia Schkuhr ex Willd.         Pointed broom sedge         05-23-01           Carex scoparia Schkuhr e				
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Rhynchospora glomerata (L.) Vahl Clustered beak sedge 10-03-01 AB 1942				AB 1932
<i>Knynchospora mexpansa</i> (Michx.) vani Nodding beak sedge U/-05-01	Rhynchospora inexpansa (Michx.) Vahl	Nodding beak sedge	07-03-01	

GROUP/FAMILY SCIENTIFIC NAME	COMMON NAME	DATE FIRST OBSERVED	COUNTY RECORD COLLECTION NO.
CYPERACEAE (continued) Rhynchospora recognita (Gale) Kral	Coarse globe beak sedge	10-10-01	
= Rhynchospora globularis (Chapman) Small var. recognita Gale	Coarse grove beak sedge	10-10-01	
Scirpus cyperinus (L.) Kunth	Cottongrass bulrush	09-05-01	
Scirpus georgianus Harper	Georgia bulrush	07-03-01	
IRIDACEAE			
Sisyrinchium angustifolium P. Mill.	Narrow-leaf blue-eyed-grass	05-23-01	
JUNCACEAE			
Juneus acuminatus Michx.	Knotty-leaf rush Canadian rush	07-03-01	
Juncus canadensis J. Gay ex Laharpe Juncus dichotomus Ell.	Forked rush	09-05-01 07-03-01	AB 1910
Juncus effusus L.	Lamp rush	07-03-01	AB 1710
Juncus marginatus Rostk.	Grass-leaf rush	07-03-01	
Juncus scirpoides Lam.	Needle-pod rush	10-10-01	
Luzula bulbosa (Wood) Smyth & Smyth	Bulbous wood-rush	04-25-01	
LILIACEAE			
Allium canadense L.	Meadow garlic	07-03-01	
*Allium vineale L.	Crow garlic	04-25-01	
*Narcissus sp.	Narcissus	04-25-01	
Polygonatum biflorum (Walt.) Ell. var. commutatum (J.A. & J.H. Schultes) Morong	King Solomon'-seal	10-10-01	
ORCHIDACEAE			
Cypripedium acaule Ait.	Pink lady's-slipper	04-25-01	
POACEAE			
Agrostis elliottiana J.A. Schultes	Elliott's bent	05-23-01	AB 1902
Agrostis hyemalis (Walt.) B.S.P.	Winter bent	05-23-01	
Agrostis perennans (Walt.) Tuckerman	Upland bent	09-05-01	
*Aira caryophyllea L	Common silver-hair grass	04-25-01	
Andropogon glomeratus (Walt.) B.S.P.	Bushy bluestem Split-beard bluestem	04-25-01 10-03-01	
Andropogon ternarius Michx. Andropogon virginicus L.	Broom-sedge	04-19-01	
*Anthoxanthum odoratum L.	Large sweet vernal grass	04-19-01	
Aristida dichotoma Michx.	Church-mouse three-awn	10-03-01	
Aristida oligantha Michx.	Prairie three-awn	09-05-01	
*Bromus commutatus Schrad.	Meadow brome	07-03-01	
Calamagrostis coarctata (Torr.) Eat.	Nuttall's reed grass	10-03-01	
= Calamagrostis cinnoides W. Bart. nom. super. Chasmanthium laxum (L.) Yates	Slender wood-oats	05-23-01	
Cinna arundinacea L.	Sweet wood-reed	10-03-01	
*Cynodon dactylon (L.) Pers	Bermuda grass	07-03-01	
*Dactylis glomerata L.	Orchard grass	04-25-01	
Danthonia sericea Nutt.	Silky wild oat grass	05-23-01	
Danthonia spicata (L.) Beauv. ex Roemer & J.A. Schultes	Poverty wild oat grass	04-25-01	
Dichanthelium aciculare (Desv. ex Poir.) Gould & C.A. Clark	Needle-leaf rosette grass	05-23-01	
Dichanthelium acuminatum (Sw.) Gould & C.A. Clark	Tapered rosette grass	05-23-01	
Dichanthelium clandestinum (L.) Gould	Deer-tongue rosette grass	05-23-01	
Dichanthelium depauperatum (Muhl.) Gould	Starved rosette grass	05-23-01	
Dichanthelium dichotomum (L.) Gould	Cypress rosette grass	05-23-01	
Dichanthelium laxiflorum (Lam.) Gould	Open-flower rosette grass	05-23-01	
Dichanthelium scoparium (Lam.) Gould	Broom rosette grass	05-23-01 10-03-01	
*Digitaria ischaemum (Schreb.) Schreb. ex Muhl. *Digitaria sanguinalis (L.) Scop.	Smooth crab grass Hairy crab grass	09-05-01	
Echinochloa muricata (Beauv.) Fern.	Rough barnyard grass	09-05-01	
Elymus virginicus L.	Virginia wild rye	09-05-01	
*Eragrostis pilosa (L.) Beauv.	Indian love grass	09-05-01	
Eragrostis spectabilis (Pursh) Steud.	Petticoat-climber	09-05-01	
Glyceria striata (Lam.) A.S. Hitchc.	Fowl manna grass	05-23-01	

GROUP/FAMILY SCIENTIFIC NAME	COMMON NAME	DATE FIRST OBSERVED	COUNTY RECORD COLLECTION NO.
POACEAE (continued)			
Hordeum pusillum Nutt.	Little barley	05-23-01	
Leersia oryzoides (L.) Sw.	Rice cut grass	10-03-01	
Leersia virginica Willd.	White grass	09-05-01	
*Lolium perenne L. ssp. multiflorum (Lam.) Husnot =Lolium multiflorum Lam.	Perennial rye grass	05-23-01	
*Lolium pratense (Huds.) S.J. Darbyshire = Festuca elatior L. p.p. = Festuca pratensis Huds.	Meadow rye grass	05-23-01	
*Microstegium vimineum (Trin.) A. Camus	Nepalese browntop	09-05-01	
Panicum anceps Michx.	Beaked panic grass	09-05-01	
Panicum dichotomiflorum Michx.	Fall panic grass	09-05-01	
Panicum rigidulum var. pubescens (Vasey) Lelong = Panicum longifolium Torr.	Red-top panic grass	09-05-01	
Panicum verrucosum Muhl.	Warty panic grass	09-05-01	
*Paspalum dilatatum Poir.	Golden crown grass	07-03-01	
Paspalum floridanum Michx.	Florida crown grass	09-05-01	AB 1941
Paspalum setaceum Michx.	Slender crown grass	07-03-01	
*Poa annua L.	Annual blue grass	04-25-01	
*Poa compressa L.	Flat-stem blue grass	05-23-01	
Poa pratensis L.	Kentucky blue grass	05-23-01	
Saccharum alopecuroidum (L.) Nutt. = Erianthus alopecuroides (L.) Ell.	Silver plume grass	10-10-01	AB 1939
Saccharum baldwinii Spreng. = Erianthus strictus Ell.	Narrow plume grass	10-03-01	AB 1938
Setaria parviflora (Poir.) Kerguélen = Setaria geniculata auct. non (Wild.) Beauv.	Marsh bristle grass	09-05-01	
Setaria pumila (Poir.) Roemer & J.A. Schultes ssp. pumila = Setaria glauca (L.) Beauv.	Pearl-millet	10-03-01	
[Kartesz (1999) lists this taxon as <i>Pennisetum glauci</i>	um (L,) R. Br.]		
Sorghastrum nutans (L.) Nash	Yellow Indian grass	10-10-01	
Tridens flavus (L.) A.S. Hitchc.	Tall redtop	04-25-01	
*Vulpia myuros (L.) K.C. Gmel.	Rat-tail six-weeks grass	05-23-01	
= Festuca myuros L.	That that one woods grass	00 20 01	
SMILACACEAE			
Smilax glauca Walt.	Sawbrier	04-25-01	
Smilax rotundifolia L.	Horsebrier	04-25-01	

Table 2. Fauna of Virginia Army National Guard OMS No. 1 and No. 2 identified during DCR-DNH inventory, 2001-2002. The list is arranged by major groups: vertebrates followed by invertebrates. Families, genera, and species are arranged alphabetically. Taxa preceded by a county records (Carle, 1982; Opler et al., 1995). Dates are listed as month-day-year. See the Methods section for a key to the abbreviations for method of inventory. Nomenclature and identification sources included the following: American Ornithologists' Union (1998), Conant & Collins (1998), Covell (1984), Crother (2000), Dragonfly Society of the Americas (1996), Dunkle (2000), Glassberg (1999), Jenkins & Burkhead (1994), Kain (1987), Knisley & Schultz (1997), Linzey (1998), Miller (1992), Opler (1998), Page & Burr (1991), Peterson (1980), and Westfall & May (1996). Note that there is no standard list of common names for moths.

GROUP/FAMILY SCIENTIFIC NAME	COMMON NAME	DATE FIRST OBSERVED	METHOD
FISH			
CENTRARCHIDAE			
<sup>c</sup> Acantharchus pomotis (Baird)	Mud Sunfish	06-21-01	MN
<sup>c</sup> Enneacanthus gloriosus (Holbrook)	Bluespotted Sunfish	06-21-01	MN
UMBRIDAE			
<sup>c</sup> Umbra pygmaea (DeKay)	Eastern Mudminnow	06-21-01	MN
AMPHIBIANS			
BUFONIDAE			
<sup>c</sup> Bufo americanus Holbrook	American Toad	08-13-01	HV
<sup>c</sup> Bufo fowleri (Hinckley)	Fowler's Toad	06-18-01	HV
HYLIDAE			
<sup>c</sup> Acris crepitans Baird	Northern Cricket Frog	06-29-01	HV
<sup>c</sup> Hyla chrysoscelis Cope	Cope's Gray Treefrog	07-11-01	DF
Hyla cinerea (Schneider)	Green Treefrog	08-14-01	HV
<sup>c</sup> Pseudacris crucifer (Wied-Neuwied)	Spring Peeper	09-20-01	DF
MICROHYLIDAE			
<sup>c</sup> Gastrophryne carolinensis (Holbrook)	Eastern Narrowmouth Toad	06-19-01	DF
RANIDAE			
Rana clamitans Latreille	Green Frog	04-19-01	HV
Rana palustris LeConte	Pickerel Frog	08-01-01	HV
REPTILES			
CHELYDRIDAE			
Chelydra serpentina (Linnaeus)	Snapping Turtle	06-21-01	MN
COLUBRIDAE			
Elaphe obsoleta (Say)	Rat Snake	07-03-01	HV
Heterodon platirhinos Latreille	Eastern Hognose Snake	08-01-01	HV
EMYDIDAE			
Clemmys guttata (Schneider)	Spotted Turtle	08-14-01	HV
Terrapene carolina (Linnaeus)	Eastern Box Turtle	06-29-01	HV
KINOSTERNIDAE			
Kinosternon subrubrum (Lacepède)	Eastern Mud Turtle	08-14-01	HV
PHRYNOSOMATIDAE			
Sceloporus undulatus (Bosc & Daudin)	Eastern Fence Lizard	08-01-01	HV
SCINCIDAE			
Eumeces inexpectatus Taylor	Southeastern Five-lined Skink	04-15-02	СВ
DIDDC			
BIRDS ACCIPITRIDAE			
Buteo jamaicensis (Gmelin)	Red-tailed Hawk	06-29-01	HV
	100 0000 1400	00 25 01	'
APODIDAE	Chimner Conf.	05 21 01	DD.
Chaetura pelagica (Linnaeus)	Chimney Swift	05-31-01	BD

GROUP/FAMILY SCIENTIFIC NAME	COMMON NAME	DATE FIRST OBSERVED	METHOD
BIRDS (continued) BOMBYCILLIDAE			
Bombycilla cedrorum Vieillot	Cedar Waxwing	04-19-01	HV
CARDINALIDAE	Northern Cardinal	05-31-01	BD
Cardinalis cardinalis (Linnaeus) Passerina cyanea (Linnaeus)	Indigo Bunting	05-31-01	BD
CATHARTIDAE	T 1 V 1	04.10.01	IN.
Cathartes aura (Linnaeus)	Turkey Vulture	04-19-01	HV
COLUMBIDAE Zenaida macroura (Linnaeus)	Mourning Dove	05-31-01	BD
CORVIDAE Cyanocitta cristata (Linnaeus)	Blue Jay	05-31-01	BD
	Diuc say	03-31-01	БD
CUCULIDAE  Coccyzus americanus (Linnaeus)	Yellow-billed Cuckoo	06-29-01	BD
EMBERIZIDAE	Eastern Towhee	05 21 01	DD.
Pipilo erythrophthalmus (Linnaeus) Spizella passerina (Bechstein)	Chipping Sparrow	05-31-01 05-31-01	BD BD
FRINGILLIDAE  Carduelis tristis (Linnaeus)	American Goldfinch	05-31-01	BD
	American Goldmen	03-31-01	BD
ICTERIDAE  Euphagus carolinus (Muller)	Rusty Blackbird	04-15-02	BD
Molothrus ater (Boddaert)	Brown-headed Cowbird	05-31-01	BD
MIMIDAE  Dumetella carolinensis (Linnaeus)	Gray Catbird	08-01-01	BD
Mimus polyglottos (Linnaeus)	Northern Mockingbird	05-31-01	BD
Toxostoma rufum (Linnaeus)	Brown Thrasher	04-19-01	BD
PARIDAE  Poecile carolinensis (Audubon)	Carolina Chickadee	05-31-01	BD
Baeolophus bicolor (Linnaeus)	Tufted Titmouse	05-31-01	BD
PARULIDAE	DI Lata a IDI Wali	10.22.01	
Dendroica caerulescens (Gmelin) Dendroica coronata (Linnaeus)	Black-throated Blue Warbler Yellow-rumped Warbler	10-23-01 04-15-02	HV HV
Dendroica discolor (Vieillot)	Prairie Warbler	04-19-01	HV
Dendroica pinus (Wilson)	Pine Warbler	05-31-01	BD
Geothlypis trichas (Linnaeus) Mniotilta varia (Linnaeus)	Common Yellowthroat	04-19-01 05-31-01	HV
Oporornis formosus (Wilson)	Black-and-white Warbler Kentucky Warbler	09-06-01	BD HV
Protonotaria citrea (Boddaert)	Prothonotary Warbler	09-06-01	HV
Seiurus aurocapillus (Linnaeus)	Ovenbird	05-31-01	BD
Wilsonia citrina (Boddaert)	Hooded Warbler	05-31-01	BD
PICIDAE	N. d. Fill I	05.21.01	n n
Colaptes auratus (Linnaeus) Dryocopus pileatus (Linnaeus)	Northern Flicker Pileated Woodpecker	05-31-01 09-18-01	BD HV
Melanerpes carolinus (Linnaeus)	Red-bellied Woodpecker	05-31-01	BD
Picoides pubescens (Linnaeus)	Downy Woodpecker	08-01-01	HV
Picoides villosus (Linnaeus)	Hairy Woodpecker	09-06-01	HV
REGULIDAE	D 1 177 1	04.10.01	1157
Regulus calendula (Linnaeus) Regulus satrapa Lichtenstein	Ruby-crowned Kinglet Golden-crowned Kinglet	04-19-01 06-29-01	HV HV
педшиз запира Енененяені	Golden-Clowned Kinglet	00-29-01	11 V

GROUP/FAMILY SCIENTIFIC NAME	COMMON NAME	DATE FIRST OBSERVED	METHOD		
BIRDS (continued) SITTIDAE	Willed a Divided	05 21 01	nn.		
Sitta carolinensis Latham	White-breasted Nuthatch	05-31-01	BD		
STURNIDAE Sturnus vulgaris Linnaeus	European Starling	05-31-01	BD		
SYLVIIDAE Polioptila caerulea (Linnaeus)	Blue-gray Gnatcatcher	05-31-01	BD		
THRAUPIDAE Piranga rubra (Linnaeus)	Summer Tanager	05-31-01	BD		
TROGLODYTIDAE Thryothorus ludovicianus (Latham)	Carolina Wren	05-31-01	BD		
TURDIDAE					
Hylocichla mustelina (Gmelin)	Wood Thrush	05-31-01	BD		
Sialia sialis (Linnaeus)	Eastern Bluebird	05-31-01	BD		
Turdus migratorius Linnaeus	American Robin	05-31-01	BD		
TYRANNIDAE					
Contopus virens (Linnaeus)	Eastern Wood-pewee	05-31-01	BD		
Myiarchus crinitus (Linnaeus)	Great Crested Flycatcher	05-31-01 05-31-01	BD		
Sayornis phoebe (Latham) Tyrannus tyrannus (Linnaeus)	Eastern Phoebe Eastern Kingbird	05-31-01	BD BD		
Tyrumus tyrumus (Limaeus)	Eastern Kingond	03-31-01	שם		
VIREONIDAE	D 1 177	05.21.01	DD.		
Vireo olivaceus (Linnaeus)	Red-eyed Vireo	05-31-01	BD		
MAMMALS					
CERVIDAE					
Odocoileus virginianus (Zimmermann)	White-tailed Deer	05-31-01	HV		
MURIDAE					
Peromyscus leucopus (Rafinesque)	White-footed Mouse	06-19-01	SH		
PROCYONIDAE					
Procyon lotor (Linnaeus)	Raccoon	05-31-01	HV		
SCIURIDAE					
Sciurus carolinensis Gmelin	Gray Squirrel	05-31-01	HV		
Tamias striatus (Linnaeus)	Eastern Chipmunk	05-31-01	HV		
VESPERTILIONIDAE					
Lasiurus borealis (Muller)	Red Bat	08-14-01	MT		
COLEOPTERA (BEETLES) CICINDELIDAE					
° Cicindela rufiventris Dejean	A tiger beetle	08-01-01	SW		
<sup>c</sup> Cicindela sexguttata Fabricius	A tiger beetle	04-19-01	SW		
LEPIDOPTERA (BUTTERFLIES, SKIPPERS, and MOTHS) ARCTIIDAE					
<sup>c</sup> Cisseps fulvicollis (Hübner)		05-31-01	UV		
<sup>c</sup> Cisthene plumbea Stretch		08-15-01	UV		
c Clemensia albata Packard		09-07-01	UV		
<sup>c</sup> Crambidia uniformis Dyar		09-20-01	UV		
<sup>c</sup> Grammia parthenice intermedia (Stretch)		09-19-01	UV		
<sup>c</sup> Grammia phyllira (Drury)		09-20-01	UV		
c Haploa clymene (Brown)		07-11-01	UV		
<sup>c</sup> Hypoprepia fucosa Hübner <sup>c</sup> Pyrrharctia Isabella (J. E. Smith)		08-15-01 08-15-01	UV UV		
<sup>c</sup> Spilosoma congrua Walker		05-16-01	UV		
Spitosoma congrata transci		0.5 10 01	Ο,		

GROUP/FAMILY SCIENTIFIC NAME	COMMON NAME	DATE FIRST OBSERVED	METHOD
LEPIDOPTERA (continued)			
DREPANIDAE			
<sup>c</sup> Oreta rosea (Walker)		05-31-01	UV
GEOMETRIDAE			
<sup>c</sup> Anacamptodes vellivolata (Hulst)		05-16-01	UV
<sup>c</sup> Besma quercivoraria (Guenée)		05-16-01	UV
<sup>c</sup> Campaea perlata (Guenée)		05-16-01	UV
<sup>c</sup> Costaconvexa centrostrigaria (Wollaston)		08-15-01	UV
<sup>c</sup> Cyclophora pendulinaria (Guenée)		08-14-01	UV
<sup>c</sup> Euchlaena obtusaria (Hübner)		05-16-01	UV
<sup>c</sup> Eusarca confusaria Hübner		05-31-01	UV
<sup>c</sup> Glena cribrataria (Guenée)		05-16-01	UV
<sup>c</sup> Hypagyrtis esther (Barnes)		08-15-01	UV
<sup>c</sup> Hypagyrtis unipunctata (Haworth)		05-16-01	UV
<sup>c</sup> Hypomecis gnopharia (Guenée)		08-15-01	UV
<sup>c</sup> Lambdina athasaria (Walker) complex		08-14-01	UV
<sup>c</sup> Melanolophia canadaria (Guenée)		09-19-01	UV
<sup>c</sup> Metarranthis hypocharia (Herrich-Schäffer)		06-19-01	UV
<sup>c</sup> Patalene olyzonaria puber (Grote & Robinson)		06-19-01	UV
<sup>c</sup> Plagodis alcoolaria (Guenée)		08-15-01	UV
<sup>c</sup> Prochoerodes transversata (Drury)		09-21-01	UV
<sup>c</sup> Scopula inductata (Guenée)		05-16-01	UV
<sup>c</sup> Scopula limboundata (Haworth)		05-31-01	UV
<sup>c</sup> Semiothisa aemulataria (Walker)		05-16-01	UV
<sup>c</sup> Semiothisa gnophosaria (Guenée)		09-20-01	UV
HESPERIIDAE			
Ancyloxypha numitor (Fabricius)	Least skipperling	09-06-01	SW
<sup>c</sup> Atalopedes campestris (Boisduval)*	Sachem	09-06-01	SW
<sup>c</sup> Euphyes vestris (Boisduval)*	Dun skipper	06-19-01	SW
c Lerema accius (Smith)*	Clouded skipper	09-06-01	SW
<sup>c</sup> Nastra lherminier (Latreille)	Swarthy skipper	06-19-01	SW
Poanes viator zizaniae Shapiro*	Broad wing skipper	09-06-01	SW
<sup>c</sup> Poanes zabulon (Boisduval & Leconte)*	Zabulon skipper	06-19-01	SW
<sup>c</sup> Polites origenes (Fabricius)*	Crossline skipper	09-06-01	SW
<sup>c</sup> Polites themistocles (Latreille)*	Tawny-edged skipper	08-16-01	SW
<sup>c</sup> Pompeius verna (Edwards)	Little glassywing	09-18-01	SW
Pyrgus communis (Grote)* <sup>c</sup> Thorybes bathyllus (Smith)*	Common checkered skipper Southern cloudywing	10-23-01 08-01-01	SW SW
Thoryoes bunying (Sillin)	Southern cloudywing	00-01-01	3 **
LYCAENIDAE	D 11 1 11 1 4 1	05 15 01	CW
Calycopis cecrops (Fabricius) <sup>c</sup> Everes comyntas (Godart)	Red-banded hairstreak Eastern tailed blue	05-15-01 06-29-01	SW SW
, ,			
NOCTUIDAE			
<sup>c</sup> Abagrotis alternata (Grote)		09-21-01	UV
<sup>c</sup> Acronicta inclara Smith complex		05-16-01	UV
c Agrotis ipsilon (Hufnagel)		05-16-01	UV
c Allotria elonympha (Hübner)		08-14-01	UV
<sup>c</sup> Amphipyra pyramidoides Guenée		08-15-01	UV
c Anicla infecta (Ochs.)		09-20-01	UV
c Anorthodes tarda (Guenée)		05-16-01	UV
c Arugisa latiorella (Walker)		09-07-01	UV
<sup>c</sup> Bleptina caradrinalis Guenée <sup>c</sup> Caenurgia chloropha (Hübner)		05-16-01	UV UV
<sup>c</sup> Chytolita morbidalis (Guenee)		08-15-01	UV
<sup>c</sup> Chytonix palliatricula (Guenée)		05-16-01 05-16-01	UV
<sup>c</sup> Cirrhophanus triangulifer Grote		05-16-01 09-07-01	UV
<sup>c</sup> Condica videns (Guenée)		09-07-01	UV
conaica viaens (Guenee) Elaphria festivoides (Guenée)		09-18-01 05-16-01	UV
		08-14-01	UV
		VO-14-VI	UV
<sup>c</sup> Elaphria grata Hübner <sup>c</sup> Feltia herilis (Grote)		09-18-01	UV

GROUP/FAMILY SCIENTIFIC NAME	COMMON NAME	DATE FIRST OBSERVED	METHOD	
I EDVD OPTION ( , , , )				
LEPIDOPTERA (continued)				
NOCTUIDAE (continued) <sup>c</sup> Hypena baltimoralis Guenée		08-15-01	UV	
<sup>c</sup> Hypena manalis Walker		06-19-01	UV	
<sup>c</sup> Hypena scabra (Fabricius)		05-31-01	UV	
° Idia aemula Hübner		08-15-01	UV	
c Idia americalis (Guenée)		08-15-01	UV	
<sup>c</sup> Idia scobialis (Grote)		08-15-01	UV	
<sup>c</sup> Lacinipolia laudabilis (Guenée)		09-18-01	UV	
<sup>c</sup> Lacinipolia renigera (Stephens)		05-16-01	UV	
<sup>c</sup> Lithacodia muscosula (Guenée)		08-15-01	UV	
<sup>c</sup> Meganola phylla (Dyar)		05-16-01	UV	
<sup>c</sup> Meropleon diversicolor diversicolor (Morrison)		09-20-01	UV	
<sup>c</sup> Nedra ramosula (Guenée)		09-19-01	UV	
° Ogdoconta cinereola (Guenée)		09-20-01	UV	
° Orthodes crenulata (Butler)		05-16-01	UV	
<sup>c</sup> Paectes abrostoloides (Guenée)		08-13-01	UV	
<sup>c</sup> Palthis angulalis (Hübner)		08-15-01	UV	
<sup>c</sup> Palthis asopialis (Guenée) <sup>c</sup> Pangrapta decoralis Hübner		08-15-01 06-19-01	UV UV	
c Phalaenostola larentioides Grote		09-07-01	UV	
c Phosphila miselioides (Guenée)		06-19-01	UV	
c Plathypena scabra (Fabricius)		08-15-01	UV	
<sup>c</sup> Polygrammate hebraeicum Hübner		05-16-01	UV	
<sup>c</sup> Pseudaletia unipuncta (Haworth)		08-15-01	UV	
c Redectis vitrea (Grote)		08-15-01	UV	
c Renia sobrialis (Walker)		09-19-01	UV	
<sup>c</sup> Renia sp. near discoloralis Guenée		08-15-01	UV	
<sup>c</sup> Spodoptera ornithogalli (Guenée)		08-14-01	UV	
<sup>c</sup> Sutyna privata teltowa (Smith)		09-19-01	UV	
<sup>c</sup> Tetanolita mynesalis (Walker)		08-15-01	UV	
<sup>c</sup> Thioptera nigrofimbria (Guenée)		08-15-01	UV	
<sup>c</sup> Ulolonche culea (Guenée)		05-16-01	UV	
<sup>c</sup> Xestia dolosa Franclemont		08-15-01	UV	
<sup>c</sup> Zale horrida Hübner		05-16-01	UV	
<sup>c</sup> Zale lunata (Drury)		08-15-01	UV	
NOTODONTIDAE				
<sup>c</sup> Clostera inclusa (Hübner)		08-15-01	UV	
c Heterocampa obliqua Packard		06-19-01	UV	
<sup>c</sup> Heterocampa umbrata Walker <sup>c</sup> Hyperaeschra georgica (Herrich-Schäffer)		06-19-01 05-16-01	UV UV	
<sup>c</sup> Lochmaeus manteo Doubleday		08-15-01	UV	
c Nadata gibbosa (J. E. Smith)		05-16-01	UV	
<sup>c</sup> Oligocentria lignicolor (Walker)		09-07-01	UV	
<sup>c</sup> Peridea angulosa (J. E. Smith)		09-20-01	UV	
<sup>c</sup> Symmerista albifrons (J. E. Smith) complex		08-14-01	UV	
NYMPHALIDAE				
<sup>c</sup> Cercyonis pegala (Fabricius)*	Large wood nymph	06-29-01	SW	
Cyllopsis gemma (Hübner)	Gemmed satyr	09-06-01	SW	
Danaus plexippus (Linnaeus)	Monarch	09-18-01	HV	
<sup>c</sup> Enodia anthedon (Clark)	Northern pearly eye	09-21-01	SW	
<sup>c</sup> Hermeuptychia sosybius (Fabricius)	Carolina satyr	07-11-01	SW	
<sup>c</sup> Junonia coenia Hübner*	Buckeye	07-11-01	SW	
Limenitis arthemis astyanax (Fabricius)	Red spotted purple	07-11-01	HV	
c Megisto cymela (Cramer)*	Little wood satyr	05-31-01	SW	
Nymphalis antiopa (Linnaeus)	Mourning cloak	05-31-01	HV	
<sup>c</sup> Phyciodes tharos (Drury)*	Southern pearly crescentspot	07-11-01	SW	
Polygonia comma (Harris)	Comma	05-31-01	HV	
<sup>c</sup> Satyrodes appalachia (Chermock)	Appalachian brown	06-29-01	SW	
Vanessa atalanta (Linnaeus)* Vanessa cardui (Linnaeus)	Red admiral Painted lady	05-31-01 09-06-01	HV HV	
Vanessa caraui (Linnaeus) Vanessa virginiensis (Drury)*	American painted lady	05-31-01	HV	
vanessa virginiensis (Diury).	American painted lady	03-31-01	11 V	

GROUP/FAMILY SCIENTIFIC NAME	COMMON NAME	DATE FIRST OBSERVED	METHOD
LEPIDOPTERA (continued)			
PAPILIONIDAE			
Papilio glaucus Rothschild & Jordan	Tiger swallowtail	06-19-01	HV
Papilio troilus (Linnaeus)	Spicebush swallowtail	08-13-01	HV
PIERIDAE			
Anthocharis midea (Hübner)	Falcate orangetip	04-19-01	SW
Colias eurytheme Boisduval	Orange sulphur	08-14-01	SW
Phoebis sennae (Linnaeus)	Cloudless giant sulphur	09-06-01	HV
SATURNIIDAE			
<sup>c</sup> Dryocampa rubicunda (Fabricius)		08-15-01	UV
CDUDICIDAE			
SPHINGIDAE <sup>c</sup> Dolba hyloeus (Drury)		08-13-01	UV
<sup>c</sup> Lapara bombycoides Walker		08-15-01	UV
<sup>c</sup> Paonias excaecatus (J. E. Smith)		08-15-01	UV
ODONATA (DRAGONFLIES and DAMSE)	LFLIFS)		
AESHNIDAE	Brutes)		
Anax junius (Drury)	Common green darner	06-18-01	HV
<sup>c</sup> Epiaeschna heros (Fabricius)*	Swamp darner	07-11-01	SW
COENAGRIONIDAE			
Ischnura posita (Hagen)	Fragile forktail	06-29-01	SW
	-		
CORDULIIDAE		04.10.01	CITY
<sup>c</sup> Epitheca cynosura (Say)*	Common baskettail	04-19-01	SW
° Somatochlora linearis (Hagen)*	Mocha emerald	08-16-01	SW
LIBELLULIDAE			
<sup>c</sup> Celithemis elisa (Hagen)*	Calico pennant	05-31-01	SW
<sup>c</sup> Erythemis simplicicollis (Say)	Eastern pondhawk	06-29-01	SW
<sup>c</sup> Libellula cyanea Fabricius	White-spangled skimmer	06-29-01	SW
<sup>c</sup> <i>Libellula flavida</i> Rambur*	Yellow-sided skimmer	06-29-01	SW
<sup>c</sup> Libellula incesta Hagen	Slaty skimmer	07-11-01	SW
Libellula lydia Drury	Common whitetail	06-18-01	SW
Libellula needhami Westfall*	Needham's skimmer	09-06-01	SW
<sup>c</sup> Libellula semifasciata Burmeister	Painted skimmer	06-29-01	SW
<sup>c</sup> Libellula vibrans Fabricius	Great blue skimmer	06-29-01	SW
<sup>c</sup> Pachydiplax longipennis (Burmeister)	Blue dasher	06-29-01	SW
Pantala flavescens (Fabricius)	Wandering glider	09-18-01	SW
<sup>c</sup> Pantala hymenaea (Say)	Spot-winged glider	08-13-01	SW
<sup>c</sup> Sympetrum vicinum (Hagen)*	Yellow-legged meadowfly	10-04-01	SW

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