

DOVES LANDING CULTURAL AND NATURAL RESOURCE ASSESSMENT FEBRUARY 8, 2012

PROJECT SCOPE

The cultural and natural resource inventory project is the first step in developing Doves Landing as a passive recreation natural area. The development and management of the Dove's Landing property is based on the mission of protection of natural and cultural resources. The stewardship mission of the County will be the guiding factor in all decisions regarding the site and all planned and proposed activities. The passive recreation footprint will be limited in scope and focused on the areas of historical use and existing facilities. The County's cultural resource ethic will be a component of the management of Dove's Landing.

The inventory of existing conditions is will help guide the development of a basic master plan for public use as well as the first step towards a full resource management plan. Doves Landing is a unique resource and the County is committed to responsible stewardship of the land.

The County worked with local cultural and natural resources subject matter experts and stakeholders in order to identify the current status of the cultural and natural resources of the subject property. This assessment includes the following components:

SITE INVENTORY/ANALYSIS

1. Land Use/Comprehensive Plan
2. Cultural Resources
3. Forest
4. Flora/fauna
5. Existing Utilities
6. Hydrology
7. Topography
8. Soils/Geology
9. Viewsheds

LAND USE/COMPREHENSIVE PLAN

The land uses and zoning that surround Doves Landing have changed significantly on the past 270 years. The most drastic changes have occurred within the past 50 years. Prior to the late 1950's most of Prince William County was comprised of small farms and undeveloped land. The second half of the twentieth century has seen thousands of new homes and businesses constructed in the County. The Coles District, in which Doves Landing sits, continues to evoke a more rural context within the County. The land use around Doves Landing consists of private residences.

Today Doves Landing and its 234+ acres remain undisturbed from recent development. The County Comprehensive Land Use Plan was recently amended to identify the land that contains Doves Landing as Parks/Open Space. This designation has recently changed from governmental. The County acquired the parcels through the settlement of two court actions regarding the development of the parcels. In 1986, Omni Homes, Inc. (Omni) executed a contract to purchase a 72.68-acre parcel of unimproved land located in Prince William County and, in 1989, bought the parcel for \$436,091. The property was zoned R-10, urban residential development, and Omni proposed to develop the land as Doves Landing subdivision with 106 residential lots. The property was located adjacent to an undeveloped 188-acre parcel owned by Doves Landing Associates (DLA). DLA planned to develop its property as Doves Overlook subdivision with approximately 405 residential lots. Prince William County, objected to adding a three mile extension to the water and sewer service for the Doves Overlook property. On October 6, 1993 the ensuing litigation was settled by a consent decree, in which the County paid DLA \$3.7 million for Doves Overlook under a three-year lease/purchase agreement.

Omni Homes brought suit against the County as the development of Doves Landing was predicated on the development of Doves Overlook. In 1997, at the conclusion of the legal process, the Virginia Supreme Court ruled in favor of Prince William County. The County then acquired the second parcel which comprises Doves Landing.

A Comprehensive Plan Amendment has been initiated to change the land use designation from Public Lands to Parks and Open Space. The Parks, Open Space and Trails Chapter of the Comprehensive Plan includes the goal to protect and preserve environmentally sensitive land, habitat connectivity, and water resources, and areas of archaeological, historical and/or cultural significance; and to provide opportunities for residents, workers and visitors to pursue leisure activities in safe, accessible, and enjoyable parks and community recreational facilities.

The development of Doves Landing as a passive recreational natural area offers a unique opportunity to fulfill the County's goals to provide a countywide system of well-maintained and managed parks. This will allow the County to continue to strike the balance between development and infrastructure needs with the protection and conservation of land and historic sites. Open space and outdoor experiences provide a greater quality of life for our citizens. In addition, open space and corridors help

- protect stream water quality including sources of drinking water
- provide food, water and habitat for wildlife
- minimize environmental damage from development
- conserve natural and cultural resources
- provide outdoor opportunities for the community

**CULTURAL RESOURCES ASSESSMENT OF THE
DOVE'S LANDING PROPERTY**

PRINCE WILLIAM COUNTY, VIRGINIA

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Abstract

The Dove's Landing property consists of 250 acres acquired by Prince William County in 1997. The area will be opened to the public in the spring of 2013 for passive recreation. Infrastructure will include a gravel or paved parking lot, natural surface trails such as dirt or woodchip, and natural and cultural interpretive signs.

The purpose of this assessment is to identify avenues of future research, identify known cultural resources and offer a preliminary assessment of their eligibility for listing on the National Register of Historic Places, and identify areas of high potential for finding cultural resources. The study area consisted of the entire 250 acre property. The investigation was conducted in accordance with the most recent version of the *Virginia Department of Historic Resources (VDHR) Guidelines For Conducting Cultural Resource Survey In Virginia*.

Archival and historic map research identified numerous cultural resources on or potentially on the Dove's Landing property. Reconnaissance pedestrian surveys identified one historic farmstead and one cemetery on the property. Additionally, the property exhibits a high potential for finding prehistoric archaeology sites. Any new infrastructure will likely require archaeological testing and excavation before project approval.

TABLE OF CONTENTS

| | |
|---|----|
| Abstract..... | i |
| Introduction..... | 1 |
| Methods..... | 3 |
| Previous Investigations..... | 4 |
| Physical Setting..... | 5 |
| Cultural Setting..... | 6 |
| Prehistoric Context..... | 6 |
| Paleo-Indian Period (10,000 – 8000 B.C.)..... | 6 |
| Archaic Period (8000 – 1000 B.C.)..... | 7 |
| Woodland Period (1200 B.C. – A.D. 1600)..... | 8 |
| Historic Context..... | 10 |
| Settlement to Society (1607 – 1750)..... | 10 |
| Colony to Nation, Early National, and Antebellum Periods (1750 – 1860)..... | 11 |
| Civil War (1861-1865)..... | 11 |
| Reconstruction and Growth (1865-1914)..... | 12 |
| World War I to Present..... | 12 |
| Site History..... | 12 |
| Field Survey Results..... | 18 |
| Proposed Infrastructure..... | 19 |
| Conclusions and Recommendations..... | 20 |
| Bibliography..... | 21 |

APPENDIX A: QUALIFICATIONS OF INVESTIGATORS

LIST OF FIGURES

- Figure 1: Project Area Location Map
- Figure 2: Section of Surveys for Military Defenses Map of Northeastern Virginia
- Figure 3: Section of Map of Prince William County, Virginia. 1901 by W.M.H. Brown
- Figure 4: Section of 1927 Topographic Map Showing Project Area
- Figure 5: Section of 1937 Aerial Photograph Showing Project Area
- Figure 6: Map Showing Locations of Proposed Trail Alignments

Introduction

Prince William County (County) acquired the bulk of the 250 acre Dove's Landing property in 1997. However, some parcels were acquired prior to 1997. The project site is located on Broad Run near the geographic center of the County. It is bordered on the east by Broad Run and on the south and west by the Occoquan River. On the north and east it is bordered by a mix of private property and Dove's Lane and Wild Acres Way (Figure 1). The County proposes to open Dove's Landing to the public for recreation. This report is the first step in assessing potential impact to cultural resources on the Dove's Landing property. Additional work may be required.

The objectives of the Cultural Resources Assessment included:

- Identification of recorded archaeological properties;
- Characterization and interpretation of identified resources;
- Appraisal of the results and comparison with existing settlement pattern models;
- Identification of exhibited high potential for finding unrecorded cultural resources; and
- Determination of the possible need for additional cultural resource studies.

The research design for the Assessment was based on the region's historic context, as well as past experience in the region in comparable settings. The investigation was conducted in accordance with the most recent version of the *Virginia Department of Historic Resources (VDHR) Guidelines For Conducting Cultural Resource Survey In Virginia*.

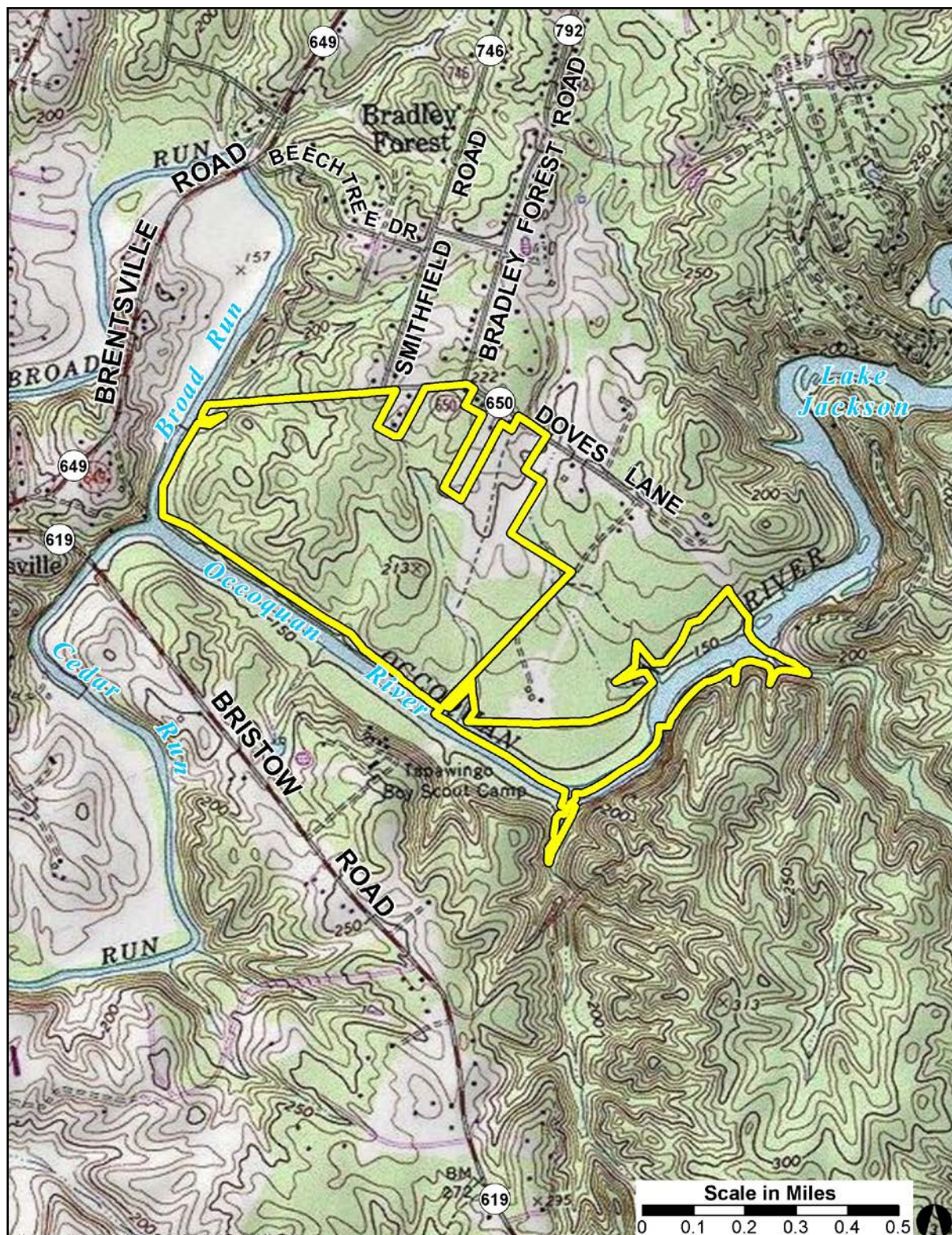


Figure 1. 1966 USGS Independent Hill 7.5 Minute Quadrangle, Photorevised 1984 showing Dove's Landing Property.

Methods

Background Research

Archival research for this investigation was conducted at the office of the County Archaeologist for Prince William County and at the Ruth E. Lloyd Information Center (RELIC) in the Bull Run Regional Library in Prince William, Virginia. Archival research focused on examination of site files and technical reports of previous investigations in the vicinity of the project area and on secondary histories of the area. Historic maps, including those listed in the *The Official Military Atlas of the Civil War* (Davis et. al. 1983), and United States Geologic Survey (USGS) maps were used to locate the existence of any historic properties. The VDHR on-line Data Sharing System was searched for locations of architectural and archaeological sites.

Field Methods

Reconnaissance pedestrian survey of select portions of the project area was performed. A site map depicting locations of above-ground features was prepared. Photographs were taken to document field conditions.

Laboratory Methods

No artifacts were collected, therefore, there was no cataloging effort. Any artifact identification was based on field observations.

Previous Investigations

Site file research was conducted at VDHR to determine if any recorded archaeological or architectural sites are present in the project area or in the vicinity. No archaeology or architectural site was previously recorded on the property. However, three archaeology sites were recorded within a one-mile radius of the project area. These sites were classified as prehistoric camp sites. None of these sites were evaluated for their eligibility for listing on the National Register of Historic Places (NRHP).

Four architectural resources were recorded within a one-mile radius of the project area. These sites include two steel truss bridges (now destroyed), a cemetery, the Sinclair Mill and an historic house. The Sinclair Mill is located on the east side of the Occoquan River across from the Dove's Landing property. The Brentsville National Register Historic District and the County's Brentsville Courthouse Historic Centre are also located within the one-mile radius.

Physical Setting

The project area is located where Broad Run and Cedar Run join to form the Occoquan River, approximately 26 miles upstream from the confluence of the Occoquan River and the Potomac River, in central Prince William County, Virginia. Project area elevations vary from 150 to 210 feet above sea level. It is bounded to the north and east by private land. To the west the boundary is formed by Broad Run and to the south the boundary is the Occoquan River. The project area is in the Broad Run and Occoquan River floodplains. At the time of the survey, the project area was forested with oak, hickory, Virginia Pine, loblolly pine, holy tree, river birch, willow, maple and sycamore. Beneath the forest canopy was poison ivy, greenbrier, grape vine, and creeping vine.

The project area is located on the interface of the Culpeper Basin and the Piedmont Plateau Physiographic Provinces. This area is formed in the residuum of sedimentary rocks of siltstone, sandstone conglomerate, and basic rocks of diabase and basalt. The mapped soil complex for the project area is the Arcola-Panoram-Nestoria. This soil complex is moderately deep, deep, and shallow soils that are well drained and have a loamy subsoil. Specific soil classifications include Arcola Silt Loam, Arcola-Nestoria Complex, Bermudian Silt Loam, Braddock Loam, Brentsville Sandy Loam, Calverton Silt Loam, Manassas Silt Loam, Meadowville, Silt Loam, Panorama Silt Loam (United States Department of Agriculture, Soil Conservation Service 1989).

Cultural Setting

Prince William County uses historic contexts developed by the Virginia Department of Historic Resources. Historic contexts provide a framework for the description and analysis of known or expected cultural resources, and the basis for evaluating the significance of those resources. These contexts are organized by geographic region, time/developmental period, and theme. The project area is located in the Northern Virginia historic context.

Prehistoric Context

Archaeologists have divided prehistoric Native American settlement in Virginia into three general periods. They include the Paleo-Indian period from circa 10,000 to 8,000 B.C., the Archaic period from circa 8,000 to 1,000 B.C., and the Woodland period from circa 1,000 B.C. to A.D. 1,600. The Archaic and Woodland eras can be further subdivided into early, middle and late periods. These periods cover the time from the earliest occupation of the region by humans until contact with people from Europe and Africa in the middle of the sixteenth century. Prehistoric sites of Virginia that date from the Paleo-Indian period (10,000 – 8000 B.C.) are poorly represented. As the climate shifted from a glacial period to a temperate one, prehistoric populations appear to have increased significantly as is evident from the increase in prehistoric sites until the Contact Period. After contact with Europeans and Africans, disease and persistent warfare devastated indigenous populations.

Paleo-Indian Period (10,000 – 8000 B.C.)

During the late Pleistocene geological period (end of the last Ice Age), the first human activity began in the eastern United States. The weather was colder than it is today, and there was much more precipitation, usually in the form of snow. The late Pleistocene was followed by a major environmental shift that was precipitated by glacial melting. This shift resulted in climatic warming and the introduction of different plant and animal species in the area. The Chesapeake Bay was not yet formed at the time of the earliest human occupation, and the Potomac River was nothing more than a narrow stream. Between 13,000 and 9,000 B.C., northern conifers were gradually replaced by cool-temperate hardwood tree species.

This geological period corresponds to the Paleo-Indian period of human occupation. For years, archaeologists adhered to a model of Paleo-Indian subsistence that included hunting Pleistocene megafauna such as mammoth and mastodon. However, recent evidence indicates that megafauna were extinct from the eastern woodlands by the time humans settled there. According to more recent subsistence models, the human populations in the Northeast extensively hunted caribou and, in the Southeast, elk and deer provided early Native Americans with meat and byproducts such as hides, bone, and sinew.

Paleo-Indian sites have been classified and dated on the basis of projectile points because these tools are made of stone and do not disintegrate so they are available for study by modern archaeologists. Additionally, the styles and shapes of these tools are characteristic of a particular time. For years, the earliest known sites in the United States were Clovis sites identified by

distinctive fluted points. Recently, sites have been found below the Clovis strata, indicating earlier occupations. Carbon dates show these sites could be as old as 25,000 B.C., although 15,000 B.C. is considered closer to the limit of human occupation. One of these potential pre-Clovis sites is the Cactus Hill site in southeastern Virginia.

In addition to projectile points, other lithic tools associated with Paleo-Indian sites in Virginia include scrapers, graters, perforators, and hammerstones. These stone tools enabled Native Americans to hunt, process and prepare food, and to work with non-durable media that generally are not preserved in archaeological contexts, such as wood and hide. Crypto-crystalline stone (for example chert) was preferred for cutting tools. Quartz is abundant in northern Virginia and was also commonly used as a raw material for tools. Other lithic sources, such as hornfels and chert are local, but less common.

Paleo-Indian populations were mobile and exploited low relief environments for hunting and foraging. Paleo-Indian sites have been identified in the region, but they are not common in the area. Any Paleo-Indian site found would be considered significant. No Paleo-Indian sites are recorded within the project area.

Archaic Period (8000 – 1000 B.C.)

The Archaic Period is divided into three subperiods: the Early, Middle, and Late Archaic. The subperiods were subdivided to reflect changing lithic technologies and subsistence strategies.

Early Archaic Period (8000 – 6500 B.C.)

During the Early Archaic period, the climatic warming trend that began during the Paleo-Indian period continued, as did the shift from coniferous to deciduous forests. As a result, a broader range of food resources than were accessible during the Paleo-Indian period became available. Kirk and Palmer projectile points have been associated with the transitional period between the Paleo-Indian and the Early Archaic. Bifurcate-based points such as LeCroy, St. Albans and MacCorkle are also found in Virginia sites from this time period. Quartz, especially high quality quartz, was widely used at this time.

Middle Archaic Period (6500 – 3000 B.C.)

The Middle Archaic period is characterized by the production of increasingly specialized bone and lithic tools. Ground stone tools, such as those used in plant processing, appeared for the first time during this period. Additionally, transitory camps expanded into poorly drained areas of the floodplain, interior tributaries and upland locations. Swamp settings were important for resource procurement during this period. Quartz continued to be an abundant raw material used for stone tools. Projectile points include the stemmed Stanley, Guilford, and Morrow Mountain types. Middle Archaic sites are frequently found throughout Virginia, including the Coastal Plain.

Late Archaic/Transitional Period (3000 – 1000 B.C.)

Numerous Late Archaic period and Transitional period archaeological sites have been identified throughout eastern Virginia. Larger sites dating to the Late Archaic appear to reflect a continuation of the settlement pattern that emerged during the Middle Archaic, i.e., a preference for locating along streams in floodplains. Smaller foray sites were common on ridge tops and near freshwater springs. Prehistoric family groups began to join together to form bands as part of an overall adaptive strategy. Seasonal movements that were aimed at collecting a variety of food resources indicate a refinement in subsistence patterns. The transition between the Late Archaic and Early Woodland culture periods occurred due to a shift in settlement patterns in favor of riverine areas. Transitional groups were “highly mobile” and increased the trade network for specialized resources (Kinsey 1972). Witthoff (1953) noted that transitional groups relied heavily on fishing for subsistence, particularly in locales where there were seasonal anadromous fish runs.

Archaeological evidence suggests advances in technology during the Late Archaic/Transitional period, including the introduction of food preparation and storage vessels. Soapstone vessels were a precursor to ceramic vessels that appeared during the Early Woodland Period in the Mid-Atlantic and indicate a trend toward increased sedentism.

In the Coastal Plain and Piedmont areas of Virginia, many sites from this period contain artifacts typical of the Savannah River Complex. Broadspears and soapstone bowls are diagnostic of Susquehanna and Savannah River Complexes, both Late Archaic traditions, in Virginia. Sites with elements of the Savannah River Complex range from small, temporary campsites to larger, seasonal camps that include hearth features and stone platforms.

Preferred lithic materials used for tool production changed during the Transitional period. Quartzite was used in cobble form in order to produce large, sturdy flakes and cutting tools. Broadspears were not only larger than typical projectiles of the earlier Archaic periods, but were manufactured from a larger variety of lithic materials, including quartzite, rhyolite, quartz, and ferruginous sandstone (Reinhart and Hodges 1991). Variants of the Savannah River projectile type have been identified based on variations of blade width and stem type. Koens-Crispin points also date to this time frame and exhibit similarities to the Savannah River type. Perkiomen broadspear points are typical of the Transitional period and are found on the Virginia Coastal Plain and the Piedmont.

No Archaic period sites are recorded within the project area.

Woodland Period (1200 B.C. – A.D. 1600)

The Woodland Period is generally divided into the Early Woodland (1000 B.C. – A.D. 300), Middle Woodland (A.D. 300 – 900), and Late Woodland (A.D. 900 – European Contact at circa A.D. 1600). Periods are based on changes in ceramic types, lithic technologies, subsistence patterns, and social development.

Early Woodland Period (1200 B.C. – 300 A.D.)

During the Early Woodland period, many Coastal Plain sites were located on large streams and floodplains (Barse and Gardner 1982). Researchers suggest that local preference was based on the short-term adjustments to different habitats after the climatic change during the mid-Holocene period (Klein and Klatka 1991:155). This climatic change produced more stable and warmer conditions than during the previous periods of human occupation (Walker 1981:19). Oak-Hickory-Tulip Poplar forests were common. The Potomac River had expanded to its present day channel, and the Chesapeake Bay was fully formed.

One indicator of increased sedentism around 1000 B.C. is the production of fired clay pottery. Archaeological evidence at sites in Virginia shows that Early Woodland groups were making the transition from hunting and gathering to horticulture. In the Mid-Atlantic region, several varieties of cultigens and cultivars have been identified on archaeological sites (Advasio and Johnson 1981). Fish and shellfish became an important part of the diet. Advancements in subsistence strategy and technology are illustrated by new site components such as storage pits and ceramic vessels. The change in pottery technology can be observed in the transition from steatite-tempered pottery (such as Marcey Creek) to ceramics with sand and crushed rock temper. Exterior treatment on ceramics, such as cord or net-impressed exteriors, became markers in time, region and culture. Accokeek ceramics, tempered with sand and crushed quartz, appeared about 750 B.C. They are typical of the Early Woodland period.

Middle Woodland Period (A.D. 300 – 1000)

The distribution of sites in Virginia suggests that the Native American population increased during the Middle Woodland period. There is some evidence for increased reliance on horticulture for subsistence. Several models have been developed for discussing the social organization for Middle Woodland groups. These models focus on the functions of the base camp during this period. Binford describes the base camp as the hub of foray and procurement activities (1964). Blanton indicates a more advanced level of inter-tribal social organization than is suggested by Binford. He introduces the "macro-band-base-camp", which was a camp where groups from adjoining territories congregated (Blanton 1992:72).

Late Woodland Period (A.D. 1000 – 1600)

Late Woodland sites represent a more complete level of sedentism than is associated with earlier periods. In general, the number of occupation features extended and included postholes from longhouses or circular house structures, storage pits, burials, and occasional organic remains of agricultural products.

In the Virginia Piedmont Plateau, site types include foray or workshop sites, quarries, seasonal and temporary base camps, hamlets and villages. Villages were located at spots where fishing was food and soils were suitable for agriculture. Major villages that housed the tribal chiefs, called werowances (Potter 1993), were located on large estuaries of major rivers, such as the Potomac River.

The Potomac Creek site in Stafford County, Virginia, is representative of a Late Woodland agrarian village with a chiefdom-level hierarchy. This village site is situated on a fertile floodplain at Potomac Neck. The burial remains reflected the status of individuals within the village and contained both high status burials (including grave goods) and ossuaries (group burials). The status burials yielded decorative gorgets, shell maskettes and obtuse angled pipes that distinguished the Potomac Creek site from previously identified sites of the same period. The Potomac Creek complex was developed by Schmitt (1952:63) as a model for classifying Late Woodland sites with similar attributes.

In Prince William County, projectile points representative of the Late Woodland period are primarily Levanna, Clarksville, and Madison. They were very often manufactured using local quartz. Common ceramic types identified on Potomac River sites include Potomac Creek sand-tempered ware, Rappahannock shell-tempered decorated wares and Moayone sand-tempered ware. Many Late Woodland ceramic vessels were cord-marked, impressed or incised (Egloff and Potter 1982).

No Woodland period sites are recorded within the project area.

Historic Context

The time periods listed in the following history are those identified by the VDHR as important historic contexts for the state and modified for this project area. The periods include: Settlement to Society (1607-1750); Colony to Nation, Early National Period, Antebellum Period (1750-1860); Civil War (1861-1865); Reconstruction and Growth (1865-1917); World War I to Present (1917- Present).

Settlement to Society (1607 – 1750)

Captain John Smith's exploration of the Potomac River (1608 to 1610) marked the first documented contact between European explorers and Native Americans in Northern Virginia. Captain Smith's journal describes his travels and maps Indian village sites along the estuaries of the Potomac River (Barbour 1986).

The earliest colonial settlements in Prince William County appeared in the 1640s and 1650s along the Potomac River. As a proprietor of jurisdictions in Virginia and a representative of the English government, Robert "King" Carter issued land grants for the area that is now Prince William County, reaching from the Coastal Plain as far west as Manassas (Works Progress Administration 1941:26). The Northern Neck, specifically the land between the Potomac and Rappahannock Rivers, was given to Thomas Lord Culpeper, and was later conveyed to his daughter, the Lady Fairfax, when it became known as the Fairfax Proprietary. Patents for large tracts along the major estuaries of the Potomac River followed.

Prince William County was formed out of Stafford County in 1731. Named for William Augustus, the Duke of Cumberland, second son of King George II, the original boundary of Prince William County included areas that later became Fairfax, Arlington, Alexandria, Loudoun, and Fauquier Counties. In 1749, Dumfries was chartered as the County's first town

and became the county seat on the banks of Quantico Creek. As the population increased, the county's boundaries were reduced until its boundaries were fixed in 1759.

Land development was based on the patent holders' experiences who were typically tobacco planters from established tidewater families. During this period, the tobacco plantations and their owners dominated the economic, judicial, and social life of Prince William County. In the 1730s, John Tayloe I began to acquire land north of Dumfries on which to build an ironworks plantation. The Potomac River and its ports, such as Dumfries and Colchester, served as transportation nodes for goods departing to and arriving from England. Roads brought goods to port and conveyed goods into the interior and among plantations and farmsteads. The King's Highway crossed Neabsco Creek just south of the project area and was one of the first roads for postal service.

Colony to Nation, Early National, and Antebellum Periods (1750 – 1860)

During the late eighteenth century, Prince William County began to shift its focus from tobacco production to grain growing and milling due to increased demand from European markets and fluctuating tobacco prices. The primary grains were wheat, oats, and corn. The production of grain necessitated the construction and use of gristmills and construction of wagons roads to bring goods to port and market. Other industries such as ironworks, timbering, and shipbuilding also developed during this time.

The African-American population in Prince William County during this period was a mix of free and enslaved people of African descent. Plantations with large slave populations were typically located in the eastern portion of Prince William County. The historical records show that a large slave community, possible including free blacks, lived in the vicinity of the project area and worked on the Neabsco Ironworks property (Kamoie 2003; Sanford et al. 1993). Maps prepared in the early nineteenth century show an increasing population and intensifying agricultural use of the land. The improved road system spurred increased settlement in Prince William County.

Civil War (1861-1865)

Prince William County was the site of several major Civil War battles. The first and second battles of Manassas and the battle of Bristoe Station occurred far to the west of the project area. Significant staged battles with thousands of troops and fortifications did not occur in the eastern portion of the County. However, the area around Dumfries did for one brief period play a critical role. Confederate forces blockaded Washington D.C. in 1861. This was accomplished by constructing artillery batteries on the west bank, the Virginia side, of the Potomac River at Cockpint Point, Freestone Point, and at Evansport. However, these batteries were located southeast of the project area. Still, troop camps were located throughout the area, and troops moved throughout the area through 1862, after which the Confederate army withdrew to the south.

Reconstruction and Growth (1865-1914)

The Civil War devastated farms and the transportation infrastructure throughout the area. The economy was in ruins and the social structure had disintegrated during the war and the subsequent reconstruction. The economic depression after the Civil War ended economic prosperity. “Farms and plantations were left untended, marketing ties were severed, and labor became a scarce commodity. The loss of slave labor in the workforce made rebuilding farms, businesses, and railroads costly. Throughout Prince William County, plantation farming was being replaced with tenant farming. As a result, small-scale farming geared to domestic consumption predominated. Both blacks and whites tended these farms (Sanford et al 1993:45). At the end of the nineteenth century, many farmers supplemented farm income with wage labor, either in lumbering or mining (Parker 1986:118 in Sanford et al 1993:45).” In the 1870s, Virginia remained one of the leading tobacco-producing states; however, the state steadily turned to corn production and dairy farming during the 1880s and 1890s (Walker 1872; Census of Manufacturers 1914). The size of agricultural establishments in Virginia steadily increased over this period while the numbers of such establishments decreased.

World War I to Present

The major impact of World War I on Prince William County was the increase of prices for farm commodities. Farmers formed a large segment of the workforce and were the basis of the local economy. The development of military installations along the Potomac River and the construction of housing for military families led to an increase in the population of rural Prince William County.

After World War II, land development in Prince William County increased, and the construction of suburban homes proceeded rapidly. New schools and churches were erected to accommodate the post-war population boom. In the late 1960s and early 1970s, the federal government expanded and large corporate offices were built in Prince William County. The addition and expansion of roadways facilitated the movement of people in and out of the county. During the last decade, commercial and residential development has been extensive throughout Prince William County due in large part to the area’s role as a bedroom community for Washington D.C. This growth trend continues to the present.

Site History

Lands in the vicinity of Dove’s Landing were likely vacant or sparsely occupied by colonists through the first half of the 1600s. Not until the 1730s does the historical record suggest land use and occupation in the vicinity of the project area.

By the nineteenth century onwards, maps of the region reveal land ownership and indicate the presence of at least two possible farmsteads in the project area. These maps also suggest potential sites of archaeological interest as well as a woodlot and two river crossing fords. Further investigation of these sites may yield information regarding how the project area was utilized and how the landscape evolved.

Prepared in 1862 at the division headquarters of General Irvin McDowell, the “McDowell Map” shows one possible farmstead belonging to Goodwin. Both tax lists and land deeds demonstrate that in August of 1847, William E. Goodwin acquired a 120 acre tract situated on the Broad and Occoquan Runs, which adjoined the lands of a Mr. John Molair and included the road leading from Brentsville to both runs. Listed as Ivy Mill in subsequent tax rolls, he resided there with his wife, Anne, for a number of years. In July 1869, this tract was deeded to F. C. Rorabaugh, who is named on the 1901 William Brown Map of the area. For a sum of three thousand dollars, Rorabaugh then sold the tract in 1914 to Charles L. Dove. The Dove family owned a majority of the 250 acres under investigation prior to selling many of their individual tracts to the Commonwealth of Virginia from 1930 through the 1970s (Figures 2-5).

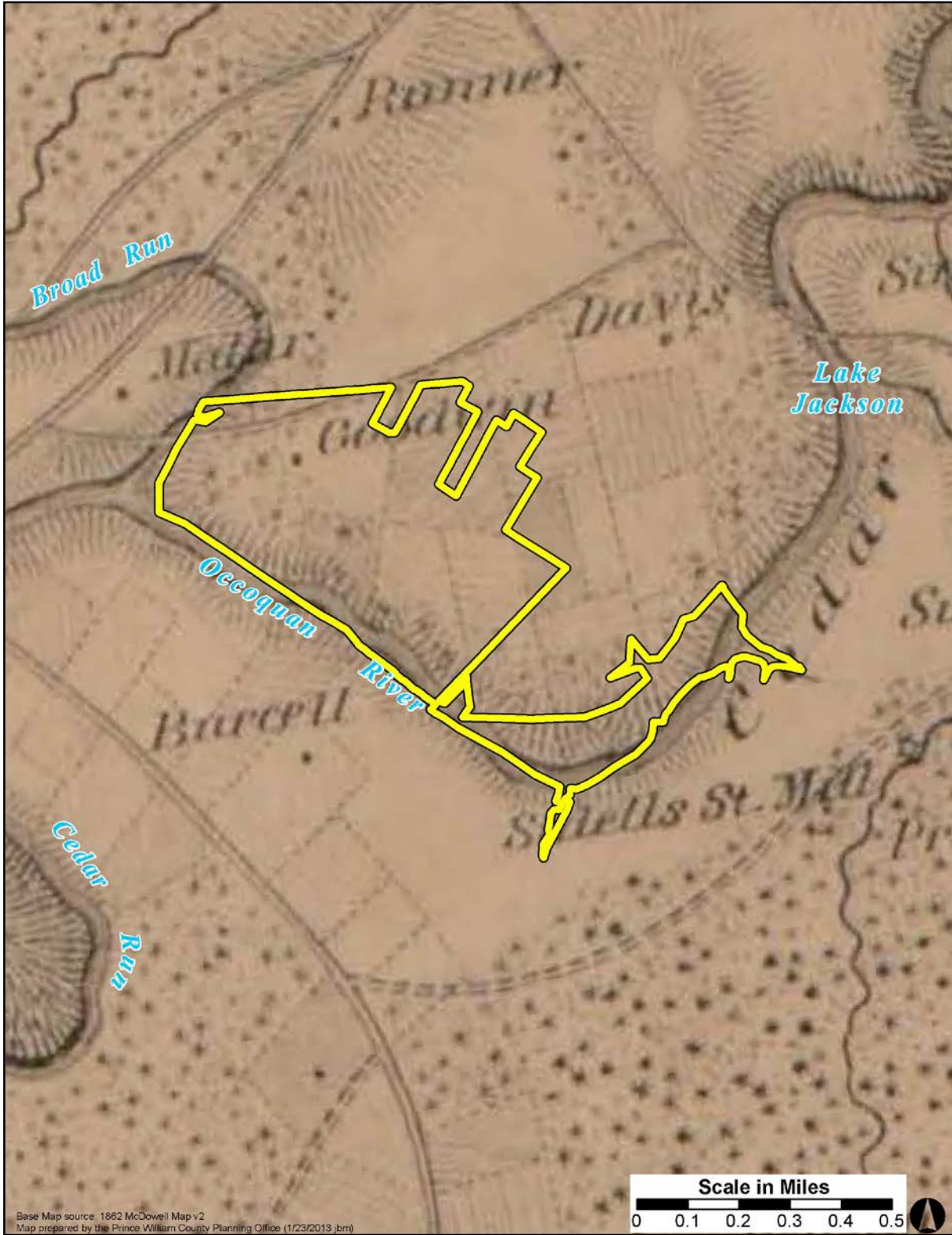


Figure 2. 1862 map showing the approximate location of Dove's Landing Property. Young, J.J., and W. Hesselbach Surveys for Military Defenses Map of Northeastern Virginia and Vicinity of Washington.

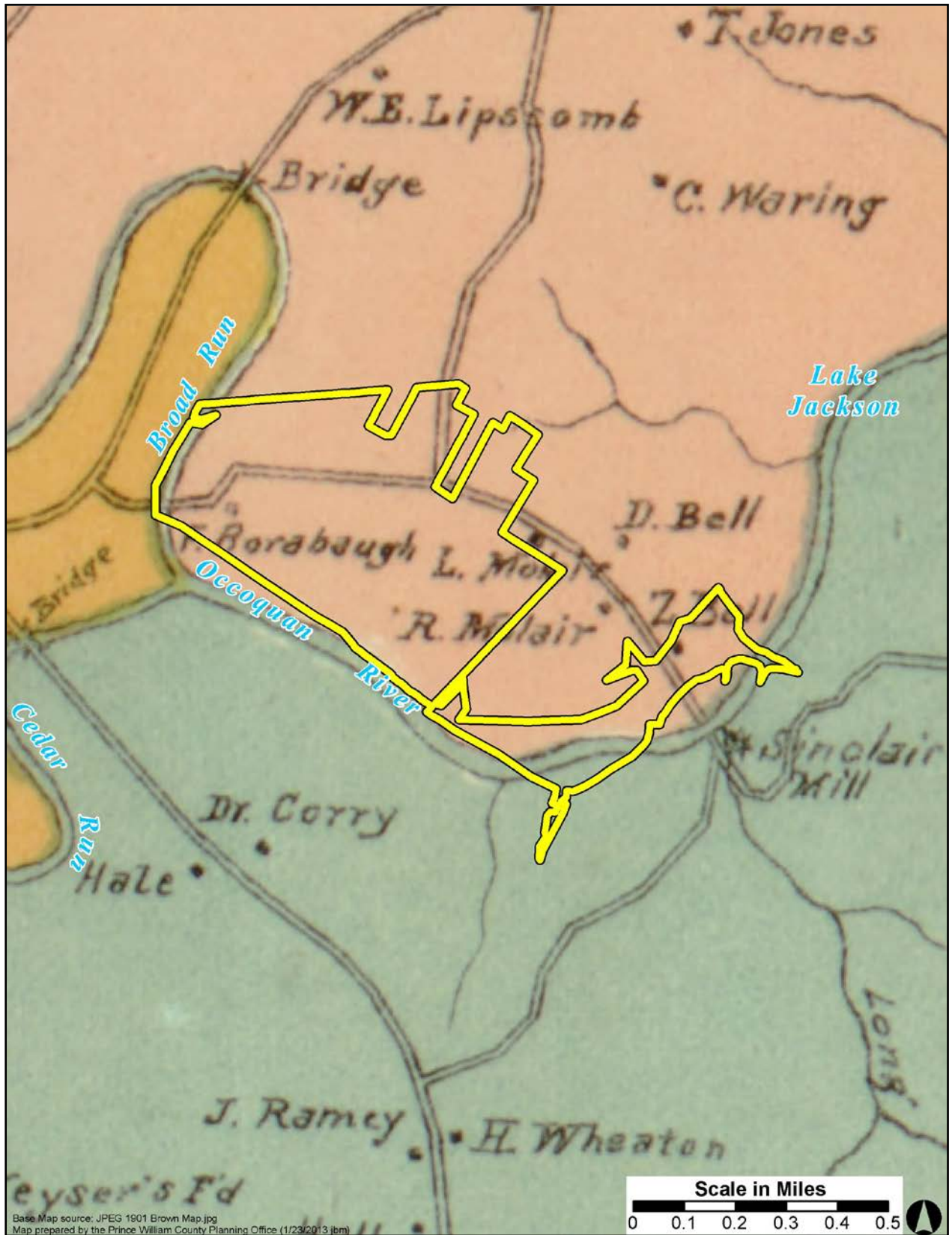


Figure 3. 1901 W.M.H. Brown Map of Prince William County showing the approximate location of Dove's Landing Property.

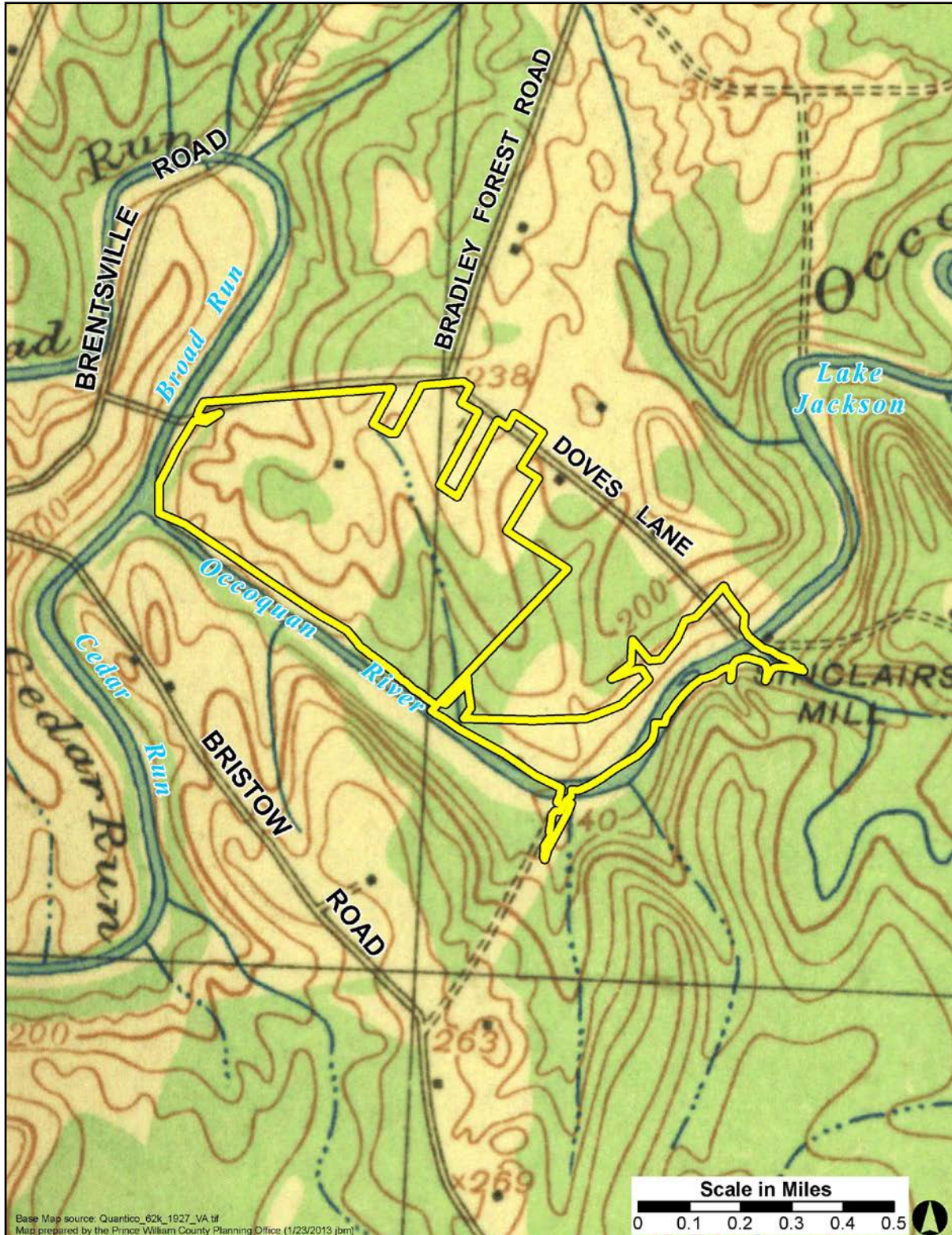


Figure 4. 1927 map showing the approximate location of Dove's Landing Property, Quantico, VA 15 Minute Topographic Quadrangle. 1925 with road revisions in 1927.

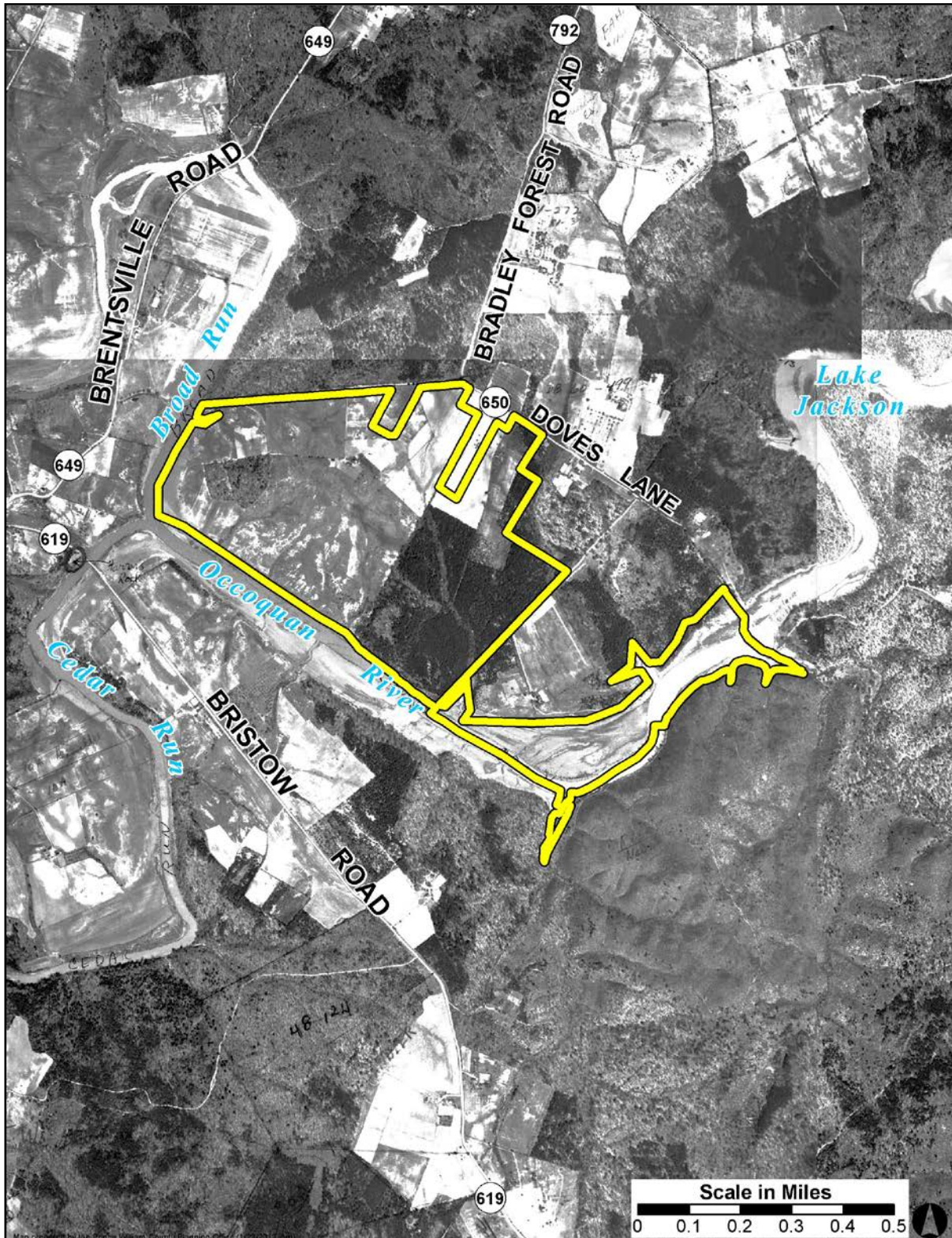


Figure 5. 1937 Aerial Photograph of Prince William County. Showing Dove's Landing Property from the Soil Conservation Service, U.S. Department of Agriculture.

Field Survey Results

A pedestrian reconnaissance survey identified at least two domestic foundations, an open well, a trench of unknown function, and possible outbuildings. The farm can be seen on 1937 aerial photographs and deed research indicates it dates from the mid-twentieth century back to the 1800s. The complex covers approximately eight acres. Historic map research suggests this may be the location of the Godwin farmstead which appears on an historic map from 1862 (Figure 2). Additional archaeology and archival research will be necessary if infrastructure is proposed in the vicinity of this archaeology site.

A cemetery was also identified on the project area. It measures approximately 70 by 30 feet. Five marked burials and one possible unmarked burial were observed. There is a high potential for additional unmarked burials. Of the five marked burials the earliest date of death was 1872 and the latest was 1919. Four of the five marked burials are from the Molair family and the fifth burial is from the Hockman family. The burials are oriented east to west suggesting a Christian burial. Additional archaeology and archival research will be necessary to define the limits of burials if infrastructure is proposed in the vicinity of this cemetery.

Proposed Infrastructure

Preliminary plans propose construction of pedestrian and equestrian trails and a parking lot. The trails are planned to be natural surface of compacted dirt or wood chips. The proposed trail alignments are shown on the map below and follow existing foot paths and all-terrain-vehicle trails.

The location of the parking lot is not known at this time. Its surface will likely be gravel or asphalt. Depending on its size and amount of impervious surface, stormwater control infrastructure may be required.

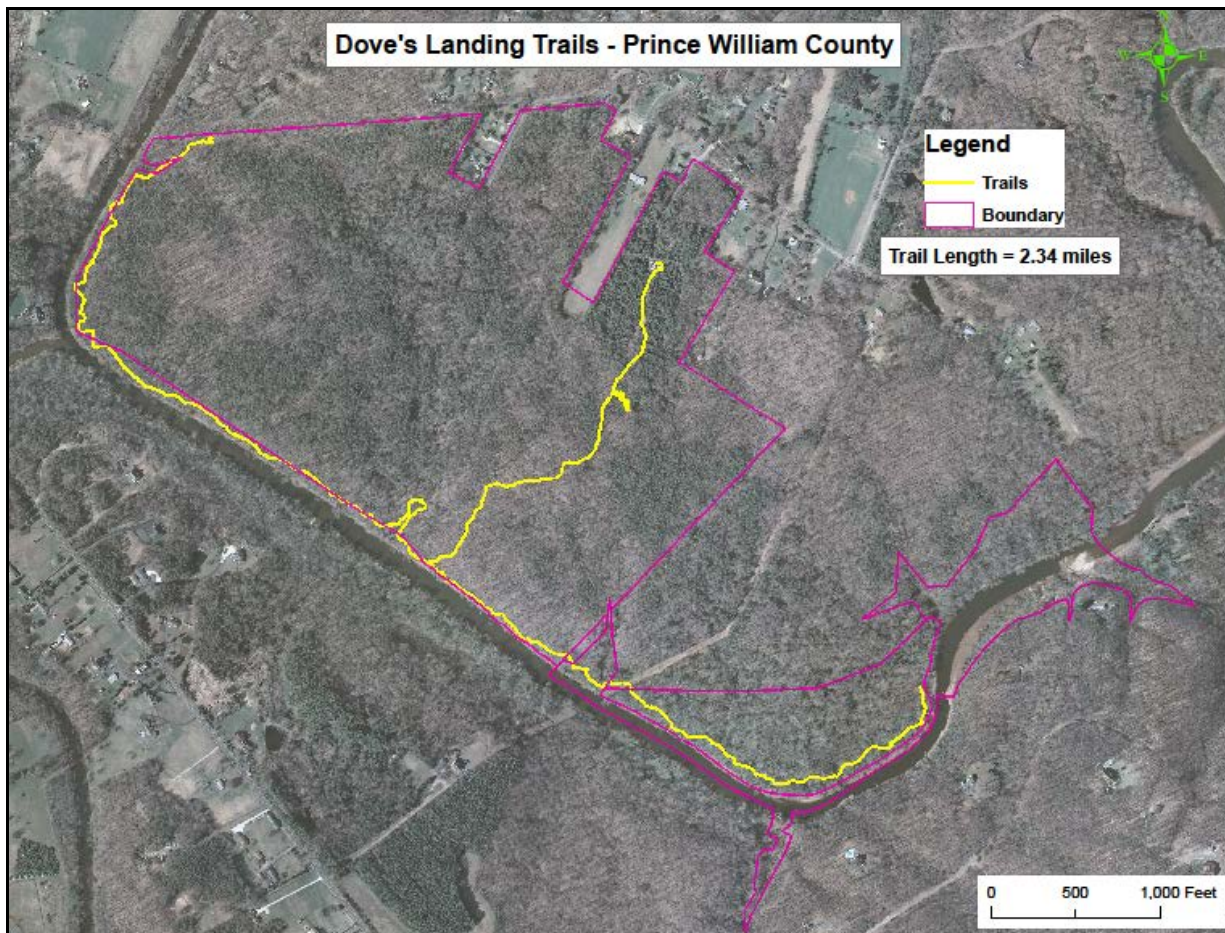


Figure 6. Proposed Trail Alignments on the Dove's Landing Property (image supplied by Prince William County Park Authority).

Conclusions and Recommendations

In conclusion, historical maps and aerial photographs show a number of historic cultural resources either located in or potentially in the project area. These historic resources include two farmsteads and possibly a third, one ford across Broad Run and one ford across the Occoquan River, fence lines, farm roads, and wood lots. Pedestrian reconnaissance survey found one historic farm complex including two cut stone foundations and a well and a cemetery.

There is the potential for finding significant prehistoric sites. The property's topography and location on Broad Run and the Occoquan River, with substantial flood plain and bluffs overlooking the rivers, are conducive to prehistoric land occupation and land use.

Having outlined the cultural and historical significance of the 250 acres at Dove's Landing, the Prince William County Historic Preservation Division, in conjunction with the Prince William County Office of Planning, proposes the following recommendations:

- Public activity and site planning for Dove's Landing should be limited to non-motorized passive recreation. Historic Preservation and Passive Recreation are mutually supporting activities. Support for passive recreation infrastructure may require additional cultural resource studies. The setting of Dove's Landing is inherently unique due to the blending of both cultural and natural resources on-site.
- The archaeology site and the cemetery should be recorded with the state.
- For the safety of visitors and the protection of cultural and historic resources on-site, protective fencing should be installed to preserve significant features on the property and ensure public safety.
- The trail network currently existing inside the 250 acres of Dove's Landing property should continue to be maintained and utilized for the purposes of passive recreation (i.e. hiking, bird watching).
- Motor vehicles and bikes should not be permitted on the trail system.
- Following selection of an area suitable for vehicle and visitor parking, a Phase I archaeological and cultural resources survey should be undertaken by the County, with no further development on-site taking place until the Phase I survey is completed.
- Continued phased archaeological surveys should be performed on site, and pursued through grant programs offered at the state and federal level. Development of public archaeology programs would also allow for additional educational and interactive recreation at Dove's Landing.

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Appendix A

Justin s. Patton, MAA, RPA, is the Prince William County Archaeologist. He has 24 years of experience in cultural resources management and archaeological research in the Mid-Atlantic, South, and Southwest regions of the United States, as well as international work in the Republic of Georgia. His professional credentials meet *The Secretary of the Interior's Standards for Archaeology* (36CFR Part 61). Mr. Patton is located in the Planning Office and liaises with the County's Architectural Review Board, Historical Commission, current and long range planners as well as land developers and their attorneys.

Mr. Patton has experience in field supervision, field direction, report writing, research design development, technical and cost proposal development, laboratory analysis, and public outreach and education programs. He received his Master's Degree in Applied Anthropology from the University of Maryland in 2001 and his Bachelor's Degree in Anthropology from Longwood College in 1988.

Robert E. Krause, Ph.D., is the Prince William County Preservationist. He has 10 years of experience as curator and historian at archives, historic sites and houses, and museums across the United States. His research expertise focused on the Great Depression and New Deal eras in the South and Southwest, and he has two published book manuscripts on Environmental and Public history. Dr. Krause has worked in historic sites and museums in Alabama, Florida, Mississippi, Oklahoma, and Virginia. Dr. Krause's professional credentials meet *The Secretary of the Interior's Standards for Historian* (36CFR Part 62). Dr. Krause is located in the Historic Preservation Division Office and serves as a liaison with the County's Planning Office, the Prince William County Historical Commission, as well as with citizens and other County agencies.

Dr. Krause has experience in artifact and exhibit curation, collections management, cultural resource management, as well as Historic Preservation planning and surveys including National Register nominations and Section 106 review process. He received his Bachelor's Degree in United States History and Southern Studies from the University of Mississippi in 2004, his Master's Degree in United States History from Oklahoma State University in 2007, and his Doctorate of Philosophy Degree in United States History from the University of Mississippi in 2010.

Doves Landing Initial Forest Inventory Summary
Rachel Habig
February 7, 2013

This document outlines the results of an initial forest inventory at Doves Landing. An initial stand delineation map and summaries of each stand's forest structure are provided as an overview of the forest resource, spread out over 227.9 acres.

Stand Delineation

The first step was stand delineation, done using ArcMAP 10. The word stand is defined as “a group of forest trees of sufficiently uniform species composition, age, and condition to be considered a homogeneous unit for management purposes” (source: <http://www.dnr.state.md.us/forests/gloss.html>). This method is somewhat subjective, and many different criteria can be used to designate stands. Very homogeneous groupings of trees can be denoted, but this often leads to a high number of stands for a given geographic area. Conversely, forests can be very loosely grouped together, resulting in fewer stands with much more heterogeneity. A balance is needed between variety of trees within a stand and number of stands. The more variety there is in one stand of trees results in more sample points in order to gain a representative idea of the actual composition of the forest in question. The end goal of stand delineation is simply to break down an area into segments, in order to facilitate management and understanding. The criteria used to delineate stands are determined by the potential use of the land, and the management goals of the landowner.

This inventory sought to find a balance by grouping obviously different canopy types (evergreen versus deciduous) while maintaining a minimum stand size of 5 or more acres where possible. Leaf off aerial imagery was used to highlight differences in the forest canopy. Other factors including topography and knowledge of the property were used in stand delineation as well. A total of 17 stands were created in the delineation process, but field inventory revealed that two of them could be combined. The resulting map of 16 stands is included at the end of this document.

Initial Forest Inventory

Following stand delineation 47 10th acre (21.6 foot radius) plots were measured, over the entire property. The number of plots per stand varied according to stand size and anticipated heterogeneity of forest cover. For example, stand 1 is a 10.6 acre young stand of pine and cedar, and did not show much difference across the area. In contrast, stand 6 is a 39.3 acre stand ranging from the high, hilly northern edge of the property almost down to the Occoquan River. Much more variation in tree species would be expected over a larger area, and especially over an area with varied topography. None the less, the aerial imagery showed the entire stand to be a mix of pine and hardwoods, so difference potentially justifying making this into more stands could only be supported by the results of the initial inventory.

Any tree found within the plot that was over 1 inch in diameter at breast height (DBH). This means that overstory, mid-canopy, and understory trees were all cataloged, as long as they met the DBH requirement. Efforts have been made to describe all levels of the forest canopy in each stand, where evidence indicates. Due to the time of inventory (i.e., winter-leaf off conditions), some trees are listed only to the genus level. This is to avoid any misidentifications, and can be corrected during the growing season.

Stand One:

Stand one is located near the cell tower, in an upland position on the site. It encompasses 10.6 acres. Some large rusting farm equipment was found in the northern part of this stand, not far off the road to the cell tower. Also in this stand, a pile of old carpet and carpet padding was found.

This is a stand of relatively young cedar and pine trees, with a few oaks, maples, and dogwoods present as well. Cedars were by far the most common species found in stand one, representing 59.7% of the trees in the stand. Virginia pines were second, with 29.0%. It is interesting that the cedars were more numerous but smaller overall, with an average diameter of 3.8 inches (range 1-9.8 inches). In contrast, Virginia pines had an average diameter of 7.1 inches, with a range of 1.9-10.4 inches. There was one large red oak in the stand, with a diameter of 22.7. This is an early succession stand, so the large red oak is probably a left over from an earlier land use, such as a pasture.

Stand Three:

Stand three is a small stand, comprising 2.1 acres, and is located on an upland position behind the houses on Shawnee Lane.

Stand three is a stand in transition, with a relatively low stocking in the overstory and several species present in the mid canopy and understory. The dominant tree species in this stand is Virginia Pine, representing 30.6% of all trees sampled in the stand. The average DBH was 10.8 inches, with a range from 5.9-21.2 inches. The remaining trees sampled include yellow poplar, making up 18% of trees. The average DBH of yellow poplar was 4.7 inches, with a range from 1.8-14.1 inches. There were a couple of larger yellow poplars, but most of them were still small, found mostly in the mid-canopy. Dogwoods made up 16.3% of the trees measured, but one should remember that this is an understory species. Oaks and beech trees each made up 12.2% of trees measured, but all of them were still small trees waiting for an opening in the overstory.

Stand Four:

Stand four is a 6.1 acre block whose northern most corner touches Shawnee Lane. It is an upland site, but is somewhat wet for long periods of time.

A total of 10 tree species were recorded in this stand. The dominant tree species in stand four is also Virginia pine, representing 36.6% of trees measured. The average DBH of Virginia pine was 10.7 inches, with a range from 6.2-17.1 inches. Beech trees made up 28% of the stand, but were all rather small, with an average DBH of 2.7 inches, and a range from 1-5.5 inches. Oaks were also present at 11.8% abundance, and were also

small trees with an average diameter of 2.2 and a range from 1-3.1 inches. Dogwoods again made up a relatively large portion of the stand, with a relative abundance of 9.6%. Their DBH average was 2.8 inches with a range of 1.3. The remaining 14% of trees measured were birch, cedar, holly or yellow poplar. One interesting thing is that while there were only 2 yellow poplar trees measured, they were both rather large (10.6 and 14.9 inches DBH), and could provide a large seed source for any opening that appears due to Virginia pine dieback. This stand is still in an early successional stage, and over time the varied species currently in the understory should come to represent the composition of the mature stand.

Stand Six:

Stand six is the largest stand in Doves Landing, covering 39.3 acres. It runs from the upland areas near Doves Lane downhill almost to the Occoquan river. This is the most likely stand to be further subdivided based on the results of this initial inventory. Out of six sample plots, beeches were the only tree species found throughout the stand. Virginia pine was found in 5 of 6 plots, and one plot was located in an area with significant pine blow down.

Thirteen species of trees were measured in stand six. The most common tree species was American beech, but this tree was only found in the understory or mid canopy. It comprised 46% of trees measured, but its average DBH was only 2.3, with a range of DBHs from 1.0-5.5 inches. Therefore, the most common overstory species is still Virginia pine, with a relative abundance of 17.2%. The average DBH was 9.7 inches, with a range from 6-14.9 inches. Dogwoods were present in the understory 9.2% of the time. Yellow poplars made up 6.7% of the sample, with an average DBH of 7.7 inches and a range of 1.7-21.6 inches. They were usually found as small trees (DBH less than 4.5 inches) but also had a few large individuals. The remaining tree species found were black gums, oaks, maples holly, and ironwood. Together they made up 20.9% of trees measured, and were by and large small trees. One exception is the presence of a couple of large oak trees, including one red oak with a DBH of 31.3 inches.

Stand Eight:

Stand eight is a 9.2 acre tract in the eastern part of Doves Landing, on an upland site.

Nine species of trees were recorded in stand eight. Virginia pine was the most abundant tree, comprising 35% of the trees measured. The average DBH of Virginia pines was 8.8 inches, with a range of 4.7-19.5 inches. All of the oak species together also comprised 35%, with most individuals in the 2 inch DBH class. The smallest oak tree measured had a DBH of 1.3 inches, while the largest was 9.5 inches. Beeches also made up 26.7% of trees measured, with an average DBH of 2 inches and a range from 1-4.8 inches. The remaining 3.3% of trees were either black gum or maple trees. One thing that might account for such a uniformly small DBH stand of trees is the presence of many downed Virginia pines. Since Virginia pines are an early succession species, they die off and leave room for longer lived species to grow in. It is likely that this stand was sampled at a time when all of the pines were fairly recently removed (read: lying on the ground rather than occupying the main canopy), and the understory is beginning to recover.

Stand Nine:

Stand nine is a 23.8 tract located in the bottom land adjacent to the Occoquan River. Due to its location in a bottomland setting, one could expect to find very different species compositions that elsewhere at Doves Landing. It is also positioned at a bend in the river, meaning that it is likely to be flooded frequently, causing frequent mortality in some seedlings. Due to this stand's location on the property, it is not surprising to find a much lower stocking level than other stands. The average of trees per plot for this stand was only 5.8, compared with the highest stand (Stand Three) with 31 trees per plot, on average. This is an especially concerning statistic considering that during the inventory a potential new infestation of Emerald Ash Borer was discovered.

Only six tree species were recorded in stand nine. Of those, box elder (or ash leaved maple) was the main tree species, with 43.5% of all trees measured. Green ash, ironwood, and river birch each made up 13%. Black locust and an unknown tree species made up the remaining 17.5 % of the trees measured. All of these trees had relatively high DBHs compared with many other stands, due likely to the fact that they are big enough to survive flooding events during which smaller trees are likely to be washed away or die from anaerobic conditions. All average tree DBHs (by species) were between 10.3 and 15 inches. Of note, green ash DBH averaged 13.2 inches. This is a significant component of the sparse overstory in this stand, and will be a significant loss.

Stand Ten:

Stand ten is a bottomland stand comprised of 9.0 acres. It is also located along the Occoquan River, but does not lie within the flood plain as much as Stand nine. Also, it does not lie on a bend in the river, so it would not be affected by high water speeds during flooding events as much as stand nine. This explains the very different tree compositions found in stand ten as compared to stand nine.

Beech was the most common tree sampled in stand ten, with 28.2%. Maples (mostly silver maple) together made up 30.1%. Ironwood made up 23.1% of the population, followed by box elder, holly, sycamore and yellow poplar. In terms of size, sycamore was the largest, (represented by only one individual in the stand) with a DBH of 42.0 inches. One maple individual (20.3 inches DBH) and all three yellow poplars (16, 16.3, and 41.6 inches DBH) were also large relative to the other trees onsite. While beech trees were the most common tree found in stand ten, they were also comparatively small, with an average DBH of 3.4 inches.

Stand Eleven:

Stand eleven is likely the most mature stand in all of Doves Landing-it is the only one shown as forested in 1937 aerial photos. It is 10.5 acres in size, and is located in an upland position onsite.

The forest composition is that of a mature oak forest. Stocking levels are low, with only 6.5 trees measured per plot, on average. In contrast to stand nine, which also saw very

low stocking levels, this stand is made up of large mature trees who simply take up a lot of space. Beech was the most numerous tree found in stand eleven, but was usually very small and relegated to the understory. The rest of the plots held large oak trees, or other small understory trees like mountain laurel and red maple. The most notable oaks were a 64.6 multi-stem red oak, and a 25.2 inch white oak. Further sampling will yield more information about other overstory species and enable this stand to be classified under the Natural Communities of Virginia classification system.

Stand Twelve:

Stand twelve is a 28.0 acre area that reaches down to the Occoquan River, east of the main trail from the cell tower.

Fifty percent of the trees measured were beech, made up mostly of individuals smaller than 4.0 inches DBH, with a few individuals measuring between 9.8-10.5 inches DBH. White oaks were the second most common tree species, representing 22.9% of trees measured. In contrast to the beech trees, white oaks were most often over 4 inches in diameter, with an average DBH of 10.9 inches. One individual measured 26.5 inches DBH. Black gum, birch, dogwood, holly, red oaks, Virginia pine and yellow poplar were also found in low quantities.

Stand Thirteen:

Stand Thirteen comprises 21.0 acres, and lies in the eastern portion of Doves Landing, down the trail from the cell tower, just past stand one.

A total of eleven tree species were found in stand thirteen. Cedar was the most common tree species, making up 30.9% of trees sampled. Their average DBH was only 3.7 inches. Maples made up an additional 18.2%. Their average DBH was higher, at 6.2 inches, but this is a little misleading. Any single maple with a large DBH was actually a multi-stemmed tree, which can appear to have a large diameter but acts more like a group of little trees. Also, multi-stemmed trees are not as healthy and are prone to splitting. While these species are more numerous, several large oaks and yellow poplars were found in the overstory. This stand is beginning to show signs of becoming a mature forest.

Stand Seventeen:

Stand seventeen is a 10.8 acre stand lying next to the most mature stand (stand eleven), closer to the Occoquan River and Broad Run.

The most common tree species in stand seventeen is beech (37.7% of all trees measured), but again it is present as small trees in the understory and mid canopy. The average diameter of beech trees in this stand is 2.3 inches DBH, with a range of 1.1-5.9 inches. Virginia pine is the second most common species, with 18.8% relative abundance. Also this species has a much higher average DBH at 9.9 inches. Ironwood was also common in the understory, making up 17.0% of trees measured. Yellow poplar was not as common with only 7.5%, but was present as larger individuals (average DBH: 7.2 inches, range 3.4-15.8 inches). The main canopy was represented by Virginia pine with few

yellow poplars. Dogwood, box elder, hickory, cedar and red maples were also present in the understory and mid canopy.

Stand Twenty One:

This is a small stand of 2.15 acres, and lies along Dove's Lane next to the drive that leads to the cell tower. It is likely the site of a future parking lot for visitors of Doves Landing. There was a small-medium woodland pool in this stand, which should be taken into consideration during parking lot planning. Also, while the inventory cannot pick up every large tree, this stand possesses a few overly large mature trees that would be beneficial to protect during any construction.

Seven tree species were measured in stand twenty one. The most common species is an as yet undetermined species. It represented 43.8% of the species measured, and had an average DBH of 7.1 inches. It was mostly found in the mid canopy. White oak, Virginia pine, cedar, and black gum were also found in small quantities. One black gum was measured, with a DBH of 22.9 inches. Beech were actually the second most common tree species, but as usual were small and lingered in the understory.

Stand Twenty Three:

This stand totals 7.2 acres, and runs from Shawnee Drive to the cleared private land bisecting the property along Doves Lane.

Ten tree species comprise this stand, with small beech trees being the most numerous one found. The average DBH of beech trees in stand twenty three is 2.7 inches, with a range of 1.0-8.7 inches. As usually, these trees will be found mostly in the understory. 20.9% of trees found here are maples. Black gum and Virginia pine were each found to make up 11.6% of trees measured, followed by yellow poplar at 9.3%. holly, ironwood, and pignut hickory were also found in low quantities. Of note, one of the maple trees measured 34.7 inches at DBH. The overstory of this stand is made up of Virginia pine, maple and yellow poplar. Black gum might also be found in the main canopy.

Stand Twenty Four:

Stand twenty four is an 8.3 acre area along Dove's Lane and Shawnee Drive. Lots of trash was noticed in this site, including an old car.

25.7% of the trees measured in this stand are Virginia pine. The average DBH was 13.1, with a range of 9.0-17.5. Beech were the second most common tree species, with 22.9%. The average DBH of beech trees is 2.9 inches, with a range of 1.4-5.5 inches. This stand continues to show lots of beech in the understory, similar to the rest of the site. There are undoubtedly mature beech trees present at Doves Landing, but none of them happen to appear in initial inventory plots. Yellow poplar was found to make up 11.4% of sampled trees, with an average DBH of 14.3 inches, ranging from 13.0 to 17.8 inches. Black gum, oaks, dogwood, hickories, and maples were also found in low numbers in stand twenty four.

Stand Twenty Five:

Stand twenty five is a 26.1 acre stand extending from the western end of Dove's Lane into the interior of the property. It contains the old farm archeological site. It might need to be divided into more stands, especially around the farm site. The presumed old fields do not seem to be regenerating into a forest in the areas closest to the house remains, instead they are largely made up of various briars and thorny vines with few trees interspersed. Numerous dead trees also occur in the area. Also, this is the only site at Doves landing that was found to have sugarberry trees.

Fourteen tree species were include in sampling of stand twenty five. Of these, beech was again the most numerous, and again it was found as small trees in the understory and mid canopy. The relative abundance of beech was 28.2%, with an average DBH of 2.9 inches, ranging from 1.0-6.7 inches. Virginia pine was recorded 12.8% of the time, and had an average DBh of 11.1 inches, ranging from 6.5-18.4 inches. Yellow poplar was present with a relative abundance of 11.5%, and an average DBH of 8.8 inches, ranging from 1.7-19.6 inches. Overall, Virginia pine and yellow poplar made up the overstory as far as this survey can tell, but a more extensive inventory will likely find other species occupying the main canopy as well. The inventory plot south of the home site contained few species that were found nowhere else in the stand. Observations noted that similar species were found north of the home site as well, and may constitute redrawing the stand map. Also, this area might be a target for restoration, as the forest does not seem to be regenerating itself here. Black gum, oaks, cedar, dogwood, elm, holly, box elder, and maples were also found in stand twenty five.

Stand Twenty Six:

This stand lies in the bottomland areas along both Broad Run and the Occoquan River, and comprises 17.8 acres. It might need to be split into two stands, depending on the outcome of any issues with the Lake Jackson Citizen's group regarding management of this site. Part of this stand, especially along Broad Run near the northern end of the property is made up of many more species than the lower parts, especially along the Occoquan. The lower portion of stand twenty six is mostly made up of box elder, with a few other bottomland species. The site is similar to stand nine in hydrology, due to its location along a bend in the river/run.

The inventory of stand twenty six found nine tree species, again being led by small beech trees (44% of sample). The average DBH of these trees is 2.8 inches, ranging from 1.0-5.9 inches. Technically box elder was the second most abundance species, with 16% of the sample, but all of those trees were found in one plot, and was the only species recorded on that plot. This also shows the very low stocking levels of the portion of stand twenty six found along the curve in the river/run. Ironwood made up 12.0% of the inventory in this stand, birch cedar hickory oaks, and a relatively large yellow poplar (11.5inches DBH) were also recorded.

Summary

The overriding theme of this document is that beeches occur almost ubiquitously as small trees in the understory. One can infer from this that at some point in the future the mature forest will contain significant amounts of beech. Other areas will have healthy oak populations, and may come to look like stand eleven, the most mature stand at Doves Landing. A couple of areas of concern exist, including the less than stellar reforestation occurring around the old farm house archeological site, and the low stocking levels along the river-especially in light of a probable emerald ash borer infestation. Several sites exist with trash, including an old car, farm equipment, and a largeish pile of old carpet and carpet padding. Overall the forest cover of Doves Landing is in the early to mid stages of reforestation following an extended period of farming and shows signs that it is a functioning forest ecosystem.

Doves Landing – Prince William County Preliminary Vegetation Classification

Submitted to: Brendon Hanafin
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Date: December 11, 2012

Introduction

Members of the Prince William Wildflower Society and Piedmont Chapters of the Virginia Native Plant Society visited Doves Landing during 2012. Primary observations were during November and December 2012, so a significant percentage of plants were dormant and were not observed or identified. Primary identification was of woody plant species (trees and shrubs) which allowed for preliminary classification and characterization of forested vegetation communities.

Observations were made of soil conditions, vegetation community composition, slope and position in the landscape across most of the site. Data was collected on species and relative abundance of tree and shrub species in seven (7) plots representing three vegetative community types, and observations were made on one additional vegetative cover type which cannot be classified under Virginia or National vegetation classification systems:

- 1) Early succession mixed Virginia pine-eastern red cedar hardwood forest – This is not a true vegetative community but rather a highly disturbed vegetative cover dominated by Virginia pine and eastern red cedar with some deciduous trees on highly disturbed soils. This covers much of the site.
- 2) Acidic Oak-Hickory Forest (Virginia) also Piedmont Dry-Mesic Acidic Oak-Hickory Forest (National) – This was likely the dominant upland forest community over most of what is now Doves Landing prior to significant land disturbance. One very good quality and several good quality examples remain.
- 3) Mesic Mixed Hardwood Forest
- 4) Piedmont Bottomland Forest

Notes on Geology and Soils

All of the rock observed at the old house site as well as several rock outcrops were composed on Triassic Basin sandstone, an acidic sedimentary rock found in the piedmont

of Virginia and Maryland. This is the same stone seen in foundations and building around Manassas, Ben Lomond Manor House, the Stone House at Manassas National Battlefield Park and the Smithsonian Castle building on the National Mall. The presence of Triassic Basin sandstone as the dominant underlying rock fixes Doves Landing as a Virginia Piedmont landscape with relatively shallow, acidic soils. The presence and regular occurrence of characteristic Triassic Basin species such as black walnut (*Juglans nigra*), hackberry (*Celtis occidentalis*) and coralberry (*Symphoricarpos orbiculatus*) bolsters this observation.

Occoquan River Floodplain

I believe that the floodplain along the Occoquan River is elevated by many feet of sediment deposition since the construction of the Lake Jackson Dam. In November and December 2012 the lake level remained down and the Occoquan River water elevation was about ten (10) feet below the elevation where there is a combination of a bench and bank indicating the typical elevation of the stream when the lake is at full pool. The channel is extremely steep from the bench down to the channel bottom – approximately a 1 to 1 or 45 degree slope. The exposed channel and the sediments along the bank are composed of fine silts. The floodplain forest is disturbed and of low quality. It is possible that there is 10 feet or more of sediment accumulated at the edge of the channel getting shallower as the further away from the channel you get until the floodplain ends. Older trees are visible near the outer edges of the floodplain where the pre-Lake Jackson elevations are still visible.

I walked at least 60 percent of the floodplains of Broad Run and the Occoquan River within the Doves Landing Property. West of where the powerline easement crosses the property (just before the big bend in the river to the northeast on the east end of the property) the floodplain varies in width from about 50 to 150 feet. In this area I observed very little topographic change in the form of levees, chutes or toe-of-slope wetlands. In free-flowing streams the floodplain elevation is often highest at or near the bank where flood waters quickly drop the heaviest and largest quantity of sediments. Further from the bank there are often secondary flow channels ranges from a few inches to several feet deep which carry floodwater. Between these secondary flow channels and chutes the elevation varies. Finally, floodplains typically have wetlands that form at the toe-of-slope to the uplands and/or within the secondary flow channels. The Broad Run and Occoquan River floodplain generally lacked these features, which reinforced the impression that this is not a free-flowing system but one highly modified by the pool of Lake Jackson so that floodwaters flow evenly with little erosive force and distribute sediment evenly across the floodplain.

One of the consequences of this condition is the apparent lack of vernal pools which would provide breeding habitat for invertebrates and vertebrates such as mole salamanders, frogs and toads. One wetland was observed in the eastern end of the floodplain near the previously mentions powerline easement. However, this wetland was within an intermittent stream channel dominated by black willow and may not provide standing pools for breeding habitat.

| Plot # | Latitude | Longitude | Vegetative Community Type |
|--------|------------|-------------|-----------------------------|
| 1 | N38 41.285 | W-77 28.688 | Acidic Oak-Hickory Forest |
| 2 | N38 41.319 | W-77 28.739 | Mesic Mixed Hardwood Forest |
| 3 | N38 41.357 | W-77 29.181 | Piedmont Bottomland Forest |
| 4 | N38 41.266 | W-77 29.241 | Acidic Oak-Hickory Forest |
| 5 | N38 40.930 | W-77 28.598 | Piedmont Bottomland Forest |
| 6 | N38 41.029 | W-77 28.728 | Mesic Mixed Hardwood Forest |
| 7 | N38 41.076 | W-77 28.774 | Acidic Oak-Hickory Forest |

Plot 1

Community Type: Acidic Oak Hickory Forest
Condition: Fair
Deer Browse Level: Moderate
Invasives Species Cover: 5 to 10% of plot

This plot is in the north central portion of the park. The overall vegetation condition is fair. It would be good if the deer browse and non-native invasive species cover were lower. This stand is heavily oak dominant, is likely 40 to 60 years old and shows moderate soil disturbance resulting in relatively low invasives cover and moderate species diversity. It is likely that this site was cut over in the mid to late 20th century and either went through succession from old field and pine-cedar forest or was deciduous forest prior to cut over (given the moderate diversity of this stand while the stand immediately to the north and east was heavily disturbed and has very low species diversity.).

Plot 2

Community Type: Mesic Mixed Hardwood Forest
Condition: Fair
Deer Browse Level: Heavy
Invasives Species Cover: 10 to 20% of plot

This plot was located on a side slope less than 100 feet from an intermittent stream that drains the north-central portion of the site. The forest stand is less than 60 years old evidenced by the remaining Virginia pine co-dominant with tulip tree. Larger tulip trees (20 to 40 inch diameter breast height) near and adjacent to the stream indicate that the 20th century land use practices disturbed uplands and side slopes but generally retained trees along stream courses. American beech is dominant in the understory demonstrating the stress on the system by heavy deer browse which is limiting regeneration to beech

which is a non-preferred species by deer. The relatively good diversity in the herbaceous layer indicates that despite clearing, this site underwent moderate soil disturbance in the 20th century.

Plot 3

Community Type: Piedmont Floodplain Forest
Condition: Poor
Deer Browse Level: Heavy
Invasives Species Cover: 10 to 20% of plot

This plot was located in the floodplain of the Occoquan River just downstream of the confluence of Cedar Run and Broad Run. Ash-leaved maple completely dominates the overstory with river birch and tulip tree also well represented but not co-dominant. The shrub layer and understory are in poor condition. There is little to no recruitment or regeneration. Survey work needs to be done in the spring and summer to compile data on herbaceous species especially grasses, sedges, rushes and forbs. The forest appears to be less than 60 years old and may be growing on sediments that accumulated after construction of the Lake Jackson dam (see notes on this elsewhere in this write-up)

Plot 4

Community Type: Acidic Oak Hickory Forest
Condition: Fair
Deer Browse Level: Severe
Invasives Species Cover: 0 to 1% of plot

This plot is in the oldest, most mature forest stand on the site. This forest shows up as a woodlot on the older maps of the site. The largest age class of trees are oaks in the 30 to 32" diameter breast height range and tulip trees up to 40" diameter breast height. The forest is very oak dominant with northern red oak, white oak and black oak forming the majority. Tulip tree and scattered hickories have been present in the stand since it began growing approximately 150 years ago. This age is evidenced by the size and branching patterns of the largest trees which are uniform both in diameter and branching pattern. Branching in these oldest trees is between halfway to two-thirds of the way up, indicating that the trees were in a fairly crowded condition when young but were released from some competition when they reached about 30 to 40 feet in height. At this point they grew in a fairly spreading branch pattern until they encountered each other. This would indicate that either the area was deciduous forest that was cut over all at once with intermittent smaller trees left standing which outgrew newer seedlings and saplings, or the area succeeded in pine forest that was evenly colonized by oak, tulip tree and hickory. It is more likely that the stand was deciduous forest that was cut over sometime around the Civil War and then was left to grow almost undisturbed from then on.

The southern portion of the stand was cut over about 80 years ago but the soil was not disturbed and the stumps left in place, resulting in a very uniform resprouting from the

stumps in that portion of the forest, with the southern most trees growing out over a field that was present 80 years ago close to the floodplain for the Occoquan River.

This stand has some of the worst deer browse in the park. The mast producing trees likely attract deer in the fall where they eat the seeds and seedlings. Regeneration consists almost solely of widely dispersed American beech – and not even many of them. This condition is very problematic. The remaining forest is legacy forest – meaning that it has no future beyond the existing tree stand due to the almost complete lack of regeneration due primarily to deer browse.

This site would benefit from protection from land disturbing activities combined with a significant reduction of the deer herd followed by a forest burn to stimulate regeneration.

Another interesting note within this forest stand is the presence of a few large eastern hemlocks. This species is found along the Bull Run-Occoquan River basin further east, but the presence in the oldest forest stand of this otherwise heavily disturbed landscape may indicate that eastern hemlock had a larger presence in forests in this region prior to massive land conversion for agriculture.

Plot 5

| | |
|--------------------------|----------------------------|
| Community Type: | Piedmont Floodplain Forest |
| Condition: | Poor |
| Deer Browse Level: | Heavy |
| Invasives Species Cover: | 20 to 50% of plot |

This plot is located toward the eastern end of the park in the Occoquan River floodplain. This site appears to be located on sediments deposited after the construction of the Lake Jackson dam as discussed elsewhere in this report.

Also note that the condition of the forest on the opposite bank of the river is in much better overall condition with what appears to be a hardwood dominant forest with lower overall soil disturbance but even-aged trees with little to no recruitment indicating lower 20th century soil disturbance but selective tree removal and recent severe browse by white-tailed deer. It should be noted that the southern (right) bank of the Occoquan River at this location is on the outside of a bend. Outside banks tend to be higher, and it is very possible that far less sediment deposition has occurred on that side. As where the northern (left) bank of the river in the park where this plot was assessed is on the inside of the bend which would have been lower and you would expect to see more sediment deposition there.

Another aspect of this forest is that although ash-leaved maple is still dominant, there were more tulip tree, some sycamore, both slippery and American elm and black walnut in the overstory. The presence of tulip tree in both floodplain plots and especially the presence of black walnut in plot 5 are indicators of a levee forest condition where the floodplain is elevated high enough above the groundwater table that species that are not

wet-tolerant can thrive.

Plot 6

Community Type: Mesic Mixed Hardwood Forest
Condition: Fair
Deer Browse Level: Severe
Invasives Species Cover: 1 to 5% of plot

This plot located in the southeastern portion of the property had low diversity with remnant Virginia pines and tulip tree with the largest tree being about 18 inches in breast height diameter. American beech was subordinate in the overstory, but completely dominated the understory with 60 young trees counted within the plot. The understory also included American holly, oaks and tulip trees. The stand had low invasive plant species cover but severe deer browse. Ground cover was sparse and included Christmas fern, running pine (clubmoss), partridgeberry and crane fly orchid. Judging by the size and mixture of pines and tulip trees, the stand is approximately 40 years of age and despite the low species diversity does not show signs of heavy soil disturbance in the late 20th century.

Plot 7

Community Type: Acidic Oak Hickory Forest
Condition: Fair
Deer Browse Level: Severe
Invasives Species Cover: 0 to 1% of plot

This plot is located in the south central portion of the property. It was dominated by red and white oaks with the largest age class measuring about 15" in diameter breast height and with a lower number of tulip trees up to 18" in diameter breast height. There are a few remnant pine trees. The presence of pine combined with the size of the oaks indicates that the stand is likely about 60 years old. The soil appears to be in fairly good condition with little evidence of heavy disturbance in the 20th century with no visible invasive species. Groundcover was very limited to common greenbriar and Christmas fern.

General Management Recommendations

- Prevent additional human land disturbance to upland hardwood forest stands with low invasive species cover especially in the Acidic Oak-Hickory Forest stands in the large woodlot (plot 4) and the younger stands (plots 1 and 7 and the central portions of the park). Past human land disturbance continues to impact the site through low- quality vegetative communities and poor soils which limit recovery. Continued land disturbance from ATV activity and erosive stream flows should be reduced and prevented in higher quality vegetative areas. Trails should be located so as to avoid higher quality vegetative areas and be constructed

- sustainably along rather than up and down slopes.
- The fair condition rating of the Acidic Oak-Hickory Forest stands is due mostly to the almost complete lack of regeneration and understory because of over-browsing by white-tailed deer. A deer herd reduction program should be instituted with the ultimate goal of lower deer numbers to within the ecological carrying capacity for eastern forests – approximately 15 deer for every 640 acres.
 - In conjunction with controlling human land disturbance and deer, assess the feasibility of controlling non-native invasive plant species where control may result in recovery of native plant species. It should be noted that control of invasive plant species on highly disturbed soils and in the presence of heavy to severe deer browse can be difficult.
 - Continued surveys should be conducted to improve plant occurrence and vegetative community characterization and distribution, vertebrate species occurrence and distribution, and to begin making site restoration recommendations. Herpetological surveys are feasible and would assist in locating potential breeding pool locations so that surrounding critical habitat zones can be protected (ideally at least 750 feet from the edge of active vernal pools).

This assessment is only preliminary and should be followed by continued and targeted data collection to improve knowledge and accuracy of observations and to better guide management decisions.

FLORA/FAUNA

Flora and fauna refer to plant and wildlife, respectively. The term is often used to refer to the indigenous plant and wildlife of a geographical region. Both are collective terms, referring to groups of plant or wildlife specific to a region or a time period. The Doves landing parcel is located in the piedmont region of Virginia with plant and animal population indicative to the Piedmont. As 95% of the land is forested, the plant and animal life reflects the existing condition. The significant riparian and wetlands areas also determine the existing communities.

The existing plant list for Doves Landing has been developed by volunteers and is heavily skewed towards spring plants. Additional surveys will be undertaken to more fully identify seasonal plant species. There are significant populations of non-native species. These species complete for survival with native species and should be eradicated as time and resources allow. **Appendix BLANK** lists species that have been surveyed.

The indigenous fauna are comprised of animal species commonly found in the Piedmont and in Prince William County. There is a potential for endangered species on the property. According to The U.S. Fish and Wildlife Service two such species could occupy the project area. The Dwarf wedgemussel (*Alasmidonta heterodon*) is listed by the USFWS as endangered as is the harperella (*Ptilimnium nodosum*). Ground reconnaissance has not identified either species but development should avoid areas where they could be found.

The complete list of potential fauna is listed in **Appendix BLANK**. The forest survey indicates that there is a fair to significant amount of plant damage related to the overpopulation of White tail Deer in the project area. This damage is not unique to this parcel and a county wide approach to the issue should be developed.

| Scientific Name | Common Name | Plot 1 | Plot 2 | Plot 3 | Plot 4 | Plot 5 | Plot 6 | Plot 7 |
|---|----------------------------------|--------|--------|--------|--------|--------|--------|--------|
| <i>Acer negundo</i> L. var. <i>negundo</i> | ash-leaf maple, box elder | | | | | | | |
| <i>Acer rubrum</i> L. var. <i>rubrum</i> | red maple | X | | | | | | |
| <i>Ailanthus altissima</i> (P. Miller) Swingle ** | tree of heaven | | | | | | | |
| <i>Albizia julibrissin</i> Durazz. ** | mimosa or silktree | | | | | | | |
| <i>Allium vineale</i> L. ** | wild garlic | | | | | | | |
| <i>Alnus serrulata</i> (Ait.) Willd. | smooth alder | | | | | | | |
| <i>Amelanchier arborea</i> (Michx. f.) Fernald | common serviceberry | | X | | | | | |
| <i>Aronia melanocarpa</i> (Michx.) Elliott | black chokeberry | | | | | | | |
| <i>Asimina triloba</i> (L.) Dunal | pawpaw | | | | | | | |
| <i>Asplenium platyneuron</i> (L.) B.S.P. | ebony spleenwort | | | | | | | |
| <i>Athyrium filix-femina</i> (L.) Roth ex Mert. var. <i>asplenioides</i> (Michx.) Farw. | common ladyfern | | | | | | | |
| <i>Berberis thunbergii</i> DC ** | Japanese barberry | | | | | | | |
| <i>Betula nigra</i> L. | river birch | | | | | | | |
| <i>Boehmeria cylindrica</i> (L.) Sw. | smallspike false nettle | | | | | | | |
| <i>Botrychium</i> sp. | grapefern | | | | | | | |
| <i>Campsis radicans</i> (L.) Seem. ex Bureau | trumpet creeper, trumpet vine | | | | | | | |
| <i>Carex flaccosperma</i> Dewey | green-gray sedge | | | | | | | |
| <i>Carex pensylvanica</i> Lam. | Pennsylvania sedge | | | | | | | |
| <i>Carex</i> sp. | sedge | | | | | | | |
| <i>Carpinus caroliniana</i> Walt. | American hornbeam, ironwood | | X | X | X | X | X | |
| <i>Carya alba</i> (L.) Nutt. ex Ell. | mockernut hickory | | | | | | | |
| <i>Carya cordiformis</i> (Wangenh.) K. Koch | bitternut hickory | | | | | | | |
| <i>Carya glabra</i> (P. Miller) Sweet | pignut hickory | X | | | | | | |
| <i>Carya ovata</i> | shagbark hickory | | | | | | | |
| <i>Celastrus orbiculatus</i> Thunb. ** | oriental bittersweet | | | | | | | |
| <i>Celtis occidentalis</i> L. | common hackberry | | | | | | | |
| | striped prince's pine or striped | | | | | | | |
| | wintergreen | | | | | | | |
| <i>Chimaphila maculata</i> (L.) Pursh | sweet woodreed | | | | | | | |
| <i>Cinna arundinacea</i> L. | flowering dogwood | X | X | | | | | |
| <i>Cornus florida</i> L. | American hazelnut | | | | | | | |
| <i>Corylus americana</i> Walt. | | | | | | | | |
| <i>Danthonia spicata</i> (L.) Beauv. ex Roemer & J.A. Schultes | poverty oatgrass | | | | | | | |
| <i>Dichanthelium clandestinum</i> (L.) Gould | deer tongue | | | | | | | |
| <i>Dichanthelium</i> sp. | panic grass | | | | | | | |

| | | | | | | | | |
|--|-----------------------------------|---|---|---|---|---|---|---|
| <i>Diospyros virginiana</i> L. | persimmon | | | | | | | |
| <i>Diphasiastrum digitatum</i> (Dill. ex A. Braun) Holub or <i>Lycopodium digitatum</i> | fan clubmoss | | | | | | | |
| <i>Elaeagnus umbellata</i> Thunb. var. <i>parvifolia</i> (Royle) Schneid. ** | autumn olive | | | | | | | X |
| <i>Elymus hystrix</i> L. var. <i>hystrix</i> | bottlebrush grass | | | | | | | |
| <i>Elymus</i> sp. | wild rye | | | | | | | |
| <i>Elymus virginicus</i> L. | Virginia wild rye | | | | | | | |
| <i>Epifagus virginiana</i> (L.) W.Barton | beechdrops | | | | | | | |
| <i>Euonymus alatus</i> (Thunb.) Sieb. ** | burning bush | | | | | | | |
| | American euonymous or | | | | | | | |
| <i>Euonymus americanus</i> L. | strawberry bush | | | | | | | |
| <i>Euonymus fortunei</i> | winter creeper | | | | | | | |
| <i>Fagus grandifolia</i> Ehrhart | American beech | X | X | | X | X | X | X |
| <i>Fraxinus pennsylvanica</i> Marshall | green ash | | | | | | | |
| <i>Glechoma hederacea</i> L. ** | ground ivy | | | | | | | |
| <i>Goodyera pubescens</i> (Willd.) R.Br. ex Aiton f. | downy rattlesnake plantain | | | | | | | |
| <i>Ilex opaca</i> Aiton var. <i>opaca</i> | American holly | X | | | | | | |
| <i>Juglans nigra</i> L. | black walnut | | | | | | | |
| <i>Juncus tenuis</i> Willd. | poverty rush | | | | | | | |
| <i>Juniperus virginiana</i> L. var. <i>virginiana</i> | eastern red cedar | | | | | | | |
| <i>Ligustrum sinense</i> Louriere ** | Chinese privet | | | | | | | |
| <i>Liquidambar styraciflua</i> L. | sweetgum | | | | | | | |
| <i>Liriodendron tulipifera</i> L. | American tulip tree or tulip tree | X | X | X | X | X | X | X |
| <i>Lonicera japonica</i> Thunb. ** | Japanese honeysuckle | X | | | | | | |
| <i>Lonicera maackii</i> (Rupr.) Maximowicz ** | Amur honeysuckle | | | | | | | |
| | Nepalese browntop or Japanese | | | | | | | |
| <i>Microstegium vimineum</i> (Trin.) A. Camus ** | stiltgrass | | | | | | | |
| <i>Miscanthus sinensis</i> Anderss. ** | Chinese silvergrass | | | | | | | |
| <i>Mitchella repens</i> L. | partridgeberry | | | | | | | |
| <i>Nyssa sylvatica</i> Marshall | blackgum | X | | | | | | |
| <i>Panicum dichotomiflorum</i> Michx. | fall panicgrass | | | | | | | |
| <i>Pinus virginiana</i> Miller | Virginia pine | | | | | | X | X |
| <i>Platanus occidentalis</i> L. | American sycamore | | | | | X | | |
| <i>Polystichum acrostichoides</i> (Michx.) Schott | Christmas fern | | | | | | X | X |
| <i>Populus grandidentata</i> Michx. | bigtooth aspen | | | | | | | |
| <i>Prunus serotina</i> Ehrhart ssp. <i>serotina</i> | black cherry | | | | | | | |
| <i>Pyrus calleryana</i> ** | callery pear or Bradford pear | | | | | | | |

| | | | | | | | |
|--|-----------------------------|---|---|---|---|---|---|
| <i>Quercus alba</i> Linnaeus | white oak | | | X | | X | X |
| <i>Quercus falcata</i> Michaux | southern red oak | X | | X | | | |
| <i>Quercus palustris</i> Muenchhausen | pin oak | | | | | | |
| <i>Quercus phellos</i> Linnaeus | willow oak | X | | | | | |
| <i>Quercus rubra</i> Linnaeus var. <i>rubra</i> | northern red oak | | | X | | | X |
| <i>Quercus stellata</i> Wangenheim | post oak | | | | | | |
| <i>Quercus velutina</i> Lamarck | black oak | | X | X | | | |
| <i>Rhus copallinum</i> L. | winged or shining sumac | | | | | | |
| <i>Robinia pseudoacacia</i> L. | black locust | | | | | | |
| <i>Rosa multiflora</i> Thunb. ex Murr. ** | multiflora rose | X | | | | | |
| <i>Rubus phoenicolasius</i> Maxim. ** | wine raspberry or wineberry | | | | | | |
| | blackberry - undetermined | | | | | | |
| <i>Rubus</i> sp. | species | | | | | | |
| <i>Salix nigra</i> Marsh. | black willow | | | | | | |
| <i>Sassafras albidum</i> (Nutt.) Nees | sassafras | | | | | | |
| <i>Smilax glauca</i> Walt. | cat greenbriar | | | | | | |
| <i>Smilax rotundifolia</i> L. | roundleaf greenbriar | X | X | | | | X |
| <i>Stellaria media</i> (L.) Vill. ** | common chickweed | | | | | | |
| <i>Symphoricarpos orbiculatus</i> Moench | coralberry | | | | | | |
| <i>Tipularia discolor</i> (Pursh) Nutt | Crane-fly orchid | | | | | X | |
| <i>Toxicodendron radicans</i> (L.) Kuntze var. <i>radicans</i> | poison ivy | | | | | | |
| <i>Tridens flavus</i> (L.) A.S. Hitchc. var. <i>flavus</i> | purpletop | | | | | | |
| <i>Tsuga canadensis</i> (L.) Carriere | eastern hemlock | | | | | | |
| <i>Ulmus americana</i> L. | American elm | | | | | X | |
| <i>Ulmus rubra</i> Muhl. | slippery elm | | | | | X | |
| <i>Vaccinium</i> sp. | blueberry | | | | | | |
| <i>Viburnum acerifolium</i> L. | maple-leaf viburnum | | | | X | | |
| <i>Viburnum dilatatum</i> ** | Linden viburnum | X | X | | | | |
| <i>Viburnum plicatum</i> * | doublefile | | | | | | |
| <i>Viburnum prunifolium</i> L. | smooth blackhaw viburnum | X | X | | | | |
| <i>Vinca minor</i> L. ** | periwinkle | | | | | | |
| <i>Vitis</i> sp. | grape | | | | | | |

* denotes mildly invasive non-native species

** denotes highly invasive non-native species

Flora Checklist of Prince William County (From Digital Atlas of Virginia Flora) -
Source PWWS March 2010

Plants at Doves
Landing as
observed through
December 2012
(Denoted by X)

| Scientific Name | Common Name | Family | Family Name | by members of Virginia Native |
|--|--|-----------------|------------------------------|----------------------------------|
| <i>Acer negundo</i> L. var. <i>negundo</i> | ash-leaf maple, box elder | Aceraceae | maple | X |
| <i>Acer rubrum</i> L. var. <i>rubrum</i> | red maple | Aceraceae | maple | X |
| <i>Ailanthus altissima</i> (P. Miller) Swingle ** | tree of heaven | Simaroubaceae | quassia | X |
| <i>Albizia julibrissin</i> Durazz. ** | mimosa or silktree | Fabaceae | pea | X |
| <i>Allium vineale</i> L. ** | wild garlic | Liliaceae | lily | X |
| <i>Alnus serrulata</i> (Ait.) Willd. | smooth alder | Betulaceae | birch | X |
| <i>Amelanchier arborea</i> (Michx. f.) Fernald | common serviceberry | Rosaceae | rose | X |
| <i>Aronia melanocarpa</i> (Michx.) Elliott | black chokeberry | Rosaceae | rose | X |
| <i>Asimina triloba</i> (L.) Dunal | pawpaw | Annonaceae | pawpaw | X |
| <i>Asplenium platyneuron</i> (L.) B.S.P. | ebony spleenwort | Aspleniaceae | spleenwort | X |
| <i>Athyrium filix-femina</i> (L.) Roth ex Mert. var. <i>asplenioides</i> (Michx.) Farw. | common ladyfern | Dryopteridaceae | wood fern family | X |
| <i>Berberis thunbergii</i> DC ** | Japanese barberry | Berberidaceae | barberry | X |
| <i>Betula nigra</i> L. | river birch | Betulaceae | birch | X |
| <i>Boehmeria cylindrica</i> (L.) Sw. | smallspike false nettle | Urticaceae | nettle | X |
| <i>Botrychium</i> sp. | grapefern | Ophioglossaceae | adder's tongue | X |
| <i>Campsis radicans</i> (L.) Seem. ex Bureau | trumpet creeper, trumpet vine | Bignoniaceae | trumpet creeper | X |
| <i>Carex flaccosperma</i> Dewey | green-gray sedge | Cyperaceae | sedge | X |
| <i>Carex pensylvanica</i> Lam. | Pennsylvania sedge | Cyperaceae | sedge | X |
| <i>Carex</i> sp. | sedge | Cyperaceae | sedge | X |
| <i>Carpinus caroliniana</i> Walt. | American hornbeam, ironwood | Betulaceae | birch | X |
| <i>Carya alba</i> (L.) Nutt. ex Ell. | mockernut hickory | Juglandaceae | walnut | X |
| <i>Carya cordiformis</i> (Wangenh.) K. Koch | bitternut hickory | Juglandaceae | walnut | X |
| <i>Carya glabra</i> (P. Miller) Sweet | pignut hickory | Juglandaceae | walnut | X |
| <i>Carya ovata</i> | shagbark hickory | Juglandaceae | walnut | X |
| <i>Celastrus orbiculatus</i> Thunb. ** | oriental bittersweet | Celastraceae | staff vine or bittersweet | X |
| <i>Celtis occidentalis</i> L. | common hackberry | Ulmaceae | elm | X |
| <i>Chimaphila maculata</i> (L.) Pursh | striped prince's pine or striped wintergreen | Pyrolaceae | wintergreen | X |
| <i>Cinna arundinacea</i> L. | sweet woodreed | Poaceae | grass | X |
| <i>Cornus florida</i> L. | flowering dogwood | Cornaceae | dogwood | X |
| <i>Corylus americana</i> Walt. | American hazelnut | Betulaceae | birch | X |
| <i>Danthonia spicata</i> (L.) Beauv. ex Roemer & J.A. Schultes | poverty oatgrass | Poaceae | grass | X |

| | | | | |
|--|--|-----------------|------------------------------|---|
| Dichanthelium clandestinum (L.) Gould | deer tongue | Poaceae | grass | X |
| Dichanthelium sp. | panic grass | Poaceae | grass | X |
| Diospyros virginiana L. | persimmon | Ebenaceae | ebony | X |
| Diphasiastrum digitatum (Dill. ex A. Braun) Holub or Lycopodium digitatum | fan clubmoss | Lycopodiaceae | club-moss | X |
| Elaeagnus umbellata Thunb. var. parvifolia (Royle) | autumn olive | Elaeagnaceae | oleaster | X |
| Elymus hystrix L. var. hystrix | bottlebrush grass | Poaceae | grass | X |
| Elymus sp. | wild rye | Poaceae | grass | X |
| Elymus virginicus L. | Virginia wild rye | Poaceae | grass | X |
| Epifagus virginiana (L.) W.Barton | beechdrops | Orobanchaceae | broom-rape staff vine or | X |
| Euonymus alatus (Thunb.) Sieb. ** | burning bush | Celastraceae | bittersweet staff vine or | X |
| Euonymus americanus L. | American euonymous or strawberry bush | Celastraceae | bittersweet staff vine or | X |
| Euonymus fortunei | winter creeper | Celastraceae | bittersweet | X |
| Fagus grandifolia Ehrhart | American beech | Fagaceae | beech | X |
| Fraxinus pennsylvanica Marshall | green ash | Oleaceae | olive | X |
| Glechoma hederacea L. ** | ground ivy | Lamiaceae | mint | X |
| Goodyera pubescens (Willd.) R.Br. ex Aiton f. | downy rattlesnake plantain | Orchidaceae | orchid | X |
| Ilex opaca Aiton var. opaca | American holly | Aquifoliaceae | holly | X |
| Juglans nigra L. | black walnut | Juglandaceae | walnut | X |
| Juncus tenuis Willd. | poverty rush | Juncaceae | rush | X |
| Juniperus virginiana L. var. virginiana | eastern red cedar | Juncaceae | rush | X |
| Ligustrum sinense Louriere ** | Chinese privet | Oleaceae | olive | X |
| Liquidambar styraciflua L. | sweetgum | Hamamelidaceae | witch hazel | X |
| Liriodendron tulipifera L. | American tulip tree or tulip tree | Magnoliaceae | magnolia | X |
| Lonicera japonica Thunb. ** | Japanese honeysuckle | Caprifoliaceae | honeysuckle | X |
| Lonicera maackii (Rupr.) Maximowicz ** | Amur honeysuckle | Caprifoliaceae | honeysuckle | X |
| Microstegium vimineum (Trin.) A. Camus ** | Nepalese browntop or Japanese stiltgrass | Poaceae | grass | X |
| Miscanthus sinensis Anders. ** | Chinese silvergrass | Poaceae | grass | X |
| Mitchella repens L. | partridgeberry | Rubiaceae | madder | X |
| Nyssa sylvatica Marshall | blackgum | Cornaceae | dogwood | X |
| Panicum dichotomiflorum Michx. | fall panicgrass | Poaceae | grass | X |
| Pinus virginiana Miller | Virginia pine | Pinaceae | pine | X |
| Platanus occidentalis L. | American sycamore | Platanaceae | plane-tree | X |
| Polystichum acrostichoides (Michx.) Schott | Christmas fern | Dryopteridaceae | wood fern family | X |
| Populus grandidentata Michx. | bigtooth aspen | Salicaceae | willow | X |
| Prunus serotina Ehrhart ssp. serotina | black cherry | Rosaceae | rose | X |
| Pyrus calleryana ** | callery pear or Bradford pear | Rosaceae | rose | X |

| | | | | |
|--|-----------------------------------|-----------------|-------------|---|
| Quercus alba Linnaeus | white oak | Fagaceae | beech | X |
| Quercus falcata Michaux | southern red oak | Fagaceae | beech | X |
| Quercus palustris Muenchhausen | pin oak | Fagaceae | beech | X |
| Quercus phellos Linnaeus | willow oak | Fagaceae | beech | X |
| Quercus rubra Linnaeus var. rubra | northern red oak | Fagaceae | beech | X |
| Quercus stellata Wangenheim | post oak | Fagaceae | beech | X |
| Quercus velutina Lamarck | black oak | Fagaceae | beech | X |
| Rhus copallinum L. | winged or shining sumac | Anacardiaceae | cashew | X |
| Robinia pseudoacacia L. | black locust | Fabaceae | pea | X |
| Rosa multiflora Thunb. ex Murr. ** | multiflora rose | Rosaceae | rose | X |
| Rubus phoenicolasium Maxim. ** | wine raspberry or wineberry | Rosaceae | rose | X |
| Rubus sp. | blackberry - undetermined species | Rosaceae | rose | X |
| Salix nigra Marsh. | black willow | Salicaceae | willow | X |
| Sassafras albidum (Nutt.) Nees | sassafras | Lauraceae | laurel | X |
| Smilax glauca Walt. | cat greenbriar | Smilacaceae | catbriar | X |
| Smilax rotundifolia L. | roundleaf greenbriar | Smilacaceae | catbriar | X |
| Stellaria media (L.) Vill. ** | common chickweed | Caryophyllaceae | pink | X |
| Symphoricarpos orbiculatus Moench | coralberry | Caprifoliaceae | honeysuckle | X |
| Tipularia discolor (Pursh) Nutt | Crane-fly orchid | Orchidaceae | orchid | X |
| Toxicodendron radicans (L.) Kuntze var. radicans | poison ivy | Anacardiaceae | cashew | X |
| Tridens flavus (L.) A.S. Hitchc. var. flavus | purpletop | Poaceae | grass | X |
| Tsuga canadensis (L.) Carriere | eastern hemlock | Pinaceae | pine | X |
| Ulmus americana L. | American elm | Ulmaceae | elm | X |
| Ulmus rubra Muhl. | slippery elm | Ulmaceae | elm | X |
| Vaccinium sp. | blueberry | Ericaceae | heath | X |
| Viburnum acerifolium L. | maple-leaf viburnum | Adoxaceae | muskroot | X |
| Viburnum dilatatum** | Linden viburnum | Adoxaceae | muskroot | X |
| Viburnum plicatum* | doublefile | Adoxaceae | muskroot | X |
| Viburnum prunifolium L. | smooth blackhaw viburnum | Adoxaceae | muskroot | X |
| Vinca minor L. ** | periwinkle | Apocynaceae | dogbane | X |
| Vitis sp. | grape | Vitaceae | grape | X |

* denotes mildly invasive non-native species

** denotes highly invasive non-native species

WOODY PLANTS

DOVES LANDING
9113 Doves landing Rd.,
Brentsville, VA

Carrie Blair
Middleburg, VA
April 7, 2012

| | | | |
|----|--------------------|--------------|----------------|
| 1 | Ash, White | Fraxinus | americana |
| 2 | Beech, American | Fagus | grandifolia |
| 3 | Black Cherry | Prunus | serotina |
| 4 | Black Gum | Nyssa | sylvatica |
| 5 | Black Locust | Robinia | pseudoacacia |
| 6 | Black Walnut | Juglans | nigra |
| 7 | Box Elder | Acer | negundo |
| 8 | Dogwood | Cornus | florida |
| 9 | Eastern Red Cedar | Juniperus | virginiana |
| 10 | Hackberry | Celtis | occidentalis |
| 11 | Hickory, Mockernut | Carya | tomentosa/alba |
| 12 | Hickory, Pignut | Carya | glabra |
| 13 | Holly, American | Ilex | opaca |
| 14 | Ironwood | Carpinus | caroliniana |
| 15 | Maple, Red | Acer | rubrum |
| 16 | Oak, Northern Red | Quercus | rubra |
| 17 | Oak, Southern Red | Quercus | falcata |
| 18 | Oak, White | Quercus | alba |
| 19 | Pawpaw | Asimina | triloba |
| 20 | Sassafras | Sassafras | albidum |
| 21 | Sycamore | Plantanus | occidentalis |
| 22 | Tulip Poplar | Liriodendron | tulipifera |

SHRUBS

| | | | |
|----|-------------------|-----------|-------------|
| 23 | Autumn Olive * | Elaeagnus | umbellata |
| 24 | Blackhaw Viburnum | Viburnum | prunifolium |
| 25 | Multiflora Rose * | Rosa | multiflora |
| 26 | Privet * | Ligustrum | vulgare |
| 27 | Spicebush | Lindera | benzoin |
| 28 | Sumac | Rhus | |

VINES, CANES

| | | | |
|----|------------------------|-----------|----------------|
| 29 | Blackberry | Rubus | |
| 30 | Grape | Vitis | |
| 31 | Greenbrier | Smilax | rotundifolia |
| 32 | Oriental bittersweet * | Celastrus | orbiculatus |
| 33 | Poison Ivy | Rhus | radicans |
| 34 | Wineberry * | Rubus | phoenicolasius |
| 35 | Wintercreeper * | Euonymus | fortunei |
| 36 | Japanese Honeysuckle | Lonicera | japonica |

* - Non Native Invasive Species

Flora Checklist of Prince William County (From Digital Atlas of Virginia Flora) -
Source PWWS March 2010

Carrie Blair
Plant List April 2012
(Denoted by X)
Plants at Doves Landing
as observed November
through December 2012
(Denoted by X)

Multiple Field Visits by
members of Virginia Native
Plant Society - Participants
Included: Nancy Vehrs,
Harry Glasgow and Charles
Smith

| Scientific Name | Common Name | Family | Family Name | | |
|---|---|------------------|-----------------|---|---|
| <i>Abutilon theophrasti</i> Medik. * | velvetleaf | Malvaceae | mallow | | |
| <i>Acalypha gracilens</i> Gray | slender threeseed mercury | Euphorbiaceae | spurge | | |
| <i>Acalypha rhomboidea</i> Raf. | common threeseed mercury | Euphorbiaceae | spurge | | |
| <i>Acalypha virginica</i> L. | Virginia threeseed mercury | Euphorbiaceae | spurge | | |
| <i>Acer negundo</i> L. var. <i>negundo</i> | ash-leaf maple, box elder | Aceraceae | maple | X | X |
| <i>Acer platanoides</i> L. ** | Norway maple | Aceraceae | maple | | |
| <i>Acer rubrum</i> L. var. <i>rubrum</i> | red maple | Aceraceae | maple | X | X |
| <i>Acer saccharinum</i> L. | silver maple | Aceraceae | maple | | |
| <i>Acer saccharum</i> Marshall var. <i>saccharum</i> | sugar maple | Aceraceae | maple | | |
| <i>Achillea millefolium</i> L. var. <i>occidentalis</i> DC. * | yarrow | Asteraceae | aster | | |
| <i>Acorus calamus</i> L. | common sweet flag | Acoraceae | sweet flag | | |
| <i>Adiantum pedatum</i> L. | northern maidenhair fern | Pteridaceae | maidenhair fern | | |
| | | Scrophulariaceae | | | |
| <i>Agalinis auriculata</i> (Michx.) Blake | earleaf false foxglove | □ | figwort | | |
| | | Scrophulariaceae | | | |
| <i>Agalinis fasciculata</i> (Ell.) Raf. | beach false foxglove or fascicled agalinis | □ | figwort | | |
| | | Scrophulariaceae | | | |
| <i>Agalinis obtusifolia</i> Raf. | tenlobe false foxglove or blunt-leaved agalinis | □ | figwort | | |
| | | Scrophulariaceae | | | |
| <i>Agalinis purpurea</i> (L.) Pennell | purple false foxglove or smooth purple agalinis | □ | figwort | | |
| | slenderleaf false foxglove or slenderleaf | Scrophulariaceae | | | |
| | agalinis | □ | figwort | | |
| <i>Agalinis tenuifolia</i> (Vahl) Raf. var. <i>tenuifolia</i> | yellow giant hyssop | Lamiaceae | mint | | |
| <i>Agastache nepetoides</i> (L.) Kuntze | tall thoroughwort or white snakeroot | Asteraceae | aster | | |
| <i>Ageratina altissima</i> (L.) King & H.E. Robins. | small white snakeroot | Asteraceae | aster | | |
| <i>Ageratina aromatica</i> (L.) Spach | tall hairy agrimony or common agrimony | Rosaceae | rose | | |
| <i>Agrimonia gryposepala</i> Wallr. | smallfruit agrimony | Rosaceae | rose | | |
| <i>Agrimonia microcarpa</i> Wallr. | harvestlice or small-flowered agrimony | Rosaceae | rose | | |
| <i>Agrimonia parviflora</i> Ait. | soft agrimony or downy agrimony | Rosaceae | rose | | |
| <i>Agrimonia pubescens</i> Wallr. | beaked agrimony | Rosaceae | rose | | |
| <i>Agrimonia rostellata</i> Wallr. | purple cockle or corn cockle | Caryophyllaceae | pink | | |
| <i>Agrostemma githago</i> L. * | redtop | Poaceae | grass | | |
| <i>Agrostis gigantea</i> Roth ** | winter bentgrass | Poaceae | grass | | |
| <i>Agrostis hyemalis</i> (Walt.) B.S.P. | upland bentgrass | Poaceae | grass | | |
| <i>Agrostis perennans</i> (Walt.) Tuckerman var. <i>perennans</i> | tree of heaven | Simaroubaceae | quassia | | X |
| <i>Ailanthus altissima</i> (P. Miller) Swingle ** | silver hairgrass | Poaceae | grass | | |
| <i>Aira caryophyllea</i> L. * | annual silver hairgrass | Poaceae | grass | | |
| <i>Aira elegans</i> Willd. ex Kunth * | mimosa or silktree | Fabaceae | pea | | X |
| <i>Albizia julibrissin</i> Durazz. ** | white colicroot | Liliaceae | lily | | |
| <i>Aletris farinosa</i> L. | American water plantain | Alismataceae | water plantain | | |
| <i>Alisma subcordatum</i> Rafinesque | garlic mustard | Brassicaceae | mustard | | |
| <i>Alliaria petiolata</i> (Bieberstein) Cavara & Grande ** | meadow garlic or wild onion | Liliaceae | lily | | |
| <i>Allium canadense</i> L. var. <i>canadense</i> | | | | | |

| | | | | |
|---|---|------------------|-------------|---|
| Allium vineale L. ** | wild garlic | Liliaceae | lily | X |
| Alnus serrulata (Ait.) Willd. | smooth alder | Betulaceae | birch | X |
| Alyssum alyssoides (Linnaeus) Linnaeus * | yellow alyssum | Brassicaceae | mustard | |
| Amaranthus albus L. | tumbleweed | Amaranthaceae | amaranth | |
| Amaranthus cannabinus (L.) J.D. Sauer | water hemp | Amaranthaceae | amaranth | |
| Amaranthus hybridus L. * | pigweed | Amaranthaceae | amaranth | |
| Amaranthus spinosus L. * | spiny amaranth | Amaranthaceae | amaranth | |
| Ambrosia artemisiifolia L. | common ragweed | Asteraceae | aster | |
| Ambrosia trifida L. var. trifida | great ragweed | Asteraceae | aster | |
| Amelanchier arborea (Michx. f.) Fernald | common serviceberry | Rosaceae | rose | X |
| Amelanchier laevis Wieg. | Allegheny serviceberry | Rosaceae | rose | |
| Ammannia coccinea Rottb. | valley redstem or toothcup | Lythraceae | loosestrife | |
| Amorpha fruticosa L. | wild indigo bush or desert false indigo | Fabaceae | pea | |
| Ampelopsis brevipedunculata (Maxim.) Trautv. ** | porcelainberry or amur peppervine | Vitaceae | grape | |
| Amphicarpa bracteata (L.) Fern. | hog peanut | Fabaceae | pea | |
| Anagallis arvensis L. ssp. arvensis * | scarlet pimpernel | Primulaceae | primrose | |
| Andropogon gerardii Vitman | big bluestem | Poaceae | grass | |
| Andropogon glomeratus (Walt.) B.S.P. | bushy bluestem | Poaceae | grass | |
| Andropogon gyrans Ashe | Elliot's bluestem | Poaceae | grass | |
| Andropogon virginicus | broomsedge bluestem | Poaceae | grass | |
| Anemone quinquefolia L. var. quinquefolia | wood anemone | Ranunculaceae | buttercup | |
| Anemone virginiana L. var. virginiana | tall thimbleweed | Ranunculaceae | buttercup | |
| Angelica venenosa (Greenway) Fern. | hairy angelica | Apiaceae | parsley | |
| Antennaria neglecta Greene | field pussytoes | Asteraceae | aster | |
| Antennaria parlinii Fern. ssp. parlinii | Parlin's pussytoes | Asteraceae | aster | |
| Antennaria plantaginifolia (L.) Richards. | plantain-leaved pussytoes | Asteraceae | aster | |
| Antennaria solitaria Rydb. | solitary or singlehead pussytoes | Asteraceae | aster | |
| Antennaria virginica Stebbins | shale barren pussytoes | Asteraceae | aster | |
| Anthemis arvensis L. | dogfennel or corn chamomile | Asteraceae | aster | |
| Anthemis cotula L. | mayweed or dogfennel | Asteraceae | aster | |
| Anthoxanthum odoratum L. ssp. odoratum * | sweet vernal grass | Poaceae | grass | |
| Apios americana Medik. | groundnut | Fabaceae | pea | |
| Aplectrum hyemale (Muhl. ex Willd.) Torrey | Adam and Eve or puttyroot | Orchidaceae | orchid | |
| Apocynum androsaemifolium L. | spreading dogbane | Apocynaceae | dogbane | |
| Apocynum cannabinum L. | Indian hemp | Apocynaceae | dogbane | |
| Aquilegia canadensis L. | red columbine | Ranunculaceae | buttercup | |
| Arabidopsis thaliana (Linnaeus) Heynhold * | mouse-eared cress | Brassicaceae | mustard | |
| Arabis canadensis Linnaeus | sicklepod | Brassicaceae | mustard | |
| Arabis laevigata (Muhlenberg ex. Willdenow) Poiret var. laevigata | smooth rock cress | Brassicaceae | mustard | |
| Arabis lyrata Linnaeus | lyre-leaved rock cress | Brassicaceae | mustard | |
| Aralia nudicaulis L. | wild or false sarsaparilla | Araliaceae | ginseng | |
| Aralia spinosa L. | devil's walking stick | Araliaceae | ginseng | |
| Arctium minus Bernh. | common burdock | Asteraceae | aster | |
| Arenaria serpyllifolia L. var. serpyllifolia | thyme-leaved sandwort | Caryophyllaceae | pink | |
| Arisaema dracontium (L.) Schott | green dragon | Araceae | arum | |
| Arisaema triphyllum (L.) Schott ssp. triphyllum | Jack-in-the-pulpit | Araceae | arum | |
| Aristida dichotoma Michx. var. curtissii Gray | churchmouse threeawn | Poaceae | grass | |
| Aristida dichotoma Michx. var. dichotoma | churchmouse threeawn | Poaceae | grass | |
| Aristida longespica Poir. | slimspike threeawn | Poaceae | grass | |
| Aristida oligantha Michx. | prairie threeawn | Poaceae | grass | |
| Aristolochia serpentaria L. | Virginia snakeroot | Aristolochiaceae | birthwort | |
| Arnoglossum atriplicifolium (L.) H.E. Robins. | pale Indian plantain | Asteraceae | aster | |
| Aronia arbutifolia (L.) Ell. | red chokeberry | Rosaceae | rose | |

| | | | | | |
|---|------------------------------------|------------------|------------------|---|---|
| Aronia melanocarpa (Michx.) Elliott | black chokeberry | Rosaceae | rose | | X |
| Aronia prunifolia (Marsh.) Rehder | purple chokeberry | Rosaceae | rose | | |
| Arrhenatherum elatius (L.) J. & K. Presl var. elatius ** | tall oatgrass | Poaceae | grass | | |
| Artemisia annua L. * | wormwood | Asteraceae | aster | | |
| Artemisia vulgaris L. var. vulgaris ** | mugwort | Asteraceae | aster | | |
| Arthraxon hispidus (Thunb.) Makino ** | small carp grass | Poaceae | grass | | |
| Aruncus dioicus (Walt.) Fernald | bride's feather | Rosaceae | rose | | |
| Asarum canadense L. | wild ginger | Aristolochiaceae | birthwort | | |
| Asclepias amplexicaulis J.E.Smith | blunt-leaved or clasping milkweed | Asclepiadaceae | milkweed | | |
| Asclepias incarnata L. | swamp milkweed | Asclepiadaceae | milkweed | | |
| Asclepias incarnata L. ssp. pulchra (Ehrh. ex Willd.) Woods. | swamp milkweed | Asclepiadaceae | milkweed | | |
| Asclepias purpurascens L. | purple milkweed | Asclepiadaceae | milkweed | | |
| Asclepias quadrifolia Jacq. | four-leaved milkweed | Asclepiadaceae | milkweed | | |
| Asclepias rubra L. | red milkweed | Asclepiadaceae | milkweed | | |
| Asclepias syriaca L. | common milkweed | Asclepiadaceae | milkweed | | |
| Asclepias tuberosa L. ssp. tuberosa | butterfly weed | Asclepiadaceae | milkweed | | |
| Asclepias variegata L. | redring milkweed or white milkweed | Asclepiadaceae | milkweed | | |
| Asclepias verticillata L. | whorled milkweed | Asclepiadaceae | milkweed | | |
| Asclepias viridiflora Raf. | green milkweed | Asclepiadaceae | milkweed | | |
| Asimina triloba (L.) Dunal | pawpaw | Annonaceae | pawpaw | X | X |
| Asparagus officinalis L. * | garden asparagus | Liliaceae | lily | | |
| Asplenium platyneuron (L.) B.S.P. | ebony spleenwort | Aspleniaceae | spleenwort | | X |
| Asplenium rhizophyllum L. | walking fern | Aspleniaceae | spleenwort | | |
| Asplenium trichomanes L. ssp. trichomanes | maidenhair spleenwort | Aspleniaceae | spleenwort | | |
| Athyrium filix-femina (L.) Roth ex Mert. var. asplenioides (Michx.) Farw. | common ladyfern | Dryopteridaceae | wood fern family | | X |
| Aureolaria flava (L.) Farwell | smooth yellow false foxglove | Scrophulariaceae | figwort | | |
| Aureolaria laevigata (Raf.) Raf. | entireleaf yellow false foxglove | Scrophulariaceae | figwort | | |
| Aureolaria pedicularia (L.) Raf. | fernleaf yellow false foxglove | Scrophulariaceae | figwort | | |
| Aureolaria virginica (L.) Pennell | downy yellow false foxglove | Scrophulariaceae | figwort | | |
| Baccharis halimifolia L. | groundsel or eastern baccharis | Asteraceae | aster | | |
| Baptisia tinctoria (L.) R. Br. ex Ait. f. | yellow wild indigo or horseflyweed | Fabaceae | pea | | |
| Barbarea verna (Miller) Ascherson * | early winter cress | Brassicaceae | mustard | | |
| Barbarea vulgaris R. Brown * | late winter cress or yellow rocket | Brassicaceae | mustard | | |
| Bartonia virginica (L.) BSP | yellow bartonia | Gentianaceae | gentian | | |
| Belamcanda chinensis (L.) DC. | blackberry lily | Iridaceae | iris | | |
| Berberis thunbergii DC ** | Japanese barberry | Berberidaceae | barberry | | X |
| Betula nigra L. | river birch | Betulaceae | birch | | X |
| Bidens alba (L.) DC. | common beggarticks | Asteraceae | aster | | |
| Bidens aristosa (Michx.) Britt. | tickseed sunflower | Asteraceae | aster | | |
| Bidens bipinnata L. | Spanish needles | Asteraceae | aster | | |
| Bidens cernua L. | nodding bur marigold | Asteraceae | aster | | |
| Bidens comosa (Gray) Wiegand | threelobe beggar ticks | Asteraceae | aster | | |
| Bidens frondosa L. | beggar ticks | Asteraceae | aster | | |
| Bidens laevis (L.) B.S.P. | large bur marigold | Asteraceae | aster | | |
| Boehmeria cylindrica (L.) Sw. | smallspike false nettle | Urticaceae | nettle | | X |
| Bolboschoenus novae-angliae (Britton) S.G. Smith | marsh bullrush | Cyperaceae | sedge | | |
| Botrychium biternatum (Sav.) Underwood | sparselobe grapefern | Ophioglossaceae | adder's tongue | | |
| Botrychium dissectum Spreng. | cutleaf grapefern | Ophioglossaceae | adder's tongue | | |
| Botrychium sp. | grapefern | Ophioglossaceae | adder's tongue | | X |
| Botrychium virginianum (L.) Sw. | rattlesnake fern | Ophioglossaceae | adder's tongue | | |
| Brachyelytrum erectum (Schreb. ex Spreng.) Beauv. | bearded shorthusk | Poaceae | grass | | |
| Bromus inermis Leyss. ssp. inermis var. inermis * | smooth brome | Poaceae | grass | | |
| Bromus japonicus Thunb. ex Murr. * | Japanese brome | Poaceae | grass | | |

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|--|-----------------------------------|------------------|-----------------|---|
| Bromus pubescens Sprengel | hairy woodland brome | Poaceae | grass | |
| Bromus racemosus L. * | bald brome | Poaceae | grass | |
| Bromus sterilis L. * | poverty brome | Poaceae | grass | |
| Bromus tectorum L. ** | cheatgrass | Poaceae | grass | |
| Broussonetia papyrifera (L.) L'Her. ex Vent. ** | paper mulberry | Moraceae | mulberry | |
| Buchnera americana L. | American bluehearts | Scrophulariaceae | figwort | |
| Buglossoides arvensis (L.) I.M. Johnston | corn gromwell | Boraginaceae | borage | |
| Bulbostylis capillaris (L.) Clarke in Hook. | hair-like sedge | Cyperaceae | sedge | |
| Cabomba caroliniana A. Gray | Carolina fanwort | Cabombaceae | fanwort | |
| Calamagrostis coarctata (Torrey) Eaton | arctic reedgrass | Poaceae | grass | |
| Callitriche heterophylla Pursh ssp. heterophylla | large water starwort | Callitrichaceae | water starwort | |
| Callitriche terrestris Raf. | terrestrial water starwort | Callitrichaceae | water starwort | |
| Calystegia sepium (L.) R. Br. | hedge false bindweed | Convolvulaceae | morning glory | |
| Calystegia spithamea (L.) Pursh | low false bindweed | Convolvulaceae | morning glory | |
| Camelina microcarpa Andrzejowski ex. A. P. DeCandolle * | small-fruited false flax | Brassicaceae | mustard | |
| Campanula aparinoides Pursh | marsh bellflower | Campanulaceae | bellflower | |
| Campanula rapunculoides L. * | creeping bellflower | Campanulaceae | bellflower | |
| Campsis radicans (L.) Seem. ex Bureau | trumpet creeper, trumpet vine | Bignoniaceae | trumpet creeper | X |
| Capsella bursa-pastoris (Linnaeus) Medicus * | shepard's purse | Brassicaceae | mustard | |
| Cardamine angustata O. E. Schulz | slender toothwort | Brassicaceae | mustard | |
| Cardamine bulbosa (Schreber ex. Muhlenberg) Britton, Sterns & Poggenberg | spring cress | Brassicaceae | mustard | |
| Cardamine concatenata (Michaux) O. Schwarz | cutleaf toothwort | Brassicaceae | mustard | |
| Cardamine hirsuta Linnaeus * | bitter cress | Brassicaceae | mustard | |
| Cardamine pensylvanica Muhlenberg ex Willdenow | Pennsylvania bittercress | Brassicaceae | mustard | |
| Carduus acanthoides L. * | plumeless thistle | Asteraceae | aster | |
| Carduus nutans L. ssp. macrolepis (Peterm.) Kazmi ** | musk or nodding plumeless thistle | Asteraceae | aster | |
| Carex aggregata Mackenzie | glomerate sedge | Cyperaceae | sedge | |
| Carex albicans Willd. ex Sprengel | whitening sedge | Cyperaceae | sedge | |
| Carex albolutescens Schweinitz | greenish-white sedge | Cyperaceae | sedge | |
| Carex amphibola s.l. | ambiguous sedge | Cyperaceae | sedge | |
| Carex amphibola Steudel | eastern narrowleaf sedge | Cyperaceae | sedge | |
| Carex atlantica Bailey ssp. atlantica | Atlantic sedge | Cyperaceae | sedge | |
| Carex austrina Mackenzie | southern sedge | Cyperaceae | sedge | |
| Carex blanda Dewey | charming sedge | Cyperaceae | sedge | |
| Carex bromoides Schk. ex Willd. | brome-like sedge | Cyperaceae | sedge | |
| Carex bushii Mackenzie | Bush's sedge | Cyperaceae | sedge | |
| Carex buxbaumii Wahlenb. | Buxbaum's sedge | Cyperaceae | sedge | |
| Carex caroliniana Schweinitz | Carolina sedge | Cyperaceae | sedge | |
| Carex cephalophora Muhl. ex Willd. | head bearing sedge | Cyperaceae | sedge | |
| Carex crebriflora Wiegand | coastal plain sedge | Cyperaceae | sedge | |
| Carex crinita Lam. var. crinita | drooping sedge | Cyperaceae | sedge | |
| Carex debilis Michaux | weak sedge | Cyperaceae | sedge | |
| Carex digitalis Willd. | slender woodland sedge | Cyperaceae | sedge | |
| Carex digitalis Willd. var. digitalis | slender woodland sedge | Cyperaceae | sedge | |
| Carex festucacea Schk. ex Willd. | fescue sedge | Cyperaceae | sedge | |
| Carex flaccosperma Dewey | green-gray sedge | Cyperaceae | sedge | X |
| Carex folliculata L. | pubescent sedge | Cyperaceae | sedge | |
| Carex frankii Kunth | Frank's sedge | Cyperaceae | sedge | |
| Carex glaucoidea Tuckerman ex Olney | blue sedge | Cyperaceae | sedge | |
| Carex gracilescens Steudel | slender sedge | Cyperaceae | sedge | |
| Carex gracillima Schw. | very slender sedge | Cyperaceae | sedge | |
| Carex granularis Muhl. ex Willd. | granular sedge | Cyperaceae | sedge | |
| Carex grayi Carey | Gray's sedge | Cyperaceae | sedge | |

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|--|-----------------------------|---------------|-----------------|---|
| Carex gynandra Schweinitz | nodding sedge | Cyperaceae | sedge | |
| Carex hirsutella Mackenzie | hairy-leaved sedge | Cyperaceae | sedge | |
| Carex intumescens Rudge | greater bladder sedge | Cyperaceae | sedge | |
| Carex jamesii Schweinitz | James' sedge | Cyperaceae | sedge | |
| Carex kraliana Naczi & Bryson | broad looseflower sedge | Cyperaceae | sedge | |
| Carex laevivaginata (Kukenth.) Mackenzie | smoothsheath sedge | Cyperaceae | sedge | |
| Carex laxiculmis Schweinitz var. laxiculmis | spreading sedge | Cyperaceae | sedge | |
| Carex laxiflora Lam. | broad looseflower sedge | Cyperaceae | sedge | |
| Carex leavenworthii Dewey | Leavenworth's sedge | Cyperaceae | sedge | |
| Carex leptalea Wahlenb. | bristlystalked sedge | Cyperaceae | sedge | |
| Carex louisianica Bailey | Louisiana sedge | Cyperaceae | sedge | |
| Carex lupulina Willd. | hop sedge | Cyperaceae | sedge | |
| Carex lurida Wahlenb. | shallow sedge | Cyperaceae | sedge | |
| Carex meadii Dewey | Mead's sedge | Cyperaceae | sedge | |
| Carex muehlenbergii Schk. ex Willd. | Muhlenberg's sedge | Cyperaceae | sedge | |
| Carex nigromarginata Schweinitz var. nigromarginata | black-edge sedge | Cyperaceae | sedge | |
| Carex normalis Mackenzie | greater straw sedge | Cyperaceae | sedge | |
| Carex oligocarpa Willd. | richwoods sedge | Cyperaceae | sedge | |
| Carex pellita Willd. | woolly sedge | Cyperaceae | sedge | |
| Carex pensylvanica Lam. | Pennsylvania sedge | Cyperaceae | sedge | X |
| Carex planispicata Naczi | flat-spiked sedge | Cyperaceae | sedge | |
| Carex platyphylla Carey | broad-leafed sedge | Cyperaceae | sedge | |
| Carex prasina Wahlenb. | drooping sedge | Cyperaceae | sedge | |
| Carex retroflexa Muhl. ex Willd. | reflexed sedge | Cyperaceae | sedge | |
| Carex rosea Schk. ex Willd. | rosy sedge | Cyperaceae | sedge | |
| Carex scabrata Schweinitz | eastern rough sedge | Cyperaceae | sedge | |
| Carex scoparia Schk. ex Willd. var. scoparia | broom sedge | Cyperaceae | sedge | |
| Carex seorsa Howe in Gordinier & Howe | weak stellate sedge | Cyperaceae | sedge | |
| Carex sp. | sedge | Cyperaceae | sedge | X |
| Carex sparganioides Muhl. ex Willd. | bur-reed sedge | Cyperaceae | sedge | |
| Carex squarrosa L. | squarrose sedge | Cyperaceae | sedge | |
| Carex stipata Muhl. ex Willd. var. maxima Chapman ex Boott | stalkgrain sedge | Cyperaceae | sedge | |
| Carex stipata Muhl. ex Willd. var. stipata | awlfuit sedge | Cyperaceae | sedge | |
| Carex striatula Michaux | lined sedge | Cyperaceae | sedge | |
| Carex stricta Lam. in J. Lam., et al | upright sedge | Cyperaceae | sedge | |
| Carex styloflexa Buckley | bent sedge | Cyperaceae | sedge | |
| Carex swanii (Fernald) Mackenzie | Swan's sedge | Cyperaceae | sedge | |
| Carex torta Boott in Tuckerman | twisted sedge | Cyperaceae | sedge | |
| Carex tribuloides Wahlenb. var. tribuloides | blunt broom sedge | Cyperaceae | sedge | |
| Carex umbellata Schk. ex Willd. | parasol sedge | Cyperaceae | sedge | |
| Carex vestita Willd. | velvet sedge | Cyperaceae | sedge | |
| Carex virescens Muhl. ex Willd. | ribbed sedge | Cyperaceae | sedge | |
| Carex vulpinoidea Michaux | fox sedge | Cyperaceae | sedge | |
| Carex willdenowii Schk. ex Willd. | Willdenow's sedge | Cyperaceae | sedge | |
| Carpinus caroliniana Walt. | American hornbeam, ironwood | Betulaceae | birch | X |
| Carya alba (L.) Nutt. ex Ell. | mockernut hickory | Juglandaceae | walnut | X |
| Carya cordiformis (Wangenh.) K. Koch | bitternut hickory | Juglandaceae | walnut | X |
| Carya glabra (P. Miller) Sweet | pignut hickory | Juglandaceae | walnut | X |
| Carya ovalis (Wangenh.) Sarg. | red hickory | Juglandaceae | walnut | |
| Carya ovata | shagbark hickory | Juglandaceae | walnut | X |
| Castanea dentata (Marshall) Borkhausen | American chestnut | Fagaceae | beech | |
| Castanea pumila (Linnaeus) P. Miller | Allegheny chinkapin | Fagaceae | beech | |
| Catalpa speciosa (Warder) Warder ex Engelm. | catalpa | Bignoniaceae | trumpet creeper | |
| Caulophyllum thalictroides (L.) Michx. | blue cohosh | Berberidaceae | barberry | |

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|--|--|------------------|------------------------------|---|
| <i>Ceanothus americanus</i> L. | New Jersey tea | Rhamnaceae | buckthorn staff vine or | |
| <i>Celastrus orbiculatus</i> Thunb. ** | oriental bittersweet | Celastraceae | bittersweet staff vine or | X |
| <i>Celastrus scandens</i> L. | climbing bittersweet | Celastraceae | bittersweet | |
| <i>Celtis occidentalis</i> L. | common hackberry | Ulmaceae | elm | X |
| <i>Celtis tenuifolia</i> Nutt. | dwarf hackberry | Ulmaceae | elm | |
| <i>Cenchrus tribuloides</i> L. | sanddune sandbur | Poaceae | grass | |
| <i>Centaurea biebersteinii</i> DC. ** | spotted knapweed | Asteraceae | aster | |
| <i>Centaurea cyanus</i> L. * | cornflower | Asteraceae | aster | |
| <i>Centaurea nigrescens</i> Willd. * | Tyrol knapweed | Asteraceae | aster | |
| <i>Cephalanthus occidentalis</i> L. | common buttonbush | Rubiaceae | bedstraw | |
| <i>Cerastium arvense</i> L. ssp. <i>strictum</i> Gaudin | field chickweed | Caryophyllaceae | pink | |
| <i>Cerastium fontanum</i> Baumg. ssp. <i>vulgare</i> (Hartman) Greuter & Burdet * | mouse-ear chickweed | Caryophyllaceae | pink | |
| <i>Cerastium glomeratum</i> Thuill. * | sticky mouse-ear chickweed | Caryophyllaceae | pink | |
| <i>Cerastium nutans</i> Raf. var. <i>nutans</i> | nodding chickweed | Caryophyllaceae | pink | |
| <i>Ceratophyllum demersum</i> L. | coon's tail | Ceratophyllaceae | hornwort | |
| <i>Cercis canadensis</i> L. var. <i>canadensis</i> | eastern redbud | Fabaceae | pea | |
| <i>Chaenorrhinum minus</i> (L.) Lange * | dwarf snapdragon or lesser toadflax | Scrophulariaceae | figwort | |
| <i>Chaerophyllum procumbens</i> (L.) Crantz var. <i>procumbens</i> | spreading chervil | Apiaceae | parsley | |
| <i>Chaerophyllum tainturieri</i> Hook. var. <i>tainturieri</i> | wild chervil | Apiaceae | parsley | |
| <i>Chamaecrista fasciculata</i> (Michx.) Greene var. <i>fasciculata</i> | partridge pea | Fabaceae | pea | |
| <i>Chamaecrista nictitans</i> (L.) Moench var. <i>nictitans</i> | sensitive partridge pea | Fabaceae | pea | |
| <i>Chamaelirium luteum</i> (L.) Gray | fairywand | Liliaceae | lily | |
| <i>Chamaesyce maculata</i> (L.) Small | spotted sandmat | Euphorbiaceae | spurge | |
| <i>Chamaesyce nutans</i> (Lagasca y Segura) Small | eyebane | Euphorbiaceae | spurge | |
| <i>Chasmanthium laxum</i> (L.) Yates | slender woodoats | Poaceae | grass | |
| <i>Cheilanthes lanosa</i> (Michx.) D.C. Eat. | hairy lipfern | Pteridaceae | maidenhair fern | |
| <i>Chelone glabra</i> L. | white turtlehead | Scrophulariaceae | figwort | |
| <i>Chenopodium album</i> L. * | lambsquarters | Chenopodiaceae | goosefoot | |
| <i>Chenopodium ambrosioides</i> L. var. <i>ambrosioides</i> * | Mexican tea | Chenopodiaceae | goosefoot | |
| <i>Chenopodium pumilio</i> R. Br. * | clammy goosefoot | Chenopodiaceae | goosefoot | |
| <i>Chimaphila maculata</i> (L.) Pursh | striped prince's pine or striped wintergreen | Pyrolaceae | wintergreen | X |
| <i>Chimaphila umbellata</i> (L.) W. Barton ssp. <i>cisatlantica</i> (Blake) Hulten | pipsissewa | Pyrolaceae | wintergreen | |
| <i>Chionanthus virginicus</i> L. | white fringe tree | Oleaceae | olive | |
| <i>Chloris virgata</i> Sw. | feather fingergrass | Poaceae | grass | |
| <i>Chrysogonum virginianum</i> L. var. <i>virginianum</i> | green and gold | Asteraceae | aster | |
| <i>Chrysopsis mariana</i> (L.) Ell. | Maryland golden aster | Asteraceae | aster | |
| <i>Chrysosplenium americanum</i> Schwein. ex Hook. | American golden saxifrage | Saxifragaceae | saxifrage | |
| <i>Cichorium intybus</i> L. * | chicory | Asteraceae | aster | |
| <i>Cicuta maculata</i> L. | water hemlock or spotted water hemlock | Apiaceae | parsley | |
| <i>Cimicifuga racemosa</i> L. var. <i>racemosa</i> or <i>Actaea racemosa</i> | black bugbane | Ranunculaceae | buttercup | |
| <i>Cinna arundinacea</i> L. | sweet woodreed | Poaceae | grass | X |
| <i>Circaea lutetiana</i> L. ssp. <i>canadensis</i> (L.) Ascherson & Magnus | broadleaf enchanter's nightshade | Onagraceae | evening primrose | |
| <i>Cirsium arvense</i> (L.) Scop. ** | Canada thistle | Asteraceae | aster | |
| <i>Cirsium discolor</i> (Muhl. ex Willd.) Spreng. | field thistle | Asteraceae | aster | |
| <i>Cirsium pumilum</i> (Nutt.) Spreng. | pasture thistle | Asteraceae | aster | |
| <i>Cirsium vulgare</i> (Savi) Ten. ** | bull thistle | Asteraceae | aster | |
| <i>Claytonia virginica</i> L. | Virginia spring beauty | Portulacaceae | purslane | |
| <i>Clematis ochroleuca</i> Ait. | curlyheads | Ranunculaceae | buttercup | |
| <i>Clematis terniflora</i> DC. ** | sweet autumn virgin's bower | Ranunculaceae | buttercup | |

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|--|---|----------------|---------------|---|
| <i>Clematis virginiana</i> L. | virgin's bower or devil's darning needles | Ranunculaceae | buttercup | |
| <i>Clinopodium calamintha</i> (L.) Stace * | lesser calaminth | Lamiaceae | mint | |
| <i>Clinopodium vulgare</i> L. | wild basil | Lamiaceae | mint | |
| <i>Clitoria mariana</i> L. | Atlantic pigeonwings or butterfly pea | Fabaceae | pea | |
| <i>Collinsonia canadensis</i> L. | horsebalm | Lamiaceae | mint | |
| <i>Comandra umbellata</i> (L.) Nuttall ssp. <i>umbellata</i> | bastard toadflax | Santalaceae | sandalwood | |
| <i>Commelina communis</i> L. ** | Asiatic dayflower | Commelinaceae | spiderwort | |
| <i>Commelina virginica</i> L. | Virginia dayflower | Commelinaceae | spiderwort | |
| <i>Comptonia peregrina</i> (L.) Coult. | sweet fern | Myricaceae | bayberry | |
| <i>Conium maculatum</i> L. ** | poison hemlock | Apiaceae | parsley | |
| <i>Conoclinium coelestinum</i> (L.) DC. | mistflower | Asteraceae | aster | |
| <i>Conopholis americana</i> (L.) Wallroth | American cancer-root or squawroot | Orobanchaceae | broom-rape | |
| <i>Convolvulus arvensis</i> L. ** | field bindweed | Convolvulaceae | morning glory | |
| <i>Conyza canadensis</i> (L.) Cronq. var. <i>canadensis</i> | Canadian horseweed | Asteraceae | aster | |
| <i>Corallorhiza odontorhiza</i> (Willd.) Nuttall var. <i>odontorhiza</i> | autumn coralroot | Orchidaceae | orchid | |
| <i>Corallorhiza wisteriana</i> Conrad | spring coralroot | orchidaceae | orchid | |
| <i>Coreopsis tripteris</i> L. | tall coreopsis | Asteraceae | aster | |
| <i>Coreopsis verticillata</i> L. | whorled tickseed | Asteraceae | aster | |
| <i>Cornus amomum</i> P. Mill. ssp. <i>amomum</i> | silky dogwood | Cornaceae | dogwood | |
| <i>Cornus florida</i> L. | flowering dogwood | Cornaceae | dogwood | X |
| <i>Cornus foemina</i> P. Mill. | stiff dogwood | Cornaceae | dogwood | |
| <i>Coronilla varia</i> L. ** | crown vetch | Fabaceae | pea | |
| <i>Corydalis flavula</i> (Raf.) DC | yellow corydalis | Fumariaceae | fumitory | |
| <i>Corylus americana</i> Walt. | American hazelnut | Betulaceae | birch | X |
| <i>Corylus cornuta</i> Marsh. ssp. <i>cornuta</i> | beaked hazelnut | Betulaceae | birch | |
| <i>Crataegus crus-galli</i> L. | cockspur hawthorn | Rosaceae | rose | |
| <i>Crataegus macrosperma</i> Ashe | bigfruit hawthorn | Rosaceae | rose | |
| <i>Crataegus pruinosa</i> (Wendl. f.) K. Koch | waxyfruit hawthorn | Rosaceae | rose | |
| <i>Crataegus uniflora</i> Muenchh. | dwarf hawthorn | Rosaceae | rose | |
| <i>Crotalaria sagittalis</i> L. | arrowhead rattlebox | Fabaceae | pea | |
| <i>Croton glandulosus</i> L. var. <i>septentrionalis</i> Muell.-Arg. | vente conmigo | Euphorbiaceae | spurge | |
| <i>Cruciata pedemontana</i> (Bellardi) Ehrend | piedmont bedstraw | Rubiaceae | madder | |
| <i>Cryptotaenia canadensis</i> (L.) DC. | Canadian honewort | Apiaceae | parsley | |
| <i>Cucurbita pepo</i> L. | field pumpkin | Cucurbitaceae | gourd | |
| <i>Cunila origanoides</i> (L.) Britt. | dittany | Lamiaceae | mint | |
| <i>Cuphea viscosissima</i> Jacq. | blue waxweed or clammy cuphea | Lythraceae | loosestrife | |
| <i>Cuscuta campestris</i> Yunker | western field dodder | Cuscutaceae | dodder | |
| <i>Cuscuta gronovii</i> Willd. | common dodder | Cuscutaceae | dodder | |
| <i>Cuscuta pentagona</i> Engelm. | fiveangled dodder | Cuscutaceae | dodder | |
| <i>Cynodon dactylon</i> (L.) Pers. var. <i>dactylon</i> * | Burmudagrass | Poaceae | grass | |
| <i>Cynoglossum virginianum</i> L. var. <i>virginianum</i> | wild comfrey | Boraginaceae | borage | |
| <i>Cyperus croceus</i> Vahl | Baldwin's flatsedge | Cyperaceae | sedge | |
| <i>Cyperus echinatus</i> (L.) Wood | globe flatsedge | Cyperaceae | sedge | |
| <i>Cyperus erythrorhizos</i> Muhlenberg | red-rooted sedge | Cyperaceae | sedge | |
| <i>Cyperus esculentus</i> L. var. <i>esculentus</i> | edible nut sedge | Cyperaceae | sedge | |
| <i>Cyperus filicinus</i> Vahl. | slender flatsedge | Cyperaceae | sedge | |
| <i>Cyperus flavescens</i> L. | yellowish sedge | Cyperaceae | sedge | |
| <i>Cyperus iria</i> L. * | ricefield flatsedge | Cyperaceae | sedge | |
| <i>Cyperus lancastris</i> Porter ex Gray | manyflower flatsedge | Cyperaceae | sedge | |
| <i>Cyperus lupulinus</i> (Sprengel) Marcks | Great Plains flatsedge | Cyperaceae | sedge | |
| <i>Cyperus odoratus</i> L. var. <i>odoratus</i> | fragrant flatsedge | Cyperaceae | sedge | |
| <i>Cyperus pseudovegetus</i> Steudel | marsh flatsedge | Cyperaceae | sedge | |
| <i>Cyperus strigosus</i> L. | strawcolored flatsedge | Cyperaceae | sedge | |
| <i>Cypripedium acaule</i> Aiton | moccasin flower or pink lady's slipper | Orchidaceae | orchid | |

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|---|-------------------------------|------------------|-------------|---|
| Cyripedium parviflorum Salisb. | lesser yellow lady's slipper | Orchidaceae | orchid | |
| Cystopteris protrusa (Weatherby) Blasdel | lowland bladderfern | Dryopteridaceae | wood fern | |
| Dactylis glomerata L. ssp. glomerata ** | orchardgrass | Poaceae | grass | |
| Danthonia spicata (L.) Beauv. ex Roemer & J.A. Schultes | poverty oatgrass | Poaceae | grass | X |
| Datura stramonium L. * | jimsonweed | Solanaceae | nightshade | |
| Datura wrightii Regel | sacred thorn-apple | Solanaceae | nightshade | |
| Daucus carota L. * | Queen Anne's lace | Apiaceae | parsley | |
| Decodon verticillatus (L.) Eil. | swamp loosestrife | Lythraceae | loosestrife | |
| Dendrolycopodium obscurum (L.) A. Haines or Lycopodium obscurum | rare clubmoss | Lycopodiaceae | club-moss | |
| Dennstaedtia punctilobula (Michx.) T. Moore | eastern hayscented fern | Dennstaedtiaceae | bracken | |
| Deparia acrostichoides (Sw.) M. Kato | silver false spleenwort | Dryopteridaceae | wood fern | |
| Deschampsia flexuosa (L.) Trin. var. flexuosa | wavy hairgrass | Poaceae | grass | |
| Desmodium canadense | showy ticktrefoil | Fabaceae | pea | |
| Desmodium ciliare (Muhl. ex Willd.) DC. var. ciliare | hairy small-leaf ticktrefoil | Fabaceae | pea | |
| Desmodium glabellum (Michx.) DC. | Dillenius' ticktrefoil | Fabaceae | pea | |
| Desmodium glutinosum (Muhl. ex Willd.) Wood | pointedleaf ticktrefoil | Fabaceae | pea | |
| Desmodium laevigatum (Nutt.) DC. | smooth ticktrefoil | Fabaceae | pea | |
| Desmodium marilandicum (L.) DC. | smooth small-leaf ticktrefoil | Fabaceae | pea | |
| Desmodium nudiflorum (L.) DC. | nakedflower ticktrefoil | Fabaceae | pea | |
| Desmodium nuttallii (Schindl.) Schub. | Nuttall's ticktrefoil | Fabaceae | pea | |
| Desmodium obtusum (Muhl. ex Willd.) DC. | stiff ticktrefoil | Fabaceae | pea | |
| Desmodium paniculatum (L.) DC. | panicledleaf ticktrefoil | Fabaceae | pea | |
| Desmodium pauciflorum (Nutt.) DC. | fewflower ticktrefoil | Fabaceae | pea | |
| Desmodium perplexum Schub. | perplexed ticktrefoil | Fabaceae | pea | |
| Desmodium rotundifolium DC. | prostrate ticktrefoil | Fabaceae | pea | |
| Dianthus armeria L. * | Deptford pink | Caryophyllaceae | pink | |
| Dicentra cucullaria (L.) Bernh. | Dutchman's breeches | Fumariaceae | fumitory | |
| Dichanthelium acuminatum (Sw.) Gould & C.A. Clark | tapered rosette grass | Poaceae | grass | |
| Dichanthelium acuminatum (Sw.) Gould & C.A. Clark var. fasciculatum (Torr.) Freckmann | western panicgrass | Poaceae | grass | |
| Dichanthelium acuminatum (Sw.) Gould & C.A. Clark var. lindheimeri (Nash) Gould & C.A. Clark | Lindheimer's panicgrass | Poaceae | grass | |
| Dichanthelium boscii (Poir.) Gould & C.A. Clark | Bosc's panicgrass | Poaceae | grass | |
| Dichanthelium clandestinum (L.) Gould | deer tongue | Poaceae | grass | X |
| Dichanthelium columbianum (Scribn.) Freckmann | hemlock rosette grass | Poaceae | grass | |
| Dichanthelium commutatum (J.A. Schultes) Gould | variable panicgrass | Poaceae | grass | |
| Dichanthelium commutatum (J.A. Schultes) Gould ssp. ashei (Pearson ex Ashe) Freckman & Lelong | variable panicgrass | Poaceae | grass | |
| Dichanthelium commutatum (J.A. Schultes) Gould var. commutatum | variable panicgrass | Poaceae | grass | |
| Dichanthelium depauperatum (Muhl.) Gould | starved panicgrass | Poaceae | grass | |
| Dichanthelium dichotomum (L.) Gould | cypress panicgrass | Poaceae | grass | |
| Dichanthelium laxiflorum (Lam.) Gould | openflower rosette grass | Poaceae | grass | |
| Dichanthelium linearifolium (Scribn.) Gould | slimleaf panicgrass | Poaceae | grass | |
| Dichanthelium microcarpon (Muhl. ex Elliott) Mohlenbrock | cypress panicgrass | Poaceae | grass | |
| Dichanthelium polyanthes (Schultes) Mohlenbrock | roundseed panicgrass | Poaceae | grass | |
| Dichanthelium scoparium (Lam.) Gould | velvet panicum | Poaceae | grass | |
| Dichanthelium sp. | panic grass | Poaceae | grass | X |
| Dichanthelium sphaerocarpon (Ell.) Gould | roundseed panicgrass | Poaceae | grass | |
| Dichanthelium yadkinense (Ashe) Mohlenbrock | cypress panicgrass | Poaceae | grass | |
| Digitaria filiformis (L.) Koeler var. filiformis | slender crabgrass | Poaceae | grass | |
| Digitaria ischaemum (Schreb.) Muhl. ** | smooth crabgrass | Poaceae | grass | |
| Diodia teres Walt. | poorjoe | Rubiaceae | madder | |

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|--|----------------------------|------------------|------------------|---|
| <i>Dioscorea polystachya</i> Turczaninow ** | Chinese yam | Dioscoreaceae | yam | |
| <i>Dioscorea villosa</i> L. var. <i>villosa</i> | wild yam | Dioscoreaceae | yam | |
| <i>Diospyros virginiana</i> L. | persimmon | Ebenaceae | ebony | X |
| <i>Diphasiastrum digitatum</i> (Dill. ex A. Braun) Holub or <i>Lycopodium digitatum</i> | fan clubmoss | Lycopodiaceae | club-moss | X |
| <i>Dipsacus fullonum</i> L. * | Fuller's teasel | Dipsacaceae | teasel | |
| <i>Doellingeria infirma</i> (Michx.) Greene | corn-leaved aster | Asteraceae | aster | |
| <i>Doellingeria umbellata</i> (P. Mill) Nees | flat-topped white aster | Asteraceae | aster | |
| <i>Draba verna</i> Linnaeus * | whitlow grass | Brassicaceae | mustard | |
| <i>Drosera rotundifolia</i> L. | roundleaf sundew | Droseraceae | sundew | |
| <i>Dryopteris carthusiana</i> (Vill.) H.P. Fuchs | spinulose woodfern | Dryopteridaceae | wood fern family | |
| <i>Dryopteris cristata</i> (L.) Gray | crested woodfern | Dryopteridaceae | wood fern family | |
| <i>Dryopteris intermedia</i> (Muhl. ex Willd.) Gray | intermediate woodfern | Dryopteridaceae | wood fern family | |
| <i>Dryopteris marginalis</i> (L.) Gray | marginal woodfern | Dryopteridaceae | wood fern family | |
| <i>Duchesnea indica</i> (Andr.) Focke * | Indian or false strawberry | Rosaceae | rose | |
| <i>Dulichium arundinaceum</i> (L.) Britton | threeway sedge | Cyperaceae | sedge | |
| <i>Echinochloa crus-galli</i> (L.) Beauv. * | barnyard grass | Poaceae | grass | |
| <i>Echinochloa muricata</i> (Beauv.) Fern. var. <i>muricata</i> | rough barnyard grass | Poaceae | grass | |
| <i>Echinocystis lobata</i> (Michx.) Torrey & A. Gray | wild cucumber | Cucurbitaceae | gourd | |
| <i>Echium vulgare</i> L. * | viper's bugloss | Boraginaceae | borage | |
| <i>Eclipta prostrata</i> (L.) L. | false daisy | Asteraceae | aster | |
| <i>Elaeagnus umbellata</i> Thunb. var. <i>parvifolia</i> (Royle) Schneid. | autumn olive | Elaeagnaceae | oleaster | X |
| <i>Eleocharis engelmannii</i> Steudel | Engelmann's spikerush | Cyperaceae | sedge | |
| <i>Eleocharis erythropoda</i> Steudel | creeping spikerush | Cyperaceae | sedge | |
| <i>Eleocharis obtusa</i> (Willd.) Schultes | blunt spikerush | Cyperaceae | sedge | |
| <i>Eleocharis quadrangulata</i> (Michaux) R. & S. | four-angled spikerush | Cyperaceae | sedge | |
| <i>Eleocharis smallii</i> Britton (palustris) | common or marsh spikerush | Cyperaceae | sedge | |
| <i>Eleocharis tenuis</i> (Willd.) Schultes | doghair, kill cow | Cyperaceae | sedge | |
| <i>Elephantopus carolinianus</i> Raeusch. | elephant's foot | Asteraceae | aster | |
| <i>Elephantopus nudatus</i> Gray | hairy elephant's foot | Asteraceae | aster | |
| <i>Elephantopus tomentosus</i> L. | woolly elephant's foot | Asteraceae | aster | |
| <i>Eleusine indica</i> (L.) Gaertn. * | Indian goosegrass | Poaceae | grass | |
| <i>Ellisia nyctelea</i> (L.) L. | Aunt Lucy | Hydrophyllaceae | waterleaf | |
| <i>Elodea canadensis</i> Michx. | Canadian waterweed | Hydrocharitaceae | frog-bit | |
| <i>Elodea nuttallii</i> (Planchon) St. John | western waterweed | Hydrocharitaceae | frog-bit | |
| <i>Elymus glaberrimus</i> (Vasey ex L.H. Dewey) Scribn. & C.R. Ball | Virginia wild rye | Poaceae | grass | |
| <i>Elymus hystrix</i> L. var. <i>hystrix</i> | bottlebrush grass | Poaceae | grass | X |
| <i>Elymus macgregorii</i> Brooks & Campbell | early wild rye | Poaceae | grass | |
| <i>Elymus repens</i> (L.) Gould ** | quackgrass | Poaceae | grass | |
| <i>Elymus riparius</i> Wieg. | river wild rye | Poaceae | grass | |
| <i>Elymus</i> sp. | wild rye | Poaceae | grass | X |
| <i>Elymus virginicus</i> L. | Virginia wild rye | Poaceae | grass | X |
| <i>Epifagus virginiana</i> (L.) W.Barton | beechnuts | Orobanchaceae | broom-rape | X |
| <i>Epigaea repens</i> L. | trailing arbutus | Ericaceae | heath | |
| <i>Epilobium coloratum</i> Biehler | purpleleaf willowherb | Onagraceae | evening primrose | |
| <i>Equisetum arvense</i> L. | field horsetail | Equisetaceae | horsetail | |
| <i>Equisetum hyemale</i> L. ssp. <i>affine</i> (Engelm.) Calder & R.L. Taylor | scouringrush horsetail | Equisetaceae | horsetail | |
| <i>Eragrostis capillaris</i> (L.) Nees | lace grass | Poaceae | grass | |
| <i>Eragrostis cilianensis</i> (All.) Vignola. ex Janchen * | stink grass | Poaceae | grass | |
| <i>Eragrostis curvula</i> (Schrad.) Nees ** | weeping lovegrass | Poaceae | grass | |
| <i>Eragrostis hypnoides</i> (Lam.) B.S.P. | teal lovegrass | Poaceae | grass | |
| <i>Eragrostis pilosa</i> (L.) Beauv. * | Indian lovegrass | Poaceae | grass | |
| <i>Eragrostis spectabilis</i> (Pursh) Steud. | purple lovegrass | Poaceae | grass | |

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|---|---|---------------|------------------------------|---|---|
| Erechtites hieraciifolia (L.) Raf. ex DC. var. hieraciifolia | pilewort or fireweed | Asteraceae | aster | | |
| Erigenia bulbosa (Michx.) Nutt. | harbinger of spring | Apiaceae | parsley | | |
| Erigeron annuus (L.) Pers. | daisy fleabane | Asteraceae | aster | | |
| Erigeron philadelphicus L. var. philadelphicus | common fleabane | Asteraceae | aster | | |
| Erigeron pulchellus Michx. var. pulchellus | Robin's plantain | Asteraceae | aster | | |
| Erigeron strigosus Muhl. ex Willd. | prairie fleabane | Asteraceae | aster | | |
| Eriocaulon parkeri B.L.Robinson | estuary pipewort | Eriocaulaceae | pipewort | | |
| Erodium cicutarium (L.) L'Her. ex Ait. ssp. cicutarium * | redstem stork's bill | Geraniaceae | geranium | | |
| Eryngium aquaticum L. var. aquaticum | rattlesnakemaster | Apiaceae | parsley | | |
| Erythronium americanum Ker-Gawl. ssp. americanum | dogtooth violet | Liliaceae | lily | | |
| Erythronium umbilicatum Parks & Hardin ssp. umbilicatum | dimpled troutlily | Liliaceae | lily | | |
| Euonymus alatus (Thunb.) Sieb. ** | burning bush | Celastraceae | staff vine or bittersweet | | X |
| Euonymus americanus L. | American euonymous or strawberry bush | Celastraceae | staff vine or bittersweet | | X |
| Euonymus atropurpureus Jacq. var. atropurpureus | eastern wahoo or hearts-bustin'-with-love | Celastraceae | staff vine or bittersweet | | |
| Euonymus fortunei | winter creeper | Celastraceae | staff vine or bittersweet | X | X |
| Eupatorium album L. | white boneset | Asteraceae | aster | | |
| Eupatorium altissimum L. | three veined boneset | Asteraceae | aster | | |
| Eupatorium fistulosum Barratt | trumpetweed or hollow-stem Joe Pye weed | Asteraceae | aster | | |
| Eupatorium hyssopifolium L. | hyssop-leaved boneset | Asteraceae | aster | | |
| Eupatorium maculatum L. var. maculatum | spotted Joe Pye weed | Asteraceae | aster | | |
| Eupatorium perfoliatum L. var. perfoliatum | common boneset | Asteraceae | aster | | |
| Eupatorium pilosum Walt. | rough boneset | Asteraceae | aster | | |
| Eupatorium pubescens Muhl. ex Willd. | hairy or round-leaved boneset | Asteraceae | aster | | |
| Eupatorium purpureum L. | sweet-scented Joe Pye weed | Asteraceae | aster | | |
| Eupatorium serotinum Michx. | late flowering boneset | Asteraceae | aster | | |
| Eupatorium sessilifolium L. | upland boneset | Asteraceae | aster | | |
| Eupatorium torreyanum Short and Peter | hyssop-leaved or Torrey's thoroughwort | Asteraceae | aster | | |
| Euphorbia corollata L. | flowering spurge | Euphorbiaceae | spurge | | |
| Euphorbia cyparissias L. * | cypress spurge | Euphorbiaceae | spurge | | |
| Euphorbia dentata Michx. var. dentata | toothed spurge | Euphorbiaceae | spurge | | |
| Euphorbia spathulata Lam. | warty spurge | Euphorbiaceae | spurge | | |
| Eurybia divaricata (L.) Nesom | white wood aster | Asteraceae | aster | | |
| Eurybia schreberi (Nees) Nees | Schreber's aster | Asteraceae | aster | | |
| Euthamia graminifolia (L.) Nutt. var. graminifolia | flat-topped goldenrod | Asteraceae | aster | | |
| Fagus grandifolia Ehrhart | American beech | Fagaceae | beech | X | X |
| Fallopia convolvulus (L.) A. Love or Polygonum convolvulus * | black bindweed | Polygonaceae | smartweed | | |
| Fallopia japonica (Houtt.) Ronse Decraene or Polygonum japonica ** | Japanese knotweed | Polygonaceae | smartweed | | |
| Fallopia sachalinense (F. Schmidt) Ronse Decraene or Polygonum s sachalinense * | giant knotweed | Polygonaceae | smartweed | | |
| Fallopia scandens (L.) Holub or Polygonum scandens | climbing false buckwheat | Polygonaceae | smartweed | | |
| Festuca arundinacea Schreb. ** | tall fescue | Poaceae | grass | | |
| Festuca subverticillata (Pers.) Alexeev | nodding fescue | Poaceae | grass | | |
| Filago vulgaris Lam. * | common cudweed or common cottonrose | Asteraceae | aster | | |
| Fimbristylis autumnalis (L.) R. & S. | slender fimbry | Cyperaceae | sedge | | |
| Floerkea proserpinacoides Willd. | false mermaidweed | Limnathaceae | meadow foam | | |
| Forsythia x intermedia * | showy forsythia | Oleaceae | olive | | |
| Fragaria virginiana Duchesne | Virginia strawberry | Rosaceae | rose | | |
| Fraxinus americana L. | white ash | Oleaceae | olive | X | |
| Fraxinus nigra Marshall | black or hoop ash | Oleaceae | olive | | |
| Fraxinus pennsylvanica Marshall | green ash | Oleaceae | olive | | X |

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| Fraxinus profunda (Bush) Bush | pumpkin ash | Oleaceae | olive |
| Galactia volubilis (L.) Britt. | downy milkpea | Fabaceae | pea |
| Galearis spectabilis (L.) Raf. | showy orchis | Orchidaceae | orchid |
| Galinsoga parviflora Cav. * | Peruvian daisy | Asteraceae | aster |
| Galinsoga quadriradiata Ruiz & Pavon * | raceweed | Asteraceae | aster |
| Galium aparine L. | cleavers bedstraw or stickywilly | Rubiaceae | madder |
| Galium circaezans Michx. | licorice bedstraw | Rubiaceae | madder |
| Galium concinnum Torr. & Gray | shining bedstraw | Rubiaceae | madder |
| Galium latifolium Michx. | purple bedstraw | Rubiaceae | madder |
| Galium mollugo L. * | false baby's breath | Rubiaceae | madder |
| Galium obtusum Bigelow var. obtusum | bluntleaf bedstraw | Rubiaceae | madder |
| Galium obtusum Bigelow var. var. filifolium (Wieg.) Fern. | bluntleaf bedstraw | Rubiaceae | madder |
| Galium pilosum Ait. | hairy bedstraw | Rubiaceae | madder |
| Galium tinctorium (L.) Scop. | stiff marsh bedstraw | Rubiaceae | madder |
| Galium triflorum Michx. | fragrant bedstraw | Rubiaceae | madder |
| | spoonleaf purple everlasting or purple | | |
| Gamochaeta purpurea (L.) Cabrera | cudweed | Asteraceae | aster |
| Gaultheria procumbens L. | eastern teaberry | Ericaceae | heath |
| Gaura biennis L. | biennial beeblossom | Onagraceae | evening primrose |
| Gaylussacia baccata (Wangenh.) K. Koch | black huckleberry | Ericaceae | heath |
| Gaylussacia frondosa (L.) Torr. & Gray ex Torr. | blue huckleberry | Ericaceae | heath |
| Gentiana clausa Raf. | bottle or closed gentian | Gentianaceae | gentian |
| Gentiana saponaria L. | harvestbells | Gentianaceae | gentian |
| Gentiana villosa L. | striped gentian | Gentianaceae | gentian |
| Geranium carolinianum L. var. carolinianum | Carolina geranium | Geraniaceae | geranium |
| Geranium columbinum L. * | longstalk cranesbill | Geraniaceae | geranium |
| Geranium dissectum | cutleaf cranesbill | Geraniaceae | geranium |
| Geranium maculatum L. | spotted or wild geranium | Geraniaceae | geranium |
| Geum canadense Jacquin var. canadense | white avens | Rosaceae | rose |
| Geum virginianum L. | cream avens | Rosaceae | rose |
| Glechoma hederacea L. ** | ground ivy | Lamiaceae | mint |
| Gleditsia triacanthos L. | honeylocust | Fabaceae | pea |
| Glyceria melicaria (Michx.) F.T. Hubbard | melic mannagrass | Poaceae | grass |
| Glyceria septentrionalis A.S. Hitchc. | floating mannagrass | Poaceae | grass |
| Glyceria striata (Lam.) A.S. Hitchc. | fowl mannagrass | Poaceae | grass |
| Goodyera pubescens (Willd.) R.Br. ex Aiton f. | downy rattlesnake plantain | Orchidaceae | orchid |
| Gratiola neglecta Torr. | clammy hedgehyssop | Scrophulariaceae | figwort |
| Gratiola viscidula Pennell | Short's hedgehyssop | Scrophulariaceae | figwort |
| Hackelia virginiana (L.) I.M.Johnston | Virginia stickseed | Boraginaceae | borage |
| Hamamelis virginiana L. | witch hazel | Hamamelidaceae | witch hazel |
| Hedeoma pulegioides (L.) Pers. | American pennyroyal | Lamiaceae | mint |
| Hedera helix L. ** | English ivy | Araliaceae | ginseng |
| Helenium autumnale L. var. autumnale | autumn sneezeweed | Asteraceae | aster |
| Helenium flexuosum Raf. | sneezeweed | Asteraceae | aster |
| Helianthemum canadense (L.) Michx. | longbranch frostweed | Cistaceae | rock rose |
| Helianthus atrorubens L. | purple disk flower | Asteraceae | aster |
| Helianthus decapetalus L. | thin-leaved sunflower | Asteraceae | aster |
| Helianthus divaricatus L. | woodland sunflower | Asteraceae | aster |
| Helianthus giganteus L. | giant sunflower | Asteraceae | aster |
| Helianthus grosseserratus Martens | sawtoothed sunflower | Asteraceae | aster |
| Helianthus laevigatus Torr. & Gray | smooth sunflower | Asteraceae | aster |
| Helianthus maximiliani Schrad. | Maximilian's sunflower | Asteraceae | aster |
| Helianthus microcephalus Torr. & Gray | small-headed sunflower | Asteraceae | aster |
| Helianthus strumosus L. | rough-leaved sunflower | Asteraceae | aster |

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|---|--------------------------------------|------------------|----------------|---|---|
| Helianthus tuberosus L. | Jerusalem artichoke | Asteraceae | aster | | |
| Heliopsis helianthoides (L.) Sweet var. helianthoides | smooth oxeye, false sunflower | Asteraceae | aster | | |
| Hemerocallis fulva (L.) L. * | orange daylily | Liliaceae | lily | | |
| Hepatica americana (DC.) Ker-Gawl. | roundlobe hepatica | Ranunculaceae | buttercup | | |
| Hesperis matronalis Linnaeus ** | dame's rocket | Brassicaceae | mustard | | |
| Heteranthera dubia (Jacquin) MacMillan | grassleaf mudplantain | Pontederiaceae | water-hyacinth | | |
| Heteranthera reniformis Ruiz & Pavon | kidneyleaf mudplantain | Pontederiaceae | water-hyacinth | | |
| Heuchera americana L. var. americana | American alumroot | Saxifragaceae | saxifrage | | |
| Heuchera pubescens Pursh | downy alumroot | Saxifragaceae | saxifrage | | |
| Hexastylis virginica (L.) Small | Virginia heartleaf | Aristolochiaceae | birthwort | | |
| Hibiscus moscheutos L. | crimson-eyed rosemallow | Malvaceae | mallow | | |
| Hibiscus syriacus L. ** | rose of Sharon | Malvaceae | mallow | | |
| Hibiscus trionum L. * | flour of an hour | Malvaceae | mallow | | |
| Hieracium caespitosum Dumort. * | meadow hawkweed | Asteraceae | aster | | |
| Hieracium gronovii L. | hairy hawkweed | Asteraceae | aster | | |
| Hieracium paniculatum L. | panicled hawkweed | Asteraceae | aster | | |
| Hieracium pilosella L. var. pilosella * | mouse ear hawkweed | Asteraceae | aster | | |
| Hieracium scabrum Michx. var. scabrum | rough hawkweed | Asteraceae | aster | | |
| Hieracium venosum L. | rattlesnake hawkweed | Asteraceae | aster | | |
| Holcus lanatus L. ** | common velvetgrass | Poaceae | grass | | |
| Holosteum umbellatum L. * | jagged chickweed | Caryophyllaceae | pink | | |
| Hordeum pusillum Nutt. | little barley | Poaceae | grass | | |
| Houstonia caerulea L. | azure bluet | Rubiaceae | madder | | |
| Houstonia longifolia Gaertn. | longleaf summer bluet | Rubiaceae | madder | | |
| Houstonia purpurea L. | Venus' pride | Rubiaceae | madder | | |
| Houstonia tenuifolia | narrow-leaved houstonia | Rubiaceae | madder | | |
| Humulus japonicus ** | Japanese hops | Cannabaceae | hemp | | |
| Huperzia lucidula (Michx.) Trevisan | shining clubmoss | Lycopodiaceae | club-moss | | |
| Hybanthus concolor (T.F. Forst.) Spreng. | eastern green-violet | Violaceae | violet | | |
| Hydrangea arborescens L. | wild hydrangea | Hydrangeaceae | hydrangea | | |
| Hydrilla verticillata (L.f.) Royle ** | waterhyme or hydrilla | Hydrocharitaceae | frog-bit | | |
| Hydrocotyle americana L. | water pennywort | Apiaceae | parsley | | |
| Hydrocotyle ranunculoides L. f. | floating water pennywort | Apiaceae | parsley | | |
| Hydrophyllum virginianum L. | eastern waterleaf | Hydrophyllaceae | waterleaf | | |
| Hylotelephium telephioides (Michx.) H. Ohba | Allegheny stonecrop | Crassulaceae | stonecrop | | |
| Hylotelephium telephium (L.) H. Ohba | witch's moneybags | Crassulaceae | stonecrop | | |
| Hypericum canadense L. | lesser Canadian St. Johnswort | Clusiaceae | St. Johnswort | | |
| Hypericum crux-andreae (L.) Crantz | St. Peter's wort | Clusiaceae | St. Johnswort | | |
| Hypericum gentianoides (L.) B.S.P. | orangegrass | Clusiaceae | St. Johnswort | | |
| Hypericum gymnanthum Engelm. & A. Gray | clasping St. Johnswort | Clusiaceae | St. Johnswort | | |
| Hypericum hypericoides (L.) Crantz var. hypericoides | St. Andrew's cross | Clusiaceae | St. Johnswort | | |
| Hypericum mutilum L. | dwarf St. Johnswort | Clusiaceae | St. Johnswort | | |
| Hypericum perforatum L. * | common St. Johnswort | Clusiaceae | St. Johnswort | | |
| Hypericum prolificum L. | shrubby St. Johnswort | Clusiaceae | St. Johnswort | | |
| Hypericum punctatum Lam. | spotted St. Johnswort | Clusiaceae | St. Johnswort | | |
| Hypochaeris radicata L. * | hairy cat's ear | Asteraceae | aster | | |
| Hypoxis hirsuta (L.) Coville | common goldstar or yellow star grass | Liliaceae | lily | | |
| Ilex opaca Aiton var. opaca | American holly | Aquifoliaceae | holly | X | X |
| Ilex verticillata (L.) Gray | winterberry holly | Aquifoliaceae | holly | | |
| Impatiens capensis Meerburg | jewelweed, spotted touch-me-not | Balsaminaceae | touch-me-not | | |
| Ionactis linariifolius (L.) Greene | flaxleaf whitetop aster | Asteraceae | aster | | |
| Ipomoea coccinea L. ** | redstar | Convolvulaceae | morning glory | | |
| Ipomoea hederacea Jacq. ** | ivyleaf morning glory | Convolvulaceae | morning glory | | |
| Ipomoea lacunosa L. | whitestar | Convolvulaceae | morning glory | | |

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|---|--|------------------|---------------|---|---|
| <i>Ipomoea pandurata</i> (L.) G.F.W. Mey. | man-of-the-earth | Convolvulaceae | morning glory | | |
| <i>Ipomoea purpurea</i> (L.) Roth ** | tall morning glory | Convolvulaceae | morning glory | | |
| <i>Iris cristata</i> Solander ex Aiton | dwarf crested iris | Iridaceae | iris | | |
| <i>Iris pseudacorus</i> L. ** | paleyellow iris | Iridaceae | iris | | |
| <i>Iris versicolor</i> | blue flag iris or harlequin blueflag | Iridaceae | iris | | |
| <i>Iris virginica</i> L. | Virginia or southern blue flag iris | Iridaceae | iris | | |
| <i>Isatis tinctoria</i> Linnaeus | Dyer's woad | Brassicaceae | mustard | | |
| <i>Isoetes appalachiana</i> Brunton and Britton | Appalachian quillwort | Isoetaceae | quillwort | | |
| <i>Isoetes engelmannii</i> A. Braun | Appalachian quillwort | Isoetaceae | quillwort | | |
| <i>Isoetes valida</i> (Engelm.) Clute | strong quillwort | Isoetaceae | quillwort | | |
| <i>Isotria medeoloides</i> (Pursh) Raf. | small whorled pagonia | Orchidaceae | orchid | | |
| <i>Isotria verticillata</i> (Muhl. ex Willd.) Raf. | large whorled pagonia | Orchidaceae | orchid | | |
| <i>Itea virginica</i> L. | Virginia sweetspire | Grossulariaceae | gooseberry | | |
| <i>Iva annua</i> L. var. <i>annua</i> | annual marsh elder | Asteraceae | aster | | |
| <i>Iva xanthifolia</i> Nutt. | bur-reed marsh elder | Asteraceae | aster | | |
| <i>Jeffersonia diphylla</i> (L.) Pers. | twingleaf | Berberidaceae | barberry | | |
| <i>Juglans nigra</i> L. | black walnut | Juglandaceae | walnut | X | X |
| <i>Juncus acuminatus</i> Michx. | tapertip rush | Juncaceae | rush | | |
| <i>Juncus biflorus</i> Ell. | bog rush | Juncaceae | rush | | |
| <i>Juncus brachycarpus</i> Engelm. | whiteroot rush | Juncaceae | rush | | |
| <i>Juncus bufonius</i> L. | toad rush | Juncaceae | rush | | |
| <i>Juncus canadensis</i> J. Gay ex Laharpe | Canadian rush | Juncaceae | rush | | |
| <i>Juncus dichotomus</i> Ell. | forked rush | Juncaceae | rush | | |
| <i>Juncus diffusissimus</i> Buckl. | slimpod rush | Juncaceae | rush | | |
| <i>Juncus effusus</i> L. | common rush | Juncaceae | rush | | |
| <i>Juncus marginatus</i> Rostk. | grassleaf rush | Juncaceae | rush | | |
| <i>Juncus roemerianus</i> Scheele | needlegrass rush | Juncaceae | rush | | |
| <i>Juncus scirpoides</i> Lam. | needlepod rush | Juncaceae | rush | | |
| <i>Juncus secundus</i> Beauv. ex Poir. | lopsided rush | Juncaceae | rush | | |
| <i>Juncus subcaudatus</i> (Engelm.) Coville & Blake var. <i>subcaudatus</i> | woodland rush | Juncaceae | rush | | |
| <i>Juncus tenuis</i> Willd. | poverty rush | Juncaceae | rush | | X |
| <i>Juniperus virginiana</i> L. var. <i>virginiana</i> | eastern red cedar | Juncaceae | rush | | X |
| <i>Justicia americana</i> (L.)Vahl | American water willow | Acanthaceae | acanthus | | |
| <i>Kalmia latifolia</i> L. | mountain laurel | Ericaceae | heath | | |
| <i>Kickxia elatine</i> (L.) Dumort. * | sharpleaf cancerwort | Scrophulariaceae | figwort | | |
| <i>Kochia scoparia</i> (L.) Schrader * | kochia or fireweed | Chenopodiaceae | goosefoot | | |
| <i>Kosteletzkya virginica</i> (L.) K. Presl ex Gray | Virginia saltmarsh mallow | Malvaceae | mallow | | |
| <i>Krigia dandelion</i> (L.) Nutt. | potato dwarf dandelion | Asteraceae | aster | | |
| <i>Krigia virginica</i> (L.) Willd. | Virginia dwarf dandelion | Asteraceae | aster | | |
| <i>Kummerowia stipulacea</i> (Maxim.) Makino * | Korean clover | Fabaceae | pea | | |
| <i>Kummerowia striata</i> (Thunb.) Schindl. * | Japanese clover | Fabaceae | pea | | |
| <i>Kyllinga pumila</i> Michaux | low spikesedge | Cyperaceae | sedge | | |
| <i>Lactuca biennis</i> (Moench) Fern. | tall blue lettuce | Asteraceae | aster | | |
| <i>Lactuca canadensis</i> L. | wild lettuce | Asteraceae | aster | | |
| <i>Lactuca floridana</i> (L.) Gaertn. | Florida blue lettuce | Asteraceae | aster | | |
| <i>Lactuca hirsuta</i> Muhl. ex Nutt. | hairy lettuce | Asteraceae | aster | | |
| <i>Lactuca saligna</i> L. * | willow lettuce | Asteraceae | aster | | |
| <i>Lactuca serriola</i> L. * | prickly leaf lettuce | Asteraceae | aster | | |
| <i>Lamium amplexicaule</i> L. * | henbit | Lamiaceae | mint | | |
| <i>Lamium purpureum</i> L. * | purple dead nettle | Lamiaceae | mint | | |
| <i>Laportea canadensis</i> (L.) Weddell | Canadian woodnettle | Urticaceae | nettle | | |
| <i>Lathyrus latifolius</i> L. * | perennial pea or everlasting sweet pea | Fabaceae | pea | | |
| <i>Lechea pulchella</i> Raf. | Leggett's pinweed | Cistaceae | rock rose | | |

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|--|--|------------------|------------------|---|
| Lechea pulchella Raf. var. pulchella | Leggett's pinweed | Cistaceae | rock rose | |
| Lechea racemulosa Michx. | Illinois pinweed | Cistaceae | rock rose | |
| Leersia oryzoides (L.) Sw. | marsh cutgrass | Poaceae | grass | |
| Leersia virginica Willd. | whitegrass or Virginia whitegrass | Poaceae | grass | |
| Lemna valdiviana Phil. | valdivia | Lemnaceae | duckweed | |
| Leonurus cardiaca L. ssp. cardiaca * | motherwort | Lamiaceae | mint | |
| Lepidium campestre (Linnaeus) R. Brown * | field peppergrass | Brassicaceae | mustard | |
| Lepidium virginicum Linnaeus var. virginicum | Virginia peppergrass | Brassicaceae | mustard | |
| Lespedeza bicolor Turcz. ** | shrub lespedeza | Fabaceae | pea | |
| Lespedeza capitata Michx. | roundhead lespedeza | Fabaceae | pea | |
| Lespedeza cuneata (Dum.-Cours.) G. Don ** | Chinese or sericea lespedeza | Fabaceae | pea | |
| Lespedeza hirta (L.) Hornemann | hairy lespedeza | Fabaceae | pea | |
| Lespedeza hirta (L.) Hornemann ssp. hirta | hairy lespedeza | Fabaceae | pea | |
| Lespedeza intermedia (S. Wats.) Britt. | wand bush clover | Fabaceae | pea | |
| Lespedeza procumbens Michx. | trailing bush clover or trailing lespedeza | Fabaceae | pea | |
| Lespedeza repens (L.) W. Bart. | creeping bush clover | Fabaceae | pea | |
| Lespedeza violacea (L.) Pers. | violet lespedeza | Fabaceae | pea | |
| Lespedeza virginica (L.) Britt. | slender lespedeza | Fabaceae | pea | |
| Leucanthemum vulgare Lam. * | oxeye daisy | Asteraceae | aster | |
| Leucojum aestivum L. ssp. aestivum * | summer snowflake | Liliaceae | lily | |
| Leucothoe racemosa (L.) Gray | swamp doghobble | Ericaceae | heath | |
| Liatrix squarrosa (L.) Michx. var. squarrosa | rough-leaved blazing star | Asteraceae | aster | |
| Ligustrum obtusifolium Sieb. & Zucc. * | border privet | Oleaceae | olive | |
| Ligustrum sinense Louriere ** | Chinese privet | Oleaceae | olive | X |
| Ligustrum vulgare L. * | European privet | Oleaceae | olive | |
| Lilium canadense L. | Canada lily | Liliaceae | lily | |
| Lilium superbum L. | turk's-cap lily | Liliaceae | lily | |
| Linaria vulgaris P. Mill. * | butter and eggs | Scrophulariaceae | figwort | |
| Lindera benzoin (L.) Blume | spicebush | Lauraceae | laurel | |
| Lindernia dubia (L.) Pennell var. anagallidea (Michx.) Cooperrider | yellowseed false pimpernel | Scrophulariaceae | figwort | |
| Lindernia dubia (L.) Pennell var. dubia | yellowseed false pimpernel | Scrophulariaceae | figwort | |
| Linum medium (Planch.) Britton var. texanum (Planch.) Fern. | stiff yellow flax | Linaceae | flax | |
| Linum striatum Walt. | ridged yellow flax | Linaceae | flax | |
| Linum virginianum L. | woodland flax | Linaceae | flax | |
| Liparis liliifolia (L.) L.C.Rich. ex Ker-Gawl. | lily-leaved twayblade | Orchidaceae | orchid | |
| Liquidambar styraciflua L. | sweetgum | Hamamelidaceae | witch hazel | X |
| Liriodendron tulipifera L. | American tulip tree or tulip tree | Magnoliaceae | magnolia | X |
| Lithospermum canescens (Michx.) Lehm. | corn gromwell | Boraginaceae | borage | |
| Lobelia cardinalis L. var. cardinalis | cardinal flower | Campanulaceae | bellflower | |
| Lobelia inflata L. | Indian tobacco | Campanulaceae | bellflower | |
| Lobelia puberula Michaux | downy lobelia | Campanulaceae | bellflower | |
| Lobelia siphilitica L. var. siphilitica | great blue lobelia | Campanulaceae | bellflower | |
| Lobelia spicata Lam. | pale spiked lobelia | Campanulaceae | bellflower | |
| Lolium perenne | Italian ryegrass | Poaceae | grass | |
| Lonicera japonica Thunb. ** | Japanese honeysuckle | Caprifoliaceae | honeysuckle | X |
| Lonicera maackii (Rupr.) Maximowicz ** | Amur honeysuckle | Caprifoliaceae | honeysuckle | X |
| Lonicera morrowii Gray ** | Marrow's honeysuckle | Caprifoliaceae | honeysuckle | |
| Lonicera sempervirens L. | trumpet honeysuckle | Caprifoliaceae | honeysuckle | |
| Lonicera tatarica L. ** | Tartarian honeysuckle | Caprifoliaceae | honeysuckle | |
| Lotus corniculatus L. ** | birdsfoot trefoil | Fabaceae | pea | |
| Lotus tenuis Waldst. & Kit. ex Willd. * | narrowleaf birdsfoot trefoil | Fabaceae | pea | |
| Ludwigia alternifolia L. | seedbox | Onagraceae | evening primrose | |
| Ludwigia decurrens Walter | wingleaf primrose-willow | Onagraceae | evening primrose | |

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|---|---|------------------|------------------|---|
| Ludwigia leptocarpa (Nuttall) Hara | anglestem primrose-willow | Onagraceae | evening primrose | |
| Ludwigia palustris (L.) Elliott | marsh seedbox | Onagraceae | evening primrose | |
| Ludwigia peploides (H.B.K.) Raven var. glabrescens (Kuntze)Shinners * | floating primrose-willow | Onagraceae | evening primrose | |
| Lupinus perennis L. ssp. perennis | sundial lupine | Fabaceae | pea | |
| Luzula acuminata Raf. | hairy woodrush | Juncaceae | rush | |
| Luzula bulbosa (Wood) Smyth & Smyth | bulbous woodrush | Juncaceae | rush | |
| Luzula echinata (Small) F.J. Hermann | hedghog woodrush | Juncaceae | rush | |
| Luzula multiflora (Ehrhart) Lejeune ssp. multiflora | common woodrush | Juncaceae | rush | |
| Lycopodiella appressa (Chapman) Cranfill | southern bog clubmoss | Lycopodiaceae | club-moss | |
| Lycopodiella inundata (L.) Holub | inundated clubmoss | Lycopodiaceae | club-moss | |
| Lycopodium clavatum L. | running clubmoss | Lycopodiaceae | club-moss | |
| Lycopus americanus Muhl. ex W. Bart. | American water horehound | Lamiaceae | mint | |
| Lycopus rubellus Moench | taperleaf water horehound | Lamiaceae | mint | |
| Lycopus virginicus L. | Virginia water horehound | Lamiaceae | mint | |
| Lyonia ligustrina (L.) DC. var. ligustrina | maleberry | Ericaceae | heath | |
| Lysimachia ciliata L. | fringed loosestrife | Lythraceae | loosestrife | |
| Lysimachia nummularia L. ** | creeping jenny | Lythraceae | loosestrife | |
| Lysimachia quadrifolia L. | fourflower yellow loosestrife | Lythraceae | loosestrife | |
| Lysimachia terrestris (L.) B.S.P. | earth loosestrife | Lythraceae | loosestrife | |
| Lythrum salicaria L. ** | purple loosestrife | Lythraceae | loosestrife | |
| Maclura pomifera (Raf.) Schneid. * | osage orange | Moraceae | mulberry | |
| Magnolia grandiflora | southern magnolia | Magnoliaceae | magnolia | |
| Magnolia virginiana L. | sweetbay | Magnoliaceae | magnolia | |
| Maianthemum canadense Desf. | Canada mayflower | Liliaceae | lily | |
| Maianthemum racemosum (L.) Link ssp. racemosum | false solomon's seal or feathery false lily-of-the-valley | Liliaceae | lily | |
| Malaxis unifolia Michaux | green adder's-mouth orchid | Orchidaceae | orchid | |
| Malus angustifolia (Aiton) Michx. | southern crab apple | Rosaceae | rose | |
| Malus coronaria (L.) P. Mill. | sweet crab apple | Rosaceae | rose | |
| Malus pumila P. Mill. ** | paradise apple | Rosaceae | rose | |
| Malva neglecta Walther * | common mallow | Malvaceae | mallow | |
| Matricaria discoidea DC. * | pineapple weed | Asteraceae | aster | |
| Medeola virginiana L. | Indian cucumber | Liliaceae | lily | |
| Medicago lupulina L. * | black medic | Fabaceae | pea | |
| Medicago sativa L. * | alfalfa | Fabaceae | pea | |
| Melica mutica Walt. | twoflower melicgrass | Poaceae | grass | |
| Melilotus albus Medikus ** | white sweet clover | Fabaceae | pea | |
| Melilotus officinalis (L.) Lam. ** | yellow sweet clover | Fabaceae | pea | |
| Menispermum canadense L. | common moonseed | Menispermaceae | moonseed | |
| Mentha arvensis L. | wild mint | Lamiaceae | mint | |
| Mentha x piperita L. * | peppermint | Lamiaceae | mint | |
| Mertensia virginica (L.) Pers. ex Link | Virginia bluebells | Boraginaceae | borage | |
| Microstegium vimineum (Trin.) A. Camus ** | Nepalese browntop or Japanese stiltgrass | Poaceae | grass | X |
| Microthlaspi perfoliatum(Linnaeus) F. K. Meyer * | claspleaf pennycress | Brassicaceae | mustard | |
| Mikania scandens (L.) Willd. | climbing hempweed | Asteraceae | aster | |
| Mimulus alatus Aiton | sharpwing monkeyflower | Scrophulariaceae | figwort | |
| Mimulus ringens L. | Allegheny monkeyflower | Scrophulariaceae | figwort | |
| Mirabilis nyctaginea (Michx.) MacM. * | heartleaf four o'clock | Nyctaginaceae | four o'clock | |
| Miscanthus sinensis Anders. ** | Chinese silvergrass | Poaceae | grass | X |
| Mitchella repens L. | partridgeberry | Rubiaceae | madder | X |
| Mitella diphylla L. | twoleaf miterwort | Saxifragaceae | saxifrage | |
| Mollugo verticillata L. * | green carpetweed | Molluginaceae | carpet-weed | |
| Monarda punctata L. var. punctata | dotted horsemint | Lamiaceae | mint | |

Monotropa hypopithys L.
 Monotropa uniflora L.
 Morus alba L. **
 Morus rubra L.
 Muhlenbergia frondosa (Poir.) Fern.
 Muhlenbergia mexicana (L.) Trin.
 Muhlenbergia schreberi J.F. Gmel.
 Muhlenbergia sobolifera (Muhl. ex Willd.) Trin.
 Muhlenbergia sylvatica (Torr.) Torr. ex Gray
 Muhlenbergia tenuiflora (Willd.) B.S.P.
 Murdannia keisak (Hasskarl) Handel-Mazzetti **
 Muscari neglectum Guss. ex Ten. *
 Myosotis discolor Pers. *
 Myosotis laxa Lehm.
 Myosotis macrosperma Engelm.
 Myosotis scorpioides L.
 Myosotis stricta Link ex Roemer & J.A.Schultes
 Myosotis verna Nutt.
 Myrica cerifera L.
 Myriophyllum aquaticum (Vell.) Verdc. **
 Myriophyllum spicatum L. **
 Najas gracillima (A. Braun ex Engelm.) Magnus
 Narcissus poeticus L. *
 Nelumbo lutea Willd.
 Nepeta cataria L. *
 Nuphar advena (Aiton) W.T. Aiton or N. lutea
 Nuttallanthus canadensis (L.) D.A. Sutton
 Nyssa sylvatica Marshall
 Obolaria virginica L.
 Oenothera biennis L. complex
 Oenothera fruticosa L. ssp. fruticosa
 Oenothera fruticosa L. ssp. glauca (Michx.) Straley
 Oenothera laciniata Hill
 Onoclea sensibilis L.
 Ophioglossum vulgatum L.
 Opuntia humifusa (Raf.) Raf. var. humifusa
 Ornithogalum umbellatum L. *
 Orobanche uniflora L.
 Orontium aquaticum L.
 Osmorhiza longistylis (Torr.) DC.
 Osmunda cinnamomea L. var. cinnamomea
 Osmunda claytoniana L.
 Osmunda regalis L. var. spectabilis (Willd.) Gray
 Ostrya virginiana (P.Mill.) K.Koch
 Oxalis florida Salisbury ssp. florida
 Oxalis fontana L. var. fontana *
 Oxalis grandis
 Oxalis stricta L.
 Oxalis violacea L.
 Oxypolis rigidior (L.) Raf.
 Packeria anonyma (Wood) W.A. Weber & A. Love
 Packeria aurea (L.) A. & D. Love
 Packeria paupercula (Michx.) A. & D. Love
 Panax quinquefolius L.

pinesap
 Indianpipe
 white mulberry
 red mulberry
 wirestem muhly
 Mexican muhly
 nimblewill
 rock muhly
 woodland muhly
 slender muhly
 watermoving herb
 starch grape hyacinth
 changing forget-me-not
 small forget-me-not
 white forget-me-not
 forget-me-not
 strict forget-me-not
 spring forget-me-not
 wax myrtle
 parrot feather watermilfoil
 Eurasian watermilfoil
 slender water nymph
 poet's narcissus
 American lotus
 catnip
 spatterdock or yellow pond lily
 Canada toadflax
 blackgum
 Virginia pennywort
 common evening primrose
 narrowleaf evening primrose
 narrowleaf evening primrose
 cutleaf evening primrose
 sensitive fern
 southern adderstongue
 prickly pear cactus
 sleepydick or Star of Bethlehem
 oneflowered broomrape
 goldenclub
 sweet chervil
 cinnamon fern
 interrupted fern
 royal fern
 hop hornbeam
 yellow wood sorrel
 wood sorrel (Scandinavian)
 great wood sorrel
 common yellow oxalis
 violet wood sorrel
 cowbane
 Small's ragwort
 golden ragwort
 balsam ragwort or balsam groundsel
 ginseng

Ericaceae heath
 Ericaceae heath
 Moraceae mulberry
 Moraceae mulberry
 Poaceae grass
 Poaceae grass
 Poaceae grass
 Poaceae grass
 Poaceae grass
 Poaceae grass
 Commelinaceae spiderwort
 Liliaceae lily
 Boraginaceae borage
 Boraginaceae borage
 Boraginaceae borage
 Boraginaceae borage
 Boraginaceae borage
 Boraginaceae borage
 Myricaceae bayberry
 Haloragaceae □ water milfoil
 Haloragaceae □ water milfoil
 Najadaceae water-nymph
 Liliaceae lily
 Nelumbonaceae lotus-lily
 Lamiaceae mint
 Nymphaeaceae water lily
 Scrophulariaceae figwort
 Cornaceae dogwood
 Gentianaceae gentian
 Onagraceae evening primrose
 Onagraceae evening primrose
 Onagraceae evening primrose
 Onagraceae evening primrose
 Onagraceae evening primrose
 Dryopteridaceae wood fern
 Ophioglossaceae adder's tongue
 Cactaceae cactus
 Liliaceae lily
 Orobanchaceae broom-rape
 Araceae arum
 Apiaceae parsley
 Osmundaceae royal fern
 Osmundaceae royal fern
 Osmundaceae royal fern
 Betulaceae birch
 Oxalidaceae wood sorrel
 Oxalidaceae wood sorrel
 Oxalidaceae wood sorrel
 Oxalidaceae wood sorrel
 Oxalidaceae wood sorrel
 Apiaceae parsley
 Asteraceae aster
 Asteraceae aster
 Asteraceae aster
 Araliaceae ginseng

X

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|--|--|------------------|----------------|
| Panax trifolius L. | dwarf ginseng | Araliaceae | ginseng |
| Panicum anceps Michx. | beaked panicgrass | Poaceae | grass |
| Panicum capillare L. ssp. capillare | witchgrass | Poaceae | grass |
| Panicum dichotomiflorum Michx. | fall panicgrass | Poaceae | grass |
| Panicum philadelphicum Bernh. ex Trin. | Philidelphia panicgrass | Poaceae | grass |
| Panicum rigidulum Nees | redtop panicgrass | Poaceae | grass |
| Panicum verrucosum Muhl. | warty panicgrass | Poaceae | grass |
| Panicum virgatum L. | switch grass | Poaceae | grass |
| Papaver dubium L. * | blindeyes | Papaveraceae | poppy |
| Parietaria pensylvanica Muhl. ex Willd. | Pennsylvania pellitory | Urticaceae | nettle |
| Paronychia canadensis (L.) Wood | forked chickweed | Caryophyllaceae | pink |
| Paronychia fastigiata (Raf.) Fern. | hairy forked nailwort | Caryophyllaceae | pink |
| Parthenocissus quinquefolia (L.) Planch. | Virginia creeper | Vitaceae | grape |
| Paspalum floridanum Michx. | Florida paspal | Poaceae | grass |
| Paspalum laeve Michx. | field paspalum | Poaceae | grass |
| Paspalum repens P.J. Bergius | water paspalum | Poaceae | grass |
| Paspalum setaceum Michx. | thin paspalum | Poaceae | grass |
| Passiflora incarnata L. | purple passionflower | Passifloraceae | passion flower |
| Paulownia tomentosa (Thunb.) Steud. ** | princesstree | Scrophulariaceae | figwort |
| Peltandra virginica (L.) Schott | green arrow arum | Araceae | arum |
| Penstemon canescens (Britt.) Britt. | eastern gray beardtongue | Scrophulariaceae | figwort |
| Penstemon digitalis Nutt. ex Sims | talus slope penstemon | Scrophulariaceae | figwort |
| Penstemon hirsutus (L.) Willd. | hairy beardtongue | Scrophulariaceae | figwort |
| Penstemon laevigatus (L.) Aiton | eastern smooth beardtongue | Scrophulariaceae | figwort |
| Penstemon pallidus Small * | pale beardtongue | Scrophulariaceae | figwort |
| Penthorum sedoides L. | ditch stonecrop | Crassulaceae | stonecrop |
| Perilla frutescens (L.) Britt. ** | Perilla or beefsteak plant | Lamiaceae | mint |
| Persicaria arifolia (L.) Haralson | halberdleaf tearthumb | Polygonaceae | smartweed |
| Persicaria hydropiper (L.) Spach | marshpepper knotweed | Polygonaceae | smartweed |
| Persicaria hydropiperoides (Michx.) Small | swamp smartweed | Polygonaceae | smartweed |
| Persicaria longisetata (Brujin) Kitagawa * | bristly lady's-thumb | Polygonaceae | smartweed |
| Persicaria maculosa Gray * | redshank | Polygonaceae | smartweed |
| Persicaria orientalis (L.) Spach * | kiss me over the garden gate | Polygonaceae | smartweed |
| Persicaria pensylvanica (L.) Gomez | Pennsylvania smartweed | Polygonaceae | smartweed |
| Persicaria perfoliata (L.) H. Gross ** | Asiatic tearthumb or mile-a-minute vine | Polygonaceae | smartweed |
| Persicaria punctata (Ell.) Small | dotted smartweed | Polygonaceae | smartweed |
| Persicaria sagittata (L.) H. Gross | arrowleaf tearthumb | Polygonaceae | smartweed |
| Persicaria virginiana (L.) Gaertn. or Polygonum or Tovara virginianum | jumpseed | Polygonaceae | smartweed |
| Phacelia dubia (L.) Trel. var. dubia | smallflower phacelia | Hydrophyllaceae | waterleaf |
| Phalaris arundinacea L. | reed canarygrass | Poaceae | grass |
| Phaseolus polystachios (L.) BSP var. polystachios | thicket bean | Fabaceae | pea |
| Phegopteris hexagonoptera (Michx.) Fee | broad beechfern | Thelypteridaceae | marsh fern |
| Phleum pratense L. ** | timothy | Poaceae | grass |
| Phlox maculata L. | wild sweet william | Polemoniaceae | phlox |
| Phlox paniculata L. | fall phlox | Polemoniaceae | phlox |
| Phoradendron leucarpum (Raf.) Reveal & M.C. Johnston | oak mistletoe | Viscaceae | mistletoe |
| Phragmites australis (Cav.) Trin. ex Steud. ** | phragmites or common reed | Poaceae | grass |
| Phryma leptostachya L. | American lopseed | Verbenaceae | verbena |
| Phyllanthus caroliniensis Walt. ssp. caroliniensis | Carolina leaf-flower or Carolina leaf spurge | Euphorbiaceae | spurge |
| Physalis heterophylla Nees | clammy groundcherry | Solanaceae | nightshade |
| Physalis longifolia Nuttall var. subglabrata (Mackenzie & Bush) Cronq. | longleaf groundcherry | Solanaceae | nightshade |
| Physalis virginiana P. Miller | Virginia groundcherry | Solanaceae | nightshade |

X

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|--|----------------------------------|------------------|------------------|---|
| Physocarpus opulifolius (L.) Maxim. | common ninebark | Rosaceae | rose | |
| Phytolacca americana L. var. americana | American pokeweed | Phytolaccaceae | pokeweed | |
| Pilea pumila (L.) Gray | Canadian clearweed | Urticaceae | nettle | |
| Pinus echinata Miller | shortleaf pine | Pinaceae | pine | |
| Pinus pungens Lambert | table mountain pine | Pinaceae | pine | |
| Pinus rigida Miller | pitch pine | Pinaceae | pine | |
| Pinus strobus L. | white pine | Pinaceae | pine | |
| Pinus virginiana Miller | Virginia pine | Pinaceae | pine | X |
| Piptochaetium avenaceum (L.) Parodi | blackseed speargrass | Poaceae | grass | |
| Plantago aristata Michxaux | largebracted plantain | Plantaginaceae | plantain | |
| Plantago lanceolata L. * | narrowleaf plantain | Plantaginaceae | plantain | |
| Plantago major * | common plantain | Plantaginaceae | plantain | |
| Plantago rugelii Dcne. | blackseed plantain | Plantaginaceae | plantain | |
| Plantago virginica L. | Virginia plantain | Plantaginaceae | plantain | |
| Platanthera ciliaris (L.) Lindl. | yellow fringed orchid | Orchidaceae | orchid | |
| Platanthera clavellata (Michx.) Luer | small green wood orchid | Orchidaceae | orchid | |
| Platanthera flava (L.) Lindl. | palegreen orchid | Orchidaceae | orchid | |
| Platanthera lacera (Michx.) G.Don | green fringed orchid | Orchidaceae | orchid | |
| Platanthera peramoena (Gray) Gray | purple fringeless orchid | Orchidaceae | orchid | |
| Platanus occidentalis L. | American sycamore | Platanaceae | plane-tree | X |
| Pluchea odorata (L.) Cass. | saltmarsh fleabane or sweetscent | Asteraceae | aster | |
| Poa annua L. * | annual bluegrass | Poaceae | grass | |
| Poa autumnalis Muhl. ex Ell. | autumn bluegrass | Poaceae | grass | |
| Poa compressa L. ** | Canada bluegrass | Poaceae | grass | |
| Poa cuspidata Nutt. | early bluegrass | Poaceae | grass | |
| Poa pratensis L. ssp. pratensis | Kentucky bluegrass | Poaceae | grass | |
| Poa sylvestris Gray | woodland bluegrass | Poaceae | grass | |
| Poa trivialis L. ** | rough bluegrass | Poaceae | grass | |
| Podophyllum peltatum L. | mayapple | Berberidaceae | barberry | |
| Podostemum ceratophyllum Michx. | hornleaf riverweed | Podostemaceae | riverweed | |
| Polygala curtissii Gray | Curtiss' milkwort | Polygalaceae | milkwort | |
| Polygala incarnata L. | procession flower | Polygalaceae | milkwort | |
| Polygala mariana P. Mill. | Maryland milkwort | Polygalaceae | milkwort | |
| Polygala sanguinea L. | purple milkwort | Polygalaceae | milkwort | |
| Polygala verticillata L. | whorled milkwort | Polygalaceae | milkwort | |
| Polygonatum biflorum (Walt.) Ell. | smooth Solomon's seal | Liliaceae | lily | |
| Polygonatum biflorum (Walt.) Ell. var. biflorum | smooth Solomon's seal | Liliaceae | lily | |
| Polygonum aviculare L. * | common or prostrate knotweed | Polygonaceae | smartweed | |
| Polygonum erectum L. | erect knotweed | Polygonaceae | smartweed | |
| Polygonum tenue Michx. | plateleaf knotweed | Polygonaceae | smartweed | |
| Polypodium virginianum complex | rock or common polypody | Polypodiaceae | polypody fern | |
| Polystichum acrostichoides (Michx.) Schott | Christmas fern | Dryopteridaceae | wood fern family | X |
| Pontederia cordata L. | pickerelweed | Pontederiaceae | pickerelweed | |
| Populus alba L. ** | white poplar | Salicaceae | willow | |
| Populus deltoides Bartram ex Marshall ssp. deltoides | eastern cottonwood | Salicaceae | willow | |
| Populus grandidentata Michx. | bigtooth aspen | Salicaceae | willow | X |
| Porteranthus trifoliatus (L.) Britt. | Bowman's root | Rosaceae | rose | |
| Portulaca oleracea L. * | little hogweed | Portulacaceae | purslane | |
| Potamogeton diversifolius Raf. | waterthread pondweed | Potamogetonaceae | pondweed | |
| Potamogeton ephedrus Raf. | ribbonleaf pondweed | Potamogetonaceae | pondweed | |
| Potamogeton foliosus Raf. ssp. foliosus | leafy pondweed | Potamogetonaceae | pondweed | |

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|---|---|------------------|---------------|---|
| Potamogeton pusillus L. ssp. pusillus | small pondweed | Potamogetonaceae | pondweed | |
| Potentilla canadensis L. | dwarf cinquefoil | Rosaceae | rose | |
| Potentilla norvegica L. | Norwegian cinquefoil | Rosaceae | rose | |
| Potentilla recta L. * | sulphur cinquefoil | Rosaceae | rose | |
| Potentilla simplex Michx. | common cinquefoil | Rosaceae | rose | |
| Prenanthes serpentina Pursh | lion's foot | Asteraceae | aster | |
| Proserpinaca palustris L. | marsh maidenweed | Haloragaceae | water milfoil | |
| Prunella vulgaris L. * | common selfheal | Lamiaceae | mint | |
| Prunus americana Marshall | American plum | Rosaceae | rose | |
| Prunus angustifolia Marshall var. angustifolia | Watson's plum | Rosaceae | rose | |
| Prunus avium (L.) L. ** | sweet cherry | Rosaceae | rose | |
| Prunus cerasifera Ehrh. * | cherry plum | Rosaceae | rose | |
| Prunus munsoniana W. Wight & Hedrick | wild goose plum | Rosaceae | rose | |
| Prunus persica (L.) Batsch * | peach | Rosaceae | rose | |
| Prunus serotina Ehrhart ssp. serotina | black cherry | Rosaceae | rose | X |
| Pseudognaphalium helleri (Britt.) A. Anderb. var. micradenum Weatherby) Kartesz | Heller's cudweed | Asteraceae | aster | |
| Pseudognaphalium obtusifolium (L.) Hilliard & Burt | rabbit tobacco (cudweed) | Asteraceae | aster | |
| Pteridium aquilinum (L.) Kuhn | western brackenfern | Dennstaedtiaceae | bracken | |
| Pueraria montana (Loureiro) Merritt var. lobata (Willd.) Maesen & S. Almeida ** | kudzu | Fabaceae | pea | |
| Pycnanthemum incanum (L.) Michx. | hoary mountainmint | Lamiaceae | mint | |
| Pycnanthemum tenuifolium Schrad. | narrowleaf mountainmint | Lamiaceae | mint | |
| Pycnanthemum torreyi Benth. | Torrey's mountainmint | Lamiaceae | mint | |
| Pyrola americana Sweet | American wintergreen | Pyrolaceae | wintergreen | |
| Pyrola elliptica Nutt. | waxflower shinleaf | Pyrolaceae | wintergreen | |
| Pyrus calleryana ** | callery pear or Bradford pear | Rosaceae | rose | X |
| Pyrus communis L. ** | common pear | Rosaceae | rose | |
| Pyrus pyrifolia (Burm. f.) Nakai * | Chinese pear | Rosaceae | rose | |
| Quercus alba Linnaeus | white oak | Fagaceae | beech | X |
| Quercus bicolor Willdenow | swamp white oak | Fagaceae | beech | |
| Quercus coccinea Muenchhausen | scarlet oak | Fagaceae | beech | |
| Quercus falcata Michaux | southern red oak | Fagaceae | beech | X |
| Quercus ilicifolia | scrub oak | Fagaceae | | |
| Quercus imbricaria Michaux | shingle oak | Fagaceae | beech | |
| Quercus marilandica Muenchhausen var. marilandica | blackjack oak | Fagaceae | beech | |
| Quercus montana Linnaeus | chestnut oak | Fagaceae | beech | |
| Quercus muhlenbergii Engelmann | swamp chestnut oak | Fagaceae | beech | |
| Quercus palustris Muenchhausen | pin oak | Fagaceae | beech | X |
| Quercus phellos Linnaeus | willow oak | Fagaceae | beech | X |
| Quercus rubra Linnaeus var. rubra | northern red oak | Fagaceae | beech | X |
| Quercus rubra var. borealis (F. Michaux) Farwell | American red oak | Fagaceae | beech | |
| Quercus stellata Wangenheim | post oak | Fagaceae | beech | X |
| Quercus velutina Lamarck | black oak | Fagaceae | beech | X |
| Ranunculus abortivus L. | small flowered crowfoot or littleleaf buttercup | Ranunculaceae | buttercup | |
| Ranunculus allegheniensis Britt. | Allegheny Mountain buttercup | Ranunculaceae | buttercup | |
| Ranunculus bulbosus L. * | bulbous buttercup or St. Anthony's turnip | Ranunculaceae | buttercup | |
| Ranunculus hispidus Michx. var. caricetorum (Greene) T. Duncan | bristly buttercup | Ranunculaceae | buttercup | |
| Ranunculus hispidus Michx. var. hispidus | bristly buttercup | Ranunculaceae | buttercup | |
| Ranunculus micranthus Nutt. | rock buttercup | Ranunculaceae | buttercup | |
| Ranunculus parviflorus L. * | smallflower buttercup | Ranunculaceae | buttercup | |
| Ranunculus pusillus Poir. in Lamarck var. pusillus | low spearwort | Ranunculaceae | buttercup | |

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|---|-----------------------------------|-----------------|----------------|---|
| Ranunculus recurvatus Poir. var. recurvatus | blisterwort | Ranunculaceae | buttercup | |
| Ranunculus repens L. * | creeping buttercup | Ranunculaceae | buttercup | |
| Ranunculus sardous Crantz * | hairy buttercup | Ranunculaceae | buttercup | |
| Ranunculus sceleratus L. var. sceleratus | cursed buttercup | Ranunculaceae | buttercup | |
| Rhexia mariana L. var. mariana | Maryland meadow beauty | Melastomataceae | melastoma | |
| Rhexia virginica L. | Virginia meadow beauty | Melastomataceae | melastoma | |
| Rhododendron maximum L. | great laurel | Ericaceae | heath | |
| Rhododendron periclymenoides (Michx.) Shinners | pink azalea | Ericaceae | heath | |
| Rhododendron prinophyllum (Small) Millais | early azalea | Ericaceae | heath | |
| Rhododendron viscosum (L.) Torr. | swamp azalea | Ericaceae | heath | |
| Rhus aromatica Aiton var. aromatica | fragrant sumac | Anacardiaceae | cashew | |
| Rhus copallinum L. | winged or shining sumac | Anacardiaceae | cashew | X |
| Rhus glabra L. | smooth sumac | Anacardiaceae | cashew | |
| Rhus hirta (L.) Sudworth | staghorn sumac | Anacardiaceae | cashew | |
| Rhynchospora capitellata (Michaux) Vahl | brownish beaksedge | Cyperaceae | sedge | |
| Rhynchospora globularis (Chapman) Small var. globularis | globe beaksedge | Cyperaceae | sedge | |
| Rhynchospora glomerata (L.) Vahl | clustered beaksedge | Cyperaceae | sedge | |
| Rhynchospora gracilentia Gray | slender beaksedge | Cyperaceae | sedge | |
| Rhynchospora macrostachya Torrey ex Gray | tall horned beaksedge | Cyperaceae | sedge | |
| Ribes rotundifolium Michx. | Appalachian gooseberry | Grossulariaceae | gooseberry | |
| Ribes rubrum L. | cultivated currant | Grossulariaceae | gooseberry | |
| Robinia hispida L. | bristly locust | Fabaceae | pea | |
| Robinia pseudoacacia L. | black locust | Fabaceae | pea | X |
| Rorippa palustris (Linnaeus) Besser var. fernaldiana (Butters & Abbe) Jonsell | marsh yellow cress | Brassicaceae | mustard | |
| Rorippa sylvestris (Linnaeus) Besser * | creeping yellow cress | Brassicaceae | mustard | |
| Rosa carolina L. ssp. carolina | Carolina rose | Rosaceae | rose | |
| Rosa multiflora Thunb. ex Murr. ** | multiflora rose | Rosaceae | rose | X |
| Rosa palustris Marsh. | swamp rose | Rosaceae | rose | |
| Rosa rubiginosa L. * (or R. eglanteria) | sweet briar | Rosaceae | rose | |
| Rotala ramosior (L.) Koehne | lowland rotala | Lythraceae | loosestrife | |
| Rubus allegheniensis | blackberry | Rosaceae | rose | |
| Rubus argutus Link | sawtooth blackberry | Rosaceae | rose | |
| Rubus flagellaris Willd. | northern dewberry | Rosaceae | rose | |
| Rubus hispidus L. | bristly dewberry | Rosaceae | rose | |
| Rubus occidentalis L. | black raspberry | Rosaceae | rose | |
| Rubus pensilvanicus Poir. | Pennsylvania blackberry | Rosaceae | rose | |
| Rubus phoenicolasius Maxim. ** | wine raspberry or wineberry | Rosaceae | rose | X |
| Rubus sp. | blackberry - undetermined species | Rosaceae | rose | X |
| Rudbeckia fulgida Ait. | green-headed or tall coneflower | Asteraceae | aster | |
| Rudbeckia hirta L. | black-eyed susan | Asteraceae | aster | |
| Rudbeckia laciniata L. | cutleaf coneflower | Asteraceae | aster | |
| Ruellia caroliniensis (Gmelin) Steudel | hairy ruellia | Acanthaceae | acanthus | |
| Rumex acetosella L. * | garden sorrel | Polygonaceae | smartweed | |
| Rumex crispus L. ** | curly dock | Polygonaceae | smartweed | |
| Rumex obtusifolius L. * | bitter dock | Polygonaceae | smartweed | |
| Sabatia angularis (L.) Pursh | rosepink | Gentianaceae | gentian | |
| Sabatia dodecandra (L.) BSP | marsh rose gentian | Gentianaceae | gentian | |
| Saccharum brevibarbe (Michx.) Pers. var. contortum (L.) R. Webster | shortbeard plumegrass | Poaceae | grass | |
| Saccharum giganteum (Walt.) Pers. | sugarcane plumegrass | Poaceae | grass | |
| Sagittaria australis (J.G.Smith) Small | longbeak arrowhead | Alismataceae | water plantain | |
| Sagittaria engelmanniana J.G. Smith | Engelmann's arrowhead | Alismataceae | water plantain | |
| Sagittaria latifolia Willdenow | broadleaf arrowhead | Alismataceae | water plantain | |

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|--|-------------------------------|------------------|---------------|---|
| Salix alba L. * | white willow | Salicaceae | willow | |
| Salix babylonica L. * | weeping willow | Salicaceae | willow | |
| Salix caroliniana Michx. | coastal plain willow | Salicaceae | willow | |
| Salix humilis Marshall | prairie willow | Salicaceae | willow | |
| Salix nigra Marsh. | black willow | Salicaceae | willow | X |
| Salix occidentalis Walter | Walter's coastal plain willow | Salicaceae | willow | |
| Salix sericea Marsh. | silky willow | Salicaceae | willow | |
| Salvia lyrata L. | lyreleaf sage | Lamiaceae | mint | |
| Sambucus canadensis L. var. canadensis | elderberry | Adoxaceae | muskroot | |
| Samolus valerandi L. | seaside brookweed | Primulaceae | primrose | |
| Sanguinaria canadensis L. | bloodroot | Papaveraceae | poppy | |
| Sanicula canadensis L. var. canadensis | short styled snakeroot | Apiaceae | parsley | |
| Sanicula odorata (Raf.) K.M. Pryer & L.R. Phillippe | clustered black snakeroot | Apiaceae | parsley | |
| Sanicula smallii Bickn. | Small's blacksnakeroot | Apiaceae | parsley | |
| Saponaria officinalis L. ** | bouncingbet, soapwort | Caryophyllaceae | pink | |
| Sassafras albidum (Nutt.) Nees | sassafras | Lauraceae | laurel | X |
| Saururus cernuus L. | lizard's tail | Saururaceae | lizard's tail | |
| Saxifraga virginiana Michaux | early saxifrage | Saxifragaceae | saxifrage | |
| Schizachyrium scoparium (Michx.) Nash var. scoparium | little bluestem | Poaceae | grass | |
| Schoenoplectus acutus (Muhl. ex Bigel.) Love & Love var. acutus | hardstem bulrush | Cyperaceae | sedge | |
| Schoenoplectus fluviatilis | river bulrush | Cyperaceae | sedge | |
| Schoenoplectus pungens (Vahl) Palla | common threesquare | Cyperaceae | sedge | |
| Schoenoplectus purshianus (Fernald) Strong var. purshianus | weakstalk bulrush | Cyperaceae | sedge | |
| Schoenoplectus tabernaemontani (Gmelin) Palla | softstem bulrush | Cyperaceae | sedge | |
| Scirpus atrovirens Willd. | green bulrush | Cyperaceae | sedge | |
| Scirpus cyperinus (L.) Kunth | woolgrass | Cyperaceae | sedge | |
| Scirpus georgianus Harper | Georgia bulrush | Cyperaceae | sedge | |
| Scirpus pendulus Muhlenberg | rufous bulrush | Cyperaceae | sedge | |
| Scirpus polyphyllus Vahl | leafy bulrush | Cyperaceae | sedge | |
| Scleria muhlenbergii Steudel | netted nutrush | Cyperaceae | sedge | |
| Scleria oligantha Michaux | littlehead nutrush | Cyperaceae | sedge | |
| Scleria pauciflora Muhl. ex Willd. | fewflower nutrush | Cyperaceae | sedge | |
| Scleria triglomerata Michaux | whip nutrush | Cyperaceae | sedge | |
| Scrophularia lanceolata Pursh | lanceleaf figwort | Scrophulariaceae | figwort | |
| Scrophularia marilandica L. | carpenter's square | Scrophulariaceae | figwort | |
| Scutellaria elliptica Muhl. ex Spreng. | hairy skullcap | Lamiaceae | mint | |
| Scutellaria integrifolia L. | narrow-leaved skullcap | Lamiaceae | mint | |
| Scutellaria lateriflora L. var. lateriflora | mad dog skullcap | Lamiaceae | mint | |
| Scutellaria nervosa Pursh | veiny skullcap | Lamiaceae | mint | |
| Scutellaria parvula Michx. var. missouriensis (Torr.) Goodman & Lawson | small skullcap | Lamiaceae | mint | |
| Scutellaria serrata Andr. | showy skullcap | Lamiaceae | mint | |
| Sedum sarmentosum Bunge * | stringy stonecrop | Crassulaceae | stonecrop | |
| Sedum ternatum Michx. | woodland stonecrop | Crassulaceae | stonecrop | |
| Selaginella apoda (L.) Spring | meadow spikemoss | Selaginellaceae | spike-mosses | |
| Senna hebecarpa (Fernald) Irwin & Barneby | American senna | Fabaceae | pea | |
| Senna marilandica (L.) Link | Maryland senna | Fabaceae | pea | |
| Sericocarpus asteroides (L.) B.S.P. | toothed whitetop aster | Asteraceae | aster | |
| Sericocarpus linifolius (L.) B.S.P. | narrowleaf whitetop aster | Asteraceae | aster | |
| Setaria faberi Herrm. ** | Japanese bristlegrass | Poaceae | grass | |
| Setaria italica (L.) Beauv. * | foxtail bristlegrass | Poaceae | grass | |
| Setaria parviflora (Poir.) Kerguelen | marsh bristlegrass | Poaceae | grass | |
| Setaria pumila (Poir.) Roemer & Schultes * | yellow foxtail | Poaceae | grass | |

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|---|---------------------------------|-----------------|------------|---|---|
| <i>Setaria viridis</i> (L.) Beauv. var. <i>viridis</i> * | green bristlegrass | Poaceae | grass | | |
| <i>Sicyos angulatus</i> L. | oneseed bur cucumber | Cucurbitaceae | gourd | | |
| <i>Sida spinosa</i> L. * | prickly fanpetals | Malvaceae | mallow | | |
| <i>Silene antirrhina</i> L. | sleepy catchfly | Caryophyllaceae | pink | | |
| <i>Silene caroliniana</i> Walt. var. <i>pennsylvanica</i> (Michx.) Fernald | wild pink | Caryophyllaceae | pink | | |
| <i>Silene dichotoma</i> Ehrh. * | forked catchfly | Caryophyllaceae | pink | | |
| <i>Silene latifolia</i> Poir. * | bladder campion | Caryophyllaceae | pink | | |
| <i>Silene stellata</i> (L.) Ait. f. | starry campion | Caryophyllaceae | pink | | |
| <i>Silene vulgaris</i> (Moench) Garcke * | maidenstears | Caryophyllaceae | pink | | |
| <i>Silphium asteriscus</i> L. var. <i>trifoliatum</i> (L.) Clevinger | whorled rosinweed | Asteraceae | aster | | |
| <i>Silphium asteriscus</i> L., s.l. | starry rosinweed | Asteraceae | aster | | |
| <i>Sisymbrium officinale</i> (Linnaeus) Scopoli * | hedge mustard | Brassicaceae | mustard | | |
| <i>Sisyrinchium angustifolium</i> P. Mill. | narrowleaf blue-eyed grass | Iridaceae | iris | | |
| <i>Sisyrinchium mucronatum</i> Michx. | needletip blue-eyed grass | Iridaceae | iris | | |
| <i>Sium suave</i> Walt. | water parsnip | Apiaceae | parsley | | |
| <i>Smallanthus uvedalia</i> (L.) Mackenzie ex Small | hairy or large-flowered leafcup | Asteraceae | aster | | |
| <i>Smilax glauca</i> Walt. | cat greenbriar | Smilacaceae | catbriar | | X |
| <i>Smilax herbacea</i> L. | smooth carrionflower | Smilacaceae | catbriar | | |
| <i>Smilax rotundifolia</i> L. | roundleaf greenbriar | Smilacaceae | catbriar | X | X |
| <i>Smilax tamnoides</i> L. | bristly greenbriar | Smilacaceae | catbriar | | |
| <i>Solanum carolinense</i> L. var. <i>carolinense</i> | Carolina horsenettle | Solanaceae | nightshade | | |
| <i>Solanum dulcamara</i> L. * | climbing nightshade | Solanaceae | nightshade | | |
| <i>Solanum ptycanthum</i> Dunal | west Indian nightshade | Solanaceae | nightshade | | |
| <i>Solidago altissima</i> L. var. <i>altissima</i> | Canada goldenrod | Asteraceae | aster | | |
| <i>Solidago arguta</i> Ait. | cutleaf goldenrod | Asteraceae | aster | | |
| <i>Solidago bicolor</i> L. | silverrod | Asteraceae | aster | | |
| <i>Solidago caesia</i> L. | bluestem goldenrod | Asteraceae | aster | | |
| <i>Solidago erecta</i> Pursh | erect goldenrod | Asteraceae | aster | | |
| <i>Solidago gigantea</i> Ait. | great goldenrod | Asteraceae | aster | | |
| <i>Solidago juncea</i> Ait. | early goldenrod | Asteraceae | aster | | |
| <i>Solidago nemoralis</i> Ait. var. <i>nemoralis</i> | gray goldenrod | Asteraceae | aster | | |
| <i>Solidago pinetorum</i> Small | Small's goldenrod | Asteraceae | aster | | |
| <i>Solidago rigida</i> L. ssp. <i>rigida</i> | stiff goldenrod | Asteraceae | aster | | |
| <i>Solidago rugosa</i> P. Mill. | rough goldenrod | Asteraceae | aster | | |
| <i>Solidago speciosa</i> Nutt. var. <i>speciosa</i> | showy goldenrod | Asteraceae | aster | | |
| <i>Solidago ulmifolia</i> Muhl. ex Willd. var. <i>ulmifolia</i> | elm-leaved goldenrod | Asteraceae | aster | | |
| <i>Sonchus arvensis</i> L. var. <i>glabrescens</i> Guenth., Grab. & Wimmer | field sowthistle | Asteraceae | aster | | |
| <i>Sonchus oleraceus</i> L. | common sowthistle | Asteraceae | aster | | |
| <i>Sorghastrum nutans</i> (L.) Nash | Indian grass | Poaceae | grass | | |
| <i>Sorghum halepense</i> (L.) Pers. ** | Johnson grass | Poaceae | grass | | |
| <i>Sparganium americanum</i> Nutt. | American bur-reed | Sparganiaceae | bur-reed | | |
| <i>Sparganium androcladum</i> (Engelm.) Morong | branched bur-reed | Sparganiaceae | bur-reed | | |
| <i>Sparganium eurycarpum</i> Engelm. ex Gray | broadfruit bur-reed | Sparganiaceae | bur-reed | | |
| <i>Spartina cynosuroides</i> (L.) Roth | saltreed grass | Poaceae | grass | | |
| <i>Spergularia rubra</i> (L.) J. & K. Presl * | red sandspurrey | Caryophyllaceae | pink | | |
| <i>Sphenopholis nitida</i> (Biehler) Scribn. | shiny wedgescale | Poaceae | grass | | |
| <i>Sphenopholis obtusata</i> (Michx.) Scribn. | prairie wedgescale | Poaceae | grass | | |
| <i>Sphenopholis obtusata</i> (Michx.) Scribn. var. <i>major</i> (Torr.) K.S. Erdman | prairie wedgescale | Poaceae | grass | | |
| <i>Sphenopholis pennsylvanica</i> (L.) A.S. Hitchc. | swamp wedgescale | Poaceae | grass | | |
| <i>Spiraea alba</i> Du Roi var. <i>latifolia</i> (Ait.) Dippel | white meadowsweet | Rosaceae | rose | | |
| <i>Spiraea betulifolia</i> Pallas ssp. <i>corymbosa</i> (Raf.) Taylor & McBryde | shinyleaf meadowsweet | Rosaceae | rose | | |

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|--|---------------------------------|------------------|-------------|---|
| <i>Spiraea japonica</i> L. f. ** | Japanese meadowsweet | Rosaceae | rose | |
| <i>Spiranthes cernua</i> (L.) L.C.Rich. | nodding lady's tresses | Orchidaceae | orchid | |
| <i>Spiranthes lacera</i> (Raf.) Raf. var. <i>gracilis</i> (Bigelow) Luer | northern slender lady's tresses | Orchidaceae | orchid | |
| <i>Spiranthes ochroleuca</i> (Rydb.) Rydb. | yellow nodding lady's tresses | Orchidaceae | orchid | |
| <i>Spiranthes ovalis</i> Lindl. var. <i>erostellata</i> Catling | October lady's tresses | Orchidaceae | orchid | |
| <i>Spiranthes praecox</i> (Walt.) S.Wats. | greenvein lady's tresses | Orchidaceae | orchid | |
| <i>Spiranthes tuberosa</i> Raf. | little lady's tresses | Orchidaceae | orchid | |
| <i>Spiranthes vernalis</i> Engelm. & Gray | spring lady's tresses | Orchidaceae | orchid | |
| <i>Sporobolus vaginiflorus</i> (Torr. ex Gray) Wood | poverty dropseed | Poaceae | grass | |
| <i>Stachys hispida</i> Pursh | hairy hedgenettle | Lamiaceae | mint | |
| <i>Stachys pilosa</i> var. <i>arenicola</i> (Britt.) G. Mulligan & D. Munroe | hairy hedgenettle | Lamiaceae | mint | |
| <i>Staphylea trifolia</i> L. | American bladdernut | Staphyleaceae | bladdernut | |
| <i>Stellaria graminea</i> L. * | lesser stitchwort | Caryophyllaceae | pink | |
| <i>Stellaria longifolia</i> Muhl. | longleaf starwort | Caryophyllaceae | pink | |
| <i>Stellaria media</i> (L.) Vill. ** | common chickweed | Caryophyllaceae | pink | X |
| <i>Stellaria pubera</i> Michx. | star chickweed | Caryophyllaceae | pink | |
| <i>Strophostyles helvula</i> (L.) Ell. | amberique bean | Fabaceae | pea | |
| <i>Strophostyles umbellata</i> (Muhl. ex Willd.) Britt. | pink fuzzybean | Fabaceae | pea | |
| <i>Stuckenia pectinata</i> (L.) Borner | sago pondweed | Potamogetonaceae | e pondweed | |
| <i>Stylosanthes biflora</i> (L.) B.S.P. | sidebean pencilflower | Fabaceae | pea | |
| <i>Symphoricarpos orbiculatus</i> Moench | coralberry | Caprifoliaceae | honeysuckle | X |
| <i>Symphyotrichum cordifolium</i> (L.) Nesom | blue wood aster | Asteraceae | aster | |
| <i>Symphyotrichum dumosum</i> (L.) Nesom | bushy aster | Asteraceae | aster | |
| <i>Symphyotrichum laeve</i> (L.) A. & D. Love var. <i>laeve</i> | smooth aster | Asteraceae | aster | |
| <i>Symphyotrichum lanceolatum</i> (Willd.) Nesom | white panicle aster | Asteraceae | aster | |
| <i>Symphyotrichum lateriflorum</i> (L.) A. & D. Love | calico aster | Asteraceae | aster | |
| <i>Symphyotrichum novae-angliae</i> (L.) Nesom | New England aster | Asteraceae | aster | |
| <i>Symphyotrichum patens</i> (Ait.) Nesom | late purple aster | Asteraceae | aster | |
| <i>Symphyotrichum pilosum</i> (Willd.) Nesom | hairy white old field aster | Asteraceae | aster | |
| <i>Symphyotrichum pilosum</i> (Willd.) Nesom var. <i>pringlei</i> (Gray) Nesom | Pringle's aster | Asteraceae | aster | |
| <i>Symphyotrichum prenanthoides</i> (Muhl. ex Willd.) Nesom | crooked stem aster | Asteraceae | aster | |
| <i>Symphyotrichum puniceum</i> (L.) A. & D. Love var. <i>puniceum</i> | purple stem aster | Asteraceae | aster | |
| <i>Symphyotrichum racemosum</i> (Ell.) Nesom | smooth white old field aster | Asteraceae | aster | |
| <i>Symphyotrichum undulatum</i> (L.) Nesom | wavy leaf aster | Asteraceae | aster | |
| <i>Symplocarpus foetidus</i> (L.) Salisbury ex W.P. C. Barton | skunk cabbage | Araceae | arum | |
| <i>Taenidia integerrima</i> (L.) Drude | yellow pimpernel | Apiaceae | parsley | |
| <i>Taraxacum erythrospermum</i> Andrzejowski ex Besser | red-seeded dandelion | Asteraceae | aster | |
| <i>Taraxacum officinale</i> G.H. Weber ex Wiggers * | dandelion | Asteraceae | aster | |
| <i>Taxus canadensis</i> Marshall | Canada yew | Taxaceae | yew | |
| <i>Tephrosia virginiana</i> (L.) Pers. | Virginia tephrosia | Fabaceae | pea | |
| <i>Teucrium canadense</i> L. | American germander | Lamiaceae | mint | |
| <i>Thalictrum dioicum</i> L. | early meadow-rue | Ranunculaceae | buttercup | |
| <i>Thalictrum pubescens</i> Pursh | king of the meadow | Ranunculaceae | buttercup | |
| <i>Thalictrum revolutum</i> DC. | waxyleaf meadow-rue | Ranunculaceae | buttercup | |
| <i>Thalictrum thalictroides</i> (L.) Eames & Boivin | rue anemone | Ranunculaceae | buttercup | |
| <i>Thaspium barbinode</i> (Michx.) Nutt. | hairyjoint meadow parsnip | Apiaceae | parsley | |
| <i>Thaspium trifoliatum</i> (L.) Gray | purple meadow parsnip | Apiaceae | parsley | |
| <i>Thelypteris noveboracensis</i> (L.) Nieuwl. | New York fern | Thelypteridaceae | marsh fern | |
| <i>Thelypteris palustris</i> Schott var. <i>pubescens</i> (Lawson) Fern. | eastern marsh fern | Thelypteridaceae | marsh fern | |
| <i>Thlaspi arvense</i> Linnaeus * | wild field pennycress | Brassicaceae | mustard | |
| <i>Tilia americana</i> L. | American basswood | Tiliaceae | linden | |
| <i>Tipularia discolor</i> (Pursh) Nutt | Crane-fly orchid | Orchidaceae | orchid | X |

| | | | | |
|---|-------------------------------|------------------|---------------|---|
| Toxicodendron radicans (L.) Kuntze var. radicans | poison ivy | Anacardiaceae | cashew | X |
| Toxicodendron vernix (L.) Kuntze | poison sumac | Anacardiaceae | cashew | |
| Tragopogon dubius Scop. | goat's beard | Asteraceae | aster | |
| Triadenum virginicum (L.) Raf. | Virginia marsh St. Johnswort | Clusiaceae | St. Johnswort | |
| Triadenum walteri (J. G.Gmel.) Gleason | greater marsh St. Johnswort | Clusiaceae | St. Johnswort | |
| Trichophorum planifolium (Sprengel) Palla | bashful bulrush | Cyperaceae | sedge | |
| Trichostema brachiatum L. | fluxweed | Lamiaceae | mint | |
| Trichostema dichotomum L. | forked bluecurls | Lamiaceae | mint | |
| Tridens flavus (L.) A.S. Hitchc. var. flavus | purpletop | Poaceae | grass | X |
| Trifolium arvense L. * | rabbitfoot clover | Fabaceae | pea | |
| Trifolium aureum Pollich * | golden clover | Fabaceae | pea | |
| Trifolium campestre Schreb. * | field clover | Fabaceae | pea | |
| Trifolium dubium Sibthorp * | suckling clover | Fabaceae | pea | |
| Trifolium hybridum L. * | alsike clover | Fabaceae | pea | |
| Trifolium pratense L. * | red clover | Fabaceae | pea | |
| Trifolium reflexum L. | buffalo clover | Fabaceae | pea | |
| Trifolium repens L. * | white clover | Fabaceae | pea | |
| Triodanis perfoliata (L.) Nieuwl. var. perfoliata | Venus looking glass | Campanulaceae | bellflower | |
| Triosteum perfoliatum L. | feverwort | Caprifoliaceae | honeysuckle | |
| Tripsacum dactyloides (L.) L. | eastern gama grass | Poaceae | grass | |
| Tsuga canadensis (L.) Carriere | eastern hemlock | Pinaceae | pine | X |
| Tussilago farfara L. ** | coltsfoot | Asteraceae | aster | |
| Typha angustifolia L. | narrow-leaved cattail | Typhaceae | cattail | |
| Typha domingensis Pers. | pale cattail | Typhaceae | cattail | |
| Typha latifolia L. | broad-leaved cattail | Typhaceae | cattail | |
| Ulmus americana L. | American elm | Ulmaceae | elm | X |
| Ulmus parvifolia Jacq. * | Chinese elm | Ulmaceae | elm | |
| Ulmus rubra Muhl. | slippery elm | Ulmaceae | elm | X |
| Urtica dioica L., s.l. * | stinging nettle | Urticaceae | nettle | |
| Utricularia gibba L. | humped bladderwort | Lentibulariaceae | bladderwort | |
| Utricularia vulgaris L. ssp. macrorhiza | common bladderwort | Lentibulariaceae | bladderwort | |
| Uvularia perfoliata L. | perfoliate bellwort | Liliaceae | lily | |
| Uvularia sessilifolia L. | sessileleaf bellwort | Liliaceae | lily | |
| Vaccinium xmarianum S. Wats. (pro sp.) | vaccinium | Ericaceae | heath | |
| Vaccinium fuscum Ait. | black highbush blueberry | Ericaceae | heath | |
| Vaccinium pallidum Ait. | Blue Ridge blueberry | Ericaceae | heath | |
| Vaccinium sp. | blueberry | Ericaceae | heath | X |
| Vaccinium stamineum L. | deerberry | Ericaceae | heath | |
| Valerianaella locusta (L.) Latterade * | Lewiston cornsalad | Valerianaceae | valerian | |
| Valerianaella radiata (L.) Dufr. | beaked cornsalad | Valerianaceae | valerian | |
| Veratrum virginicum (L.) Aiton | Virginia bunchflower | Liliaceae | lily | |
| Veratrum viride Aiton var. viride | green false hellebore | Liliaceae | lily | |
| Verbascum blattaria L. * | moth mullein | Scrophulariaceae | figwort | |
| Verbascum thapsus L. ** | common mullein | Scrophulariaceae | figwort | |
| Verbena hastata L. | swamp verbena | Verbenaceae | verbena | |
| Verbena simplex Lehm. | narrowleaf vervain | Verbenaceae | verbena | |
| Verbena urticifolia L. | white vervain | Verbenaceae | verbena | |
| Verbesina alternifolia (L.) Britt. ex Kearney | yellow ironweed or wingstem | Asteraceae | aster | |
| Vernonia glauca (L.) Willd. | broad-leaved ironweed | Asteraceae | aster | |
| Vernonia noveboracensis (L.) Michx. | New York ironweed | Asteraceae | aster | |
| Veronica agrestis L. * | green field speedwell | Scrophulariaceae | figwort | |
| Veronica arvensis L. * | corn speedwell | Scrophulariaceae | figwort | |
| Veronica hederifolia | ivy-leaved speedwell | Scrophulariaceae | figwort | |
| Veronica officinalis L. | common speedwell or gypsyweed | Scrophulariaceae | figwort | |

| | | | | | |
|--|--------------------------|------------------|-------------------|---|---|
| <i>Veronica peregrina</i> L. var. <i>peregrina</i> | hairy purslane speedwell | Scrophulariaceae | figwort | | |
| <i>Veronica persica</i> Poirét | bird's eye speedwell | Scrophulariaceae | figwort | | |
| <i>Veronica serpyllifolia</i> L. var. <i>serpyllifolia</i> * | thymeleaf speedwell | Scrophulariaceae | figwort | | |
| <i>Veronicastrum virginicum</i> (L.) Farwell | Culver's root | Scrophulariaceae | figwort | | |
| <i>Viburnum acerifolium</i> L. | maple-leaf viburnum | Adoxaceae | muskroot | | X |
| <i>Viburnum dentatum</i> L. | southern arrowwood | Adoxaceae | muskroot | | |
| <i>Viburnum dentatum</i> L. var. <i>lucidum</i> Aiton | southern arrowwood | Adoxaceae | muskroot | | |
| <i>Viburnum dilatatum</i> ** | Linden viburnum | Adoxaceae | muskroot | | X |
| <i>Viburnum nudum</i> L. | possumhaw | Adoxaceae | muskroot | | |
| <i>Viburnum plicatum</i> * | doublefile | Adoxaceae | muskroot | | X |
| <i>Viburnum prunifolium</i> L. | smooth blackhaw viburnum | Adoxaceae | muskroot | | X |
| <i>Vicia caroliniana</i> Walt. | Carolina vetch | Fabaceae | pea | | |
| <i>Vicia cracca</i> L. * | bird vetch | Fabaceae | pea | | |
| <i>Vicia sativa</i> L. * | garden vetch | Fabaceae | pea | | |
| <i>Vicia tetrasperma</i> (L.) Schreb. * | lentil vetch | Fabaceae | pea | | |
| <i>Vicia villosa</i> Roth ssp. <i>varia</i> (Host) Corbiere * | winter vetch | Fabaceae | pea | | |
| <i>Vinca minor</i> L. ** | periwinkle | Apocynaceae | dogbane | X | X |
| <i>Viola affinis</i> Le Conte | sand violet | Violaceae | violet | | |
| <i>Viola bicolor</i> Pursh | field pansy | Violaceae | violet | | |
| <i>Viola blanda</i> Willd. | sweet white violet | Violaceae | violet | | |
| <i>Viola canadensis</i> L. var. <i>canadensis</i> | Canada white violet | Violaceae | violet | | |
| <i>Viola cucullata</i> Ait. | marsh blue violet | Violaceae | violet | | |
| <i>Viola fimbriatula</i> J.E. Smith | ovate-leaved violet | Violaceae | violet | | |
| <i>Viola hirsutula</i> Brainerd | southern woodland violet | Violaceae | violet | | |
| <i>Viola lanceolata</i> L. ssp. <i>lanceolata</i> | bog white violet | Violaceae | violet | | |
| <i>Viola palmata</i> L. | early blue violet | Violaceae | violet | | |
| <i>Viola pedata</i> L. | birdfoot violet | Violaceae | violet | | |
| <i>Viola primulifolia</i> L. | primrose-leaf violet | Violaceae | violet | | |
| <i>Viola pubescens</i> Aiton | downy yellow violet | Violaceae | violet | | |
| <i>Viola pubescens</i> Aiton var. <i>pubescens</i> | downy yellow violet | Violaceae | violet | | |
| <i>Viola pubescens</i> Aiton var. <i>scabriuscula</i> Schwein. ex Torr. & Gray | downy yellow violet | Violaceae | violet | | |
| <i>Viola sagittata</i> Aiton | arrowleaf violet | Violaceae | violet | | |
| <i>Viola sororia</i> Willd. | common blue violet | Violaceae | violet | | |
| <i>Viola striata</i> Ait. | striped cream violet | Violaceae | violet | | |
| <i>Vitis aestivalis</i> Michx. | summer grape | Vitaceae | grape | | |
| <i>Vitis labrusca</i> L. | fox grape | Vitaceae | grape | | |
| <i>Vitis riparia</i> Michx. | riverbank grape | Vitaceae | grape | | |
| <i>Vitis rupestris</i> Scheele | sand grape | Vitaceae | grape | | |
| <i>Vitis</i> sp. | grape | Vitaceae | grape | | X |
| <i>Vitis vulpina</i> L. | frost grape | Vitaceae | grape | | |
| <i>Vulpia myuros</i> (L.) K.C. Gmel. * | rat-tail fescue | Poaceae | grass | | |
| <i>Vulpia octoflora</i> (Walt.) Rydb. | sixweeks fescue | Poaceae | grass | | |
| <i>Wisteria sinensis</i> | Chinese wisteria | Fabaceae | pea | | |
| <i>Wolffiella gladiata</i> (Hegelm.) Hegelm. | Florida mudmidget | Lemnaceae | duckweed | | |
| <i>Woodsia obtusa</i> (Spreng.) Torr. ssp. <i>obtusa</i> | bluntlobe cliff fern | Dryopteridaceae | wood fern family | | |
| <i>Woodwardia areolata</i> (L.) T. Moore | netted chain fern | Blechnaceae | chain fern | | |
| <i>Xanthium spinosum</i> L. | spiny cocklebur | Asteraceae | aster | | |
| <i>Xanthium strumarium</i> L. ** | hairy cocklebur | Asteraceae | aster | | |
| <i>Xyris torta</i> J.M. Smith | slender yelloweyed grass | Xyridaceae | yellow-eyed grass | | |
| <i>Yucca filamentosa</i> L. | yucca | Agavaceae | agave | | |
| <i>Zanthoxylum americanum</i> P. Mill. | common pricklyash | Rutaceae | citrus | | |
| <i>Zizania aquatica</i> L. var. <i>aquatica</i> | annual wildrice | Poaceae | grass | | |

Zizia aptera (Gray) Fern.
Zizia aurea (L.) W.D.J. Koch

heart-leaved Alexander
golden Alexander

Apiaceae
Apiaceae

parsley
parsley

* denotes mildly invasive non-native species
** denotes highly invasive non-native species

Amphibians and Reptiles

Found at Dove's
Landing (X)

Scientific Name

Common Name

Amphibians

| | | |
|---|---------------------------------|--|
| <i>Ambystoma maculatum</i> | Salamander, spotted | |
| <i>Ambystoma opacum</i> | Salamander, marbled | |
| <i>Bufo americanus</i> | Toad, American | |
| <i>Bufo fowleri</i> | Toad, Fowler's | |
| <i>Desmognathus fuscus</i> | Salamander, northern dusky | |
| <i>Eurycea bislineata</i> | Salamander, northern two-lined | |
| <i>Eurycea guttolineata</i> | Salamander, three-lined | |
| <i>Hemidactylium scutatum</i> | Salamander, four-toed | |
| <i>Hyla chrysoscelis</i> | Treefrog, Cope's gray | |
| <i>Hyla versicolor</i> | Treefrog, gray | |
| <i>Plethodon cinereus</i> | Salamander, northern red-backed | |
| <i>Plethodon cylindraceus</i> | Salamander, slimy | |
| <i>Pseudacris crucifer crucifer</i> | Peeper, northern spring | |
| <i>Pseudacris feriarum</i> | Frog, southeastern chorus | |
| <i>Pseudotriton montanus</i> | Salamander, mud | |
| <i>Pseudotriton ruber ruber</i> | Salamander, northern red | |
| <i>Rana clamitans melanota</i> | Frog, southern green | |
| <i>Rana palustris</i> | Frog, pickerel | |
| <i>Rana sphenoccephala utricularius</i> | Frog, southern leopard | |
| <i>Rana sylvatica</i> | Frog, wood | |
| <i>Scaphiopus holbrooki</i> | Toad, eastern spadefoot | |
| | | |
| | | |
| | | |
| Reptiles | | |
| <i>Agkistrodon contortrix mokasen</i> | Copperhead, northern | |
| <i>Apalone spinifer spinifer*</i> | Eastern Spiny Softshell | |
| <i>Carphophis amoenus amoenus</i> | Snake, eastern worm | |
| <i>Chelydra serpentina serpentina</i> | Turtle, common snapping | |
| <i>Chrysemys picta picta</i> | Turtle, eastern painted | |
| <i>Chrysemys picta dorsalis</i> | Turtle, Southern painted | |
| <i>Clemmys guttata</i> | Turtle, Spotted | |
| <i>Coluber constrictor constrictor</i> | Racer, northern black | |
| <i>Diadophis punctatus edwardsii</i> | Snake, northern ringneck | |
| <i>Elaphe guttata</i> | Snake, corn | |
| <i>Elaphe obsoleta obsoleta</i> | Snake, black rat | |
| <i>Eumeces fasciatus</i> | Skink, five-lined | |
| <i>Eumeces laticeps</i> | Skink, broadhead | |
| <i>Graptemys geographica*</i> | Northern Map Turtle | |
| <i>Heterodon platirhinos</i> | Snake, eastern hognose | |

| | | |
|--|-----------------------------------|--|
| <i>Kinosternon subrubrum subrubrum</i> | Turtle, eastern mud | |
| <i>Lampropeltis calligaster rhombomaculata</i> | Kingsnake, mole | |
| <i>Lampropeltis getula getula</i> | Kingsnake, eastern | |
| <i>Nerodia sipedon sipedon</i> | Snake, northern water | |
| <i>Opheodrys aestivus aestivus</i> | Snake, rough green | |
| <i>Pseudemys rubriventris rubriventris</i> | Slider, northern red-bellied | |
| <i>Regina septemvittata</i> | Snake, queen | |
| <i>Sceloporus undulatus hyacinthinus</i> | Lizard, northern fence | |
| <i>Scincella lateralis</i> | Skink, ground | |
| <i>Sternotherus odoratus</i> | Turtle, eastern musk (= stinkpot) | |
| <i>Storeria occipitomaculata</i> | Snake, redbelly | |
| <i>Terrapene carolina carolina</i> | Turtle, eastern box | |
| <i>Thamnophis sauritus sauritus</i> | Snake, eastern ribbon | |
| <i>Thamnophis sirtalis sirtalis</i> | Snake, eastern garter | |
| <i>Trachemys scripta elegans</i> | Slider, red-eared | |
| <i>Trachemys scripta scripta</i> | Slider, yellow-bellied | |
| <i>Virginia valeriae valeriae</i> | Snake, eastern smooth earth | |

Bird Species - Common Name

Birds
Observed

| |
|------------------|
| |
| Snow Goose |
| Cackling Goose |
| Canada Goose |
| Tundra Swan |
| Mute Swan |
| Wood Duck |
| Gadwall |
| Am Wigeon |
| Eurasian Wigeon |
| |
| Am Black Duck |
| Mallard |
| No Shoveler |
| No Pintail |
| Am Gr-wg Teal |
| Canvasback |
| Redhead |
| Ring-nkd Duck |
| Greater Scaup |
| Lesser Scaup |
| <i>scaup sp.</i> |
| Bufflehead |

| |
|-----------------------|
| Com Goldeneye |
| Long-tailed Duck |
| Hooded Merg |
| Com Merganser |
| Red-br Merg |
| Ruddy Duck |
| Common Loon |
| Pied-bd Grebe |
| Red-neckd Grebe |
| DC Cormorant |
| Great Bl Heron |
| Great Egret |
| Green Heron |
| Black Vulture |
| Turkey Vulture |
| Bald Eagle |
| <i>B Eagle, Adult</i> |
| <i>B Eagle, Imm</i> |
| Osprey |
| No Harrier |

X

X

X

| |
|----------------------|
| Sharp-sh Hawk |
| Cooper's Hawk |
| <i>accipiter sp.</i> |
| Red-sh Hawk |
| Red-tailed Hawk |
| Am Kestrel |
| Merlin |
| Wild Turkey |
| No Bobwhite |
| King Rail |
| American Coot |
| Killdeer |
| Gr Yellowlegs |
| Less Yellowlegs |
| Wilson's Snipe |
| Am Woodcock |
| Bonaparte's Gull |
| Ring-billed Gull |
| Herring Gull |
| Iceland Gull |

X

X

| | |
|--------------------------|---|
| Ls Blk-bd Gull | |
| Grt Bl-bkd Gull | |
| <i>gull sp.</i> | |
| N Rough-winged Swallow | |
| Tree Swallow | |
| Rock Pigeon | |
| Mourning Dove | X |
| Black-billed Cuckoo | |
| Yellow-billed Cuckoo | |
| E Screech Owl | |
| Great Horned Owl | |
| Barred Owl | |
| Belted Kingfisher | |
| Red-blld Woodpecker | X |
| Yel-blld Sapsucker | |
| Downy Woodpecker | X |
| Hairy Woodpecker | |
| No. Flicker | X |
| Pileated Woodpecker | X |
| Eastern Phoebe | |
| Eastern Pewee | |
| Acadian Flycatcher | |
| Great Crested Flycatcher | |
| Red-eyed Vireo | |
| White-eyed Vireo | |
| Horned Lark | |
| Blue Jay | X |
| American Crow | X |
| Fish Crow | |
| <i>crow sp.</i> | |
| Com. Raven | |
| Car Chickadee | X |
| Tufted Titmouse | X |
| Red-br Nuthatch | |
| White-br Nuthatch | X |
| Brown Creeper | |
| Carolina Wren | X |
| Winter Wren | |
| GC Kinglet | |
| RC Kinglet | |
| Eastern Bluebird | X |
| Hermit Thrush | X |
| American Robin | X |

| | |
|-------------------------|---|
| Gray Catbird | |
| No Mockingbird | X |
| Brown Thrasher | |
| Cedar Waxwing | X |
| E Starling | |
| Blackpole Warbler | |
| Black-and-White Warbler | |
| Yell-rump Warbler | X |
| Yellow-throated Warbler | |
| Palm Warbler | |
| Pine Warbler | |
| Prothonotary Warbler | |
| Com Yellowthroat | |
| Magnolia Warbler | |
| Scarlet Tanager | |
| E Towhee | |
| Am Tree Sp | |
| Chipping Sp | |
| Field Sp | |
| Savannah Sp | |
| Fox Sp | |
| Song Sparrow | |
| Lincoln's Sp | |
| Swamp Sp | |
| White-thr Sp | X |
| White-crn Sp | |
| Dark-eyed Junco | X |
| No Cardinal | |
| Red-wgd Blkbird | |
| E Meadowlark | |
| Rusty Blackbird | |
| Com Grackle | |
| Brown-hd Cowbird | |
| <i>blackbird sp.</i> | |
| Baltimore Oriole | |
| Indigo Bunting | |
| Purple Finch | |
| House Finch | |
| Pine Siskin | |
| Am Goldfinch | |
| House Sparrow | |

| MANASSAS-BULL RUN CBC CHECKLIST - 18 Dec 11 | | | | | COMPOSITE RESULTS | | |
|---|----------|----------|----------|----------|-----------------------|----------|--------|
| SPECIES | Sector 1 | Sector 2 | Sector 3 | Sector 4 | Sector 5 | Sector 6 | TOTALS |
| Snow Goose | | | | | | | |
| Canada Goose | 928 | 527 | 1573 | 966 | 479 | 492 | 4469 |
| Mute Swan | | | | | | | |
| Tundra Swan | | | | | | | |
| Wood Duck | | | | | | | |
| Gadwall | | | 13 | | | | 13 |
| American Black Duck | | | | 4 | | | 4 |
| Mallard | 52 | 34 | 153 | 54 | | 36 | 329 |
| Northern Shoveler | | | | | | | |
| Northern Pintail | | | | | | | |
| Green-winged Teal | | | | | | | |
| Canvasback | | | | | | | |
| Ring-necked Duck | 3 | | | 9 | | | 12 |
| Lesser Scaup | | | | | | | |
| Bufflehead | | | | 9 | | | 9 |
| Common Goldeneye | | | | | | | |
| Hooded Merganser | | | 12 | 28 | 6 | | 46 |
| Common Merganser | | | 125 | 6 | | | 131 |
| Red-breasted Merganser | | | | | | | |
| Ruddy Duck | | | | | | | |
| <i>duck, sp</i> | | | | | | | |
| Ring-necked Pheasant | | | | | | | |
| Ruffed Grouse | | | | | | | |
| Wild Turkey | | | | | | | |
| Northern Bobwhite | | | | | | | |
| Common Loon | | | | | | | |
| Pied-billed Grebe | 3 | | 11 | | | | 14 |
| Horned Grebe | | | | | | | |
| Double-crested Cormorant | 1 | 1 | 1 | 1 | | | 4 |
| Great Blue Heron | 2 | 2 | 4 | 2 | 1 | 4 | 15 |
| Black Vulture | 12 | 13 | 4 | 20 | 28 | 122 | 199 |
| Turkey Vulture | 49 | 23 | 13 | 15 | 54 | 57 | 211 |
| Bald Eagle: adult | | | 6 | | | 3 | 9 |
| immature | | | 3 | 1 | | | 4 |
| Northern Harrier | 3 | | | | | 3 | 6 |
| Sharp-shinned Hawk | 1 | 2 | | | | | 3 |
| Cooper's Hawk | 6 | 1 | | 3 | | 1 | 11 |
| <i>accipiter sp</i> | 2 | | | | | 1 | 3 |
| Red-shouldered Hawk | 11 | 8 | 5 | 3 | 5 | 15 | 47 |
| Red-tailed Hawk | 16 | 6 | 10 | 4 | 8 | 14 | 58 |
| Rough-legged Hawk * | | | | | | | |
| American Kestrel | | | | 1 | 3 | | 4 |
| Merlin * | 1 | | | | | | 1 |
| Peregrine Falcon * | | | | | | | |
| American Coot | | | 1 | | | | 1 |
| Killdeer | 2 | | 8 | | 17 | | 27 |
| <i>sandpiper, sp</i> | | | | | | | |
| Wilson's Snipe | | | | | | | |
| American Woodcock | | | | | | | |
| Great Egret * | | | | | | | |
| MANASSAS-BULL RUN CBC CHECKLIST - 18 Dec 11 | | | | | COMPOSITE RESULTS - p | | |
| SPECIES | Sector 1 | Sector 2 | Sector 3 | Sector 4 | Sector 5 | Sector 6 | TOTALS |
| Ring-billed Gull | 13 | 3 | 462 | 37 | 5 | 82 | 542 |
| Herring Gull | | | | 15 | | | 15 |

| | | | | | | | |
|---|----------|----------|----------|----------|----------|----------|--------|
| Great Black-backed Gull | | | | | | | |
| <i>gull, sp</i> | | 8 | | 6 | 4 | | 18 |
| Rock Dove (pigeon) | 97 | 28 | 81 | 20 | | 68 | 294 |
| Mourning Dove | 100 | 89 | 30 | 78 | 4 | 91 | 392 |
| Barn Owl | | | | | | | |
| Eastern Screech Owl | | | | | | | |
| Great Horned Owl | 1 | | | | | 1 | 2 |
| Barred Owl | | | | | 2 | | 2 |
| Short-eared Owl | | | | | | | |
| Belted Kingfisher | 2 | 1 | 3 | 1 | | 2 | 9 |
| Red-headed Woodpecker | | | | | 2 | | 2 |
| Red-bellied Woodpecker | 57 | 25 | 68 | 23 | 25 | 30 | 228 |
| Yellow-bellied Sapsucker | 2 | 5 | 4 | | 4 | 4 | 19 |
| Downy Woodpecker | 47 | 30 | 48 | 10 | 18 | 41 | 194 |
| Hairy Woodpecker | 13 | | 6 | | 4 | 1 | 24 |
| Northern (Yellow-shafted) Flicker | 20 | 13 | 38 | 10 | 23 | 58 | 162 |
| Pileated Woodpecker | 11 | 8 | 9 | 2 | 6 | 5 | 41 |
| Eastern Phoebe | | | | | | | |
| Blue Jay | 92 | 50 | 107 | 68 | 108 | 65 | 490 |
| American Crow | 152 | 1592 | 306 | 79 | 83 | 90 | 2072 |
| Fish Crow | 82 | 83 | 39 | 4 | 26 | 160 | 394 |
| <i>crow, sp</i> | 44 | 74 | | 9 | 56 | 50 | 233 |
| Common Raven | 4 | | | | | 3 | 7 |
| Horned Lark | | | | | | | |
| Carolina Chickadee | 224 | 153 | 139 | 58 | 100 | 98 | 772 |
| Tufted Titmouse | 227 | 76 | 106 | 43 | 43 | 81 | 576 |
| Red-breasted Nuthatch | | | | | | | |
| White-breasted Nuthatch | 100 | 49 | 67 | 13 | 16 | 23 | 268 |
| Brown Creeper | 3 | | 3 | | 5 | | 11 |
| Carolina Wren | 66 | 50 | 69 | 22 | 30 | 41 | 278 |
| Eastern Winter Wren | 8 | 1 | 6 | 1 | 4 | 2 | 22 |
| Golden-crowned Kinglet | 2 | 1 | 17 | 2 | 4 | 2 | 28 |
| Ruby-crowned Kinglet | 2 | 1 | | | | | 3 |
| Eastern Bluebird | 56 | 39 | 86 | 31 | 129 | 75 | 416 |
| Hermit Thrush | 5 | 2 | 6 | | 3 | 1 | 17 |
| American Robin | 356 | 149 | 55 | 227 | 82 | 405 | 1274 |
| Gray Catbird | | | | | | | |
| Northern Mockingbird | 22 | 12 | 11 | 27 | 27 | 38 | 137 |
| Brown Thrasher | | | 1 | | | | 1 |
| European Starling | 543 | 213 | 26 | 626 | 45 | 558 | 2011 |
| American Pipit * | | | | | | | |
| Cedar Waxwing | 65 | 113 | 29 | 117 | 271 | 547 | 1142 |
| Yellow-rumped (Myrtle) Warbler | 15 | | 30 | 22 | 38 | 54 | 159 |
| Pine Warbler | | | | | | | |
| Palm Warbler | | | | | | 1 | 1 |
| Eastern Towhee | 1 | 8 | 11 | | 4 | | 24 |
| American Tree Sparrow | | 1 | | | 3 | 1 | 5 |
| MANASSAS-BULL RUN CBC CHECKLIST - 18 Dec 11 COMPOSITE RESULTS - p | | | | | | | |
| | Sector 1 | Sector 2 | Sector 3 | Sector 4 | Sector 5 | Sector 6 | TOTALS |
| Chipping Sparrow | 6 | 1 | | 1 | 4 | 5 | 17 |
| Field Sparrow | | | 7 | 10 | 24 | 19 | 60 |
| Vesper Sparrow * | | | | | | | |
| Savannah Sparrow | | 4 | | | 1 | | 5 |
| Fox Sparrow | | 1 | 2 | | | | 3 |

DEPARTMENT OF GAME AND INLAND FISHERIES WILDLIFE REPORT

Known or Likely Species in the Doves Landing Area of Prince William County

496 Known or Likely Species ordered by Status Concern for Conservation

| BOVA Code | Status* | Tier** | Common Name | Scientific Name |
|---------------------------|-------------------------|------------------------|--|---------------------------------|
| 10032 | FESE | II | Sturgeon, Atlantic | Acipenser oxyrinchus |
| 60006 | SE | II | Floater, brook | Alasmidonta varicosa |
| 30062 | ST | I | Turtle, wood | Glyptemys insculpta |
| 40129 | ST | I | Sandpiper, upland | Bartramia longicauda |
| 40293 | ST | I | Shrike, loggerhead | Lanius ludovicianus |
| 40379 | ST | I | Sparrow, Henslow's | Ammodramus henslowii |
| 40292 | ST | | Shrike, migrant loggerhead | Lanius ludovicianus migrans |
| 100248 | FS | I | Fritillary, regal | Speyeria idalia idalia |

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|-------|----|-----|---|--------------------------|
| 40093 | FS | II | Eagle, bald | Haliaeetus leucocephalus |
| 60029 | FS | III | Lance, yellow | Elliptio lanceolata |
| 30063 | CC | III | Turtle, spotted | Clemmys guttata |
| 30012 | CC | IV | Rattlesnake, timber | Crotalus horridus |
| 40372 | | I | Crossbill, red | Loxia curvirostra |
| 40225 | | I | Sapsucker, yellow-bellied | Sphyrapicus varius |
| 40319 | | I | Warbler, black-throated green | Dendroica virens |
| 40306 | | I | Warbler, golden-winged | Vermivora chrysoptera |
| 40038 | | II | Bittern, American | Botaurus lentiginosus |
| 40052 | | II | Duck, American black | Anas rubripes |

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|-------|--|-----|---|----------------------------------|
| 40213 | | II | Owl, northern saw-whet | Aegolius acadicus |
| 40105 | | II | Rail, king | Rallus elegans |
| 40320 | | II | Warbler, cerulean | Dendroica cerulea |
| 40266 | | II | Wren, winter | Troglodytes troglodytes |
| 30068 | | III | Turtle, eastern box | Terrapene carolina carolina |
| 40037 | | III | Bittern, least | Ixobrychus exilis exilis |
| 40094 | | III | Harrier, northern | Circus cyaneus |
| 40035 | | III | Night-heron, black-crowned | Nycticorax nycticorax hoactii |
| 40036 | | III | Night-heron, yellow-crowned | Nyctanassa violacea violacea |
| 40204 | | III | Owl, barn | Tyto alba pratincola |
| 40181 | | III | Tern, common | Sterna hirundo |

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|--------|--|-----|--|--------------------------------|
| 40270 | | III | Wren, sedge | Cistothorus platensis |
| 100150 | | III | Butterfly, mottled duskywing | Erynnis martialis |
| 10038 | | IV | Alewife | Alosa pseudoharengus |
| 10131 | | IV | Eel, American | Anguilla rostrata |
| 10001 | | IV | Lamprey, least brook | Lampetra aepyptera |
| 10040 | | IV | Shad, American | Alosa sapidissima |
| 20069 | | IV | Salamander, eastern mud | Pseudotriton montanus montanus |
| 20058 | | IV | Siren, greater | Siren lacertina |
| 20061 | | IV | Spadefoot, eastern | Scaphiopus holbrookii |
| 30045 | | IV | Ribbonsnake, common | Thamnophis sauritus sauritus |

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|-------|--|----|--|--------------------------|
| 30017 | | IV | Scarletsnake, northern | Cemophora coccinea copei |
| 30024 | | IV | Snake, eastern hog-nosed | Heterodon platirhinos |
| 30033 | | IV | Snake, queen | Regina septemvittata |
| 40349 | | IV | Blackbird, rusty | Euphagus carolinus |
| 40100 | | IV | Bobwhite, northern | Colinus virginianus |
| 40272 | | IV | Catbird, gray | Dumetella carolinensis |
| 40337 | | IV | Chat, yellow-breasted | Icteria virens virens |
| 40214 | | IV | Chuck-will's-widow | Caprimulgus carolinensis |
| 40264 | | IV | Creeper, brown | Certhia americana |
| 40202 | | IV | Cuckoo, yellow-billed | Coccyzus americanus |

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|-------|--|----|---|-------------------------|
| 40142 | | IV | Dowitcher, short-billed | Limnodromus griseus |
| 40240 | | IV | Flycatcher, willow | Empidonax traillii |
| 40358 | | IV | Grosbeak, rose-breasted | Pheucticus ludovicianus |
| 40028 | | IV | Heron, green | Butorides virescens |
| 40229 | | IV | Kingbird, eastern | Tyrannus tyrannus |
| 40344 | | IV | Meadowlark, eastern | Sturnella magna |
| 40263 | | IV | Nuthatch, brown-headed | Sitta pusilla |
| 40330 | | IV | Ovenbird | Seiurus aurocapilla |
| 40312 | | IV | Parula, northern | Parula americana |
| 40243 | | IV | Pewee, eastern wood | Contopus virens |
| 40123 | | IV | Plover, black-bellied | Pluvialis squatarola |
| 40065 | | IV | Scaup, greater | Aythya marila |

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|-------|--|----|--|------------------------------------|
| 40391 | | IV | Sparrow, field | Spizella pusilla |
| 40378 | | IV | Sparrow, grasshopper | Ammodramus savannarum pratensis |
| 40248 | | IV | Swallow, northern rough-winged | Stelgidopteryx serripennis |
| 40217 | | IV | Swift, chimney | Chaetura pelagica |
| 40355 | | IV | Tanager, scarlet | Piranga olivacea |
| 40180 | | IV | Tern, Forster's | Sterna forsteri |
| 40273 | | IV | Thrasher, brown | Toxostoma rufum |
| 40277 | | IV | Thrush, wood | Hylocichla mustelina |
| 40375 | | IV | Towhee, eastern | Pipilo erythrophthalmus |
| 40297 | | IV | Vireo, yellow- throated | Vireo flavifrons |
| 40302 | | IV | Warbler, black-and- white | Mniotilta varia |

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|-------|--|----|--|------------------------|
| 40307 | | IV | Warbler, blue-winged | Vermivora pinus |
| 40340 | | IV | Warbler, Canada | Wilsonia canadensis |
| 40333 | | IV | Warbler, Kentucky | Oporornis formosus |
| 40328 | | IV | Warbler, prairie | Dendroica discolor |
| 40303 | | IV | Warbler, prothonotary | Protonotaria citrea |
| 40305 | | IV | Warbler, worm-eating | Helmitheros vermivorus |
| 40313 | | IV | Warbler, yellow | Dendroica petechia |
| 40332 | | IV | Waterthrush, Louisiana | Seiurus motacilla |
| 40215 | | IV | Whip-poor-will | Caprimulgus vociferus |
| 40140 | | IV | Woodcock, American | Scolopax minor |
| 40269 | | IV | Wren, marsh | Cistothorus palustris |

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|--------|--|----|--|--------------------------------|
| 50040 | | IV | Weasel, least | Mustela nivalis allegheniensis |
| 60137 | | IV | Creeper | Strophitus undulatus |
| 60159 | | IV | Lance, Carolina | Elliptio angustata |
| 60184 | | IV | Mussel, northern lance | Elliptio fisheriana |
| 60005 | | IV | Mussel, triangle floater | Alasmidonta undulata |
| 60194 | | IV | Snail, gravel elimia | Elimia catenaria |
| 60176 | | IV | Spike, Atlantic | Elliptio producta |
| 70104 | | IV | Crayfish, Allegheny | Orconectes obscurus |
| 100223 | | IV | Butterfly, frosted elfin | Callophrys irus |
| 10188 | | | Bass, largemouth | Micropterus salmoides |
| 10186 | | | Bass, smallmouth | Micropterus dolomieu |
| 10168 | | | Bass, striped | Morone saxatilis |
| 10167 | | | Bass, white | Morone chrysops |
| 10183 | | | Bluegill | Lepomis macrochirus |
| 10123 | | | Bullhead, brown | Ameiurus nebulosus |
| 10122 | | | Bullhead, yellow | Ameiurus natalis |
| 10062 | | | Carp, common | Cyprinus carpio |
| 10125 | | | Catfish, channel | Ictalurus punctatus |
| 10120 | | | Catfish, white | Ameiurus catus |

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|-------|--|--|---|----------------------------|
| 10103 | | | Chub, creek | Semotilus atromaculatus |
| 10067 | | | Chub, river | Nocomis micropogon |
| 10106 | | | Chubsucker, creek | Erimyzon oblongus |
| 10190 | | | Crappie, black | Pomoxis nigromaculatus |
| 10189 | | | Crappie, white | Pomoxis annularis |
| 10101 | | | Dace, blacknose | Rhinichthys atratulus |
| 10366 | | | Dace, rosyside | Clinostomus funduloides |
| 10193 | | | Darter, fantail | Etheostoma flabellare |
| 10213 | | | Darter, shield | Percina peltata |
| 10211 | | | Darter, stripeback | Percina notogramma |
| 10104 | | | Fallfish | Semotilus corporalis |
| 10033 | | | Gar, longnose | Lepisosteus osseus |
| 10059 | | | Goldfish | Carassius auratus |
| 10045 | | | Herring, blueback | Alosa aestivalis |
| 10143 | | | Killifish, banded | Fundulus diaphanus |
| 10002 | | | Lamprey, sea | Petromyzon marinus |
| 10129 | | | Madtom, margined | Noturus insignis |
| 10099 | | | Minnow, bluntnose | Pimephales notatus |
| 10063 | | | Minnow, cutlips | Exoglossum maxillingua |
| 10408 | | | Minnow, eastern silvery | Hybognathus regius |
| 10148 | | | Mosquitofish, eastern | Gambusia holbrooki |
| 10166 | | | Perch, white | Morone americana |
| 10206 | | | Perch, yellow | Perca flavescens |
| 10056 | | | Pickerel, chain | Esox niger |
| 10055 | | | Pickerel, redfin | Esox americanus americanus |
| 10364 | | | Pike, northern | Esox lucius |
| 10182 | | | Pumpkinseed | Lepomis gibbosus |
| 10283 | | | Sculpin, mottled | Cottus bairdi |
| 10407 | | | Sculpin, Potomac | Cottus girardi |
| 10041 | | | Shad, gizzard | Dorosoma cepedianum |
| 10042 | | | Shad, threadfin | Dorosoma petenense |

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|-------|--|--|--|---|
| 10072 | | | Shiner, comely | Notropis amoenus |
| 10080 | | | Shiner, common | Luxilus cornutus |
| 10068 | | | Shiner, golden | Notemigonus crysoleucas |
| 10073 | | | Shiner, satinfin | Cyprinella analostana |
| 10082 | | | Shiner, spottail | Notropis hudsonius |
| 10086 | | | Shiner, swallowtail | Notropis procne |
| 10108 | | | Sucker, northern hog | Hypentelium nigricans |
| 10105 | | | Sucker, white | Catostomus commersoni |
| 10181 | | | Sunfish, green | Lepomis cyanellus |
| 10180 | | | Sunfish, redbreast | Lepomis auritus |
| 20004 | | | Bullfrog, American | Lithobates catesbeianus |
| 20012 | | | Frog, eastern cricket | Acris crepitans |
| 20008 | | | Frog, northern green | Lithobates clamitans melanota |
| 20013 | | | Frog, pickerel | Lithobates palustris |
| 20016 | | | Frog, southern leopard | Lithobates sphenoccephalus utricularius |
| 20018 | | | Frog, upland chorus | Pseudacris feriarum |
| 20019 | | | Frog, wood | Lithobates sylvaticus |
| 20065 | | | Newt, red-spotted | Notophthalmus viridescens viridescens |
| 20071 | | | Peeper, spring | Pseudacris crucifer |
| 20043 | | | Salamander, eastern red-backed | Plethodon cinereus |
| 20029 | | | Salamander, four-toed | Hemidactylum scutatum |
| 20035 | | | Salamander, marbled | Ambystoma opacum |
| 20038 | | | Salamander, northern dusky | Desmognathus fuscus |
| 20070 | | | Salamander, northern red | Pseudotriton ruber ruber |

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|-------|--|--|---|---|
| 20053 | | | Salamander, northern two-lined | Eurycea bislineata |
| 20049 | | | Salamander, spotted | Ambystoma maculatum |
| 20051 | | | Salamander, three-lined | Eurycea guttolineata |
| 20080 | | | Salamander, white-spotted slimy | Plethodon cylindraceus |
| 20059 | | | Toad, eastern American | Anaxyrus americanus americanus |
| 20062 | | | Toad, Fowler's | Anaxyrus fowleri |
| 20006 | | | Treefrog, Cope's gray | Hyla chrysoscelis |
| 20009 | | | Treefrog, green | Hyla cinerea |
| 30041 | | | Brownsnake, northern | Storeria dekayi dekayi |
| 30059 | | | Cooter, eastern river | Pseudemys concinna concinna |
| 30057 | | | Cooter, northern red-bellied | Pseudemys rubriventris |
| 30016 | | | Copperhead, northern | Agkistrodon contortrix mokasen |
| 30022 | | | Cornsake, red | Pantherophis guttatus |
| 30049 | | | Earthsake, eastern smooth | Virginia valeriae valeriae |
| 30044 | | | Gartersnake, eastern | Thamnophis sirtalis sirtalis |
| 30038 | | | Greensnake, northern rough | Opheodrys aestivus aestivus |
| 30026 | | | Kingsnake, eastern | Lampropeltis getula getula |
| 30027 | | | Kingsnake, mole | Lampropeltis calligaster rhombomaculata |
| 30002 | | | Lizard, eastern fence | Sceloporus undulatus |

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|-------|--|--|--|---|
| 30029 | | | Milksnake, eastern | Lampropeltis triangulum triangulum |
| 30018 | | | Racer, northern black | Coluber constrictor constrictor |
| 30008 | | | Racerunner, eastern six-lined | Aspidoscelis sexlineata sexlineata |
| 30023 | | | Ratsnake, eastern | Pantherophis allegghaniensis |
| 30006 | | | Skink, broad-headed | Plestiodon laticeps |
| 30004 | | | Skink, common five-lined | Plestiodon fasciatus |
| 30007 | | | Skink, little brown | Scincella lateralis |
| 30005 | | | Skink, southeastern five-lined | Plestiodon inexpectatus |
| 30042 | | | Snake, northern red-bellied | Storeria occipitomaculata occipitomaculata |
| 30020 | | | Snake, northern ring-necked | Diadophis punctatus edwardsii |
| 30052 | | | Turtle, eastern musk | Sternotherus odoratus |
| 30060 | | | Turtle, eastern painted | Chrysemys picta picta |
| 30050 | | | Turtle, snapping | Chelydra serpentina |
| 30034 | | | Watersnake, northern | Nerodia sipedon sipedon |
| 30019 | | | Wormsnake, eastern | Carphophis amoenus amoenus |
| 40346 | | | Blackbird, red-winged | Agelaius phoeniceus |
| 40282 | | | Bluebird, eastern | Sialia sialis |
| 40068 | | | Bufflehead | Bucephala albeola |
| 40361 | | | Bunting, indigo | Passerina cyanea |
| 40401 | | | Bunting, snow | Plectrophenax nivalis nivalis |
| 40064 | | | Canvasback | Aythya valisineria |

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|-------|--|--|---|-------------------------------|
| 40357 | | | Cardinal, northern | Cardinalis cardinalis |
| 40258 | | | Chickadee, Carolina | Poecile carolinensis |
| 40113 | | | Coot, American | Fulica americana |
| 40024 | | | Cormorant, double-crested | Phalacrocorax auritus |
| 40023 | | | Cormorant, great | Phalacrocorax carbo |
| 40353 | | | Cowbird, brown-headed | Molothrus ater |
| 40373 | | | Crossbill, white-winged | Loxia leucoptera |
| 40255 | | | Crow, American | Corvus brachyrhynchos |
| 40256 | | | Crow, fish | Corvus ossifragus |
| 40203 | | | Cuckoo, black-billed | Coccyzus erythrophthalmus |
| 40364 | | | Dickcissel | Spiza americana |
| 40198 | | | Dove, mourning | Zenaida macroura carolinensis |
| 40069 | | | Duck, long-tailed | Clangula hyemalis |
| 40076 | | | Duck, ruddy | Oxyura jamaicensis |
| 40061 | | | Duck, wood | Aix sponsa |
| 40030 | | | Egret, cattle | Bubulcus ibis |
| 40032 | | | Egret, great | Ardea alba egretta |
| 40367 | | | Finch, house | Carpodacus mexicanus |
| 40366 | | | Finch, purple | Carpodacus purpureus |
| 40221 | | | Flicker, northern | Colaptes auratus |
| 40239 | | | Flycatcher, Acadian | Empidonax virescens |
| 40234 | | | Flycatcher, great crested | Myiarchus crinitus |
| 40053 | | | Gadwall | Anas strepera |
| 40284 | | | Gnatcatcher, blue-gray | Polioptila caerulea |
| 40371 | | | Goldfinch, American | Carduelis tristis |
| 40045 | | | Goose, Canada | Branta canadensis |

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|-------|--|--|--|-----------------------------------|
| 40049 | | | Goose, lesser snow | Chen caerulescens caerulescens |
| 40410 | | | Goose, snow | Chen caerulescens |
| 40352 | | | Grackle, common | Quiscalus quiscula |
| 40008 | | | Grebe, pied-billed | Podilymbus podiceps |
| 40360 | | | Grosbeak, blue | Guiraca caerulea caerulea |
| 40365 | | | Grosbeak, evening | Coccothraustes vespertinus |
| 40099 | | | Grouse, ruffed | Bonasa umbellus |
| 40165 | | | Gull, great black-backed | Larus marinus |
| 40167 | | | Gull, herring | Larus argentatus |
| 40173 | | | Gull, laughing | Larus atricilla |
| 40170 | | | Gull, ring-billed | Larus delawarensis |
| 40089 | | | Hawk, broad-winged | Buteo platypterus |
| 40086 | | | Hawk, Cooper's | Accipiter cooperii |
| 40088 | | | Hawk, red-shouldered | Buteo lineatus lineatus |
| 40087 | | | Hawk, red-tailed | Buteo jamaicensis |
| 40090 | | | Hawk, rough-legged | Buteo lagopus johannis |
| 40085 | | | Hawk, sharp-shinned | Accipiter striatus velox |
| 40027 | | | Heron, great blue | Ardea herodias herodias |
| 40218 | | | Hummingbird, ruby-throated | Archilochus colubris |
| 40252 | | | Jay, blue | Cyanocitta cristata |
| 40387 | | | Junco, dark-eyed | Junco hyemalis |
| 40098 | | | Kestrel, American | Falco sparverius sparverius |
| 40119 | | | Killdeer | Charadrius vociferus |
| 40220 | | | Kingfisher, belted | Ceryle alcyon |
| 40285 | | | Kinglet, golden-crowned | Regulus satrapa |

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|-------|--|--|--|--------------------------------|
| 40286 | | | Kinglet, ruby-crowned | Regulus calendula |
| 40245 | | | Lark, horned | Eremophila alpestris |
| 40051 | | | Mallard | Anas platyrhynchos |
| 40251 | | | Martin, purple | Progne subis |
| 40078 | | | Merganser, common | Mergus merganser americanus |
| 40077 | | | Merganser, hooded | Lophodytes cucullatus |
| 40079 | | | Merganser, red-breasted | Mergus serrator serrator |
| 40271 | | | Mockingbird, northern | Mimus polyglottos |
| 40112 | | | Moorhen, common | Gallinula chloropus cachinnans |
| 40216 | | | Nighthawk, common | Chordeiles minor |
| 40262 | | | Nuthatch, red-breasted | Sitta canadensis |
| 40261 | | | Nuthatch, white-breasted | Sitta carolinensis |
| 40348 | | | Oriole, Baltimore | Icterus galbula |
| 40347 | | | Oriole, orchard | Icterus spurius |
| 40095 | | | Osprey | Pandion haliaetus carolinensis |
| 40209 | | | Owl, barred | Strix varia |
| 40206 | | | Owl, great horned | Bubo virginianus |
| 40210 | | | Owl, long-eared | Asio otus |
| 40211 | | | Owl, short-eared | Asio flammeus |
| 40101 | | | Pheasant, ring-necked | Phasianus colchicus |
| 40236 | | | Phoebe, eastern | Sayornis phoebe |
| 40197 | | | Pigeon, rock | Columba livia |
| 40054 | | | Pintail, northern | Anas acuta acuta |
| 40287 | | | Pipit, American | Anthus rubescens |
| 40254 | | | Raven, common | Corvus corax |

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|-------|--|--|---|--------------------------------|
| 40341 | | | Redstart, American | Setophaga ruticilla |
| 40275 | | | Robin, American | Turdus migratorius |
| 40132 | | | Sandpiper, solitary | Tringa solitaria |
| 40134 | | | Sandpiper, spotted | Actitis macularia |
| 40066 | | | Scaup, lesser | Aythya affinis |
| 40075 | | | Scoter, black | Melanitta nigra americana |
| 40205 | | | Screech-owl, eastern | Megascops asio |
| 40060 | | | Shoveler, northern | Anas clypeata |
| 40370 | | | Siskin, pine | Carduelis pinus |
| 40141 | | | Snipe, Wilson's | Gallinago delicata |
| 40389 | | | Sparrow, chipping | Spizella passerina |
| 40395 | | | Sparrow, fox | Passerella iliaca |
| 40342 | | | Sparrow, house | Passer domesticus |
| 40377 | | | Sparrow, savannah | Passerculus sandwichensis |
| 40398 | | | Sparrow, song | Melospiza melodia |
| 40397 | | | Sparrow, swamp | Melospiza georgiana |
| 40383 | | | Sparrow, vesper | Poocetes gramineus |
| 40393 | | | Sparrow, white-crowned | Zonotrichia leucophrys |
| 40394 | | | Sparrow, white-throated | Zonotrichia albicollis |
| 40294 | | | Starling, European | Sturnus vulgaris |
| 40247 | | | Swallow, bank | Riparia riparia |
| 40249 | | | Swallow, barn | Hirundo rustica |
| 40246 | | | Swallow, tree | Tachycineta bicolor |
| 40043 | | | Swan, mute | Cygnus olor |
| 40044 | | | Swan, tundra | Cygnus columbianus columbianus |
| 40356 | | | Tanager, summer | Piranga rubra |
| 40057 | | | Teal, blue-winged | Anas discors orphna |
| 40056 | | | Teal, green-winged | Anas crecca carolinensis |
| 40189 | | | Tern, Caspian | Sterna caspia |

| | | | | |
|-------|--|--|--|-----------------------------------|
| 40278 | | | Thrush, hermit | Catharus guttatus |
| 40260 | | | Titmouse, tufted | Baeolophus bicolor |
| 40102 | | | Turkey, wild | Meleagris gallopavo silvestris |
| 40298 | | | Vireo, blue-headed | Vireo solitarius |
| 40299 | | | Vireo, red-eyed | Vireo olivaceus |
| 40301 | | | Vireo, warbling | Vireo gilvus gilvus |
| 40295 | | | Vireo, white-eyed | Vireo griseus |
| 40081 | | | Vulture, black | Coragyps atratus |
| 40080 | | | Vulture, turkey | Cathartes aura |
| 40316 | | | Warbler, black-throated blue | Dendroica caerulescens |
| 40325 | | | Warbler, blackpoll | Dendroica striata |
| 40323 | | | Warbler, chestnut-sided | Dendroica pensylvanica |
| 40338 | | | Warbler, hooded | Wilsonia citrina |
| 40314 | | | Warbler, magnolia | Dendroica magnolia |
| 40311 | | | Warbler, Nashville | Vermivora ruficapilla |
| 40329 | | | Warbler, palm | Dendroica palmarum |
| 40326 | | | Warbler, pine | Dendroica pinus |
| 40317 | | | Warbler, yellow-rumped | Dendroica coronata cornata |
| 40322 | | | Warbler, yellow-throated | Dendroica dominica |
| 40331 | | | Waterthrush, northern | Seiurus noveboracensis |
| 40290 | | | Waxwing, cedar | Bombycilla cedrorum |
| 40059 | | | Wigeon, American | Anas americana |
| 40058 | | | Wigeon, Eurasian | Anas penelope |
| 40227 | | | Woodpecker, downy | Picoides pubescens medianus |
| 40226 | | | Woodpecker, hairy | Picoides villosus |
| 40222 | | | Woodpecker, pileated | Dryocopus pileatus |

| | | | | |
|-------|--|--|---|---|
| 40223 | | | Woodpecker, red-bellied | Melanerpes carolinus |
| 40224 | | | Woodpecker, red-headed | Melanerpes erythrocephalus |
| 40268 | | | Wren, Carolina | Thryothorus ludovicianus |
| 40265 | | | Wren, house | Troglodytes aedon |
| 40336 | | | Yellowthroat, common | Geothlypis trichas |
| 50028 | | | Bat, big brown | Eptesicus fuscus fuscus |
| 50029 | | | Bat, eastern red | Lasiurus borealis borealis |
| 50033 | | | Bat, evening | Nycticeius humeralis humeralis |
| 50030 | | | Bat, hoary | Lasiurus cinereus cinereus |
| 50020 | | | Bat, little brown | Myotis lucifugus lucifugus |
| 50025 | | | Bat, silver-haired | Lasionycteris noctivagans |
| 50069 | | | Beaver, American | Castor canadensis |
| 50051 | | | Bobcat | Lynx rufus rufus |
| 50056 | | | Chipmunk, common eastern | Tamias striatus striatus |
| 50055 | | | Chipmunk, Fisher's eastern | Tamias striatus fisheri |
| 50103 | | | Cottontail, eastern | Sylvilagus floridanus mallurus |
| 50125 | | | Coyote | Canis latrans |
| 50108 | | | Deer, white-tailed | Odocoileus virginianus |
| 50050 | | | Fox, common gray | Urocyon cinereoargenteus cinereoargenteus |
| 50049 | | | Fox, red | Vulpes vulpes fulva |
| 50085 | | | Lemming, Stone's southern bog | Synaptomys cooperi stonei |
| 50042 | | | Mink, common | Mustela vison mink |

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|-------|--|--|--|---|
| 50017 | | | Mole, eastern | Scalopus aquaticus aquaticus |
| 50019 | | | Mole, star-nosed | Condylura cristata cristata |
| 50074 | | | Mouse, common white-footed | Peromyscus leucopus leucopus |
| 50071 | | | Mouse, eastern harvest | Reithrodontomys humulis virginianus |
| 50098 | | | Mouse, house | Mus musculus musculus |
| 50099 | | | Mouse, meadow jumping | Zapus hudsonius americanus |
| 50073 | | | Mouse, northern white-footed | Peromyscus leucopus noveboracensis |
| 50124 | | | Mouse, prairie deer | Peromyscus maniculatus bairdii |
| 50093 | | | Muskrat, large- toothed | Ondatra zibethicus macrodon |
| 50022 | | | Myotis, northern | Myotis septentrionalis septentrionalis |
| 50001 | | | Opossum, Virginia | Didelphis virginiana virginiana |
| 50045 | | | Otter, northern river | Lontra canadensis lataxina |
| 50027 | | | Pipistrelle, eastern | Pipistrellus subflavus subflavus |
| 50038 | | | Raccoon | Procyon lotor lotor |
| 50079 | | | Rat, hispid cotton | Sigmodon hispidus virginianus |
| 50078 | | | Rat, marsh rice | Oryzomys palustris palustris |
| 50095 | | | Rat, Norway | Rattus norvegicus norvegicus |
| 50014 | | | Shrew, Dismal Swamp short-tailed | Blarina brevicauda telmalestes |

| | | | | |
|-------|--|--|---|--|
| 50013 | | | Shrew, Kirtland's short-tailed | Blarina brevicauda kirtlandi |
| 50015 | | | Shrew, least | Cryptotis parva parva |
| 50010 | | | Shrew, pygmy | Sorex hoyi winnemana |
| 50007 | | | Shrew, southeastern | Sorex longirostris longirostris |
| 50047 | | | Skunk, striped | Mephitis mephitis nigra |
| 50048 | | | Skunk, striped | Mephitis mephitis mephitis |
| 50063 | | | Squirrel, eastern fox | Sciurus niger vulpinus |
| 50058 | | | Squirrel, northern gray | Sciurus carolinensis pennsylvanicus |
| 50065 | | | Squirrel, southern flying | Glaucomys volans volans |
| 50059 | | | Squirrel, talkative red | Tamiasciurus hudsonicus loquax |
| 50087 | | | vole, common Gapper's red-backed | Clethrionomys gapperi gapperi |
| 50082 | | | Vole, meadow | Microtus pennsylvanicus pennsylvanicus |
| 50091 | | | Vole, pine | Microtus pinetorum scalopsoides |
| 50041 | | | Weasel, long-tailed | Mustela frenata noveboracensis |
| 50054 | | | Woodchuck | Marmota monax monax |
| 60012 | | | Floater, eastern | Pyganodon cataracta |
| 60025 | | | Mussel, eastern elliptio | Elliptio complanata |
| 70099 | | | Crayfish | Fallicambarus uhleri |
| 70102 | | | Crayfish, Appalachian brook | Cambarus bartonii bartonii |
| 70095 | | | Crayfish, devil | Cambarus diogenes diogenes |
| 70126 | | | Crayfish, Digger | Fallicambarus fodiens |

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|--------|--|--|--|----------------------------|
| 70094 | | | Crayfish, no common name | Cambarus acuminatus |
| 70098 | | | Crayfish, spiny cheek | Orconectes limosus |
| 70120 | | | Crayfish, White River | Procambarus acutus |
| 100043 | | | Armyworm | Pseudaletia unipuncta |
| 100041 | | | Borer, European corn | Ostrinia nubilatis |
| 100220 | | | Butterfly, American copper | Lycaena phlaeas |
| 100262 | | | Butterfly, American lady | Vanessa virginiensis |
| 100245 | | | Butterfly, American snout | Libytheana carinenta |
| 100274 | | | Butterfly, Appalachian brown | Satyroides appalachia |
| 100232 | | | Butterfly, banded hairstreak | Satyrium calanus |
| 100092 | | | Butterfly, black swallowtail | Papilio polyxenes asterius |
| 100137 | | | Butterfly, brown elfin | Callophrys augustinus |
| 100205 | | | Butterfly, cabbage white | Pieris rapae |
| 100167 | | | Butterfly, carus skipper | Polites carus |
| 100159 | | | Butterfly, clouded skipper | Lerema accius |
| 100094 | | | Butterfly, clouded sulphur | Colias philodice |
| 100165 | | | Butterfly, cobweb skipper | Hesperia metea |
| 100265 | | | Butterfly, common buckeye | Junonia coenia |

| | | | | |
|--------|--|--|--|---------------------|
| 100157 | | | Butterfly, common sootywing | Pholisora catullus |
| 100277 | | | Butterfly, common wood-nymph | Cercyonis pegala |
| 100230 | | | Butterfly, coral hairstreak | Satyrium titus |
| 100168 | | | Butterfly, crossline skipper | Polites origenes |
| 100184 | | | Butterfly, Dion skipper | Euphyes dion |
| 100147 | | | Butterfly, dreamy duskywing | Erynnis icelus |
| 100185 | | | Butterfly, Dun skipper | Euphyes vestris |
| 100188 | | | Butterfly, dusted skipper | Atrytonopsis hianna |
| 100258 | | | Butterfly, eastern comma | Polygonia comma |
| 100225 | | | Butterfly, eastern pine elfin | Callophrys niphon |
| 100238 | | | Butterfly, eastern tailed-blue | Everes comyntas |
| 100093 | | | Butterfly, eastern tiger swallowtail | Papilio glaucus |
| 100161 | | | Butterfly, European skipper | Thymelicus lineola |
| 100209 | | | Butterfly, falcate orangetip | Anthocharis midea |
| 100162 | | | Butterfly, fiery skipper | Hylephila phyleus |
| 100139 | | | Butterfly, golden-banded skipper | Autochton cellus |
| 100228 | | | Butterfly, gray hairstreak | Strymon melinus |

| | | | | |
|--------|--|--|--|-----------------------|
| 100249 | | | Butterfly, great spangled fritillary | Speyeria cybele |
| 100270 | | | Butterfly, hackberry emperor | Asterocampa celtis |
| 100145 | | | Butterfly, Hayhurst's scallopedwing | Staphylus hayhurstii |
| 100224 | | | Butterfly, Henry's elfin | Callophrys henrici |
| 100141 | | | Butterfly, hoary edge | Achalarus lyciades |
| 100149 | | | Butterfly, Horace's duskywing | Erynnis horatius |
| 100148 | | | Butterfly, Juvenal's duskywing | Erynnis juvenalis |
| 100160 | | | Butterfly, least skipper | Ancyloxypha numitor |
| 100163 | | | Butterfly, Leonard's skipper | Hesperia leonardus |
| 100175 | | | Butterfly, little glassywing | Pompeius verna |
| 100279 | | | Butterfly, little wood-satyr | Megisto cymela |
| 100252 | | | Butterfly, meadow fritillary | Boloria bellona |
| 100079 | | | Butterfly, monarch | Danaus plexippus |
| 100090 | | | Butterfly, mourning cloak | Nymphalis antiopa |
| 100173 | | | Butterfly, northern broken dash | Wallengrenia egeremet |
| 100143 | | | Butterfly, northern cloudywing | Thorybes pylades |
| 100272 | | | Butterfly, northern pearly-eye | Enodia anhedon |

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|--------|--|--|---|-----------------------------|
| 100197 | | | Butterfly, Ocola skipper | Panoquina ocola |
| 100236 | | | Butterfly, olive juniper hairstreak | Callophrys gryneus gryneus |
| 100211 | | | Butterfly, orange sulphur | Colias eurytheme |
| 100257 | | | Butterfly, pearl crescent | Phyciodes tharos |
| 100359 | | | Butterfly, Peck's skipper | Polites peckius |
| 100200 | | | Butterfly, pipevine swallowtail | Battus philenor |
| 100259 | | | Butterfly, question mark | Polygonia interrogationis |
| 100264 | | | Butterfly, red admiral | Vanessa atalanta |
| 100235 | | | Butterfly, red-banded hairstreak | Calycopis cecrops |
| 100268 | | | Butterfly, red-spotted purple | Limenitis arthemis astyanax |
| 100174 | | | Butterfly, sachem | Atalopedes campestris |
| 100082 | | | Butterfly, silver-spotted skipper | Epargyreus clarus |
| 100255 | | | Butterfly, silvery checkerspot | Chlosyne nycteis |
| 100146 | | | Butterfly, sleepy duskywing | Erynnis brizo |
| 100142 | | | Butterfly, southern cloudywing | Thorybes bathyllus |
| 100202 | | | Butterfly, spicebush swallowtail | Papilio troilus |
| 100239 | | | Butterfly, spring azure | Celastrina ladon |

| | | | | |
|--------|--|--|--|----------------------------|
| 100234 | | | Butterfly, striped hairstreak | Satyrium liparops |
| 100158 | | | Butterfly, swarthy skipper | Nastra Iherminier |
| 100169 | | | Butterfly, tawny-edged skipper | Polites themistocles |
| 100247 | | | Butterfly, variegated fritillary | Euptoieta claudia |
| 100266 | | | Butterfly, viceroy | Limenitis archippus |
| 100227 | | | Butterfly, white M hairstreak | Parrhasius m-album |
| 100153 | | | Butterfly, wild indigo duskywing | Erynnis baptisiae |
| 100180 | | | Butterfly, Zabulon skipper | Poanes zabulon |
| 100204 | | | Butterfly, zebra swallowtail | Eurytides marcellus |
| 100026 | | | Deerfly | Chrysops vittatus vittatus |
| 100042 | | | Earworm, corn | Heliathis zea |
| 100290 | | | Moth, buck | Hemileuca maia |
| 100295 | | | Moth, Carolina sphinx | Manduca sexta |
| 100100 | | | Moth, catalpa sphinx | Ceratomia catalpae |
| 100040 | | | Moth, codling | Cydia pomonella |
| 100296 | | | Moth, Five-spotted hawk | Manduca quinquemaculata |
| 100047 | | | Moth, gypsy | Lymantria dispar |
| 100312 | | | Moth, hummingbird clearwing | Hemaris thysbe |
| 100283 | | | Moth, imperial | Eacles imperialis |
| 100096 | | | Moth, io | Automeris io |
| 100095 | | | Moth, Luna | Actias luna |

| | | | | |
|--------|--|--|--|--------------------------------|
| 100289 | | | Moth, pinkstriped oakworm | Anisota virginensis |
| 100098 | | | Moth, Polyphemus | Antheraea polyphemus |
| 100284 | | | Moth, regal | Citheronia regalis |
| 100286 | | | Moth, rosy maple | Dryocampa rubicunda |
| 100310 | | | Moth, small-eyed sphinx | Paonias myops |
| 100101 | | | Moth, snowberry clearwing | Hemeris diffinis |
| 100307 | | | Moth, Southern pine sphinx | Lapara coniferarum |
| 100287 | | | Moth, spiny oakworm | Anisota stigma |
| 100311 | | | Moth, walnut sphinx | Laotloe juglandis |
| 100300 | | | Moth, waved shinx | Ceratomia undulosa |
| 100294 | | | Moth, whitelined sphinx | Hyles lineata |
| 100193 | | | Roadside-skipper, common | Amblyscirtes vialis |
| 110230 | | | Tick, American dog | Dermacentor variabilis |
| 110232 | | | Tick, brown dog | Rhipicephalus sanguineus |
| 110228 | | | Tick, lone star | Amblyomma americanum |
| 110231 | | | Tick, rabbit | Haemaphysalis leporispalustris |
| 110229 | | | Tick, winter | Dermacentor albipictus |

EXISTING UTILITIES

As the character of the area surrounding Doves Landing has changed little over the past 50 years, the development of utilities in the area is scarce. The County leases a cell tower site to Verizon. All utilities are residential in nature. The adjacent property owners rely on well and septic. Electric service of various levels is available along Doves Lane. Phone service is available on Doves Lane as well. In addition there is a phone line easement that enters the property along the waterfront.

HYDROLOGY

Doves Landing is situated at the confluence of Kettle Run and Broad Run as they merge to form the Occoquan River. The property drains into the Occoquan River which is part of the Chesapeake Bay watershed. The 240 acre site includes over 25 acres of wetlands as well as extensive floodplain. The site is 95% forested and the forest acts as a filter for rainwater and off site drainage. This serves as an important feature that greatly improves the water quality of the surrounding water resources. It is essential that any improvements to the property protect the existing forested condition and its value to the areas water quality.

TOPOGRAPHY

The topography of Doves Landing is similar to the surrounding landscape. The property is within the piedmont region of Virginia. Virginia's piedmont is the gently rolling land between the mountains and the Tidewater. It begins at the foot of the Blue Ridge Mountains and extends eastward, becoming less undulating the closer it comes to the fall line. Prince William County lies in the northern portion of the region where the Piedmont is narrow as it approaches the tidewater of the Potomac River.

Doves Landing topography features moderately steep slopes to the approaches of the Occoquan River and Broad Run. Project area elevations vary from 145 to 225 feet above sea level. The existing trails along the downward slopes are forested and thus absorb rain water well.

SOILS/GEOLOGY


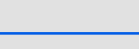

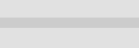
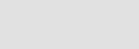
The project area is located on the interface of the Culpeper Basin and the Piedmont Plateau Physiographic Provinces. The project area is located where Broad Run and Cedar Run join to form the Occoquan River, approximately 26 miles upstream from the confluence of the Occoquan River and the Potomac River, in central Prince William County, Virginia. Project area elevations vary from 145 to 225 feet above sea level.

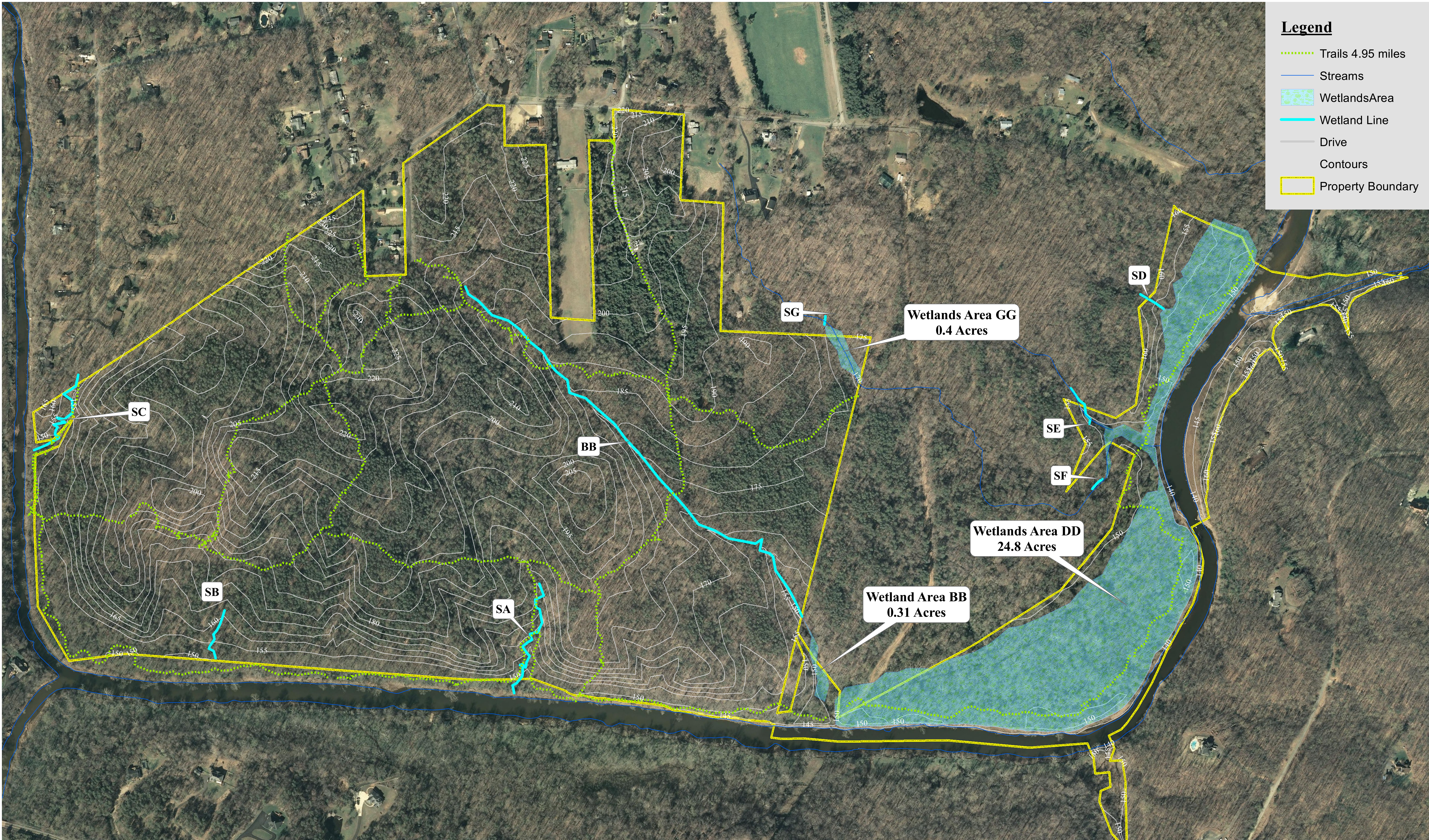
This portion of the piedmont plateau formed in the residuum of sedimentary rocks of siltstone, sandstone conglomerate, and basic rocks of diabase and basalt. The mapped soil complex for the project area is the Arcola-Panoram-Nestoria. This soil complex is moderately deep, deep, and shallow soils that are well drained and have a loamy subsoil. The major soils types' onsite are Arcola Silt Loam, Arcola-Nestoria Complex, Bermudian Silt Loam, Braddock Loam, Brentsville Sandy Loam, Calverton Silt Loam, Manassas Silt Loam, Meadowville, Silt Loam, Panorama Silt Loam, and Rowland silt loam (United States Department of Agriculture, Soil Conservation Service 1989). The soil types have slopes that range from 0 to 50 percent slopes and are mapped on the custom soils report included in **Attachment XXX** (U.S. Department of Agriculture, Natural Resources Conservation Service, Prince William County Soil Survey). Below is a chart which highlights the major soil types and includes the percentages of area encompassed by the soil.

Prince William County, Virginia (VA153)

| Map Unit Symbol | Map Unit | Acres in AOI | Percent of |
|---------------------------|--|---------------------|-------------------|
| 1A | Aden silt loam, 0 to 2 percent slopes | 0.1 | |
| 3A | Albano silt loam, 0 to 4 percent slopes | 2.2 | |
| 4B | Arcola silt loam, 2 to 7 percent slopes | 4.9 | |
| 5C | Arcola-Nestoria complex, 7 to 15 | 5.7 | |
| 5D | Arcola-Nestoria complex, 15 to 25 | 2.2 | |
| 7A | Bermudian silt loam, 0 to 2 percent | 43.3 | |
| 8C | Braddock loam, 7 to 15 percent slopes | 6.4 | |
| 9C | Brentsville sandy loam, 7 to 15 percent | 68.1 | |
| 11 | Calverton silt loam, 0 to 7 percent slopes | 36.8 | |
| 14 | Codorus loam, 0 to 2 percent slopes | 0.3 | |
| 19 | Elioak loam, 2 to 7 percent slopes | 0.0 | |
| 20 | Elsinboro sandy loam, 2 to 7 percent | 1.9 | |
| 24 | Glenelg-Buckhall complex, 7 to 15 | 1.7 | |
| 35 | Manassas silt loam, 2 to 7 percent slopes | 42.4 | |
| 38 | Meadowville loam, 0 to 5 percent slopes | 2.5 | |
| 43 | Nestoria gravelly silt loam, 25 to 50 | 0.7 | |
| 46 | Panorama silt loam, 2 to 7 percent | 17.1 | |
| 46 | Panorama silt loam, 7 to 15 percent | 2.6 | |
| 49 | Rowland silt loam, 0 to 2 percent slopes | 4.2 | |
| 51 E | Stumptown very flaggy loam, 25 to 50 percent slopes | 1.9 | |
| W | Water | 25.1 | 9.3% |
| Totals for Area of | | 270.1 | 100.0% |

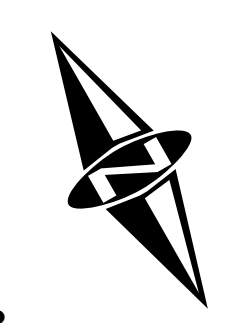
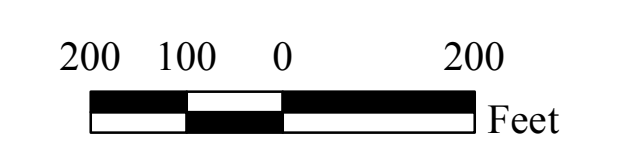
Legend

-  Trails 4.95 miles
-  Streams
-  Wetlands Area
-  Wetland Line
-  Drive
-  Contours
-  Property Boundary




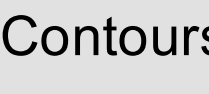

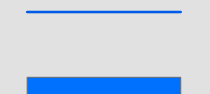

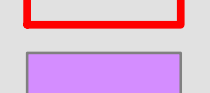
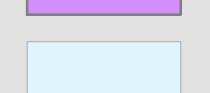
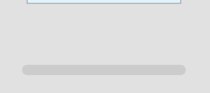
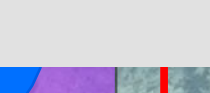
Total Area of Wetlands: 25.51 acres

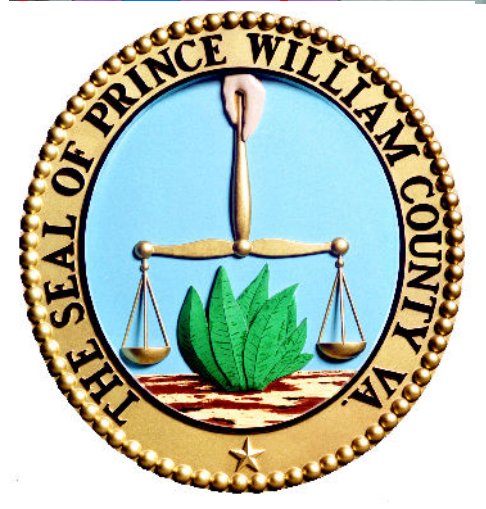
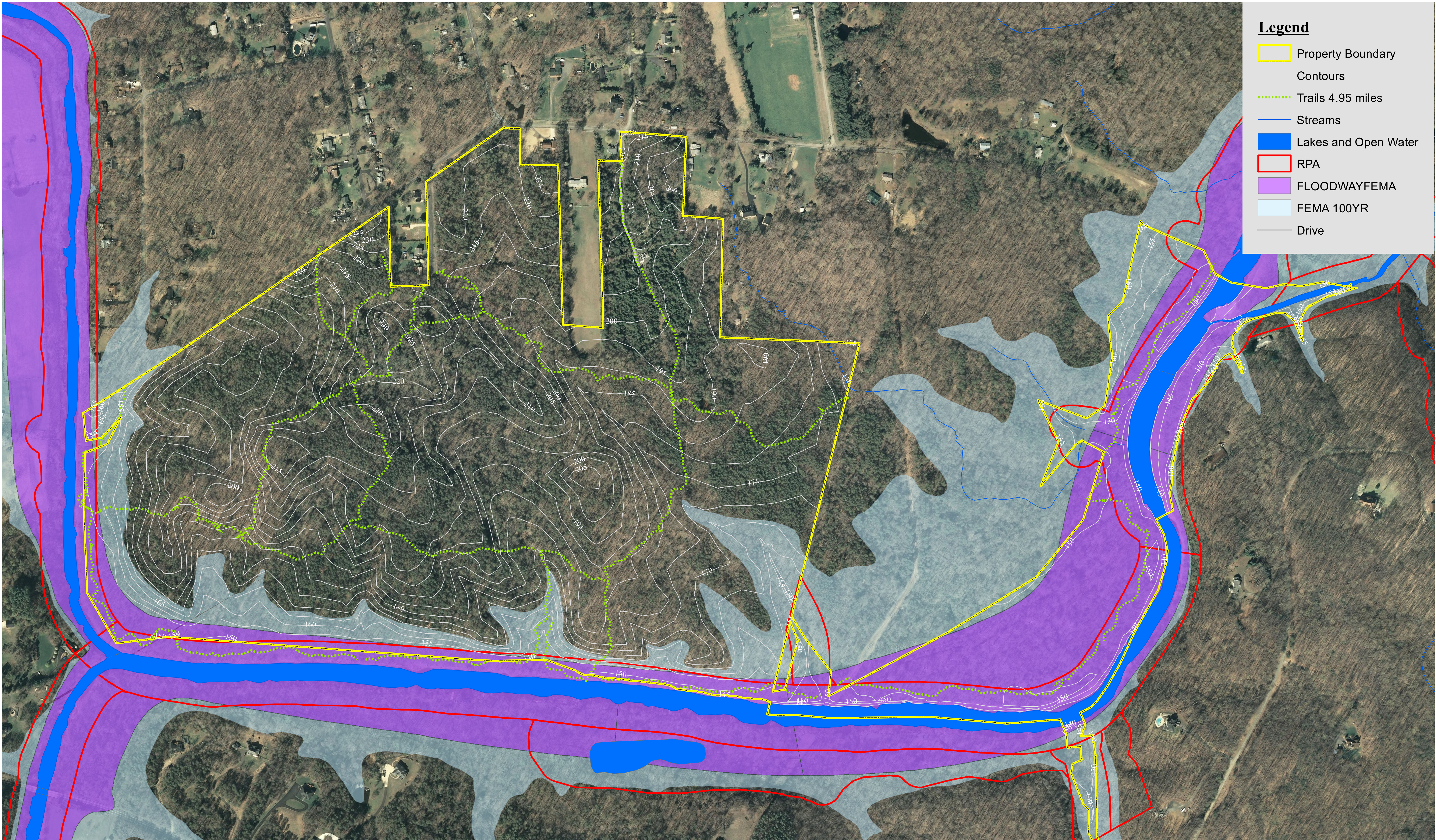
**Doves Landing
Wetlands Map**
Doves Lane
Manassas, VA 20112



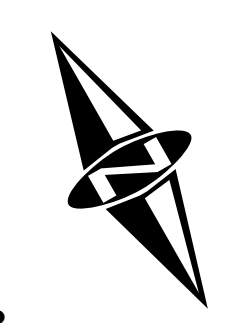
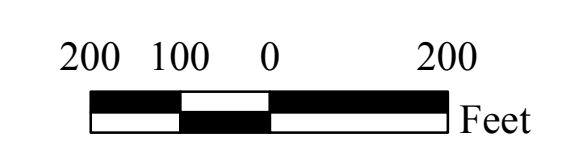
Sources: PWC DPR, PWC, Virginia GIS
Prepared by: Ryan Conklin PP AICP, Planner II DPR

Legend

-  Property Boundary
-  Contours
-  Trails 4.95 miles
-  Streams
-  Lakes and Open Water
-  RPA
-  FLOODWAYFEMA
-  FEMA 100YR
-  Drive

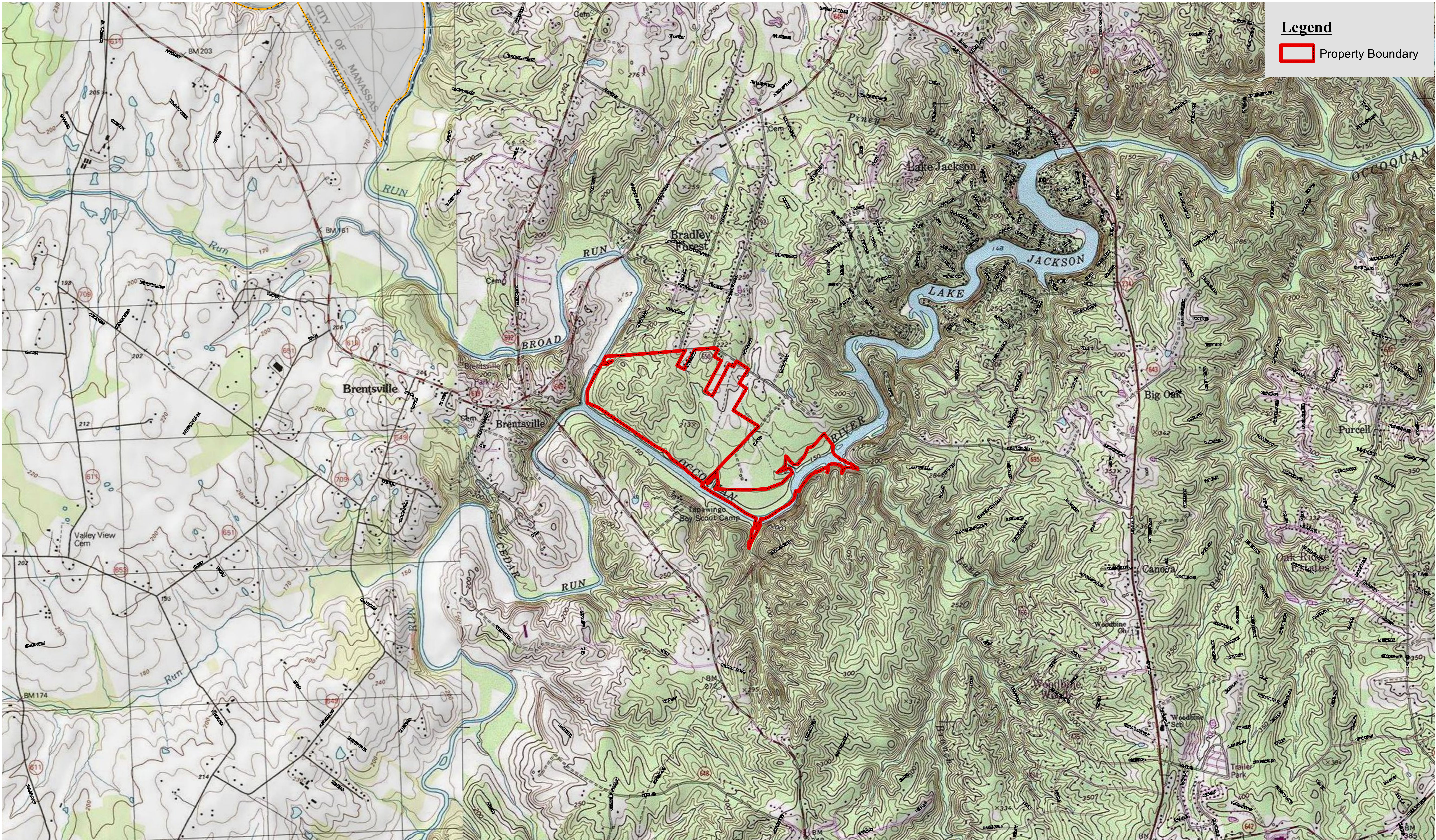


**Doves Landing
Flood Plain Map**
Doves Lane
Manassas, VA 20112

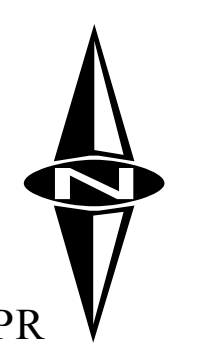
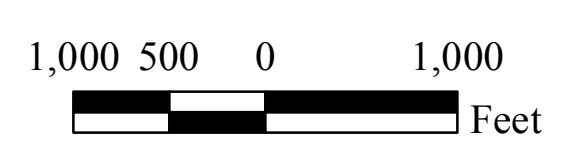


Sources: PWC DPR, PWC, Virginia GIS
Prepared by: Ryan Conklin PP AICP, Planner II DPR

Legend
Property Boundary



Doves Landing
USGS Topoquad
Doves Lane
Manassas, VA 20112



Sources: PWC DPR, PWC, Virginia GIS
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United States
Department of
Agriculture



NRCS

Natural
Resources
Conservation
Service

A product of the National
Cooperative Soil Survey,
a joint effort of the United
States Department of
Agriculture and other
Federal agencies, State
agencies including the
Agricultural Experiment
Stations, and local
participants

Custom Soil Resource Report for Prince William County, Virginia

Dove's Landing



Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (<http://soils.usda.gov/sqi/>) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (<http://offices.sc.egov.usda.gov/locator/app?agency=nrcs>) or your NRCS State Soil Scientist (http://soils.usda.gov/contact/state_offices/).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Soil Data Mart Web site or the NRCS Web Soil Survey. The Soil Data Mart is the data storage site for the official soil survey information.

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Contents

| | |
|---|----|
| Preface | 2 |
| How Soil Surveys Are Made | 5 |
| Soil Map | 7 |
| Soil Map..... | 8 |
| Legend..... | 9 |
| Map Unit Legend..... | 10 |
| Map Unit Descriptions..... | 10 |
| Prince William County, Virginia..... | 13 |
| 1A—Aden silt loam, 0 to 2 percent slopes..... | 13 |
| 3A—Albano silt loam, 0 to 4 percent slopes..... | 13 |
| 4B—Arcola silt loam, 2 to 7 percent slopes..... | 14 |
| 5C—Arcola-Nestoria complex, 7 to 15 percent slopes..... | 15 |
| 5D—Arcola-Nestoria complex, 15 to 25 percent slopes..... | 17 |
| 7A—Bermudian silt loam, 0 to 2 percent slopes..... | 19 |
| 8C—Braddock loam, 7 to 15 percent slopes..... | 19 |
| 9C—Brentsville sandy loam, 7 to 15 percent slopes..... | 20 |
| 11B—Calverton silt loam, 0 to 7 percent slopes..... | 21 |
| 14A—Codus loam, 0 to 2 percent slopes..... | 22 |
| 19B—Elioak loam, 2 to 7 percent slopes..... | 23 |
| 20B—Elsinboro sandy loam, 2 to 7 percent slopes..... | 24 |
| 24C—Glenelg-Buckhall complex, 7 to 15 percent slopes..... | 25 |
| 35B—Manassas silt loam, 2 to 7 percent slopes..... | 27 |
| 38B—Meadowville loam, 0 to 5 percent slopes..... | 28 |
| 43E—Nestoria gravelly silt loam, 25 to 50 percent slopes..... | 29 |
| 46B—Panorama silt loam, 2 to 7 percent slopes..... | 30 |
| 46C—Panorama silt loam, 7 to 15 percent slopes..... | 31 |
| 49A—Rowland silt loam, 0 to 2 percent slopes..... | 32 |
| 51E—Stumptown very flaggy loam, 25 to 50 percent slopes..... | 33 |
| W—Water..... | 34 |
| References | 35 |

How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil scientists classified and named the soils in the survey area, they compared the

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individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

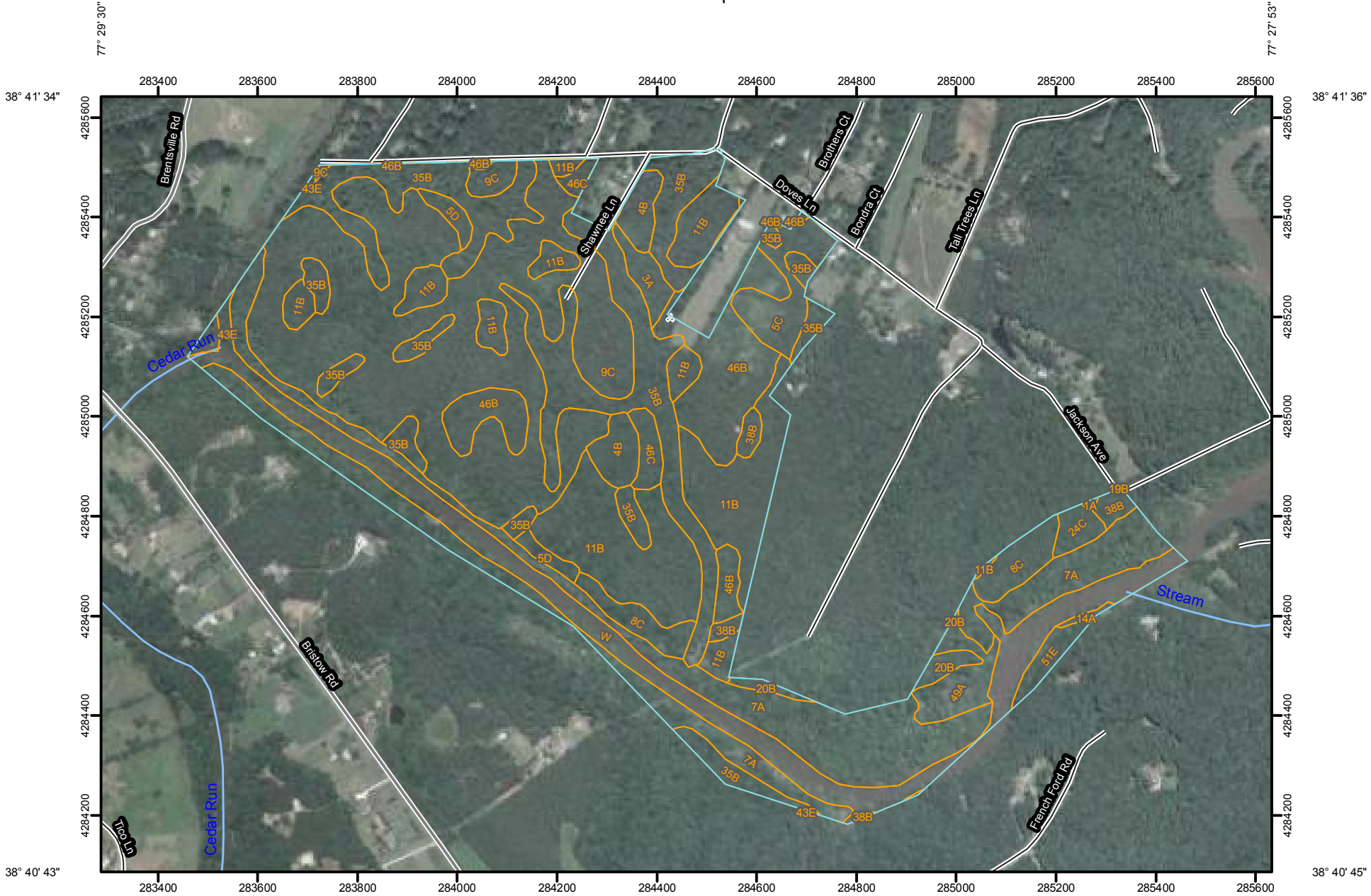
Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

Custom Soil Resource Report Soil Map



Map Scale: 1:11,100 if printed on A size (8.5" x 11") sheet.




77° 29' 28"

77° 27' 53"

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MAP LEGEND

Area of Interest (AOI)


 Area of Interest (AOI)


Soils


 Soil Map Units

Special Point Features




-  Blowout
-  Borrow Pit
-  Clay Spot
-  Closed Depression
-  Gravel Pit
-  Gravelly Spot
-  Landfill
-  Lava Flow
-  Marsh or swamp
-  Mine or Quarry
-  Miscellaneous Water
-  Perennial Water
-  Rock Outcrop
-  Saline Spot
-  Sandy Spot
-  Severely Eroded Spot
-  Sinkhole
-  Slide or Slip
-  Sodic Spot
-  Spoil Area
-  Stony Spot

 Very Stony Spot

 Wet Spot

 Other

Special Line Features

-  Gully
-  Short Steep Slope
-  Other






Political Features

 Cities

Water Features

 Streams and Canals

Transportation

-  Rails
-  Interstate Highways
-  US Routes
-  Major Roads
-  Local Roads

MAP INFORMATION

Map Scale: 1:11,100 if printed on A size (8.5" × 11") sheet.

The soil surveys that comprise your AOI were mapped at 1:15,840.

Please rely on the bar scale on each map sheet for accurate map measurements.

Source of Map: Natural Resources Conservation Service
 Web Soil Survey URL: <http://websoilsurvey.nrcs.usda.gov>
 Coordinate System: UTM Zone 18N NAD83

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Prince William County, Virginia
 Survey Area Data: Version 11, Jan 25, 2010

Date(s) aerial images were photographed: 6/24/2003

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

| Prince William County, Virginia (VA153) | | | |
|---|--|--------------|----------------|
| Map Unit Symbol | Map Unit Name | Acres in AOI | Percent of AOI |
| 1A | Aden silt loam, 0 to 2 percent slopes | 0.1 | 0.0% |
| 3A | Albano silt loam, 0 to 4 percent slopes | 2.2 | 0.8% |
| 4B | Arcola silt loam, 2 to 7 percent slopes | 4.9 | 1.8% |
| 5C | Arcola-Nestoria complex, 7 to 15 percent slopes | 5.7 | 2.1% |
| 5D | Arcola-Nestoria complex, 15 to 25 percent slopes | 2.2 | 0.8% |
| 7A | Bermudian silt loam, 0 to 2 percent slopes | 43.3 | 16.0% |
| 8C | Braddock loam, 7 to 15 percent slopes | 6.4 | 2.4% |
| 9C | Brentsville sandy loam, 7 to 15 percent slopes | 68.1 | 25.2% |
| 11B | Calverton silt loam, 0 to 7 percent slopes | 36.8 | 13.6% |
| 14A | Codorus loam, 0 to 2 percent slopes | 0.3 | 0.1% |
| 19B | Elioak loam, 2 to 7 percent slopes | 0.0 | 0.0% |
| 20B | Elsinboro sandy loam, 2 to 7 percent slopes | 1.9 | 0.7% |
| 24C | Glenelg-Buckhall complex, 7 to 15 percent slopes | 1.7 | 0.6% |
| 35B | Manassas silt loam, 2 to 7 percent slopes | 42.4 | 15.7% |
| 38B | Meadowville loam, 0 to 5 percent slopes | 2.5 | 0.9% |
| 43E | Nestoria gravelly silt loam, 25 to 50 percent slopes | 0.7 | 0.3% |
| 46B | Panorama silt loam, 2 to 7 percent slopes | 17.1 | 6.3% |
| 46C | Panorama silt loam, 7 to 15 percent slopes | 2.6 | 1.0% |
| 49A | Rowland silt loam, 0 to 2 percent slopes | 4.2 | 1.6% |
| 51E | Stumptown very flaggy loam, 25 to 50 percent slopes | 1.9 | 0.7% |
| W | Water | 25.1 | 9.3% |
| Totals for Area of Interest | | 270.1 | 100.0% |

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic

classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar

Custom Soil Resource Report

interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Prince William County, Virginia

1A—Aden silt loam, 0 to 2 percent slopes

Map Unit Setting

Mean annual precipitation: 19 to 50 inches
Mean annual air temperature: 46 to 69 degrees F
Frost-free period: 168 to 211 days

Map Unit Composition

Aden and similar soils: 85 percent

Description of Aden

Setting

Landform: Terraces
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Alluvium

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: 74 to 82 inches to paralithic bedrock
Drainage class: Poorly drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)
Depth to water table: About 0 to 12 inches
Frequency of flooding: Occasional
Frequency of ponding: None
Available water capacity: Moderate (about 8.0 inches)

Interpretive groups

Farmland classification: Not prime farmland
Land capability (nonirrigated): 3w
Hydrologic Soil Group: C

Typical profile

0 to 8 inches: Silt loam
8 to 31 inches: Clay
31 to 58 inches: Silty clay loam
58 to 78 inches: Silt loam
78 to 82 inches: Bedrock

3A—Albano silt loam, 0 to 4 percent slopes

Map Unit Setting

Elevation: 400 to 800 feet
Mean annual precipitation: 19 to 50 inches
Mean annual air temperature: 46 to 69 degrees F
Frost-free period: 168 to 211 days

Map Unit Composition

Albano and similar soils: 80 percent

Description of Albano

Setting

Landform: Depressions
Landform position (three-dimensional): Head slope
Down-slope shape: Linear
Across-slope shape: Concave
Parent material: Alluvium over triassic residuum

Properties and qualities

Slope: 0 to 4 percent
Depth to restrictive feature: 40 to 60 inches to lithic bedrock
Drainage class: Poorly drained
Capacity of the most limiting layer to transmit water (Ksat): Very low (0.00 in/hr)
Depth to water table: About 0 to 18 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Moderate (about 6.4 inches)

Interpretive groups

Farmland classification: Not prime farmland
Land capability (nonirrigated): 5w
Hydrologic Soil Group: D

Typical profile

0 to 7 inches: Silt loam
7 to 40 inches: Clay
40 to 43 inches: Extremely gravelly silty clay loam
43 to 53 inches: Bedrock

4B—Arcola silt loam, 2 to 7 percent slopes

Map Unit Setting

Elevation: 300 to 800 feet
Mean annual precipitation: 19 to 50 inches
Mean annual air temperature: 46 to 69 degrees F
Frost-free period: 168 to 211 days

Map Unit Composition

Arcola and similar soils: 80 percent
Minor components: 5 percent

Description of Arcola

Setting

Landform: Hillslopes
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Interfluve
Down-slope shape: Convex

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Across-slope shape: Convex
Parent material: Triassic residuum

Properties and qualities

Slope: 2 to 7 percent
Depth to restrictive feature: 20 to 40 inches to paralithic bedrock; 40 to 60 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Very low (0.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Low (about 3.8 inches)

Interpretive groups

Farmland classification: All areas are prime farmland
Land capability (nonirrigated): 2e
Hydrologic Soil Group: C

Typical profile

0 to 9 inches: Silt loam
9 to 22 inches: Gravelly silt loam
22 to 28 inches: Very gravelly silt loam
28 to 48 inches: Bedrock
48 to 58 inches: Bedrock

Minor Components

Albano

Percent of map unit: 5 percent
Landform: Depressions
Landform position (three-dimensional): Head slope
Down-slope shape: Linear
Across-slope shape: Concave

5C—Arcola-Nestoria complex, 7 to 15 percent slopes

Map Unit Setting

Elevation: 300 to 800 feet
Mean annual precipitation: 19 to 50 inches
Mean annual air temperature: 46 to 69 degrees F
Frost-free period: 168 to 211 days

Map Unit Composition

Arcola and similar soils: 50 percent
Nestoria and similar soils: 30 percent
Minor components: 5 percent

Description of Arcola

Setting

Landform: Hillslopes
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Interfluve
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Triassic residuum

Properties and qualities

Slope: 7 to 15 percent
Depth to restrictive feature: 20 to 40 inches to paralithic bedrock; 40 to 60 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Very low (0.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Low (about 3.8 inches)

Interpretive groups

Farmland classification: Not prime farmland
Land capability (nonirrigated): 3e
Hydrologic Soil Group: C

Typical profile

0 to 9 inches: Silt loam
9 to 22 inches: Gravelly silt loam
22 to 28 inches: Very gravelly silt loam
28 to 48 inches: Bedrock
48 to 58 inches: Bedrock

Description of Nestoria

Setting

Landform: Hillslopes
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Interfluve
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Triassic residuum

Properties and qualities

Slope: 7 to 15 percent
Depth to restrictive feature: 10 to 20 inches to paralithic bedrock; 20 to 40 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Very low (0.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Very low (about 1.7 inches)

Interpretive groups

Farmland classification: Not prime farmland
Land capability (nonirrigated): 4e

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Hydrologic Soil Group: C/D

Typical profile

*0 to 8 inches: Channery silt loam
8 to 14 inches: Very channery silt loam
14 to 18 inches: Very channery silt loam
18 to 30 inches: Bedrock
30 to 34 inches: Bedrock*

Minor Components

Albano

*Percent of map unit: 5 percent
Landform: Depressions
Landform position (three-dimensional): Head slope
Down-slope shape: Linear
Across-slope shape: Concave*

5D—Arcola-Nestoria complex, 15 to 25 percent slopes

Map Unit Setting

*Elevation: 300 to 800 feet
Mean annual precipitation: 19 to 50 inches
Mean annual air temperature: 46 to 69 degrees F
Frost-free period: 168 to 211 days*

Map Unit Composition

*Arcola and similar soils: 50 percent
Nestoria and similar soils: 30 percent
Minor components: 5 percent*

Description of Arcola

Setting

*Landform: Hillslopes
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Linear
Across-slope shape: Convex
Parent material: Triassic residuum*

Properties and qualities

*Slope: 15 to 25 percent
Depth to restrictive feature: 20 to 40 inches to paralithic bedrock; 40 to 60 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Very low (0.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None*

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Available water capacity: Low (about 3.8 inches)

Interpretive groups

Farmland classification: Not prime farmland

Land capability (nonirrigated): 4e

Hydrologic Soil Group: C

Typical profile

0 to 9 inches: Silt loam

9 to 22 inches: Gravelly silt loam

22 to 28 inches: Very gravelly silt loam

28 to 48 inches: Bedrock

48 to 58 inches: Bedrock

Description of Nestoria

Setting

Landform: Hillslopes

Landform position (two-dimensional): Backslope

Landform position (three-dimensional): Side slope

Down-slope shape: Linear

Across-slope shape: Convex

Parent material: Triassic residuum

Properties and qualities

Slope: 15 to 25 percent

Depth to restrictive feature: 10 to 20 inches to paralithic bedrock; 20 to 40 inches to lithic bedrock

Drainage class: Well drained

Capacity of the most limiting layer to transmit water (Ksat): Very low (0.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Available water capacity: Very low (about 1.7 inches)

Interpretive groups

Farmland classification: Not prime farmland

Land capability (nonirrigated): 6e

Hydrologic Soil Group: C/D

Typical profile

0 to 8 inches: Channery silt loam

8 to 14 inches: Very channery silt loam

14 to 18 inches: Very channery silt loam

18 to 30 inches: Bedrock

30 to 34 inches: Bedrock

Minor Components

Albano

Percent of map unit: 5 percent

Landform: Depressions

Landform position (three-dimensional): Head slope

Down-slope shape: Linear

Across-slope shape: Concave

7A—Bermudian silt loam, 0 to 2 percent slopes

Map Unit Setting

Mean annual precipitation: 19 to 50 inches

Mean annual air temperature: 46 to 69 degrees F

Frost-free period: 168 to 211 days

Map Unit Composition

Bermudian and similar soils: 85 percent

Description of Bermudian

Setting

Landform: Flood plains

Landform position (three-dimensional): Tread

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Alluvium

Properties and qualities

Slope: 0 to 2 percent

Depth to restrictive feature: 60 to 68 inches to lithic bedrock

Drainage class: Well drained

Capacity of the most limiting layer to transmit water (Ksat): Very low (0.00 in/hr)

Depth to water table: About 36 to 79 inches

Frequency of flooding: Occasional

Frequency of ponding: None

Available water capacity: Moderate (about 6.6 inches)

Interpretive groups

Farmland classification: All areas are prime farmland

Land capability (nonirrigated): 1

Hydrologic Soil Group: B

Typical profile

0 to 12 inches: Silt loam

12 to 38 inches: Silt loam

38 to 64 inches: Channery silty clay loam

64 to 74 inches: Bedrock

8C—Braddock loam, 7 to 15 percent slopes

Map Unit Setting

Elevation: 1,000 to 3,500 feet

Mean annual precipitation: 19 to 50 inches

Custom Soil Resource Report

Mean annual air temperature: 46 to 69 degrees F
Frost-free period: 168 to 211 days

Map Unit Composition

Braddock and similar soils: 80 percent

Description of Braddock

Setting

Landform: Hillslopes
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Interfluve
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Colluvium

Properties and qualities

Slope: 7 to 15 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high
(0.57 to 1.98 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Moderate (about 8.9 inches)

Interpretive groups

Farmland classification: Farmland of statewide importance
Land capability (nonirrigated): 3e
Hydrologic Soil Group: B

Typical profile

0 to 8 inches: Loam
8 to 55 inches: Clay
55 to 69 inches: Clay

9C—Brentsville sandy loam, 7 to 15 percent slopes

Map Unit Setting

Elevation: 70 to 800 feet
Mean annual precipitation: 19 to 50 inches
Mean annual air temperature: 46 to 69 degrees F
Frost-free period: 168 to 211 days

Map Unit Composition

Brentsville and similar soils: 80 percent
Minor components: 3 percent

Description of Brentsville

Setting

Landform: Hillslopes

Custom Soil Resource Report

Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Interfluve
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Triassic residuum

Properties and qualities

Slope: 7 to 15 percent
Depth to restrictive feature: 20 to 40 inches to lithic bedrock; 20 to 40 inches to paralithic bedrock
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Low (about 4.5 inches)

Interpretive groups

Farmland classification: Farmland of statewide importance
Land capability (nonirrigated): 3e
Hydrologic Soil Group: C

Typical profile

0 to 11 inches: Sandy loam
11 to 26 inches: Sandy loam
26 to 34 inches: Sandy loam
34 to 38 inches: Bedrock
38 to 48 inches: Bedrock

Minor Components

Albano

Percent of map unit: 3 percent
Landform: Depressions
Landform position (three-dimensional): Head slope
Down-slope shape: Linear
Across-slope shape: Concave

11B—Calverton silt loam, 0 to 7 percent slopes

Map Unit Setting

Mean annual precipitation: 19 to 50 inches
Mean annual air temperature: 46 to 69 degrees F
Frost-free period: 168 to 211 days

Map Unit Composition

Calverton and similar soils: 80 percent

Description of Calverton

Setting

Landform: Hillslopes
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Interfluve
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Triassic residuum

Properties and qualities

Slope: 0 to 7 percent
Depth to restrictive feature: 10 to 30 inches to fragipan; 40 to 60 inches to paralithic bedrock; 60 to 79 inches to lithic bedrock
Drainage class: Moderately well drained
Capacity of the most limiting layer to transmit water (Ksat): Very low (0.00 in/hr)
Depth to water table: About 12 to 24 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Low (about 3.5 inches)

Interpretive groups

Farmland classification: Not prime farmland
Land capability (nonirrigated): 3w
Hydrologic Soil Group: C

Typical profile

0 to 10 inches: Silt loam
10 to 19 inches: Silty clay loam
19 to 29 inches: Silt loam
29 to 55 inches: Silty clay
55 to 65 inches: Bedrock
65 to 75 inches: Bedrock

14A—Codorus loam, 0 to 2 percent slopes

Map Unit Setting

Elevation: 200 to 600 feet
Mean annual precipitation: 19 to 50 inches
Mean annual air temperature: 46 to 69 degrees F
Frost-free period: 168 to 211 days

Map Unit Composition

Codorus and similar soils: 85 percent
Minor components: 5 percent

Description of Codorus

Setting

Landform: Flood plains
Landform position (three-dimensional): Tread
Down-slope shape: Linear

Custom Soil Resource Report

Across-slope shape: Linear

Parent material: Alluvium

Properties and qualities

Slope: 0 to 2 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Moderately well drained

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high
(0.57 to 1.98 in/hr)

Depth to water table: About 12 to 24 inches

Frequency of flooding: Frequent

Frequency of ponding: None

Available water capacity: Moderate (about 7.9 inches)

Interpretive groups

Farmland classification: Not prime farmland

Land capability (nonirrigated): 2w

Hydrologic Soil Group: C

Typical profile

0 to 12 inches: Loam

12 to 42 inches: Loam

42 to 65 inches: Sandy loam

Minor Components

Hatboro

Percent of map unit: 5 percent

Landform: Flood plains

Landform position (three-dimensional): Tread

Down-slope shape: Linear

Across-slope shape: Linear

19B—Elioak loam, 2 to 7 percent slopes

Map Unit Setting

Elevation: 330 to 2,000 feet

Mean annual precipitation: 19 to 50 inches

Mean annual air temperature: 46 to 69 degrees F

Frost-free period: 168 to 211 days

Map Unit Composition

Elioak and similar soils: 80 percent

Minor components: 3 percent

Description of Elioak

Setting

Landform: Hillslopes

Landform position (two-dimensional): Summit

Landform position (three-dimensional): Interfluve

Custom Soil Resource Report

Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Residuum weathered from mica schist

Properties and qualities

Slope: 2 to 7 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high
(0.20 to 1.98 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Moderate (about 6.4 inches)

Interpretive groups

Farmland classification: All areas are prime farmland
Land capability (nonirrigated): 2e
Hydrologic Soil Group: C

Typical profile

0 to 5 inches: Loam
5 to 41 inches: Clay
41 to 72 inches: Loam

Minor Components

Baile

Percent of map unit: 3 percent
Landform: Depressions
Landform position (three-dimensional): Head slope
Down-slope shape: Linear
Across-slope shape: Concave

20B—Elsinboro sandy loam, 2 to 7 percent slopes

Map Unit Setting

Elevation: 0 to 1,000 feet
Mean annual precipitation: 19 to 50 inches
Mean annual air temperature: 46 to 69 degrees F
Frost-free period: 168 to 211 days

Map Unit Composition

Elsinboro and similar soils: 80 percent
Minor components: 5 percent

Description of Elsinboro

Setting

Landform: Stream terraces
Landform position (three-dimensional): Tread

Custom Soil Resource Report

Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Alluvium

Properties and qualities

Slope: 2 to 7 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high
(0.57 to 1.98 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: Rare
Frequency of ponding: None
Available water capacity: Moderate (about 7.7 inches)

Interpretive groups

Farmland classification: All areas are prime farmland
Land capability (nonirrigated): 2e
Hydrologic Soil Group: B

Typical profile

0 to 9 inches: Sandy loam
9 to 44 inches: Sandy clay loam
44 to 65 inches: Gravelly sandy loam

Minor Components

Hatboro

Percent of map unit: 5 percent
Landform: Flood plains
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Linear

24C—Glenelg-Buckhall complex, 7 to 15 percent slopes

Map Unit Setting

Elevation: 300 to 2,000 feet
Mean annual precipitation: 19 to 50 inches
Mean annual air temperature: 46 to 69 degrees F
Frost-free period: 168 to 211 days

Map Unit Composition

Glenelg and similar soils: 45 percent
Buckhall and similar soils: 35 percent

Description of Glenelg

Setting

Landform: Hillslopes
Landform position (two-dimensional): Shoulder

Custom Soil Resource Report

Landform position (three-dimensional): Interfluve
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Residuum weathered from mica schist

Properties and qualities

Slope: 7 to 15 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high
(0.57 to 1.98 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: High (about 9.5 inches)

Interpretive groups

Farmland classification: Farmland of statewide importance
Land capability (nonirrigated): 3e
Hydrologic Soil Group: B

Typical profile

0 to 5 inches: Loam
5 to 20 inches: Clay loam
20 to 65 inches: Sandy loam

Description of Buckhall

Setting

Landform: Hillslopes
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Interfluve
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Residuum weathered from mica schist

Properties and qualities

Slope: 7 to 15 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high
(0.57 to 1.98 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Moderate (about 7.9 inches)

Interpretive groups

Farmland classification: Farmland of statewide importance
Land capability (nonirrigated): 3e
Hydrologic Soil Group: B

Typical profile

0 to 7 inches: Loam
7 to 12 inches: Clay loam
12 to 43 inches: Clay
43 to 72 inches: Sandy loam

35B—Manassas silt loam, 2 to 7 percent slopes

Map Unit Setting

Elevation: 400 to 800 feet

Mean annual precipitation: 19 to 50 inches

Mean annual air temperature: 46 to 69 degrees F

Frost-free period: 168 to 211 days

Map Unit Composition

Manassas and similar soils: 85 percent

Minor components: 3 percent

Description of Manassas

Setting

Landform: Hillslopes

Landform position (two-dimensional): Summit

Landform position (three-dimensional): Interfluve

Down-slope shape: Convex

Across-slope shape: Convex

Parent material: Triassic residuum

Properties and qualities

Slope: 2 to 7 percent

Depth to restrictive feature: 40 to 60 inches to paralithic bedrock

Drainage class: Moderately well drained

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)

Depth to water table: About 24 to 36 inches

Frequency of flooding: Rare

Frequency of ponding: None

Available water capacity: Moderate (about 8.1 inches)

Interpretive groups

Farmland classification: All areas are prime farmland

Land capability (nonirrigated): 2e

Hydrologic Soil Group: B

Typical profile

0 to 10 inches: Silt loam

10 to 43 inches: Silt loam

43 to 49 inches: Channery sandy loam

49 to 60 inches: Bedrock

Minor Components

Albano

Percent of map unit: 3 percent

Landform: Depressions

Landform position (three-dimensional): Head slope

Custom Soil Resource Report

Down-slope shape: Linear
Across-slope shape: Concave

38B—Meadowville loam, 0 to 5 percent slopes

Map Unit Setting

Elevation: 330 to 2,000 feet
Mean annual precipitation: 19 to 50 inches
Mean annual air temperature: 46 to 69 degrees F
Frost-free period: 168 to 211 days

Map Unit Composition

Meadowville and similar soils: 80 percent
Minor components: 3 percent

Description of Meadowville

Setting

Landform: Drainageways
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Interfluve
Down-slope shape: Linear
Across-slope shape: Concave
Parent material: Triassic residuum

Properties and qualities

Slope: 0 to 5 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high
(0.57 to 5.95 in/hr)
Depth to water table: About 36 to 60 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: High (about 9.8 inches)

Interpretive groups

Farmland classification: All areas are prime farmland
Land capability (nonirrigated): 2e
Hydrologic Soil Group: B

Typical profile

0 to 12 inches: Loam
12 to 31 inches: Clay loam
31 to 39 inches: Gravelly loam
39 to 72 inches: Sandy loam

Minor Components

Baile

Percent of map unit: 3 percent

Custom Soil Resource Report

Landform: Depressions
Landform position (three-dimensional): Head slope
Down-slope shape: Linear
Across-slope shape: Concave

43E—Nestoria gravelly silt loam, 25 to 50 percent slopes

Map Unit Setting

Mean annual precipitation: 19 to 50 inches
Mean annual air temperature: 46 to 69 degrees F
Frost-free period: 168 to 211 days

Map Unit Composition

Nestoria and similar soils: 80 percent

Description of Nestoria

Setting

Landform: Hillslopes
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Linear
Across-slope shape: Convex
Parent material: Triassic residuum

Properties and qualities

Slope: 25 to 50 percent
Depth to restrictive feature: 10 to 20 inches to paralithic bedrock; 20 to 40 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Very low (0.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Very low (about 1.7 inches)

Interpretive groups

Farmland classification: Not prime farmland
Land capability (nonirrigated): 7e
Hydrologic Soil Group: C/D

Typical profile

0 to 8 inches: Channery silt loam
8 to 14 inches: Very channery silt loam
14 to 18 inches: Very channery silt loam
18 to 30 inches: Bedrock
30 to 40 inches: Bedrock

46B—Panorama silt loam, 2 to 7 percent slopes

Map Unit Setting

Elevation: 400 to 800 feet

Mean annual precipitation: 19 to 50 inches

Mean annual air temperature: 46 to 69 degrees F

Frost-free period: 168 to 211 days

Map Unit Composition

Panorama and similar soils: 75 percent

Minor components: 5 percent

Description of Panorama

Setting

Landform: Hillslopes

Landform position (two-dimensional): Summit

Landform position (three-dimensional): Interfluve

Down-slope shape: Convex

Across-slope shape: Convex

Parent material: Triassic residuum

Properties and qualities

Slope: 2 to 7 percent

Depth to restrictive feature: 40 to 60 inches to paralithic bedrock

Drainage class: Well drained

Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Available water capacity: Moderate (about 7.0 inches)

Interpretive groups

Farmland classification: All areas are prime farmland

Land capability (nonirrigated): 2e

Hydrologic Soil Group: B

Typical profile

0 to 10 inches: Silt loam

10 to 19 inches: Silty clay loam

19 to 38 inches: Silty clay loam

38 to 55 inches: Very channery silty clay loam

55 to 59 inches: Bedrock

Minor Components

Albano

Percent of map unit: 5 percent

Landform: Depressions

Landform position (three-dimensional): Head slope

Down-slope shape: Linear

Across-slope shape: Concave

46C—Panorama silt loam, 7 to 15 percent slopes

Map Unit Setting

Elevation: 400 to 800 feet

Mean annual precipitation: 19 to 50 inches

Mean annual air temperature: 46 to 69 degrees F

Frost-free period: 168 to 211 days

Map Unit Composition

Panorama and similar soils: 75 percent

Minor components: 5 percent

Description of Panorama

Setting

Landform: Hillslopes

Landform position (two-dimensional): Shoulder

Landform position (three-dimensional): Interfluve

Down-slope shape: Convex

Across-slope shape: Convex

Parent material: Triassic residuum

Properties and qualities

Slope: 7 to 15 percent

Depth to restrictive feature: 40 to 60 inches to paralithic bedrock

Drainage class: Well drained

Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Available water capacity: Moderate (about 7.0 inches)

Interpretive groups

Farmland classification: Farmland of statewide importance

Land capability (nonirrigated): 3e

Hydrologic Soil Group: B

Typical profile

0 to 10 inches: Silt loam

10 to 19 inches: Silty clay loam

19 to 38 inches: Silty clay loam

38 to 55 inches: Very channery silty clay loam

55 to 59 inches: Bedrock

Minor Components

Albano

Percent of map unit: 5 percent

Custom Soil Resource Report

Landform: Depressions
Landform position (three-dimensional): Head slope
Down-slope shape: Linear
Across-slope shape: Concave

49A—Rowland silt loam, 0 to 2 percent slopes

Map Unit Setting

Elevation: 300 to 600 feet
Mean annual precipitation: 19 to 50 inches
Mean annual air temperature: 46 to 69 degrees F
Frost-free period: 168 to 211 days

Map Unit Composition

Rowland and similar soils: 80 percent

Description of Rowland

Setting

Landform: Flood plains
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Alluvium

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Moderately well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high
(0.20 to 1.98 in/hr)
Depth to water table: About 12 to 36 inches
Frequency of flooding: Frequent
Frequency of ponding: None
Available water capacity: Moderate (about 8.0 inches)

Interpretive groups

Farmland classification: Not prime farmland
Land capability (nonirrigated): 2w
Hydrologic Soil Group: C

Typical profile

0 to 11 inches: Silt loam
11 to 28 inches: Silt loam
28 to 48 inches: Channery silty clay loam
48 to 65 inches: Silt loam

51E—Stumptown very flaggy loam, 25 to 50 percent slopes

Map Unit Setting

Elevation: 1,000 to 2,500 feet

Mean annual precipitation: 19 to 50 inches

Mean annual air temperature: 46 to 69 degrees F

Frost-free period: 168 to 211 days

Map Unit Composition

Stumptown and similar soils: 80 percent

Description of Stumptown

Setting

Landform: Hillslopes

Landform position (two-dimensional): Backslope

Landform position (three-dimensional): Side slope

Down-slope shape: Linear

Across-slope shape: Convex

Parent material: Residuum weathered from mica schist

Properties and qualities

Slope: 25 to 50 percent

Surface area covered with cobbles, stones or boulders: 0.0 percent

Depth to restrictive feature: 20 to 40 inches to lithic bedrock; 20 to 40 inches to paralithic bedrock

Drainage class: Well drained

Capacity of the most limiting layer to transmit water (Ksat): Very low (0.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Available water capacity: Very low (about 1.8 inches)

Interpretive groups

Farmland classification: Not prime farmland

Land capability (nonirrigated): 7e

Hydrologic Soil Group: B

Typical profile

0 to 12 inches: Very flaggy loam

12 to 20 inches: Very flaggy clay loam

20 to 27 inches: Extremely flaggy sandy loam

27 to 33 inches: Bedrock

33 to 43 inches: Bedrock

W—Water

Map Unit Composition

Water: 100 percent

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SOILS

The project area is located on the interface of the Culpeper Basin and the Piedmont Plateau Physiographic Provinces. The project area is located where Broad Run and Cedar Run join to form the Occoquan River, approximately 26 miles upstream from the confluence of the Occoquan River and the Potomac River, in central Prince William County, Virginia. Project area elevations vary from 145 to 225 feet above sea level.

This portion of the piedmont plateau formed in the residuum of sedimentary rocks of siltstone, sandstone conglomerate, and basic rocks of diabase and basalt. The mapped soil complex for the project area is the Arcola-Panoram-Nestoria. This soil complex is moderately deep, deep, and shallow soils that are well drained and have a loamy subsoil. The major soil types' onsite are Arcola Silt Loam, Arcola-Nestoria Complex, Bermudian Silt Loam, Braddock Loam, Brentsville Sandy Loam, Calverton Silt Loam, Manassas Silt Loam, Meadowville, Silt Loam, Panorama Silt Loam, and Rowland silt loam (United States Department of Agriculture, Soil Conservation Service 1989). The soil types have slopes that range from 0 to 50 percent slopes and are mapped on the custom soils report included in Attachment __ (U.S. Department of Agriculture, Natural Resources Conservation Service, Prince William County Soil Survey). Below is a chart which highlights the major soil types and includes the percentages of area encompassed by the soil.

Prince William County, Virginia (VA153)

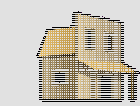
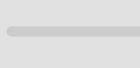

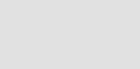

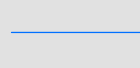

| Map Unit Symbol | Map Unit Name | Acres in AOI | Percent of AOI |
|------------------------------------|--|--------------|----------------|
| 1A | Aden silt loam, 0 to 2 percent slopes | 0.1 | 0.0% |
| 3A | Albano silt loam, 0 to 4 percent slopes | 2.2 | 0.8% |
| 4B | Arcola silt loam, 2 to 7 percent slopes | 4.9 | 1.8% |
| 5C | Arcola-Nestoria complex, 7 to 15 percent slopes | 5.7 | 2.1% |
| 5D | Arcola-Nestoria complex, 15 to 25 percent slopes | 2.2 | 0.8% |
| 7A | Bermudian silt loam, 0 to 2 percent slopes | 43.3 | 16.0% |
| 8C | Braddock loam, 7 to 15 percent slopes | 6.4 | 2.4% |
| 9C | Brentsville sandy loam, 7 to 15 percent slopes | 68.1 | 25.2% |
| 11B | Calverton silt loam, 0 to 7 percent slopes | 36.8 | 13.6% |
| 14A | Codorus loam, 0 to 2 percent slopes | 0.3 | 0.1% |
| 19B | Elioak loam, 2 to 7 percent slopes | 0.0 | 0.0% |
| 20B | Elsinboro sandy loam, 2 to 7 percent slopes | 1.9 | 0.7% |
| 24C | Glenelg-Buckhall complex, 7 to 15 percent slopes | 1.7 | 0.6% |
| 35B | Manassas silt loam, 2 to 7 percent slopes | 42.4 | 15.7% |
| 38B | Meadowville loam, 0 to 5 percent slopes | 2.5 | 0.9% |
| 43E | Nestoria gravelly silt loam, 25 to 50 percent slopes | 0.7 | 0.3% |
| 46B | Panorama silt loam, 2 to 7 percent slopes | 17.1 | 6.3% |
| 46C | Panorama silt loam, 7 to 15 percent slopes | 2.6 | 1.0% |
| 49A | Rowland silt loam, 0 to 2 percent slopes | 4.2 | 1.6% |
| 51E | Stumptown very flaggy loam, 25 to 50 percent slopes | 1.9 | 0.7% |
| W | Water | 25.1 | 9.3% |
| Totals for Area of Interest | | 270.1 | 100.0% |

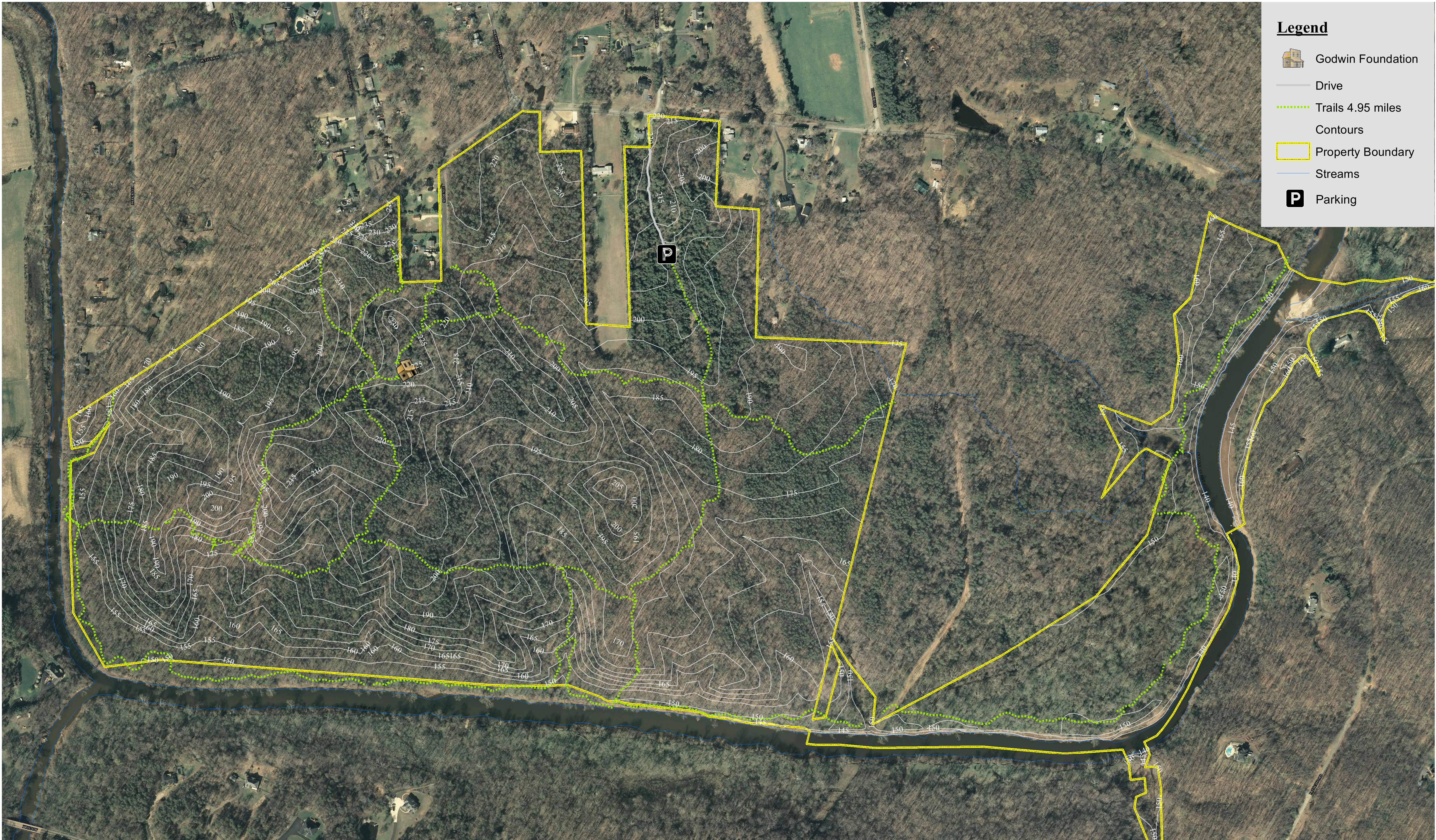
VIEWSHEDS

The Doves Landing property's is comprised of wetlands, forest, and waterfront. This provides for views of the Occoquan River as well as Broad and Cedar Runs. The adjacent properties are single family homes and are only visible from the property line. There are a number of residential houses visible from the trail along the Occoquan River. These houses are located in the rural area of the County and do not negatively impact the property.

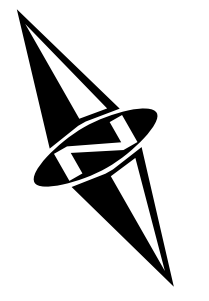
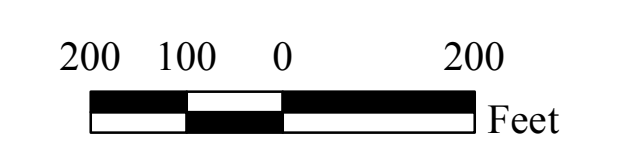
The importance of maintaining vegetative buffers in critical areas along the perimeter of the property is key to maintaining the natural beauty of the Doves Landing property as well as acting as a buffer for adjacent landowners.

Legend

-  Godwin Foundation
-  Drive
-  Trails 4.95 miles
-  Contours
-  Property Boundary
-  Streams
-  Parking






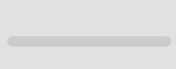


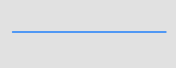



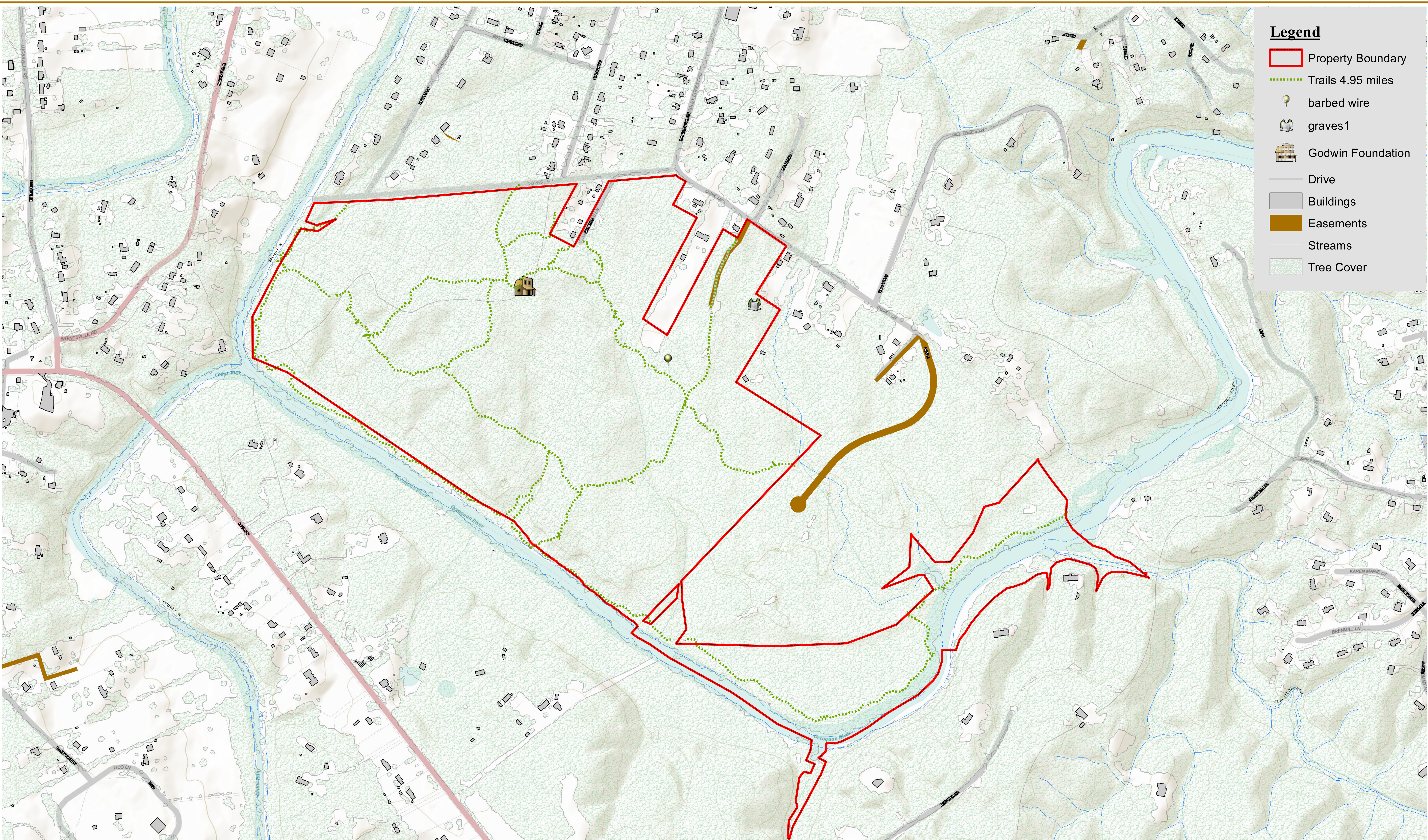
Doves Landing
Doves Lane
Manassas, VA 20112



Sources: PWC DPR, PWC, Virginia GIS
Prepared by: Ryan Conklin PP AICP, Planner II DPR

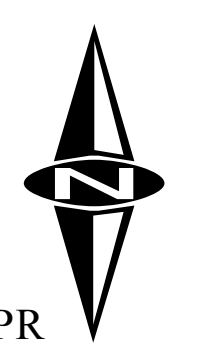
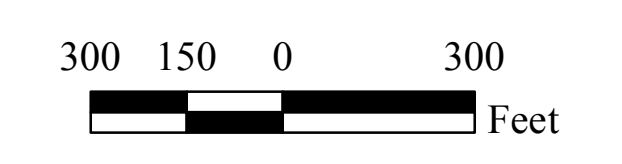
Legend

-  Property Boundary
-  Trails 4.95 miles
-  barbed wire
-  graves1
-  Godwin Foundation
-  Drive
-  Buildings
-  Easements
-  Streams
-  Tree Cover



Doves Landing Existing Conditions Map

Doves Lane
Manassas, VA 20112



Sources: PWC DPR, PWC, Virginia GIS
Prepared by: Ryan Conklin PP AICP, Planner II DPR