## Mission

To suppress forest pest infestation and pests of public health concern throughout the County through surveillance, pest and insect control, as well as public information and education, so that none of the County tree cover is defoliated and human morbidity and mortality are minimized while protecting the environment.

# Connection to the Countywide Strategic Plan

The Fairfax County Board of Supervisors adopted the first-ever Countywide Strategic Plan on October 5, 2021. The Countywide Strategic Plan serves as a road map to help guide future work, focusing on the 10 Community Outcome Areas that represent the issues of greatest importance to the community. The Department of Management and Budget continues to integrate the Countywide Strategic Plan into budget documents. For information on how the agency's program performance contributes to these goals, please see the Performance Measurement Results by Community Outcome Area. For more information on the Countywide Strategic Plan, please see <u>www.fairfaxcounty.gov/strategicplan/.</u> Fund 40080, Integrated Pest Management Program primarily supports the following Community Outcome Areas:



Community Outcome Area	Vision Statement					
Environment and Energy	All people live in a healthy sustainable					
	environment.					
Healthy Communities	All people can attain their highest level of health					
	and well-being.					

## Focus

Fund 40080, Integrated Pest Management Program, includes two separate programs – the Forest Pest Program (FPP) managed by Stormwater Services and the Disease-Carrying Insects Program (DCIP) managed by the Health Department. Integrated Pest Management (IPM) is an ecological approach to pest control that combines appropriate pest control strategies into a unified, site-specific plan. The goal of an IPM program is to reduce pest numbers to acceptable levels in ways that are practical, cost-effective, and safe for people and the environment. FPP focuses on preventing the spread of state approved forest insects and diseases in the County. DCIP focuses on protecting citizens from public health pests and maintaining a low incidence of the West Nile virus, Lyme disease, and other tick-borne and mosquito-borne diseases as the prevention of epidemics and spread of disease is one of the core functions of the Health Department.

A countywide tax levy financially supports Fund 40080 activities, and this levy is subject to change annually due to funding requirements based on the level of infestation. Since FY 2001, the Board of Supervisors approved tax rate has been \$0.001 per \$100 assessed value and has provided support for both the Forest Pest and the Disease-Carrying Insects Programs. In FY 2024, the same tax rate, along with the existing fund balance, will continue to support both programs.

### **Forest Pest Program**

The Forest Pest Program is a cooperative program with the United States Department of Agriculture (USDA) Forest Service and the Virginia Department of Agriculture and Consumer Services (VDACS). VDACS maintains a list of insects and disease that are eligible for control by this program; however, the FPP is tasked with monitoring and providing control of these insects and diseases. Currently VDACS has approved six insects and two diseases for inclusion on the list of insects and diseases that can be controlled. They are the gypsy moth, cankerworm, emerald ash borer, hemlock woolly adelgid, Asian long-horned beetle, spotted lanternfly, sudden oak death, and thousand cankers disease of black walnut. The proposed treatment plan and resource requirements for all listed pests are submitted annually to the Board of Supervisors for approval.

Research has shown that by slowing the spread of an invasive insect, control costs can be reduced overall. Agricultural quarantines are an effective method implemented to eradicate or slow the spread to other areas. The quarantines currently in effect in the County are intended to slow the spread of the target insects and not intended to eradicate them. In the United States, eradication is only attempted when an invasive species is discovered early, and its populations are small enough to be contained and completely eliminated. Forest pest quarantines are not an unusual or a historically recent method of controlling the spread of pests.

Throughout the year, staff conducts an extensive outreach program with the goal of educating Fairfax County communities about pest suppression methods and measures that they may take to alleviate potential forest pest population infestations. Funding has also been allocated for the removal and/or remediation of hazardous trees. This activity will be limited to instances where the hazard is a direct result of pests included in the list of insects and diseases eligible for control by the program. Additionally, funding has been allocated for the removal and remediation of tree of heaven. Tree of heaven is a preferred host tree for spotted lanternfly and is thought to be an effective management strategy for minimizing the impact of this pest.

#### Spongy Moth

In FY 2022, spongy moth, formerly known as gypsy moth, (*Lymantria dispar*) larvae populations remained very low. There was no measurable defoliation reported in Fairfax County. Active control programs in conjunction with the naturally occurring fungal pathogen *Entomophaga maimaiga* may explain the extremely low spongy moth populations in Fairfax County and other areas. Staff continues to monitor spongy moth, but no control treatments have been applied in recent years. Spongy moth populations are cyclical, and it is not uncommon for outbreaks to reoccur.

The spongy moth was first quarantined by state and federal governments in 1912 and continues to be quarantined today. More information about spongy month can be found on this webpage: <a href="https://www.fairfaxcounty.gov/publicworks/trees/spongy-moth">https://www.fairfaxcounty.gov/publicworks/trees/spongy-moth</a>

#### Fall Cankerworm

Fall cankerworm (*Alsophila pometaria*) is an insect native to the eastern United States that feeds on a broad variety of hardwood trees. Periodic outbreaks of this pest are common, especially in older declining forest stands. The Mount Vernon, Mason, and Franconia (previously Lee) magisterial districts have most recently experienced the most severe infestations and associated defoliation. Staff observed population outbreak levels in the winters of 2012 and 2013 and declining populations since 2014. No treatment was required in calendar year 2021 and the first half of calendar year 2022.

FPP conducted an extensive defoliation survey to measure the damage caused by fall cankerworm in May 2022. The purpose of this survey was to determine those areas of Fairfax County where fall cankerworm larvae have impacted the County's urban forest resources through foliar feeding and to quantify this feeding damage as a percentage of canopy defoliated. The data acquired from this survey contributed to knowledge of overall cankerworm population dynamics in Fairfax County as well as locating areas of concern to be targeted in the ensuing year's fall cankerworm banding survey. The defoliation surveys for fall cankerworm were done in grids in the known areas of fall cankerworm activity in the southeastern portion of the County. Defoliation was quantified using a visual survey at each grid point. The results of this survey indicated that there was no significant defoliation from fall cankerworm in calendar year 2022.

The FY 2024 budget provides capacity to treat 500 acres of ground treatment and up to 5,000 acres of aerial treatment, should insect surveys conducted between November 2022 and January 2023 indicate the need. More information about fall cankerworm can be found on this webpage: <a href="https://www.fairfaxcounty.gov/publicworks/trees/fall-cankerworm">https://www.fairfaxcounty.gov/publicworks/trees/fall-cankerworm</a>.



#### **Emerald Ash Borer**

The emerald ash borer (EAB), *Agrilus planipennis*, is an exotic beetle introduced from Asia that was first discovered in the state of Michigan in the early 2000s. This beetle attacks ash trees (*Fraxinus sp.*) and can cause mortality in native ash species in as little as two years. Recently, researchers in Ohio also observed EAB attacking white fringetree (*Chionanthus virginicus*), a close relative of ash. In July 2008, infestations of emerald ash borer were discovered in Fairfax County and the County was put under federal quarantine for emerald ash borer. In the summer of 2012, the Virginia Department of Agriculture and Consumer Services determined that the entire state was generally infested so it became part of the USDA quarantine; however, the USDA

removed the federal domestic EAB quarantine regulations effective January 14, 2021, because the domestic quarantine was not proven effective in stopping its spread.

Trapping efforts revealed that beetle populations extend to all areas of Fairfax County. Staff is responsible for educating the public on how to manage the impending mortality and replacement of many thousands of ash trees. Education efforts emphasize hiring a private contractor to remove dead and dying trees and options for effective pesticides that may conserve ash trees in the landscape. More information about EAB can be found on this webpage: <a href="https://www.fairfaxcounty.gov/publicworks/trees/emerald-ash-borer">https://www.fairfaxcounty.gov/publicworks/trees/emerald-ash-borer</a>.

In March 2015, the Board of Supervisors authorized staff to begin a control program for EAB on trees on publicly owned land, including fire stations, parks, schools, and libraries. Since 2015, staff have treated 187 ash trees for EAB. Yearly assessments are made on treated trees to evaluate their health and crown conditions based on parameters set in the EAB Management Plan.

Since 2016, FPP has made efforts to request and release emerald ash borer parasitoid wasps from the USDA: *Oobius agrili, Spathius agrili, and Tetrasticus planipennisi.* As part of the release process, an inventory was conducted of ash stands within the County. Several potential sites were identified, and the FPP has released emerald ash borer parasitoid wasps on several County properties. In accordance with the EAB parasitoid release agreement, staff will continue to monitor and report on the establishment of these wasps as part of a national network at <u>www.mapbiocontrol.org</u>. FPP planted ash seedlings in release sites in an effort to reestablish the County ash population in calendar

year 2021. Staff will continue to identify additional areas that qualify for parasitoid release. The wasps were produced and supplied from the USDA's Animal and Plant Health Inspection Service (APHIS) at the Plant Protection and Quarantine (PPQ) EAB Parasitoid Rearing Facility in Brighton, Michigan. For more information on the parasitoids, please call 866-322-4512.

#### **Thousand Cankers Disease**

Thousand cankers disease (TCD) is caused by a fungal pathogen resulting from an association of a fungus (*Geosmithia morbida*) and the walnut twig beetle (WTB) (*Pityophthorus juglandis*) native to the southwestern United States. In August 2010, the disease was detected in black walnut trees in Tennessee. The following year, TCD was reported in central Virginia, then Fairfax and Prince William counties in 2012. This disease complex causes only minor damage to western walnut species; however, Eastern black walnut trees (*Julgans nigra*) are very susceptible and infested trees usually die within a few years. Following disease discovery, VDACS listed Fairfax County under state quarantine that prohibited the transportation of walnut wood and its products. More information about the statewide quarantine related to TCD can be found on this webpage:

<u>https://law.lis.virginia.gov/admincode/title2/agency5/chapter318/</u>. There is no existing federal regulation regarding TCD.

To monitor the insect's presence more closely, staff deployed WTB traps in confirmed locations for calendar year 2021. WTB was positively identified from the traps that were deployed. Staff continue to monitor walnut tree health and follow the disease status elsewhere in Virginia. More information about TCD can be found on this webpage:

https://www.fairfaxcounty.gov/publicworks/trees/thousand-cankers-disease.

#### Sudden Oak Death

Sudden oak death (SOD) is caused by a fungus (*Phytophthora ramorum*) that has resulted in widescale tree mortality in the western United States since 1995. Fortunately, this disease has been found only in isolated locations in the eastern United States and officials feel that these infestations have been contained. Diligent monitoring is critical in slowing the spread of this disease and testing methods have been developed. Consequently, staff has implemented these monitoring methods in areas of the County where nursery stock that could have been shipped from areas known to have the pathogen is being sold. Staff continue to educate private and public groups on this disease and its control. More information on SOD can be found on this webpage:

https://www.fairfaxcounty.gov/publicworks/trees/sudden-oak-death.

#### Asian Longhorned Beetle

The Asian longhorned beetle (ALB) (*Anoplophora glabripennis*) is an invasive, wood-boring beetle that, like EAB, has the potential to have drastic economic and social impacts should it be introduced in Fairfax County. The larvae will kill trees by boring into the heartwood and disrupting the tree's nutrient flow. Imported into the United States via wood packing material used in shipping, infestations of ALB in or near Chicago, New York, Boston, and Ohio have been discovered since the mid-1990's. In June 2020, an infestation was found in Hollywood, South Carolina. These pests will infest many hardwood tree species but prefer maple species, one of the predominant trees in Fairfax County's urban forest ecosystem. According to the United States Forest Service, most of the infestations found in the United States have been identified by tree care professionals and informed homeowners. Staff has developed a basic management plan to address such monitoring and outreach for this invasive species. More information on ALB can be found on this webpage: https://www.fairfaxcounty.gov/publicworks/trees/asian-longhorned-beetle.

#### Hemlock Woolly Adelgid

Hemlock woolly adelgid (HWA) (*Adelges tsugae*) is a sap-feeding insect that infests and eventually kills eastern hemlock trees. Staff employ various control options for this pest, including injected pesticide treatments and releasing predatory insects that feed on HWA. Native eastern hemlock is relatively rare in Fairfax County. Staff will continue to inventory the natural stands of eastern hemlock. Staff continue to manage trees in two native stands, the Dranesville and Springfield magisterial districts. Staff monitored the condition of treated hemlocks in calendar year 2021. Staff is continuing to research management options for hemlocks and HWA. More information on HWA can be found on this webpage:

https://www.fairfaxcounty.gov/publicworks/trees/hemlock-wooly-adelgid

#### **Spotted Lanternfly**

Spotted lanternfly (SLF) (*Lycorma delicatula*) is an insect native to Asia and was found in suburban Philadelphia, Pennsylvania, in 2014. In January 2018, this insect was found in Frederick County, Virginia, and since then it has been found in many other localities in Virginia. Due to the destructive nature of this pest, VDACS in cooperation with UDSA APHIS have begun eradication efforts in areas with known infestation.

VDACS has established a quarantine for Warren County, Clarke County, and Frederick County, Virginia, as well as the City of Winchester, Virginia. Under the quarantine, the movement of articles capable of transporting spotted lanternfly is restricted. Unfortunately, SLF has been found around the Mid-Atlantic including Pennsylvania, West Virginia, Maryland, and Delaware. All states with known SLF infestations have their own quarantine in hopes to limit the spread of this pest.

This insect feeds on a broad range of host trees and has a strong preference for tree of heaven (*Ailanthus altissima*). Tree of heaven is an invasive tree species native to Asia. This insect has not yet established itself in Fairfax County but when it does, it has the potential to cause a significant nuisance. Staff monitored for this insect and inventoried tree of heaven in high-risk introduction areas in calendar year 2022. The removal of tree of heaven could minimize the negative impact of this pest once it arrives. The FPP is conducting a pilot program to remove tree of heaven on County properties.

Staff anticipates the need for significant public education and community engagement will be in high demand once spotted lanternfly is established in the County. Given the broad host range for this pest, staff in the Urban Forest Management Division (UFMD) anticipates most residents in the County will be impacted. Staff has created a mailbox for residents to report SLF sightings: ReportSLF@Fairfaxcounty.gov.

#### <u>Outreach</u>

The FPP conducts and participates in multiple outreach and education efforts. Staff fosters an appreciation for trees and the urban forest to inspire citizens, County agencies, and the development industry to protect, plant, and manage greenscape resources. Targeted audiences for education and training include Fairfax County Public Schools, County staff, citizen scientists, homeowner's associations, and natural resource professionals. Through public events such as Fairfax County Arbor Day Celebration, Environment Expo, and town hall meetings, staff educate the public about the County's urban forest resources and programs. Staff develop hands-on activities and displays that help convey the importance of the stewardship of the County's natural resources. In addition, staff reach out to students in the County through various school programs which encourage students to advocate for protection and support of the County's urban forest. More information about education programs can be found on this webpage:

https://www.fairfaxcounty.gov/publicworks/trees/education-programs.

The FPP continues to improve messaging and communication with County residents by utilizing a variety of media to reach multiple audiences and demographics in the County. Such methods include printed materials such as brochures as well as podcasts, videos, social media, webinars, the County website, newspaper articles, and television, radio, and YouTube interviews. Much of the outreach can be found on this webpage:

https://www.fairfaxcounty.gov/publicworks/trees/news-videos-podcasts.

#### Management Plans

The nature of invasive insects and diseases is such that it is difficult to make long-term predictions on monitoring techniques and response plans. USDA has drafted a management plan for ALB; it outlines a role for localities consistent with what staff had envisioned. For example, County staff can play a critical role in public meetings, notification, and mapping. VDACS and the FPP have drafted basic management plans for ALB and EAB. The management plans will act in concert with plans in place by USDA and VDACS. The Forest Pest Management Program, which is subject to approval by the Board of Supervisors, provides a summary of program activities. The most recent report was approved on March 8, 2022, and can be viewed as part of the Final Board Package for that date here:

https://www.fairfaxcounty.gov/boardofsupervisors/sites/boardofsupervisors/files/assets/meetingmaterials/2022/board/mar08-final-board-package.pdf

### **Disease-Carrying Insects Program**

Mosquitoes, ticks, and other vectors are responsible for transmitting pathogens that can result in lifechanging illnesses such as West Nile Virus (WNV), Zika, and Lyme disease. The Health Department's Disease-Carrying Insects Program (DCIP) was established in 2003 and works to protect County residents and visitors from vector-borne diseases. The DCIP uses an integrated approach to monitor and manage vectors. The program continuously promotes personal protection and vector prevention methods in the community to raise awareness of these public health pests, the diseases they transmit, and what residents can do to protect themselves and their families.

#### West Nile virus and other mosquito-transmitted pathogens of public health concern

WNV, which is transmitted from birds to humans through the bite of infected mosquitoes, continues to be a national public health concern, and is the most reported locally acquired mosquito-borne infection in Fairfax County. In addition to WNV, the Virginia Department of Health's reportable disease list includes other mosquito-borne illnesses: chikungunya, dengue, eastern equine encephalitis, Jamestown canyon, LaCrosse encephalitis, malaria, St. Louis encephalitis, and Zika.

The Health Department's Division of Epidemiology and Population Health investigates reported cases of these illnesses and notifies the DCIP. The DCIP conducts entomological investigations for these cases, as appropriate, providing education and information as well as controlling mosquitoes as necessary to protect public health.

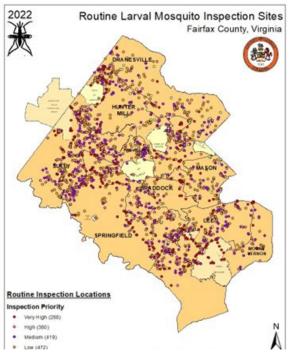
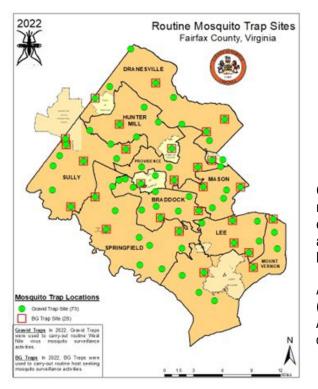


Figure 1. 2022 Routine larval mosquito inspection sites (dry ponds)



#### Mosquito Inspections, Surveillance, and Control Activities

The Health Department responds to complaints and requests for assistance about standing water and mosquitoes as a service to residents who have mosquito-related concerns. Residents are encouraged to call the Health Department, send an email to <a href="mailto:fightthebite@fairfaxcounty.gov">fightthebite@fairfaxcounty.gov</a> or submit a mosquito complaint online.

Immature mosquito surveillance efforts (conducted between March and November) help identify aquatic habitats that support the development of mosquitoes. Health Department staff routinely inspect approximately 1,700 publicly maintained "dry ponds" (Figure 1) and approximately 200 VDOT-maintained stormwater structures throughout that timeframe. Targeted treatments of those habitats can be highly effective at controlling mosquitoes before they reach the flying adult stage when they are more difficult to control.

Adult mosquito surveillance is a vital component of Integrated Mosquito Management (IMM) for monitoring mosquito abundance and viral activity. Adult mosquitoes are trapped weekly from May through October at 73 sites (Figure 2) within the Fairfax Health District, which includes the Cities of Fairfax and Falls Church. Trapping efforts collect a variety of mosquito species, some of which are important disease vectors:

- Culex pipiens and Culex restuans: common mosquitoes that are the main vectors of WNV.
- Aedes albopictus: the most common nuisance mosquito in Fairfax County (also known as the tiger mosquito) that is a potential vector of chikungunya, dengue, yellow fever, and Zika.
- Aedes aegypti: an invasive tropical species that is the main vector of chikungunya, dengue, yellow fever, and Zika. This species is present in Washington, DC, but collections are infrequent in Fairfax County.

On its own, or in conjunction with human disease investigations, mosquito surveillance provides information that can trigger control efforts for immature and/or adult mosquitoes. Control efforts and activities may include public education, elimination of larval habitats, larvicide applications, and/or spraying to kill adult mosquitoes.

Action thresholds for targeted adult mosquito control efforts ("spraying") are flexible, as recommended by organizations such as the American Mosquito Control Association and the National Association of County and City Health Officials (NACCHO). The following indicators may trigger adult mosquito spraying by the Health Department:

- Results of mosquito surveillance and testing,
- Environmental factors that impact mosquito or disease cycles,
- Detection of medically important invasive species, and
- Reported cases of human disease.

#### Lyme disease and other tick-borne diseases

Lyme disease is the most reported vector-borne illness in the United States, with an average of more than 30,000 cases reported annually. It is also the most reported vector-borne disease in Fairfax County each year. The bacterium that causes Lyme disease (*Borrelia burgdorferi*) is transmitted from small mammals to humans through the bite of an infected blacklegged tick (*Ixodes scapularis*). Other tick-borne diseases reported in the County include anaplasmosis, ehrlichiosis, and spotted fever rickettsiosis.

#### **Tick Surveillance and Identification**

The DCIP collects and identifies ticks each month from several vet clinics and the Fairfax County Animal Shelter. Staff also work with local wildlife officials to attend deer management activities that occur in the County to remove and identify ticks from deer. Since FY 2021, through a collaboration with the Fairfax County Police Department's Wildlife Management Specialist and Animal Services Division, DCIP has received ticks collected through the County's deer management archery program. Tick surveillance may also be performed using other methods such as dragging, flagging, sweeping, and trapping. Blacklegged ticks collected by routine or response surveillance are tested for the Lyme disease bacteria at the Health Department laboratory. The data generated by tick surveillance and testing are used to inform the public about the seasonality of local tick species, the diseases they spread, and to reinforce messaging about the importance of preventing tick bites.

An invasive species, the longhorned tick (*Haemaphysalis longicornis*), has been identified in several states since it was first detected in the U.S. in 2017. This tick has been detected annually in Fairfax County since 2020. It transmits a variety of pathogens to humans and animals in other parts of the world; however, its medical significance in the western hemisphere is uncertain.

The DCIP offers a free tick identification service where people find out what type of tick bit them, information about tick-borne diseases and tick prevention methods. This service does not test ticks or provide medical advice. More information can be found at: https://www.fairfaxcounty.gov/health/fightthebite.

#### Outreach and Education

Outreach and education are essential to vector-borne disease prevention. The Health Department is committed to increasing community awareness of personal protection actions that help prevent mosquito and tick-borne diseases as well as steps that can be taken to reduce mosquitoes and ticks. Staff distribute educational materials, offer yard inspections, and advise citizens about how to reduce their exposure to mosquitoes and ticks. DCIP staff provide educational presentations for County workers, neighborhood and homeowners associations, schools, and other interested groups, partnering with the Health Department's Division of Community Health Development to promote more equitable information-sharing of vector-borne disease prevention messages. Outreach and education resources can be found on the DCIP webpage:

https://www.fairfaxcounty.gov/health/fightthebite.

#### **Management Plans**

The DCIP Annual Report, which is subject to approval by the Board of Supervisors, provides a summary of program activities. The most recent report was approved on March 8, 2022, and can be viewed as part of the Final Board Package for that date here: https://www.fairfaxcounty.gov/boardofsupervisors/sites/boardofsupervisors/files/assets/meeting-materials/2022/board/mar08-final-board-package.pdf.

The DCIP maintains relationships with professional and governmental organizations such as the American Mosquito Control Association and Centers for Disease Control and Prevention for

guidance on mitigation of vector-borne diseases. Staff share information and network with regional counterparts throughout the year for situational awareness and to gather ideas for program improvements.



# Budget and Staff Resources

Category	FY 2022 Actual	FY 2023 Adopted	FY 2023 Revised	FY 2024 Advertised			
FUNDING							
Expenditures:							
Personnel Services	\$1,435,272	\$2,143,374	\$2,143,374	\$2,214,821			
Operating Expenses	598,665	1,255,557	1,470,003	1,255,557			
Capital Equipment	95,544	35,000	35,000	35,000			
Total Expenditures	\$2,129,481	\$3,433,931	\$3,648,377	\$3,505,378			
AUTHORIZED POSITIONS/FULL-TIME EQUIVALENT (FTE)							
Regular	14 / 14	15 / 15	15 / 15	15 / 15			

# Summary by Program

FY 2022 Actual	FY 2023 Adopted	FY 2023 Revised	FY 2024 Advertised				
EXPENDITURES							
\$1,184,649	\$1,549,413	\$1,684,542	\$1,579,782				
AUTHORIZED POSITIONS/FULL-TIME EQUIVALENT (FTE)							
7/7	8/8	8 / 8	8 / 8				
\$944,832	\$1,884,518	\$1,963,835	\$1,925,596				
AUTHORIZED POSITIONS/FULL-TIME EQUIVALENT (FTE)							
7/7	7/7	7/7	7/7				
	Actual \$1,184,649 ALENT (FTE) 7 / 7 \$944,832 ALENT (FTE)	Actual Adopted   \$1,184,649 \$1,549,413   ALENT (FTE) 7 / 7   7 / 7 8 / 8   \$944,832 \$1,884,518   ALENT (FTE) \$1,884,518	Actual Adopted Revised   \$1,184,649 \$1,549,413 \$1,684,542   ALENT (FTE) 7 / 7 8 / 8 8 / 8   \$944,832 \$1,884,518 \$1,963,835   ALENT (FTE) 51,884,518 \$1,963,835				

# FY 2024 Funding Adjustments

The following funding adjustments from the <u>FY 2023 Adopted Budget Plan</u> are necessary to support the FY 2024 program:

#### **Employee Compensation**

#### \$71,447

An increase of \$71,447 in Personnel Services includes \$39,759 for a 2.00 percent market rate adjustment (MRA) for all employees and \$25,914 for performance-based and longevity increases for non-uniformed merit employees, both effective July 2023. The remaining increase of \$5,774 is included to support employee retention and recruitment efforts that will reduce pay compression and align the County's pay structures with the market based on benchmark data.

# Changes to <u>FY 2023</u> <u>Adopted</u> Budget Plan

The following funding adjustments reflect all approved changes in the FY 2023 Revised Budget Plan since passage of the <u>FY 2023 Adopted Budget Plan</u>. Included are all adjustments made as part of the FY 2022 Carryover Review and all other approved changes through December 31, 2022:

#### **Carryover Adjustments**

### \$214,446

As part of the *FY 2022 Carryover Review*, the Board of Supervisors approved funding of \$214,446 in encumbered funding in Operating Expenses for contractual obligations in both the Forest Pest Program and the Disease-Carrying Insect Program.

# **Position Detail**

The FY 2024 Advertised Budget Plan includes the following positions:

INTEGRATED PEST MANAGEMENT PROGRAM - 15 Positions						
Forest	Pest Program					
1	Urban Forester IV	1	Urban Forester I			
2	Urban Foresters III	1	Administrative Assistant III			
3	Urban Foresters II					
Disease-Carrying Insects Program						
1	Epidemiologist III	2	Environmental Health Specialists II			
1	Environmental Health Supervisor	1	Environmental Technician II			
2	Environmental Health Specialists III					

Performance Measurement Results by Community Outcome Area

### Environment and Energy Forest Pest Program

The FPP recently expanded the list of pests that are monitored and treated. The new performance measures are more inclusive of the work completed by staff. There was no aerial treatment for the spongy moth (formerly called gypsy moth) in the spring of 2022. The number of forest pest surveys and related activities in FY 2022 is 68.5 percent higher than the previous fiscal year. This increase is largely due to expansion of the SLF and HWA programs. Monitoring and treatment projects were modified to increase efforts for the early detection and rapid response for spotted lanternfly. Staff increased the number of monitoring traps and the frequency that they were checked. Generally, invasive species are easier to manage when found early in their infestation. Staff increased efforts to inventory the extent of hemlock stands in the Dranesville and Springfield Districts and identify what areas of the County to prioritize treatment. Additionally, staff treated more hemlock trees than in

previous years. Defoliation surveys for listed insects conducted in the summer of 2022 indicated that there will be no defoliation in Fairfax County in FY 2023.

## **Healthy Communities**

#### **Disease-Carrying Insects Program**

The FY 2022 program cost-per-capita was \$0.76, \$0.22 higher than in FY 2021 and \$0.01 lower than in FY 2020. The fluctuation from FY 2020 through FY 2022 was due to staffing and operational impacts of the Health Department's response to the COVID-19 pandemic. The numbers of routine stormwater structures inspected and treatments to control immature mosquitoes were lower than estimated for FY 2022. This is also attributed to a reduction in staffing due to the COVID-19 pandemic during the beginning of FY 2022. Inspection numbers are expected to increase for FY 2023 as staffing and operational capacity approach pre-pandemic levels.

The percentage of stormwater structure inspections resulting in treatments to control immature mosquitoes was 14 percent in FY 2022, up four percentage points from FY 2021 and higher than the 12 percent estimate. This increase in the proportion of stormwater structures treated is partially due to an operational shift toward more frequent inspections of sites that have historically been known to produce large numbers of *Culex* mosquitoes. The increased treatment to decrease the number of *Culex* mosquitoes aids in preventing the transmission of West Nile Virus.

Community Outcome Area	FY 2020 Actual	FY 2021 Actual	FY 2022 Estimate	FY 2022 Actual	FY 2023 Estimate	FY 2024 Estimate
Environment and Energy						
Promoting Air, Water and Land Quality						
Percent of County tree defoliation resulting from listed Forest Pest infestation	0%	0%	0%	0%	0%	0%
Healthy Communities						
Improving Physical and Behavioral Conditions						
Percent of stormwater structure inspections that resulted in treatments to control immature mosquitoes	15%	10%	12%	14%	12%	12%

A complete list of performance measures can be viewed at https://www.fairfaxcounty.gov/budget/fy-2024-advertised-performance-measures-pm

### **FUND STATEMENT**

Category	FY 2022 Actual	FY 2023 Adopted Budget Plan	FY 2023 Revised Budget Plan	FY 2024 Advertised Budget Plan
Beginning Balance	\$5,154,993	\$4,028,808	\$5,587,249	\$4,488,355
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Revenue:				
General Property Taxes	\$2,697,970	\$2,692,792	\$2,692,792	\$3,141,666
Interest on Investments	4,767	7,691	7,691	7,691
Total Revenue	\$2,702,737	\$2,700,483	\$2,700,483	\$3,149,357
Total Available	\$7,857,730	\$6,729,291	\$8,287,732	\$7,637,712
Expenditures:				
Forest Pest Program	\$1,184,649	\$1,549,413	\$1,684,542	\$1,579,782
Disease-Carrying Insects Program	944,832	1,884,518	1,963,835	1,925,596
Total Expenditures	\$2,129,481	\$3,433,931	\$3,648,377	\$3,505,378
Transfers Out:1				
General Fund (10001) - Forest Pest Program	\$66,453	\$67,609	\$67,609	\$67,609
General Fund (10001) - Disease-Carrying Insects Program	74,547	83,391	83,391	83,391
Total Transfers Out	\$141,000	\$151,000	\$151,000	\$151,000
Total Disbursements	\$2,270,481	\$3,584,931	\$3,799,377	\$3,656,378
Ending Balance <sup>2</sup>	\$5,587,249	\$3,144,360	\$4,488,355	\$3,981,334
	<i>40,001,240</i>	¥3,1 <del>11</del> ,300	<b>₩</b> 4, <b>400,000</b>	¥0,001,00 <del>4</del>
Tax Rate Per \$100 of Assessed Value	\$0.001	\$0.001	\$0.001	\$0.001

<sup>1</sup> Funding in the amount of \$151,000 is transferred to the General Fund to partially offset central support services supported by the General Fund which benefit Fund 40080, Integrated Pest Management. These indirect costs include support services such as Human Resources, Purchasing, Budget, and other administrative services.

<sup>2</sup> Due to the cyclical nature of pest populations, the treatment requirements supported by this fund may fluctuate from year to year. Therefore, Ending Balances may also fluctuate depending on the level of treatment necessary to suppress spongy moth, cankerworm, emerald ash borer, or West Nile Virus - carrying mosquito populations in a given year.