



FAIRFAX COUNTY HEALTH DEPARTMENT

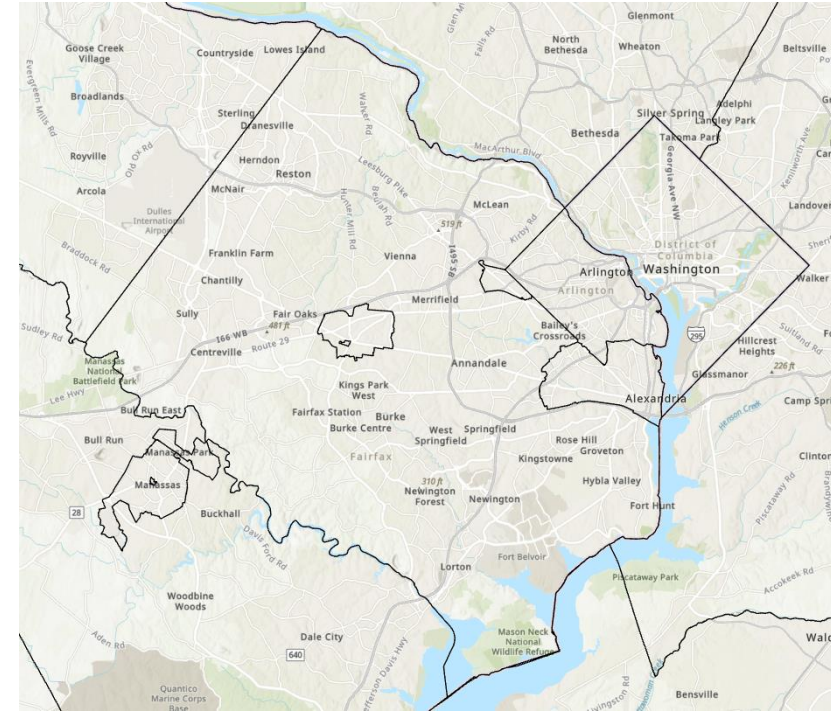
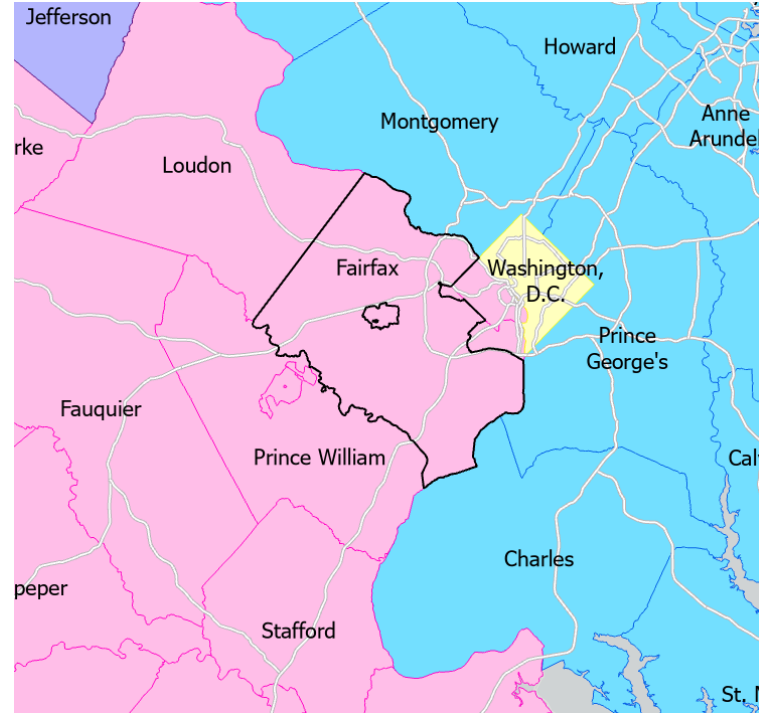
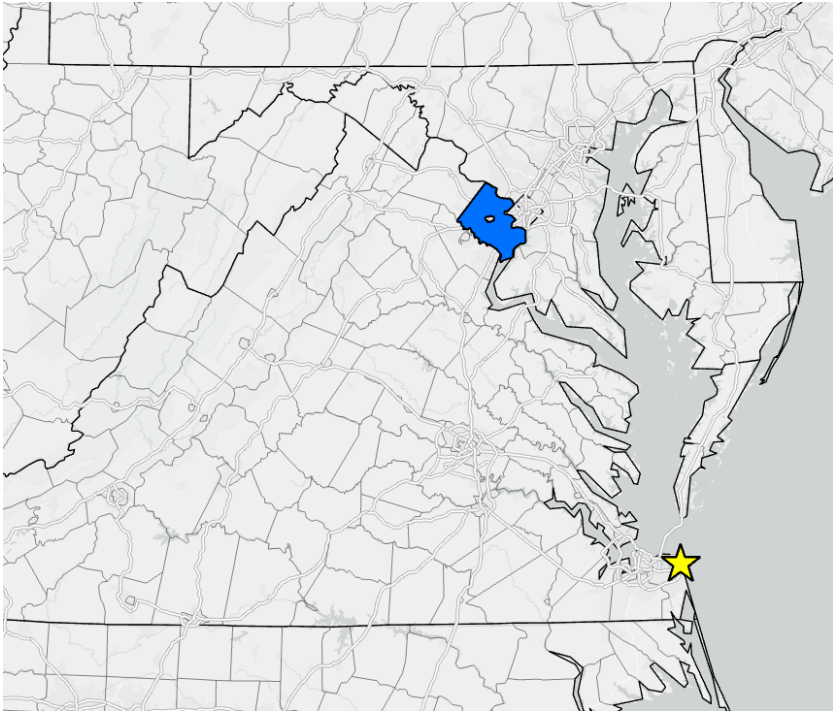
Aedes aegypti in Fairfax County

Lauren Lochstampfor
Senior Environmental Health Specialist
Division of Environmental Health
Fairfax County, Virginia



Welcome to Fairfax County!

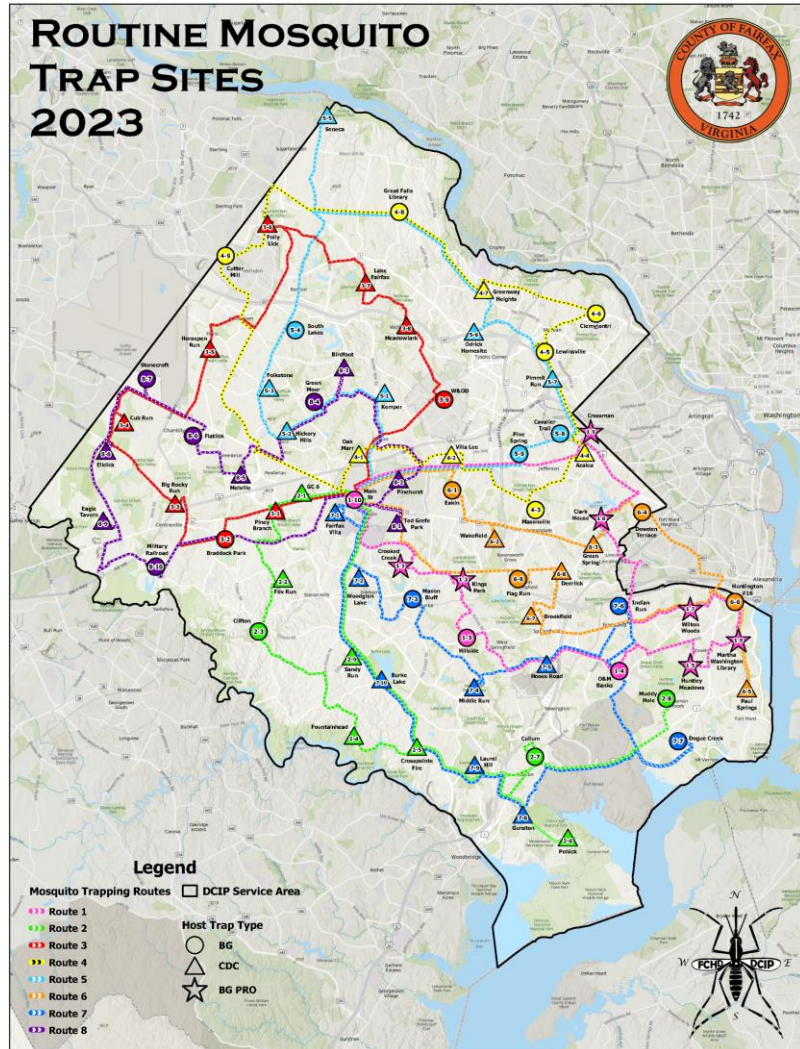
- 406 Square Miles
- Just outside of Washington, DC
- 1.2 Million Residents
- More populous than 7 states!



FAIRFAX COUNTY HEALTH DEPARTMENT



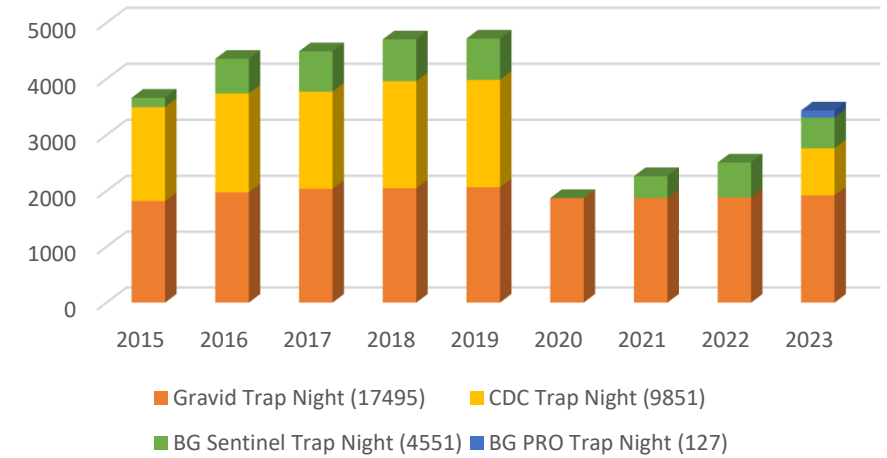
DCIP Routine Trapping Locations



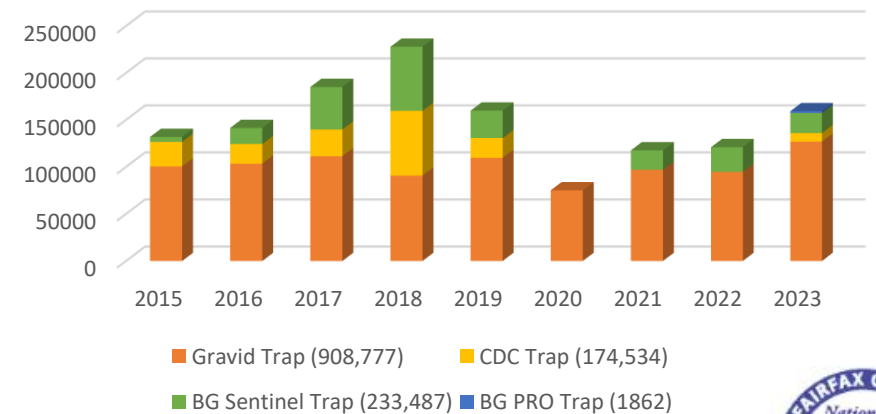
2015-2023 Routine Trapping Trends

- **32,025** Trap Nights
- **4** types of traps
 - Gravid
 - CDC
 - BG Sentinel
 - BG Pro
- **1,318,660** Total Mosquitoes collected

Count of Routine Trap Nights (2015-2023)

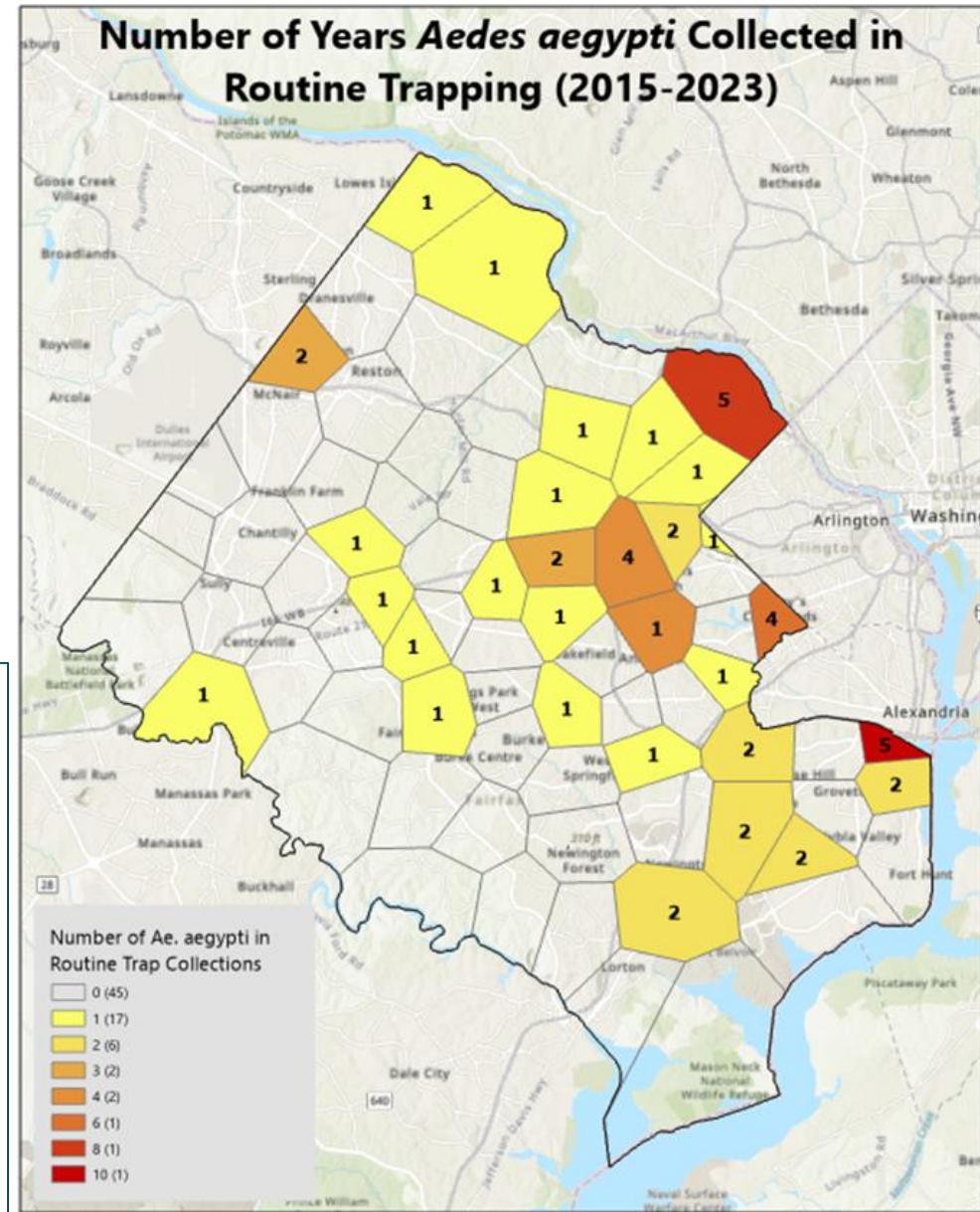
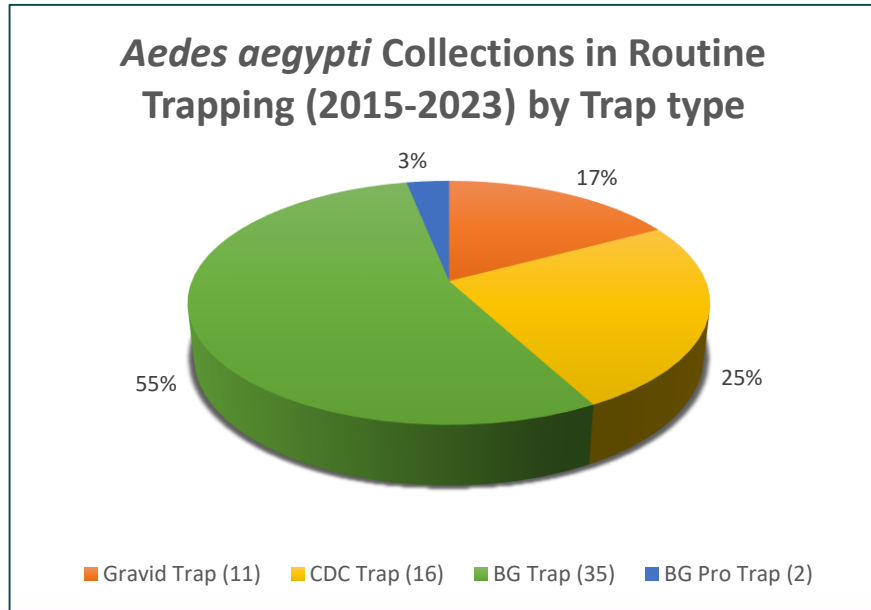


Count of Mosquitoes Collected in Routine Trapping (2015-2023)



Why *Aedes aegypti*?

- Before 2015, 1 *Ae. aegypti* collected in 2007, and multiple unconfirmed collections in 2003.
- Since 2015, **68** *Ae. aegypti* collected in routine trapping.*(One was a male)
- **17** locations have only had 1 *Ae. aegypti* collected (7 of those were new in 2023)
- *Ae. aegypti* collected at **40%** (30) of routine trap locations since 2015
- **55%** of *Ae. aegypti* were collected with BG Sentinel Traps



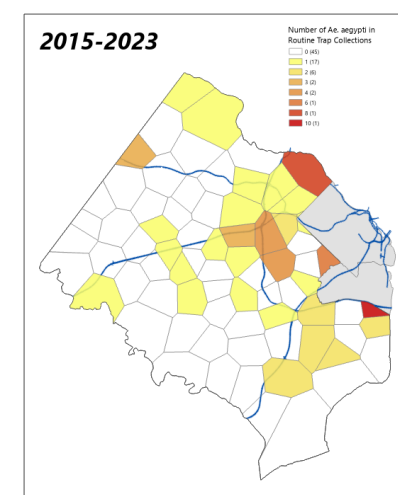
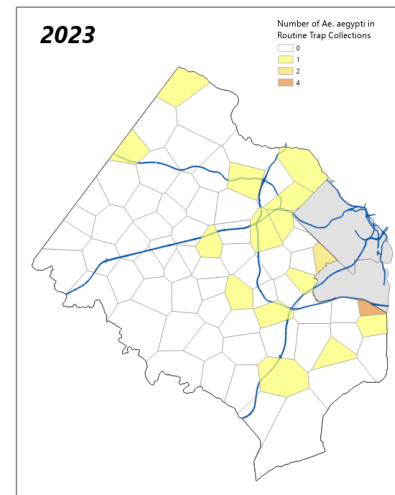
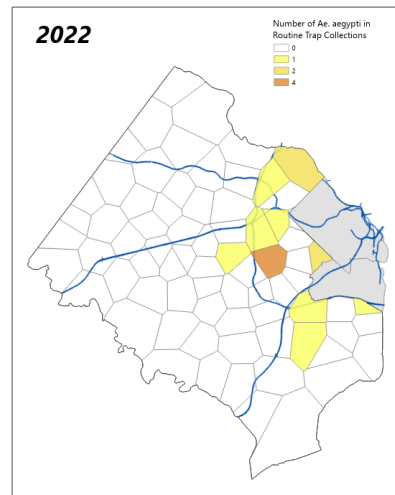
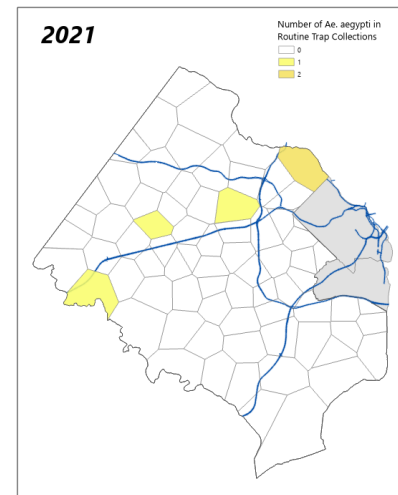
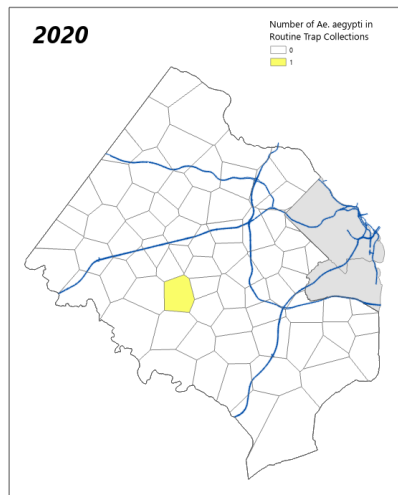
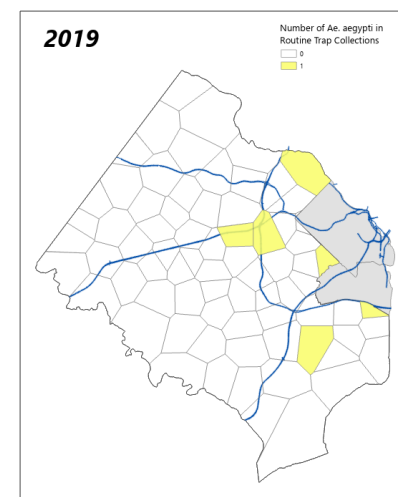
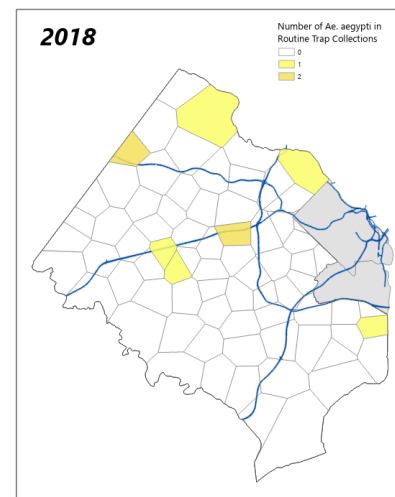
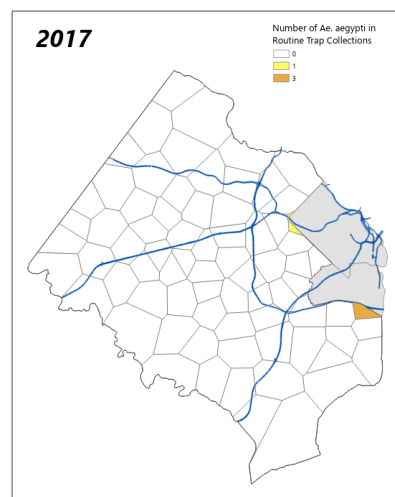
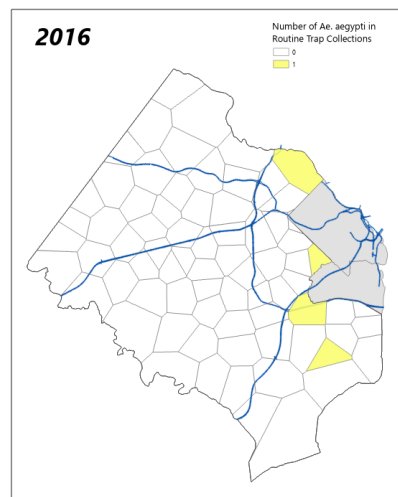
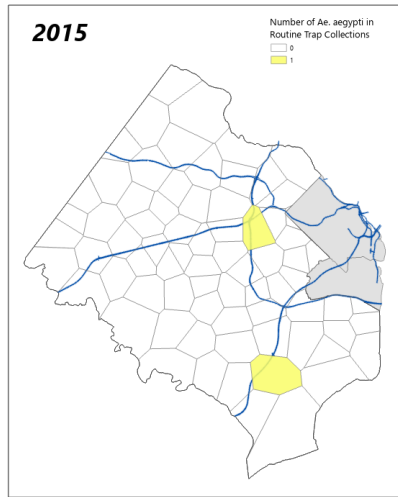
We have been seeing more *Aedes aegypti* over time.

Year	April		May				June				July					August					September					October					Total Ae. <i>aegypti</i> Trap Collections
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45		
2015																														2	
2016																														4	
2017																														2	
2018																														9	
2019																														6	
2020																														1	
2021																														5	
2022																														15	
2023																														20	

(1) *Ae aegypti* Trap Collection
 (2) *Ae aegypti* Trap Collections
 (3) *Ae aegypti* Trap Collections
 (4) *Ae aegypti* Trap Collections

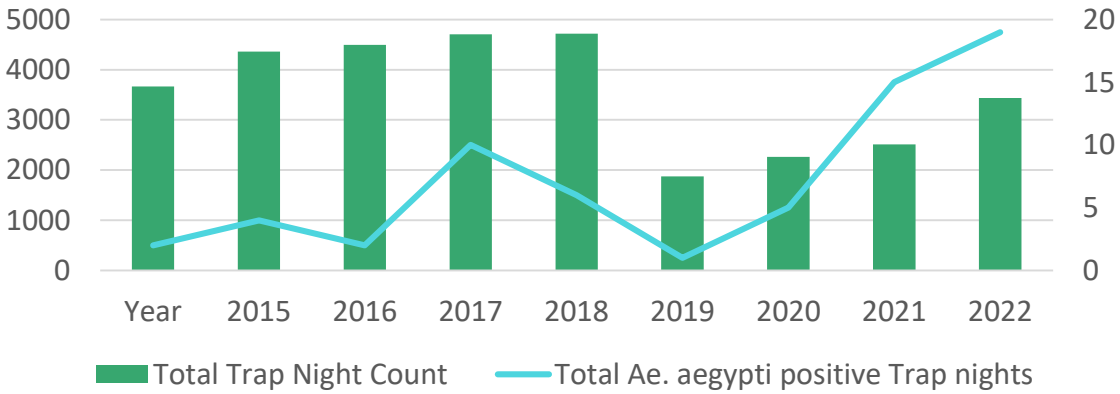


Aedes aegypti collections in Routine Trapping

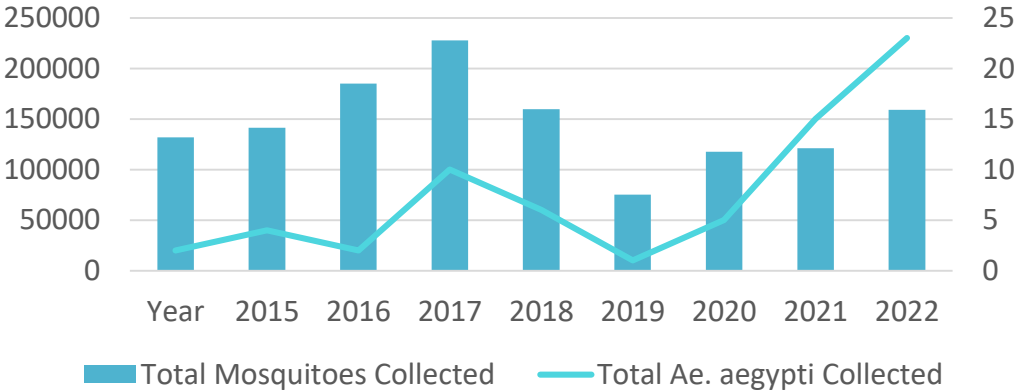


More *Aedes aegypti* with less effort

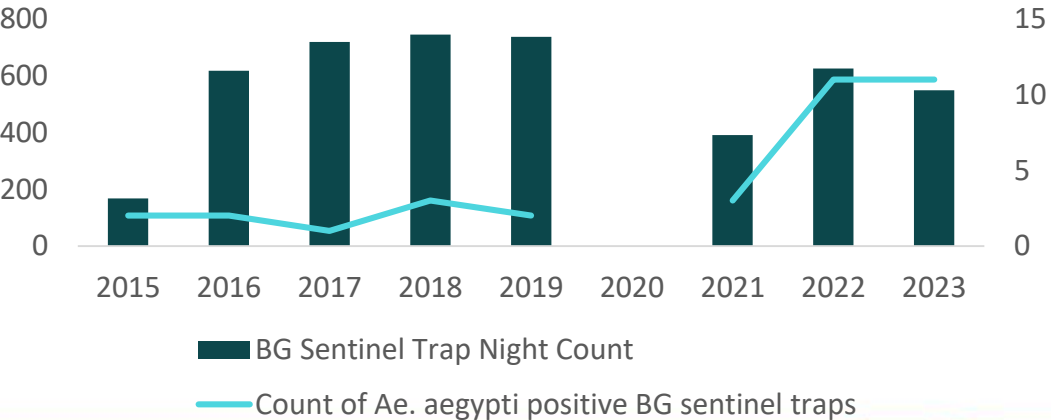
Routine Collections: Total Trap Nights and *Ae. aegypti* Trap Nights



Routine Collections: Total Mosquitoes and *Ae. aegypti* Collected



Total BG Sentinel Trap Nights and *Ae. aegypti* positive BG trap nights

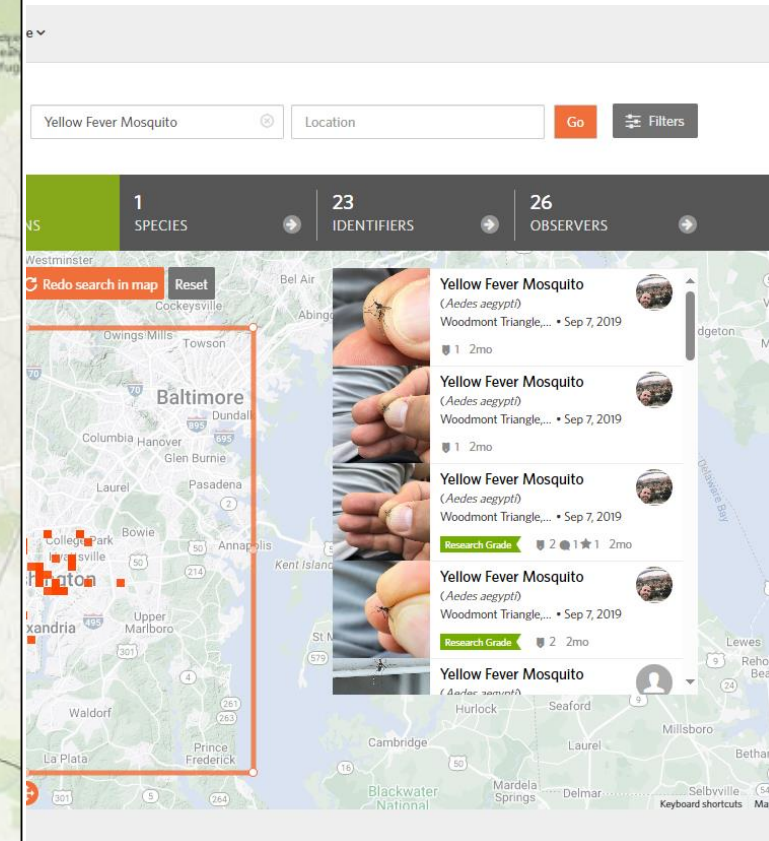
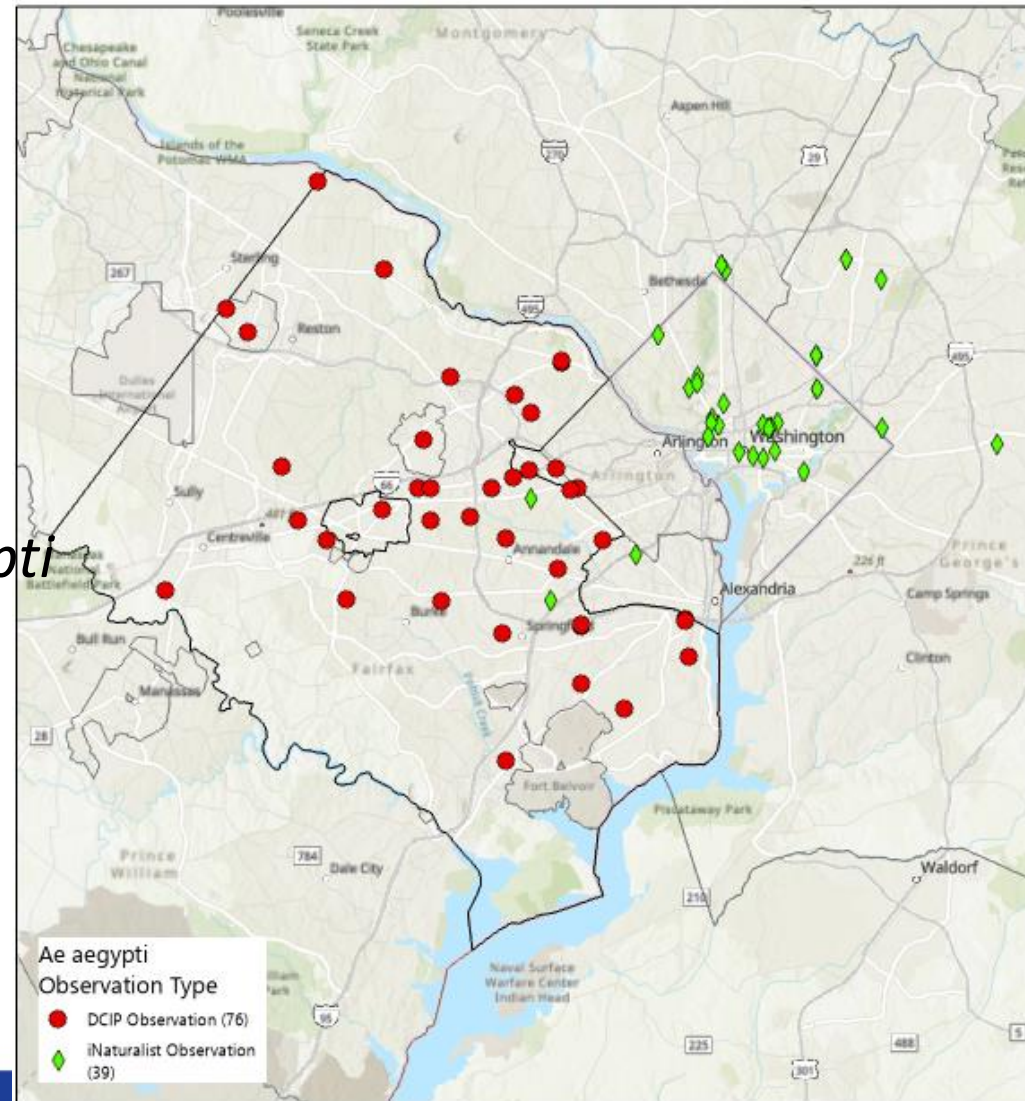


Why do we keep finding single *Aedes aegypti*?

Regional *Ae. aegypti* Observations

Known overwintering population in nearby Washington DC.

iNaturalist *Aedes aegypti* Observations



Many workers moving between DC and surrounding areas

Workers working outside of state of residence.

Daytime Worker Population

Search Living Atlas for maps, apps, and more



Search Examples



All



Trending



Basemaps



Imagery



Boundaries



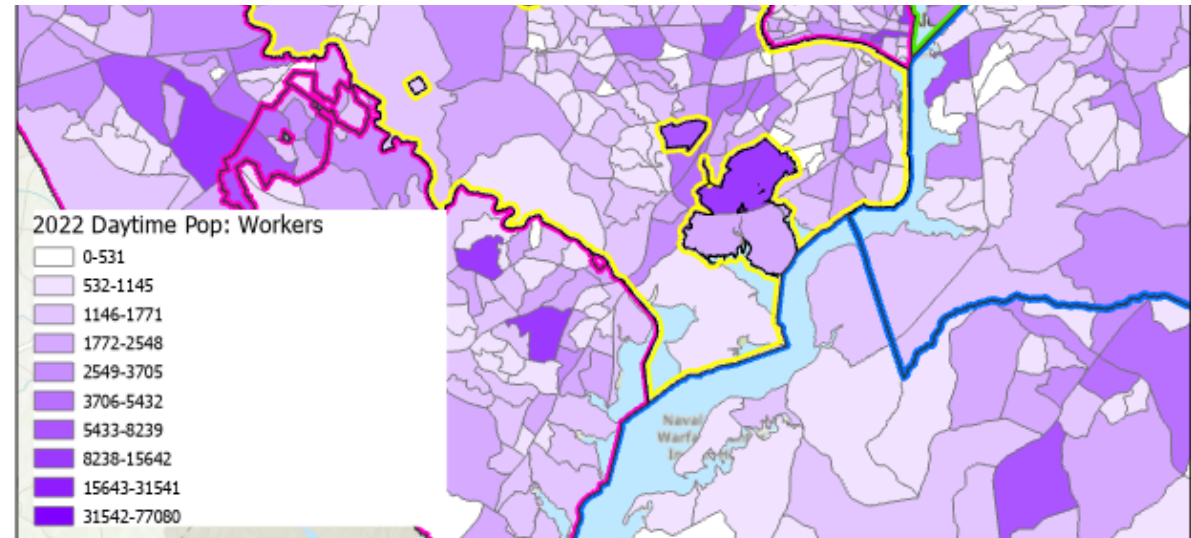
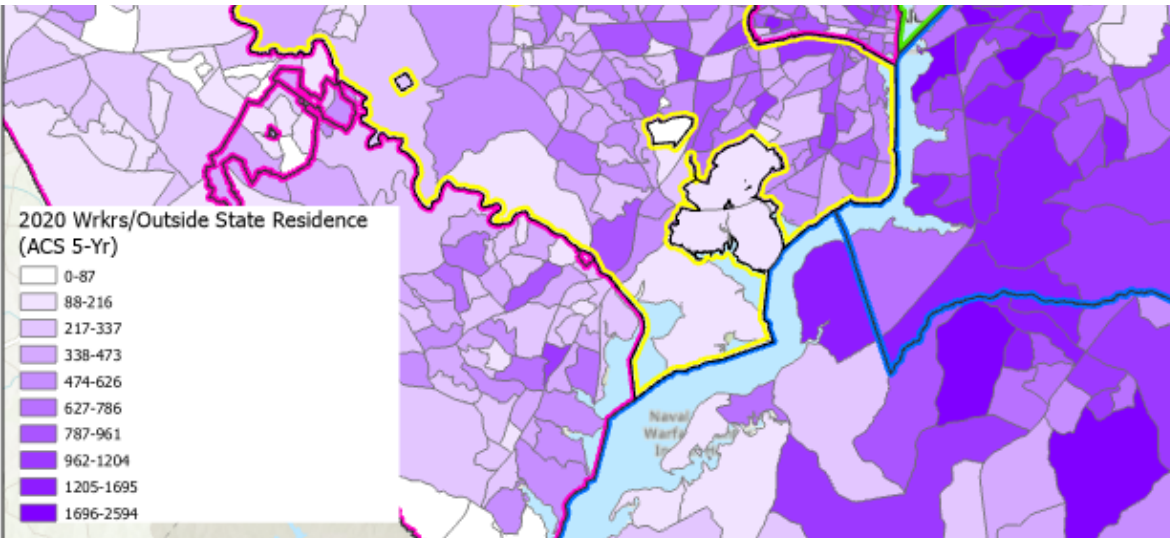
People



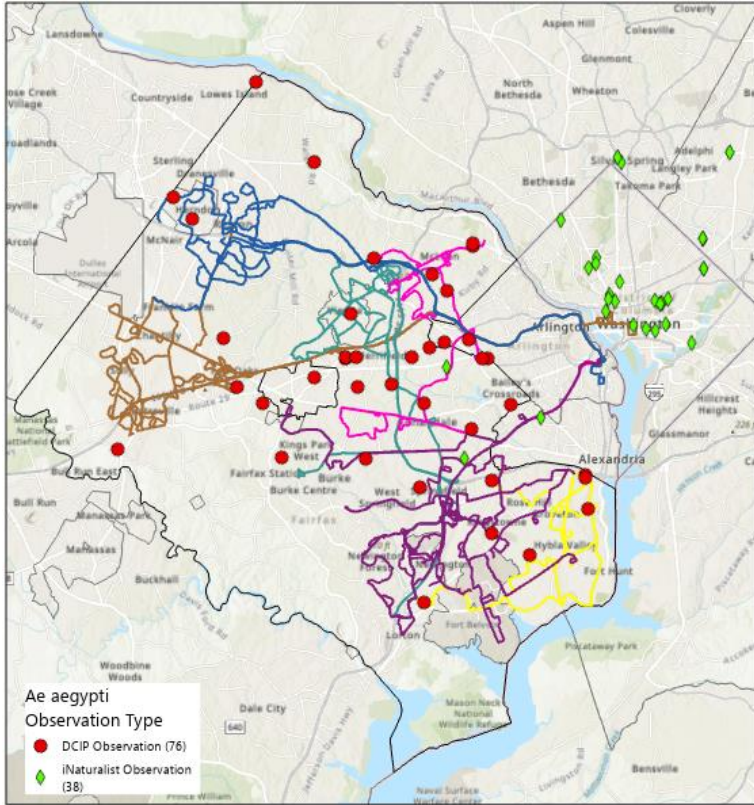
Infrastructure



Environment

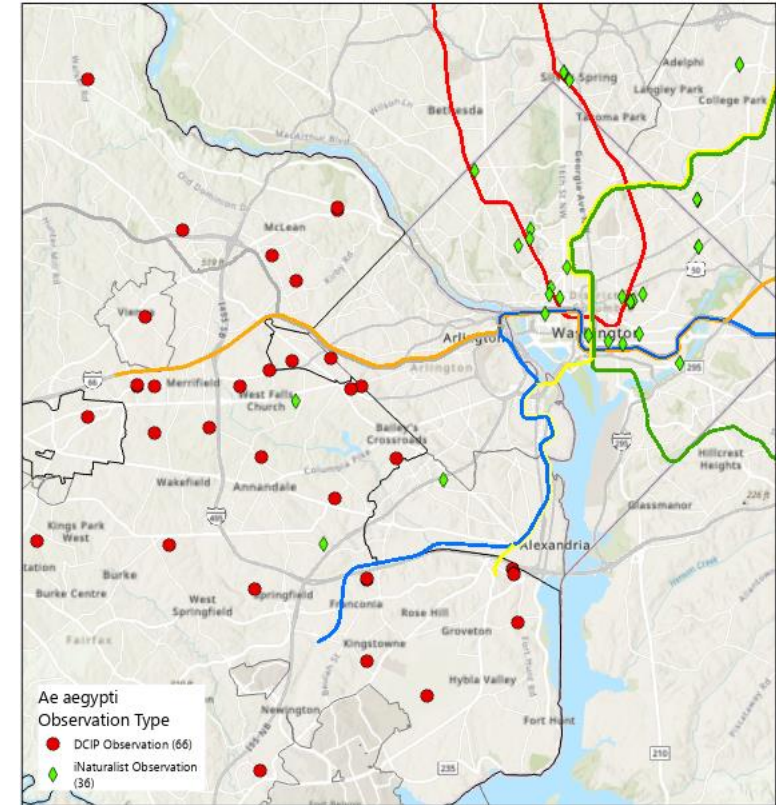
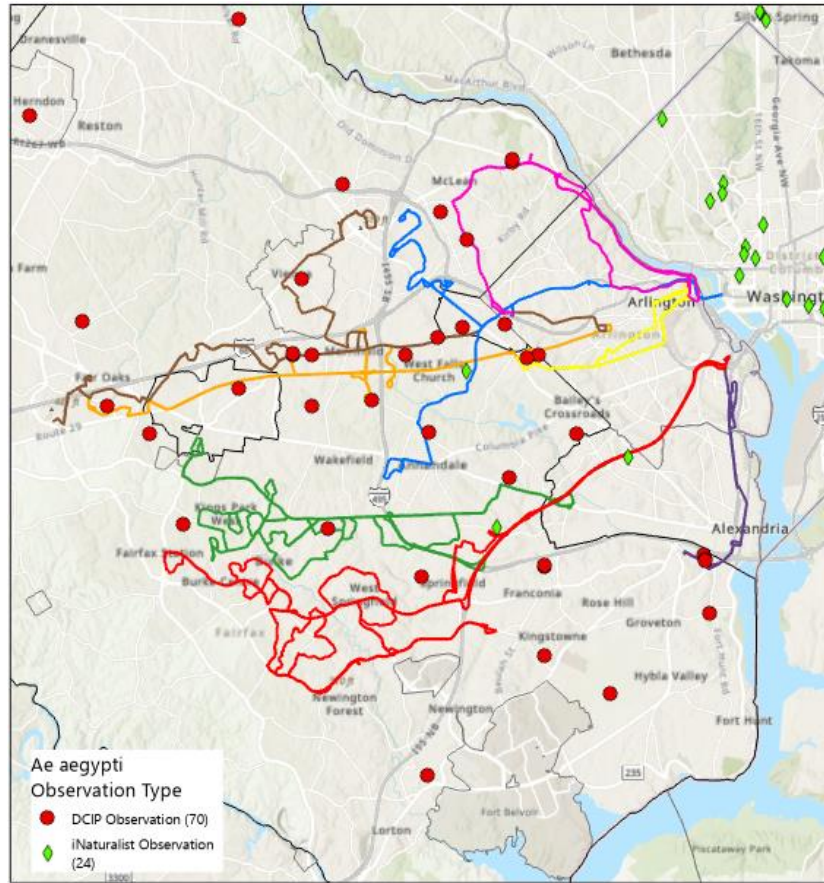


Many Public Transportation Routes Between Fairfax and DC



Selected Fairfax Connector Bus Routes

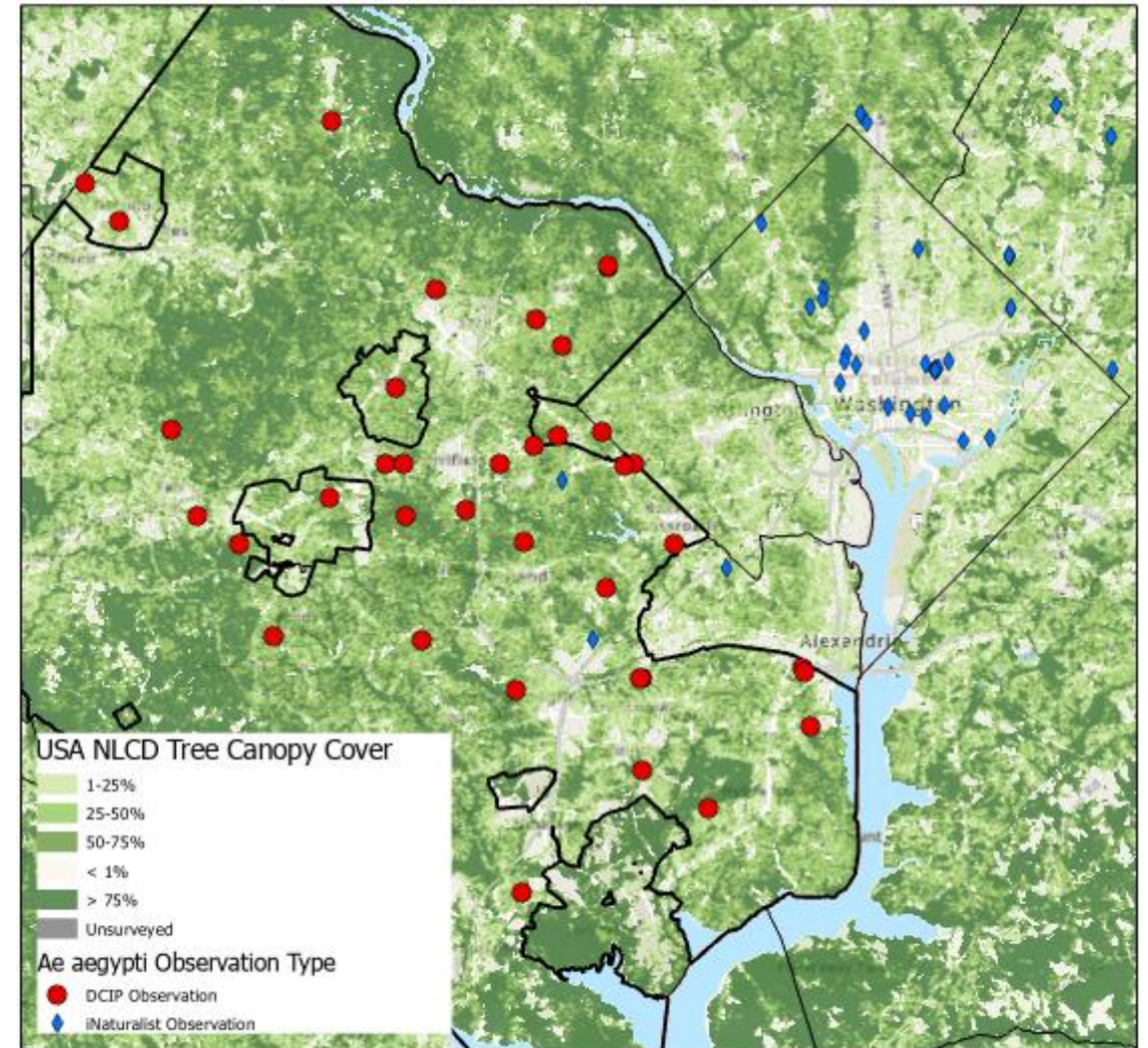
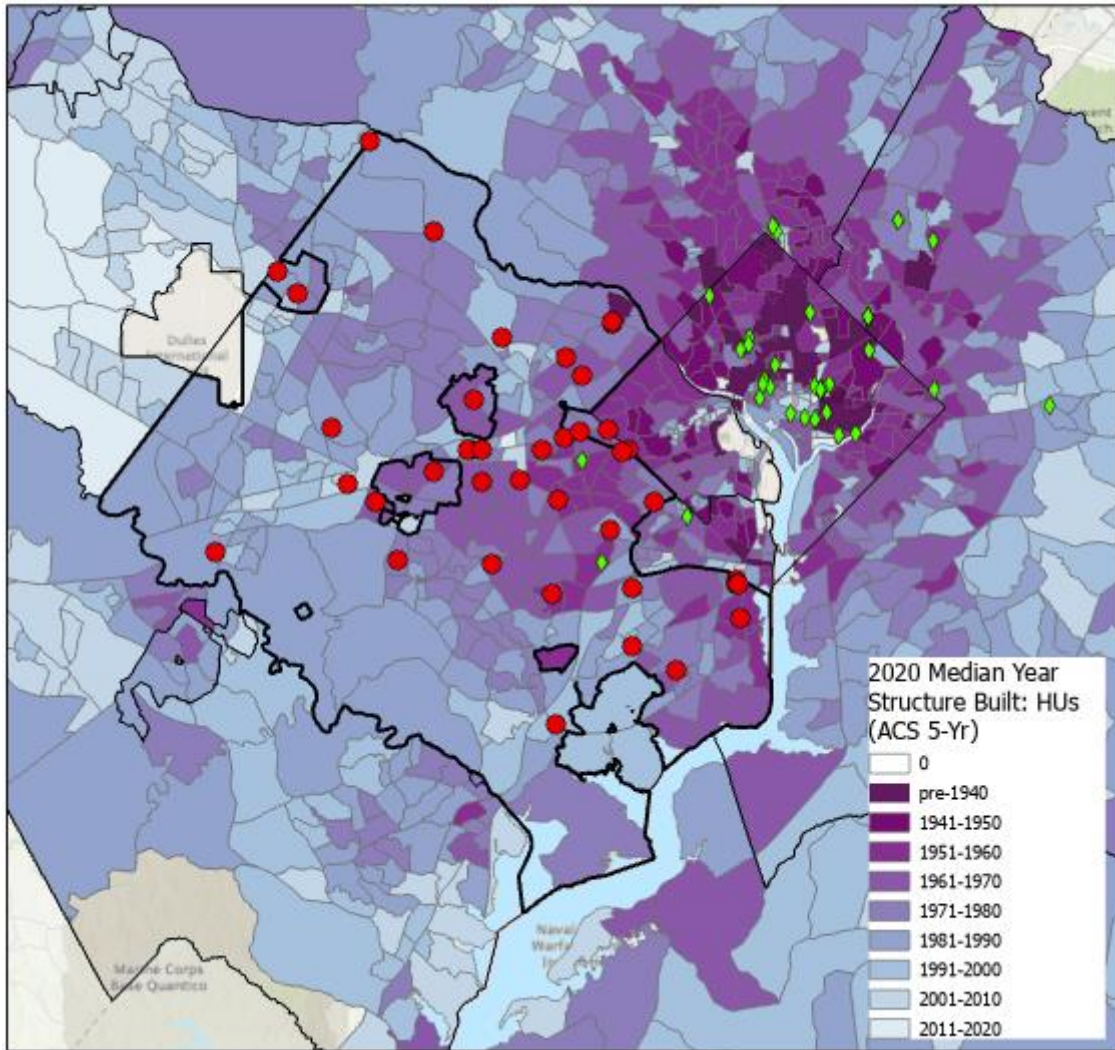
Selected Metro Bus Routes



Metro Rail Routes



What's going on?



2024 - BG Sentinel Traps at all
75 Routine Trap Locations

