Hampton Roads Itch Index (0–10)

A simple, UV-style mosquito nuisance signal for parks and green spaces

## Datathon 2025 Submission

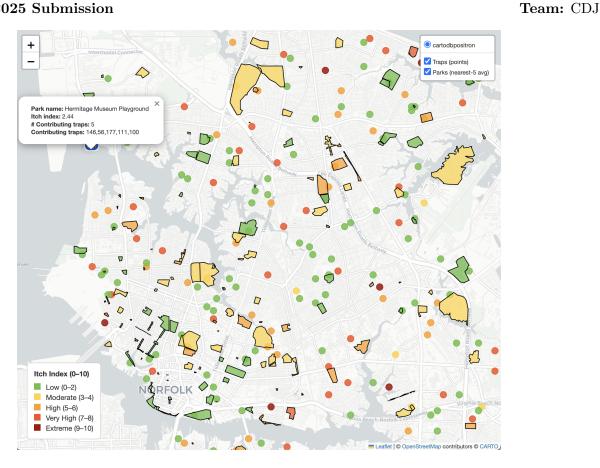


Figure 1: Interactive Itch Map (click image). Full report can be found here.

# Why this matters

Mosquito nuisance is local and changes fast. Residents, Parks & Rec, and event planners need a clear, timely signal to choose protection & plan operations.

## What we built

A stable, readable **0–10 Itch Index** derived from mosquito trap counts, published on a public, parkcentric map. Different traps and species are normalized so the number is comparable across sites & wks.

# What the number means

- 0–2 Low enjoy parks normally
- 3–4 Moderate repellent at dusk/dawn
- 5-6 High repellent + socks/long sleeves near vegetation
- 7-8 Very High avoid marsh-edge trails at dusk; caution for outdoor events
- 9–10 Extreme strong protection; consider advisories

#### Who uses it

- **Public:** simple daily guidance for parks and trails
- Event organizers: plan evening timing and patron messaging
- Operations: prioritize surveillance and treatment where risk stays high

#### Action statement

- Publish weekly Itch Index to Parks & Rec and event planners
- Trigger ops: prioritize sites that remain > 7 for two consecutive weeks
- Targeted outreach: emphasize daytime protection when day-biting species dominate