



Can you visualize it? Community science data for grades K - 8

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San Gabriel Valley Mosquito and Vector Control District





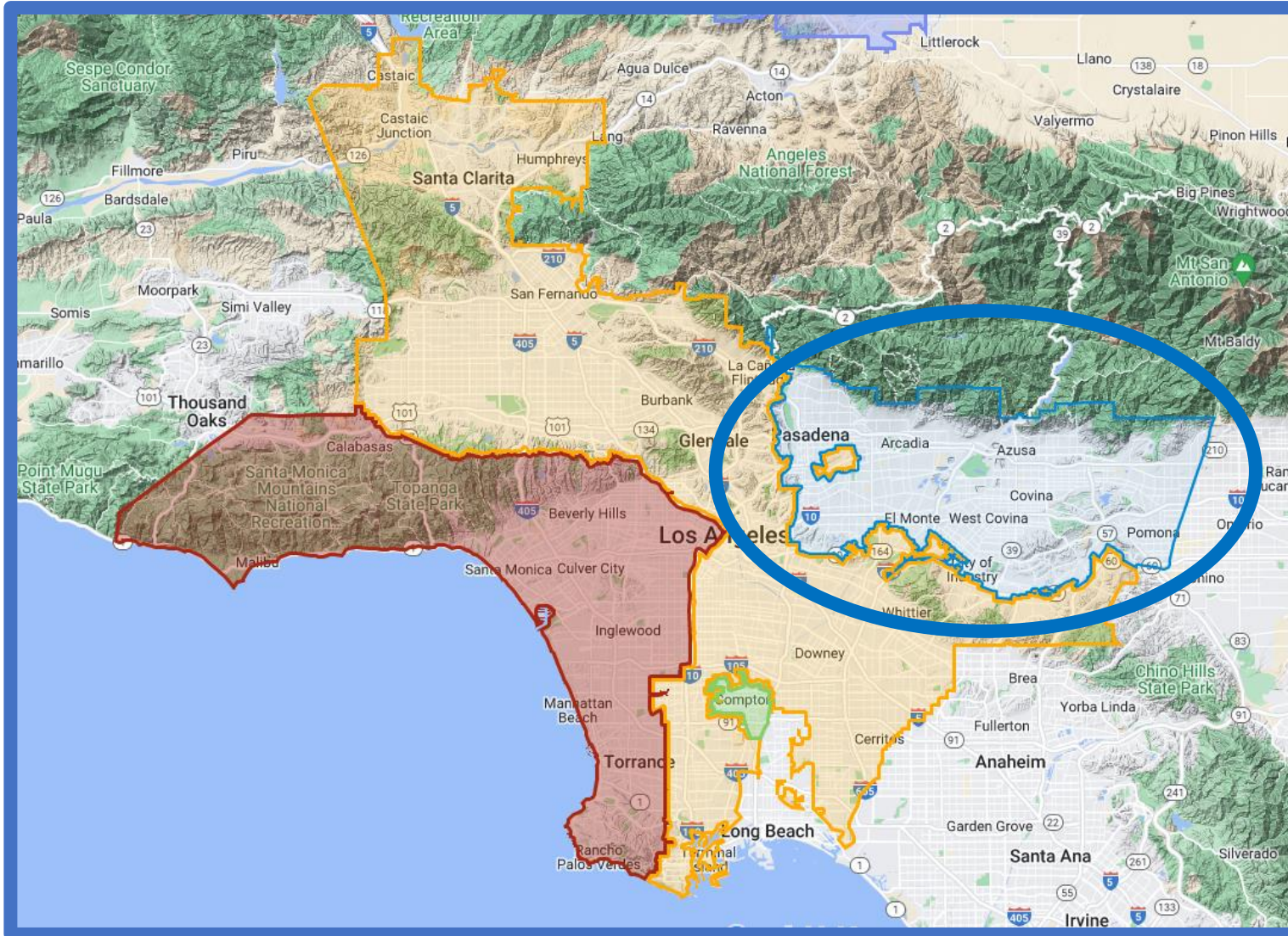
**Community
Science**



**Data
Visualization
Platform**



**Data &
Impact**



SGVMVCD

- LA County
- >1.5 million residents
- 24 school districts
- 550 schools
- >200,000 students
- 2 Education Specialists

www.google.com/maps/d/u/0/viewer?mid=1xc8v6IOgEDW-VTwM8He8TGHqT77N8ZU&ll=34.16478150776702%2C-118.1459262772723&z=10





EcoHealth

Vector Education



Why Community Science?

Benefit to Schools and Students

- Program for elementary ages
- Aligned to state science standards
- Develop science skills
- Connect to public health

Benefit to our District

- Increase public awareness
- Cut cost and time spent on private property
- More data
 - Distribution of invasive species
- Build brand recognition & goodwill



Vector Inspector Program (V.I.P.)



- Elementary school (Grades K – 6)
- Use tools to conduct inspections around their own homes
- Identify potential mosquito habitats
- Collect and submit water samples for analysis

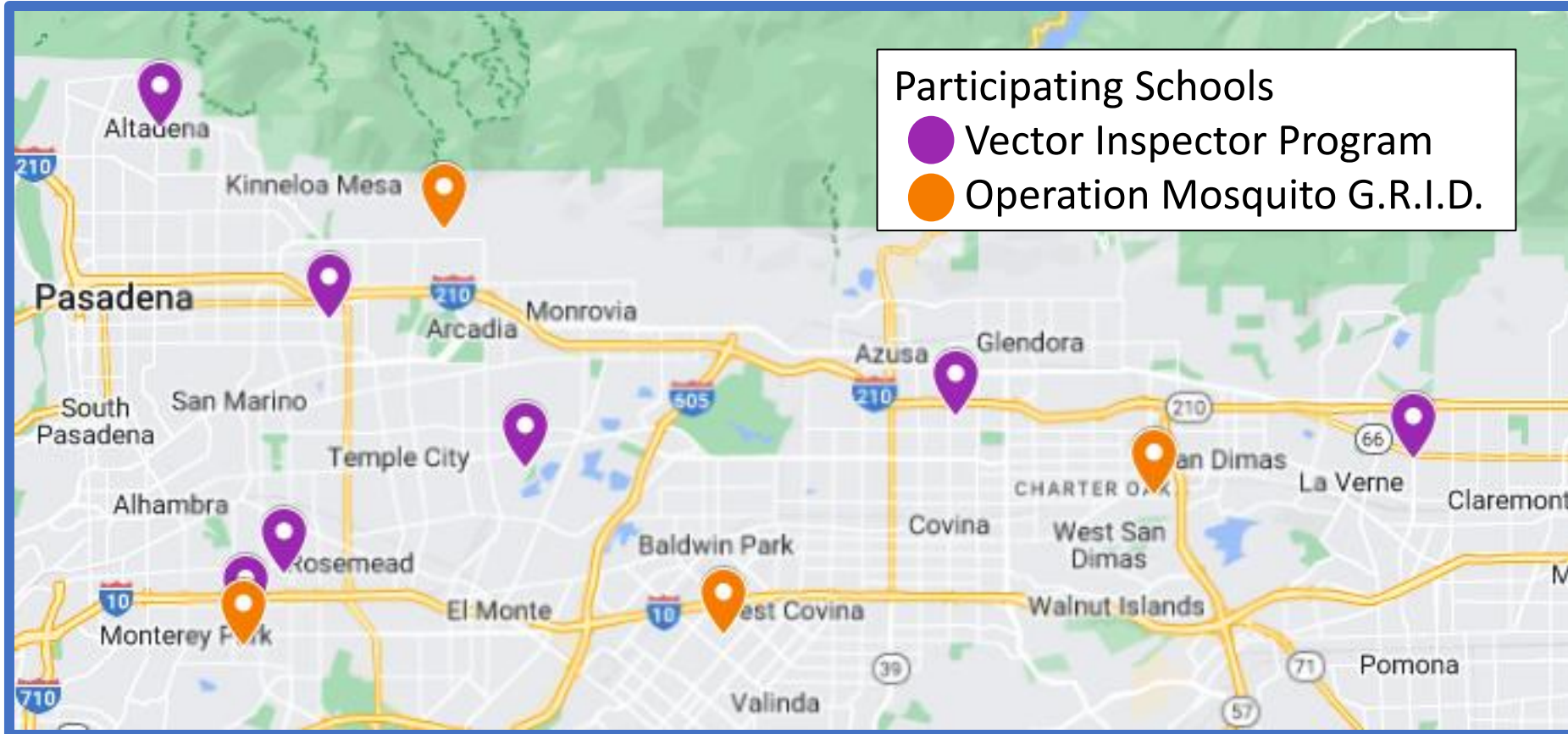


Operation Mosquito G.R.I.D.



- Middle school (Grades 6 – 8)
- Set oviposition traps for 1 week
- Conduct their own water sample & oviposition paper analysis*

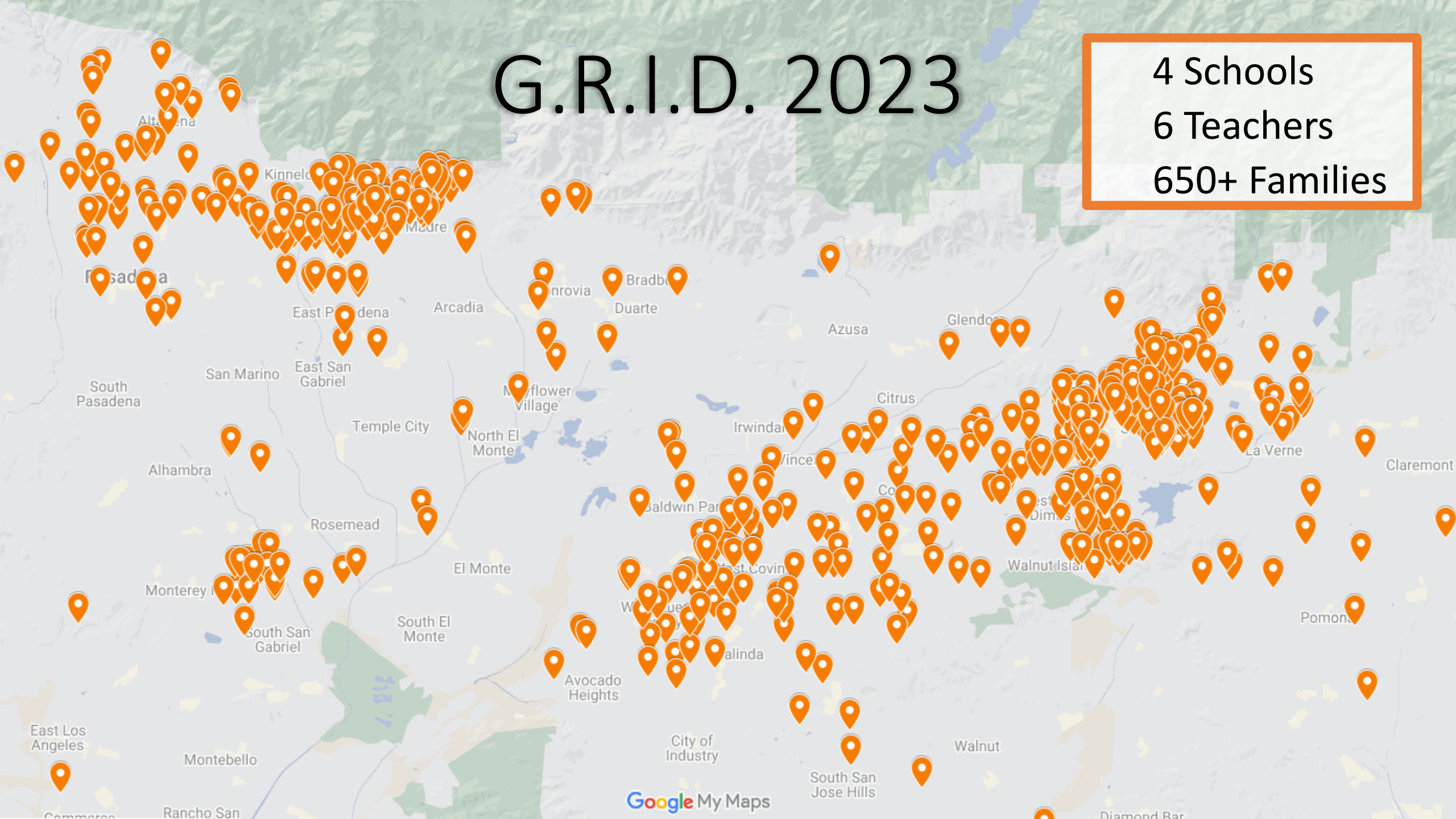
2023



- **V.I.P.**
 - 22 Teachers
 - 7 Schools
- **G.R.I.D.**
 - 6 Teachers
 - 4 Schools
- >1,000 Students

G.R.I.D. 2023

4 Schools
6 Teachers
650+ Families



Data Collection



Teacher & students enroll



Students receive "Agent #s"



Students collect samples & clear yards



Data is analyzed & posted publicly

How can K – 8 students access the data they collect and analyze in a meaningful way?



:Padlet Gallery + 2 • 9m

Chores To Do ✓

Made with determination

MON TUE WED THU FRI SAT SUN



padlet

:Padlet Gallery + 2mo

Harry Potter Quiz

Test your knowledge of Books 1-7!

Laundry: 30141 likes, 12911 comments

Dishes: 15135 likes, 7563 comments

Dog Walking: 12086 likes, 6619 comments

Besides Hogwarts, what are the two other schools that participate in the Triwizard Tournament, and where are they located?

In what book does Albus Dumbledore say, "It is our choices, Harry, that show what we truly are, far more than our abilities"?

What was Sirius Black's nickname among the Marauders?

Who was playing in the final of the Quidditch World Cup that Harry attended in Book 4?

What was the ingredient that Harry's wand shared with Lord Voldemort's?

What does Draco Malfoy call Hermione that Ron describes as a "disgusting thing to call someone"?

What are Crabbe and Goyle's first names?

:Padlet Gallery + 1 • 3mo

Office Noticeboard

News, events, and chatter from the WorkSmart coworking space.

Conference room booking: Visit Calendly to see availability and book a room. calendly.com/worksmart

Officewise Slack: Use your work email!

News Watching Parties: Meet 6:30 pm at Jamber Wine Pub. Group will be leaving the office at 6.

Friday Happy Hour: Meet 6:30 pm at Jamber Wine Pub. Group will be leaving the office at 6.

Looking for Volunteer activities? Email brooke@worksmart.org to setup a group volunteer trip.

Level Up Your Skills

:Padlet Gallery + 3mo

Human Resources

Important documents

Intercompany mixer? (Mike from Padlet): We're a team of five, mostly new to the city. Let's set something up! email mike@padlet.com

IT contact info: Email frank@worksmart.org IF urgent - dial 1-800-555-5555 IF not urgent - set up meeting via "Frank's Schedule" on Calendly.

Pet Policy

Current office playlist: RELAXING SOUL MUSIC - YouTube

:Padlet Gallery + 3mo

Human Resources

Important documents

Employee Handbook: PDF

Employee Satisfaction Survey (confidential): qualtrics.com

Payroll: BambooHR makes payroll fast, easy, and accurate-always | BambooHR

Insurance: zenefits.com

W-2/W-3 online: ssa.gov

Change of Address (federal): PDF

W-9: PDF

207710150 (YM)



A long line of aedes mosquito eggs on the paper, clumps of eggs

♡ 0

160803307 YM



Description

Subject

201010156 (YM)

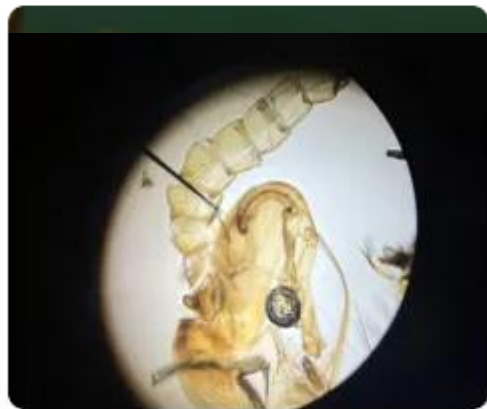


Photo/Video

Culex mosquito were identified in the larva stage. The water was tinted yellow with leaf debris with silt. Mosquito larva were found swimming around. (Mosquito larva for sure! Great shot! If you have a photo of the siphon- its "tail", then I could identify it to species)

♡ 0

150304006 ym



(Mosquito Pupa)

♡ 1

147703790 (YM)



Found this in water

Uenishi YM



Elaborate "plumes" indicate this is a male mosquito.

Water was clear, brownish, and

Uenishi-4YM

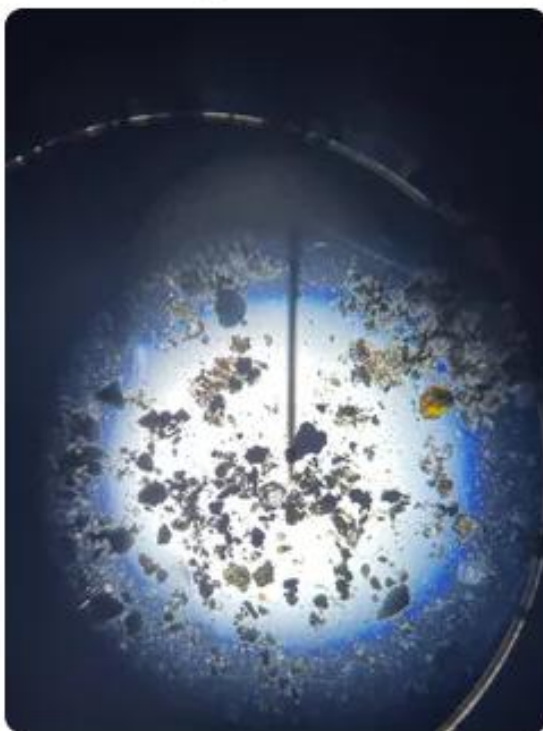


140403144 (NM)



The water I gathered was clear but had a hint of yellow with particles floating around. The water was absent of any mosquitoes or mosquito eggs. The sample of my water contained silt, sand, fibers of man-made materials, and insect parts. The picture I sent is what I believe to be a part of an insect. (Yes, could be part of an insect)

137703197, NM



The water was brown, contained sand and algae. There was lots of small amounts of dirt and random things. There was a little thing that looked like a dead fly. No mosquitoes found (Yes, looks like sand and algae with some fungus)

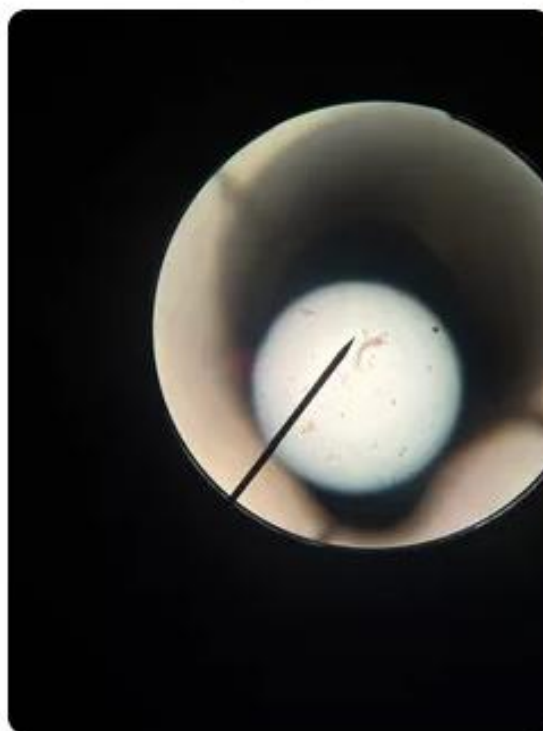
♡ 0

137703213 (NM)



♡ 0

140403164(NM)



My water sample had a tint of grey in the water, it also had bits of debris from dirt and leaves. There were no moquito's in my sample. (That's great!)

♡ 0

140803129 NM



140403137 (NM)



In my sample there was not anything. My water sample was clear. There were no mosquitos present. The sample contained silt and a few fibers I'm pretty sure. There is nothing in my sample but some silt and fibers. (Too zoomed out for us to analyze. Thanks for sharing!)

♡ 0

140403136 NM

3334 (NM)



I believe I found a diving beetle and some algae and some mud

Agent # 160803307 (NM)



150803180 YM



My water had smashed mosquito larvae and had a spider as well It also had a lot of dirt and leaves. My water was clear and had no

Agent # 160803307 (NM)

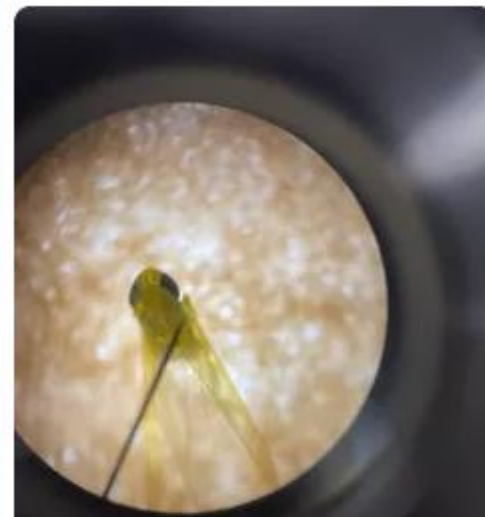


Jimenez-19 NM



Sample is cloudy. Contains fiber and an aphid (pictured). No mosquitoes found.

#201010155 NM

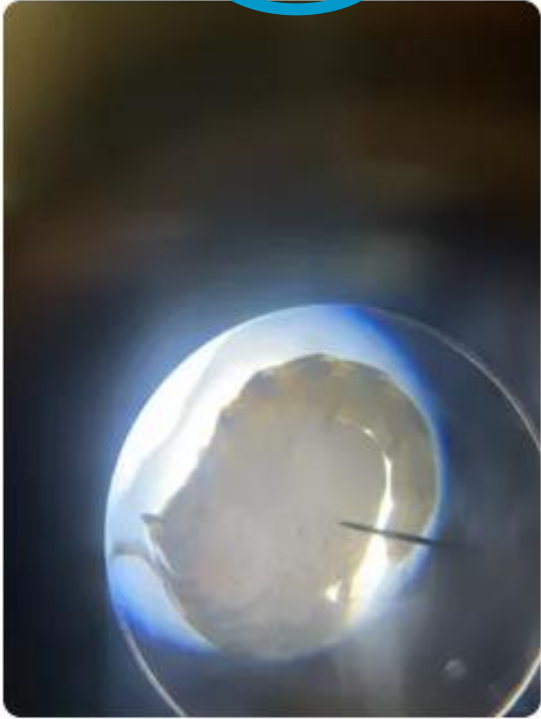


Jimenez-6 NM



Sample does not contain water. Contains a leaf hopper. No

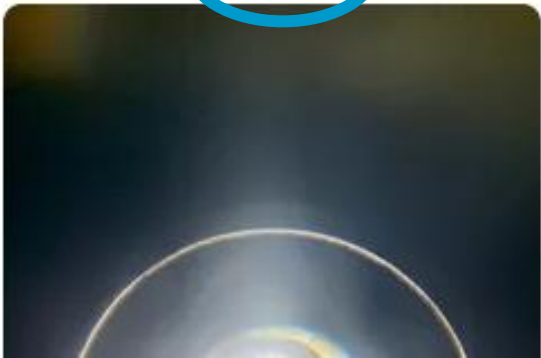
140303909 (YM)



(Mosquito Pupa)

♡ 0

140303909 YM?



♡ 0

140603104 YM



Really hairy and a long body. I'm guessing it's a mosquito larvae?

140803167 YM



Aedes Mosquitos were found in the larva state swimming around the water. The water was clear as well. (Yes, looks like a mosquito)

♡ 0

147703891 NM



140303894 NM



Mosquito assignment

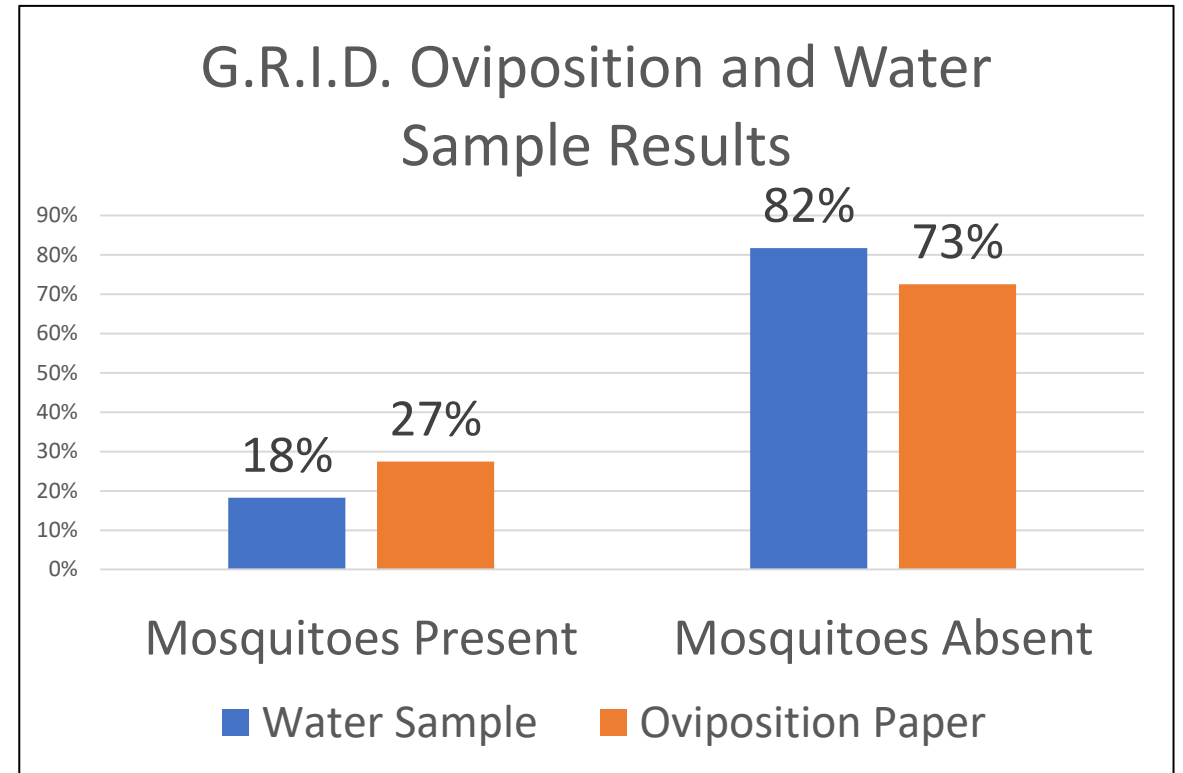
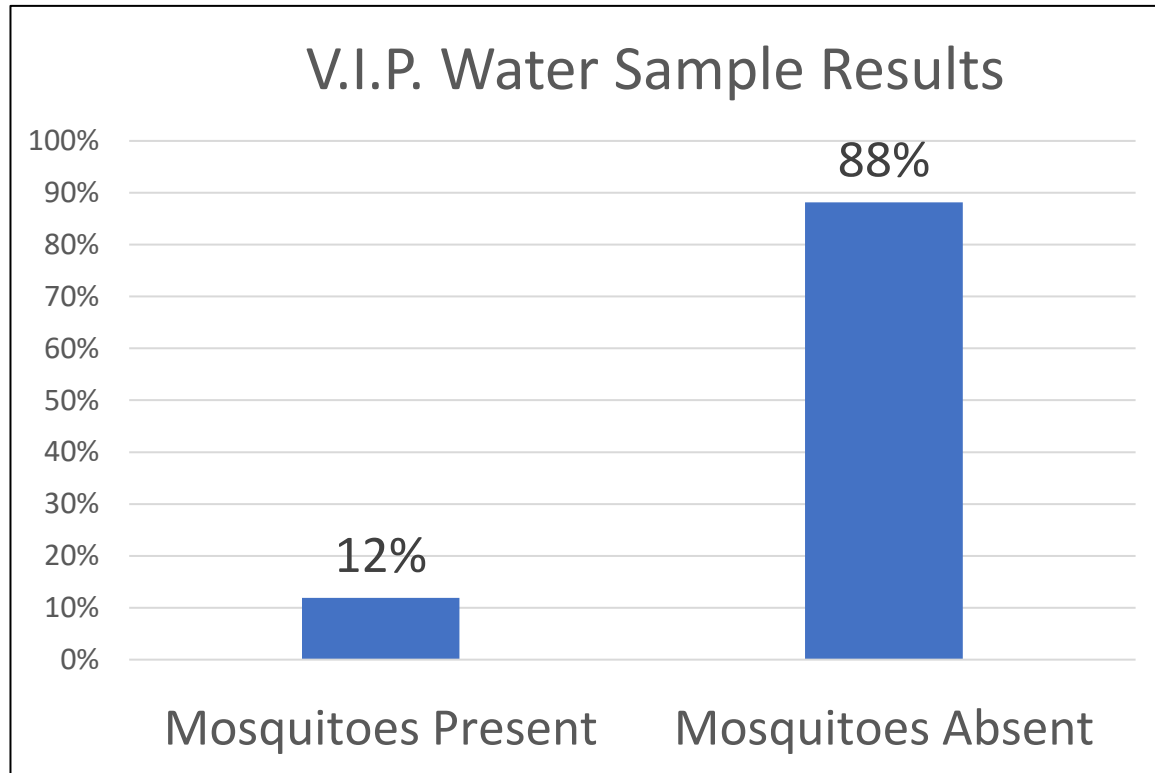
No mosquito's but it looks like a heart and their is a lot of dots and it looks like their is a little piece of hair in it. (Is this yours or 140 303 947?)

♡ 0

140303947 nm



How many students found mosquitoes?

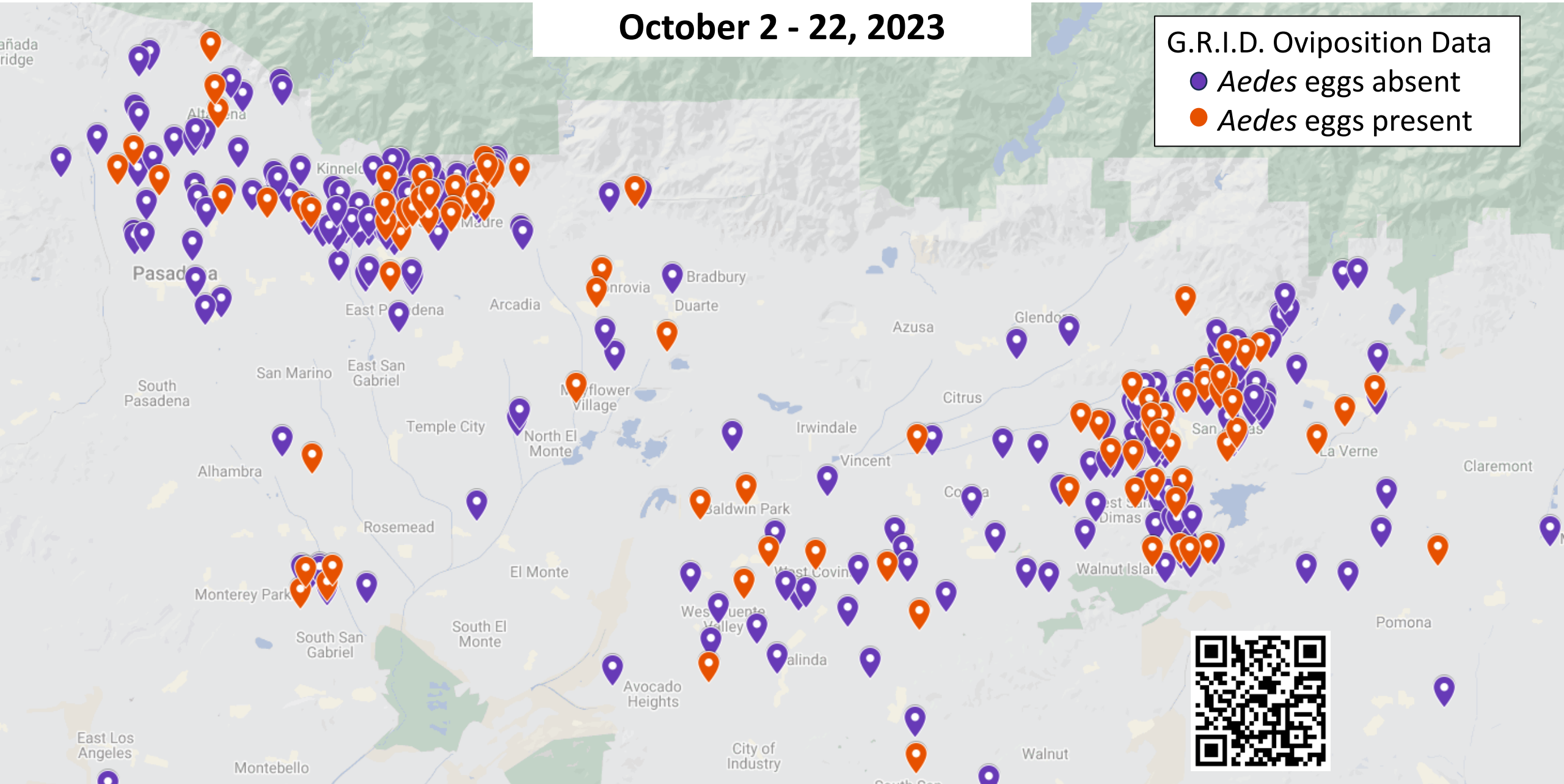


Oviposition Data Collection: October 2 - 22, 2023

G.R.I.D. Oviposition Data

● *Aedes* eggs absent

● *Aedes* eggs present



Impact- Teacher Feedback for 2023

“Kids loved... seeing the “gross” things up close.”

“This data is fascinating.”

“Not only did students get a good look at possible science careers, they also felt a sense of community as they worked to eliminate the threat of the *Aedes* mosquito in their community.”

“Omg. SOOO many more AEDES eggs this year! It was awesome AND awful!”





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Conclusion

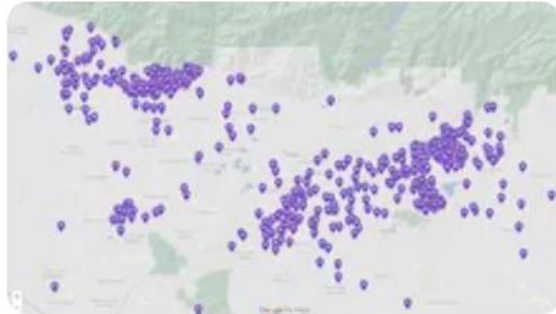
Increase access to meaningful, applicable science opportunities



Make science interesting and relatable



Mobilize community members to act



Support Operations & Surveillance





THANK YOU

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