Weekly Report on

JU-DNCC Mosquitoes Surveillance Program

Week 092 (February 20-24, 2026)

Submitted To

Chief Health officer
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Dhaka, Bangladesh

Submitted By

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Weekly Report on Mosquitoes Surveillance Program at DNCC

Methods:

In the DNCC (Dhaka North City Corporation) area, mosquito surveillance is conducted across 5 zones. Adult mosquito surveillance involves setting up three types of traps in each zone to capture adult mosquitoes. Simultaneously, larval surveillance entails surveying an area within a 0.5-kilometer radius around traps location to inspect and collect mosquitoes' larvae from potential breeding sites.

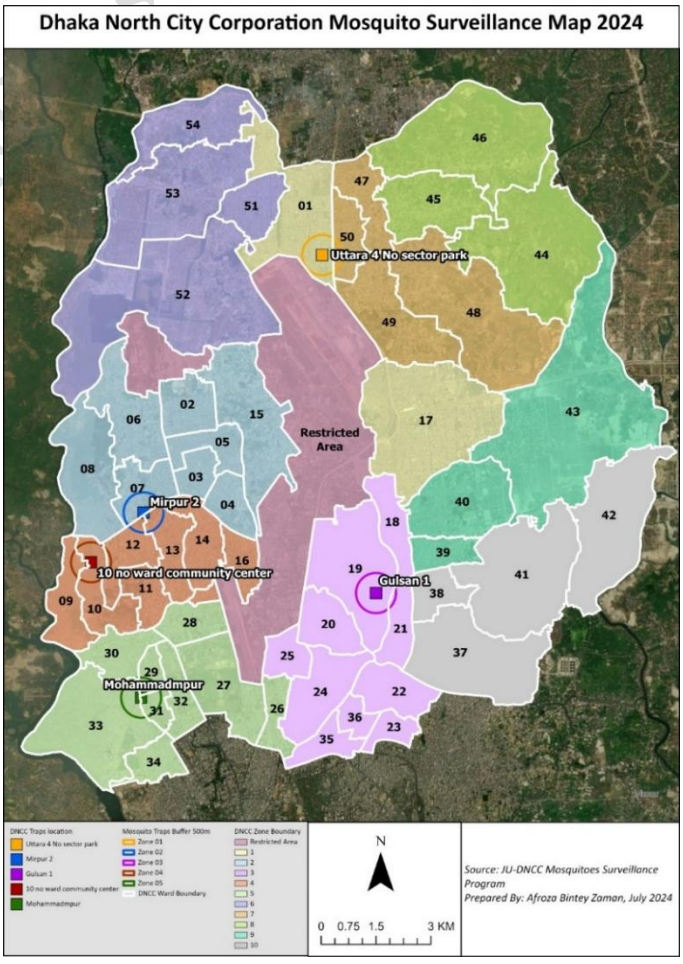
Zone	Traps Location	GPS Location
01	Uttara-4 No sector park	23.8613672,90.4035528
02	Mirpur-2, Vander office, DNCC	23.8036248,90.3601995
03	Gulsan 1, Purantan Vander office	23.7860557,90.4164024
04	10 No ward community center, Mirpur-1	23.7922967,90.3467992
05	Mohammadpur regional office of DNCC	23.7618721,90.3590884

For the Adult mosquito collection

1. Light trap
2. Gravid trap

For the mosquito larvae collection

1. Aedes X smart trap
2. Directly collection larvae from field.



Results:

Table 1. Collected Adult Mosquitoes from Moshar Machine (CO_2) traps in Week 92 (February 20-24, 2026)

Zone	N	*Ae. aegypti*	*Ae. Albopictus*	*Cx. quinquefasciatus*	*Cx. tritaeniorhynchus*	*Ar. subalbatus*	*An. subpictus*	*An. philippinensis*
1	8543	4	0	6401	2133	4	1	0
2	11524	2	1	8734	2322	463	0	2
3	9605	3	0	7631	1908	63	0	0
4	4774	0	0	3816	954	1	0	3
5	2922	3	0	2336	519	63	0	1
Total	37368	12	1	28918	7836	594	1	6
%	100.00	0.03	0.00	77.39	20.97	1.59	0.00	0.02

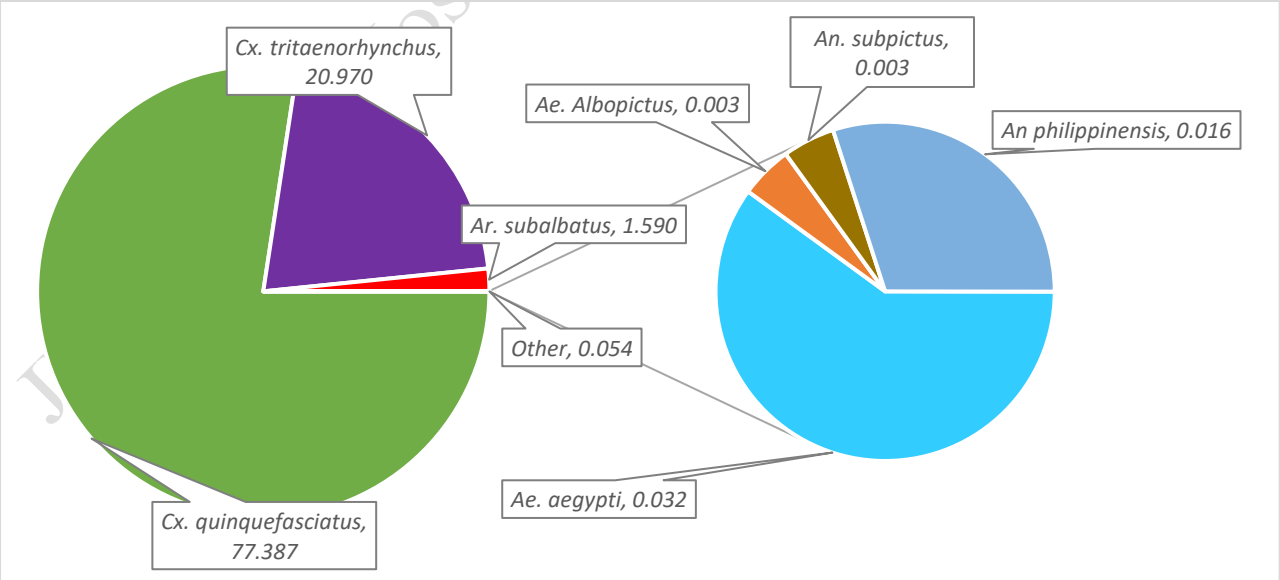


Fig. 1: Percentage of Adult Mosquitoes Collected by Moshar Machine (CO_2) traps in Week 92 (February 20-24, 2026)

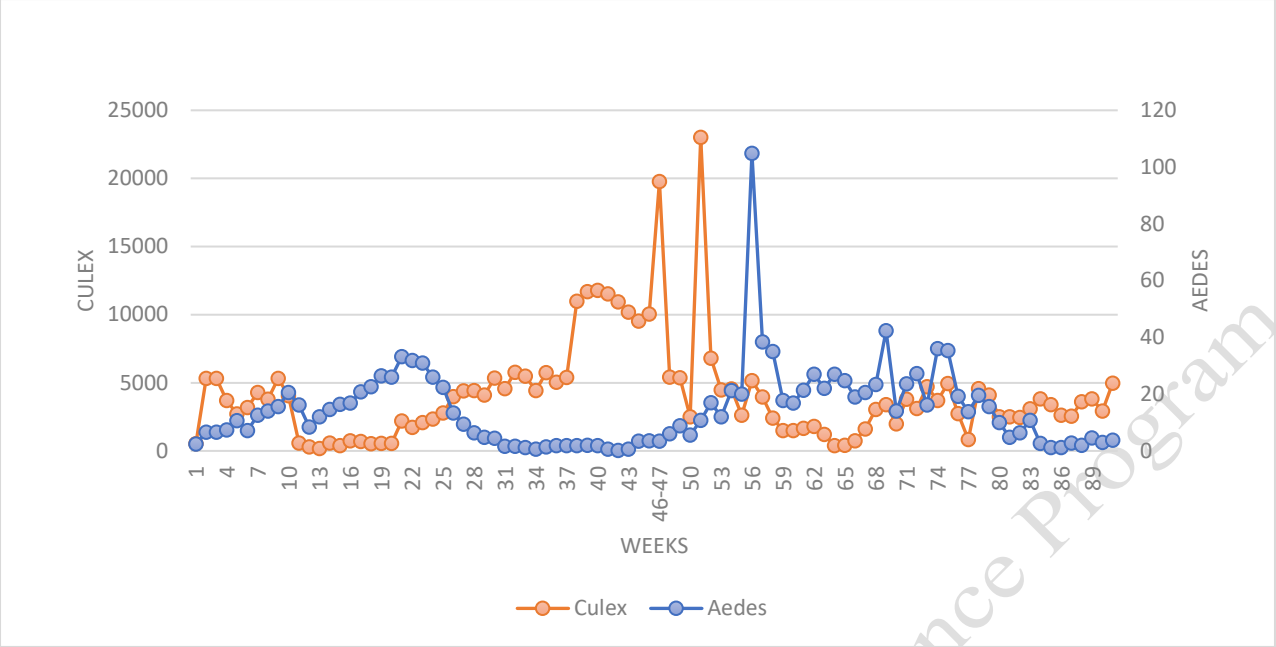


Fig 2: Average number of mosquitoes per Moshar Machine (CO_2) traps from Week 1 to Week 92 (May 2, 2024 - February 24, 2026)

Table 2. Collected Mosquito Larvae from *Aedes* X smart Traps in Week 92 (February 20-24, 2026)

Zone	N	*Ae. aegypti*	*Ae. albopictus*
1	0	0	0
2	0	0	0
3	0	0	0
4	0	0	0
5	29	29	0
Total	29	29	0
(%)	100	100.00	0.00

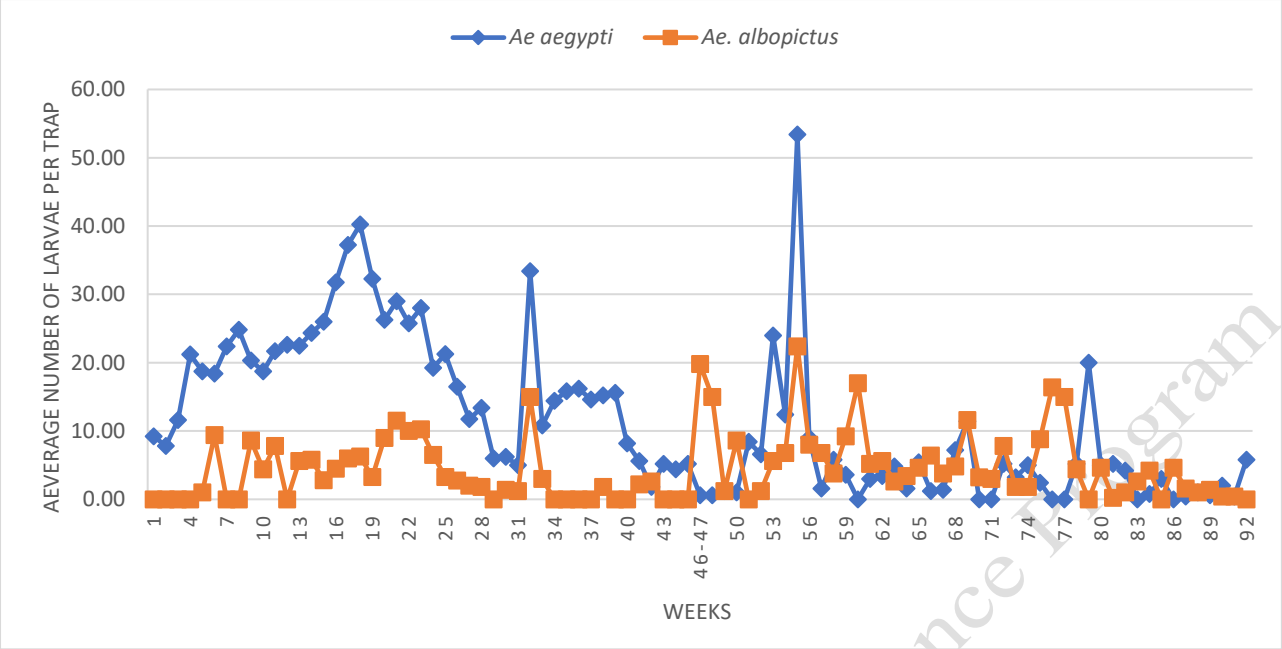


Fig 3: Average Number of *Aedes* Larvae per *Aedes* X Smart Trap in Zones 1-5 from Week 1 to Week 92 (May 2, 2024 - February 24, 2026)

Table 3. Collected Adult Mosquitoes from Gravid Trap in Week 92 (February 20-24, 2026)

Zone	Number of Mosquitoes	*Ae. aegypti*	*Ae. albopictus*	*Cx. quinquefasciatus*
1	1	1	0	0
2	0	0	0	0
3	1	0	1	0
4	0	0	0	0
5	2	0	0	2
Total	4	1	1	2
(%)	100	25.00	25.00	50.00

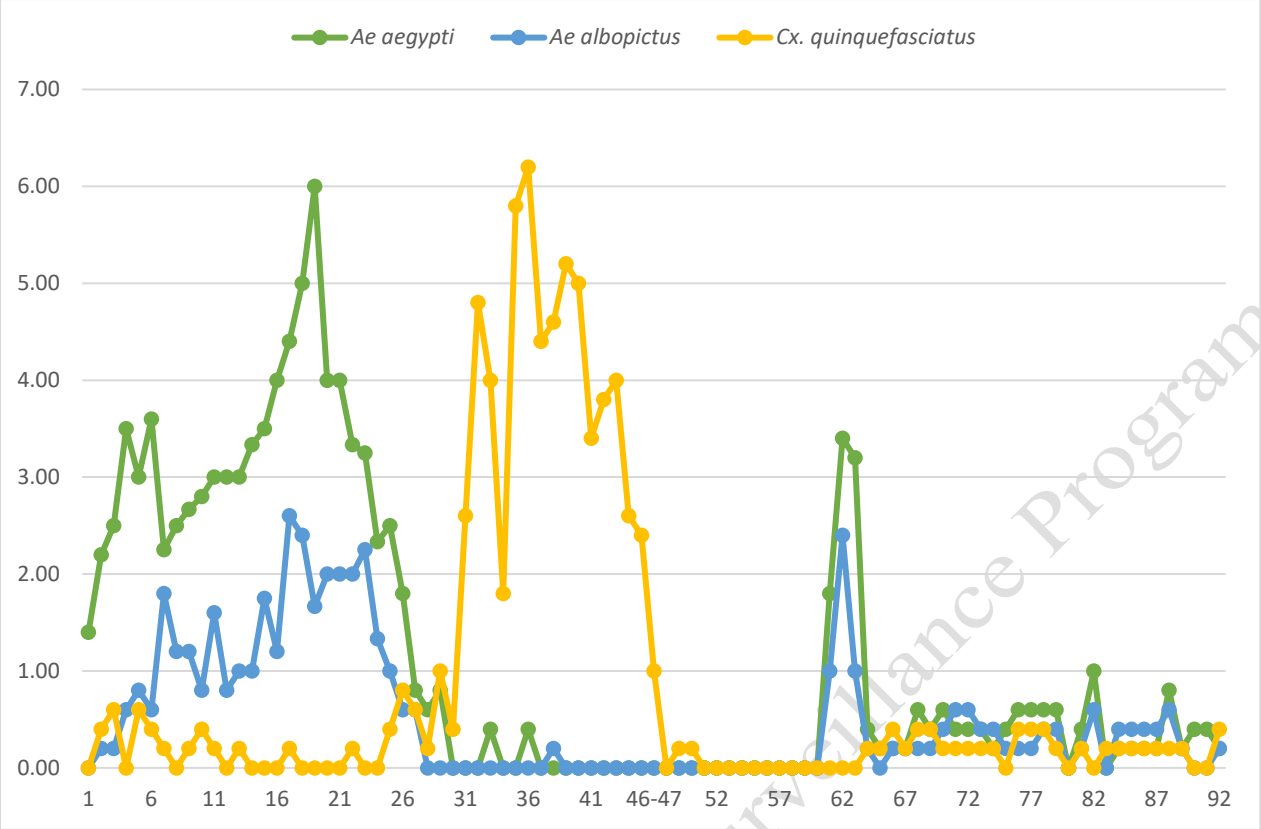


Fig 4: Average number of adult mosquitoes per Gravid trap in zones 1-5 from Week 1 to Week 92 (May 2, 2024 - February 24, 2026)

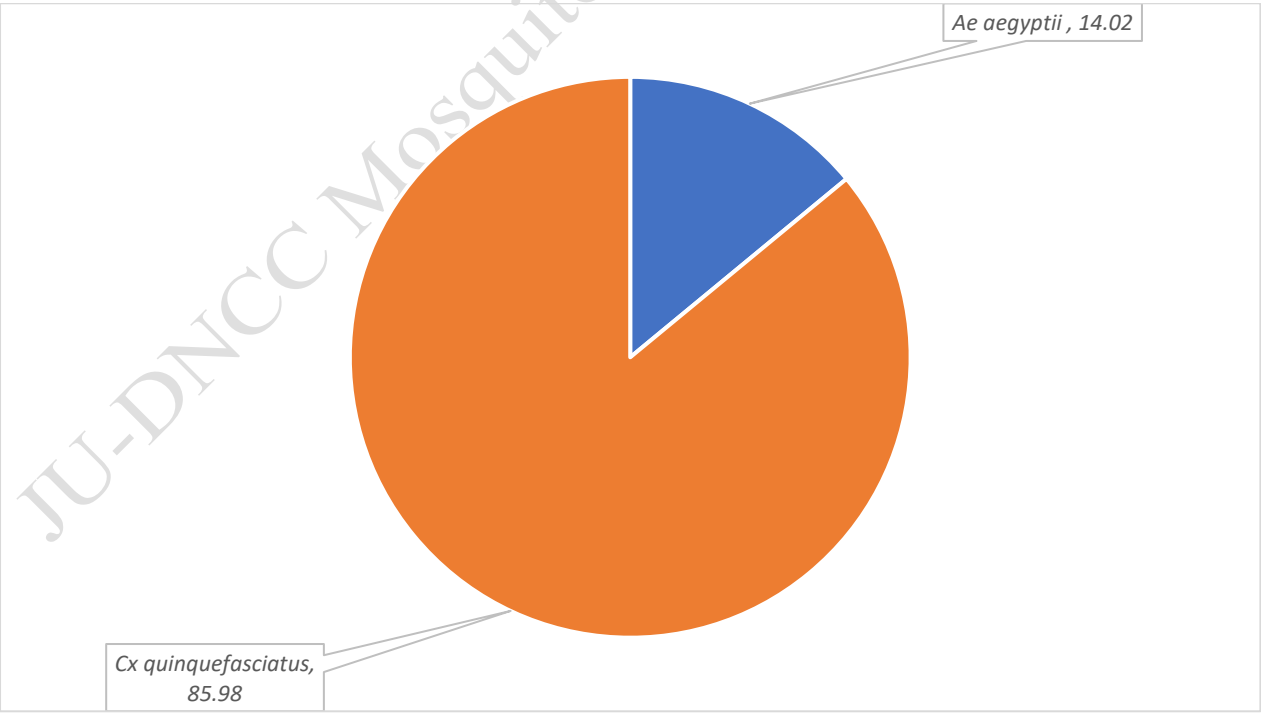
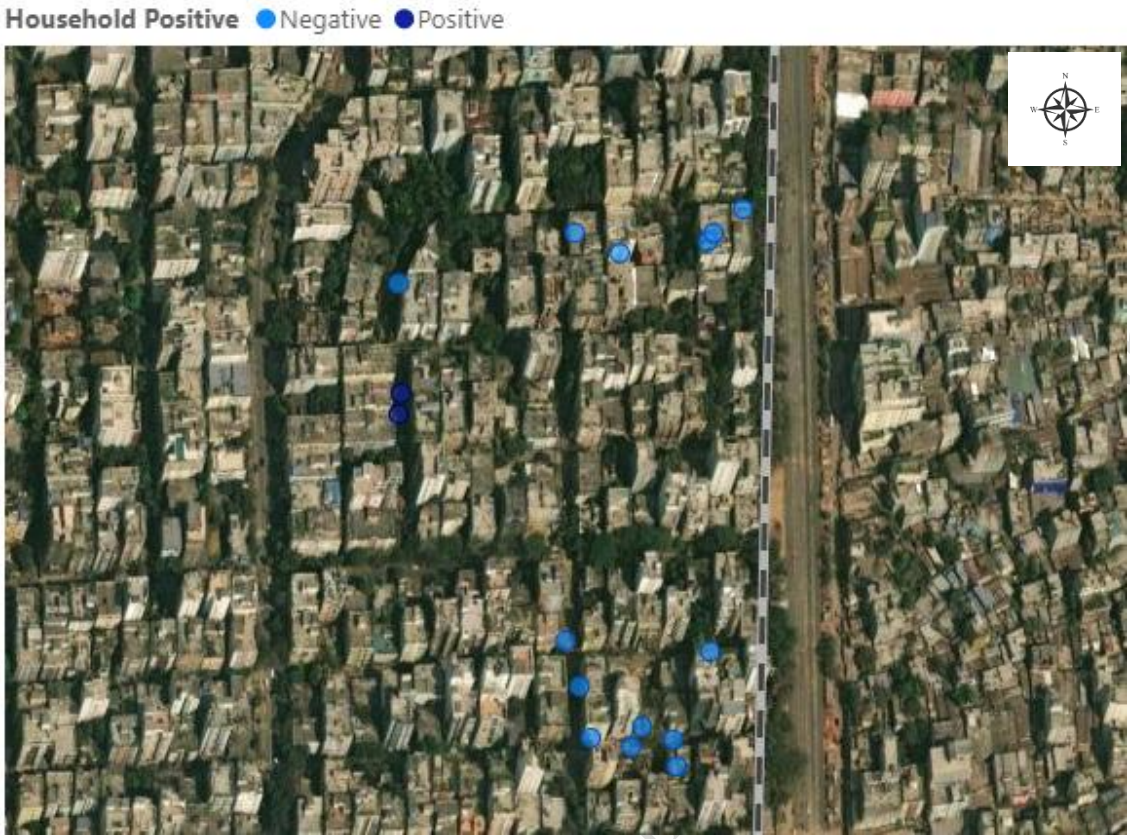


Fig. 5: Percentage of Mosquito Larvae from Zones (1-5) in Week 92 (February 20-24, 2026)

Table 4. Positive Larval Spots in Different Zones (1-5) with Estimated Number of Larvae in Week 92 (February 20-24, 2026)

5Zone	GPS Location	*Ae. aegypti*	*Ae. albopictus*	*Cx. quinquefasciatus*	*Ar. subalbatus*	*Source*
1	23.8663557 90.4057374	0	0	5288	0	Drain
	23.8654293 90.4038546	0	0	5889	0	Drain
	23.8653249 90.4038407	0	0	5684	0	Drain
	Sub Total	0	0	16861	0	
2	23.8039941 90.3532309	52	0	0	0	Basement/Parking Other
	Sub Total	52	0	0	0	
4	23.7911853 90.3450283	52	0	0	0	Plastic drum (Sealable) Water tank(Cement)
	23.7909488 90.3466398	53	0	0	0	Plastic drum (Sealable)
	23.7904547 90.3464619	21	0	0	0	Hole of water meter
	Sub Total	126	0	0	0	
5	23.7612277 90.3542737	2548	0	0	0	Pit
	23.7613536 90.3541815	24	0	0	0	Hole of water meter
	Sub Total	2572	0	0	0	
Grand Total		2750	0	16861	0	

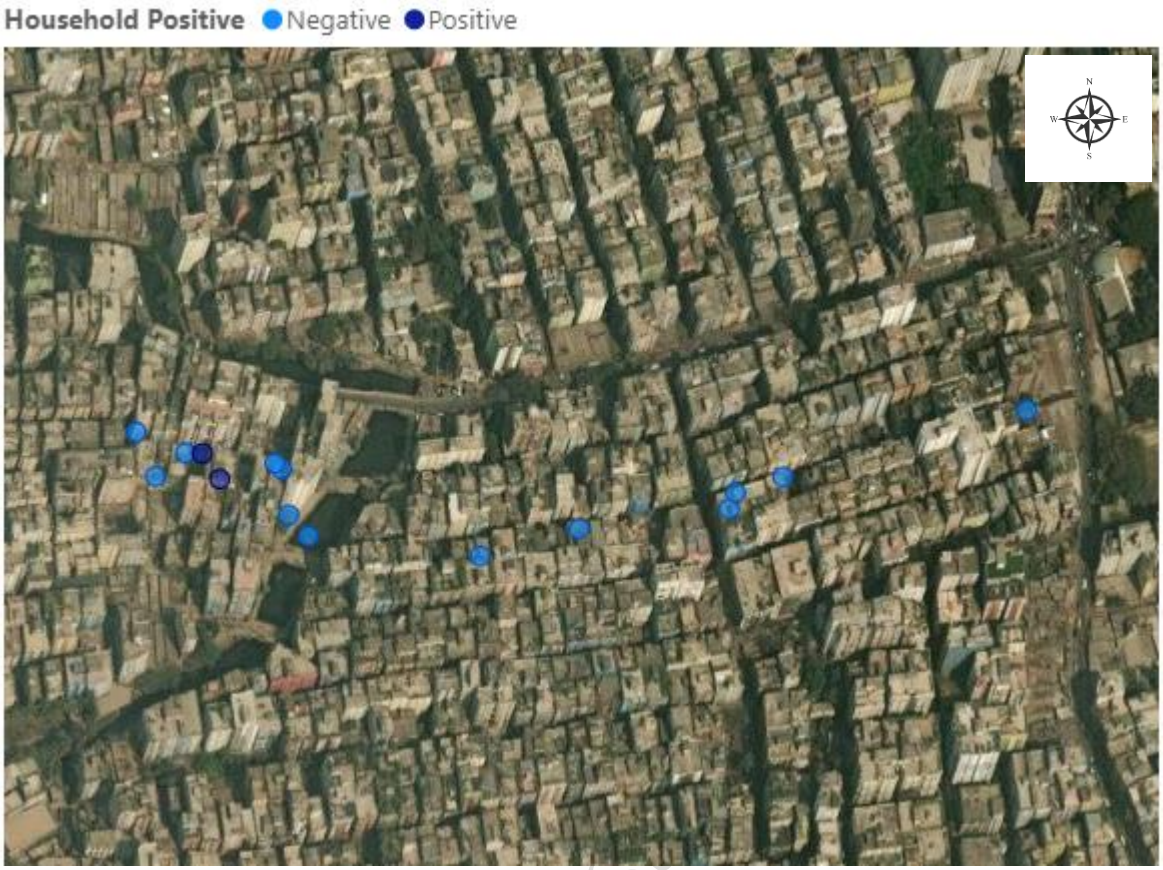


Map 1: Positive and Negative House of Uttara 4 No. Sector at Weeks 92

Map 2: Positive and Negative House of Mirpur 2 at Weeks 92

Map 3: Positive and Negative House of Gulsan 1 at Weeks 92

Map 4: Positive and Negative House of Mirpur 1 at Weeks 92



Map 5: Positive and Negative House of Mohammadpur at Weeks 92

Table 5: Positive House, Wet Container, BI, CI and HI in Zones (1-5) in Week 92 (February 20-24, 2026)

Zone	Total House	Positive House	Total Wet container	Positive Wet Container	BI	CI	HI
1	15	3	31	4	26.67	12.90	20.00
2	15	2	37	3	20.00	8.11	13.33
3	15	1	22	1	6.67	4.55	6.67
4	15	3	29	3	20.00	10.34	20.00
5	15	2	23	3	20.00	13.04	13.33

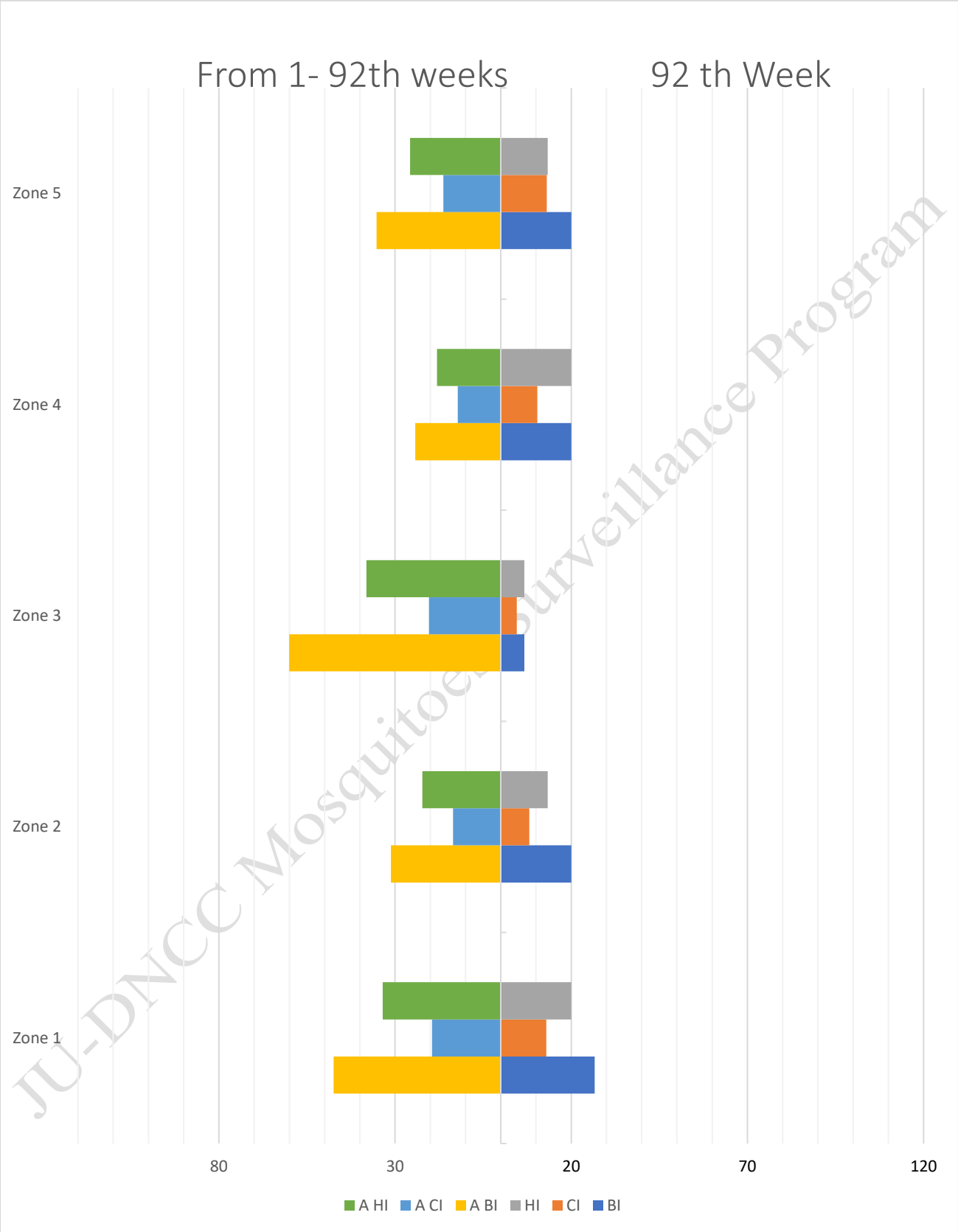


Fig. 6: BI, CI and HI in Different Zones (1-5) of Dhaka north City Corporation

***NB: "A" stands for Average from 1st week.**

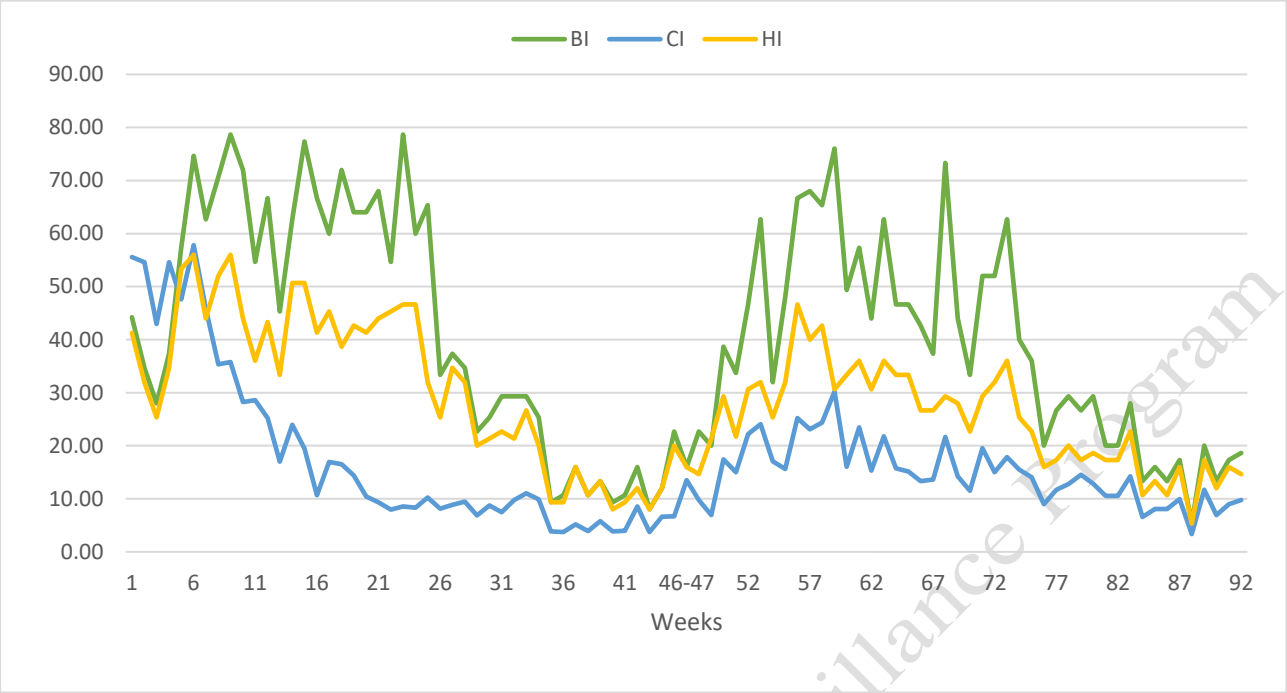


Fig 7: Mosquitoes population fluctuation (BI, CI, HI) from Week 1 to Week 92 (May 2, 2024 - February 24, 2026)

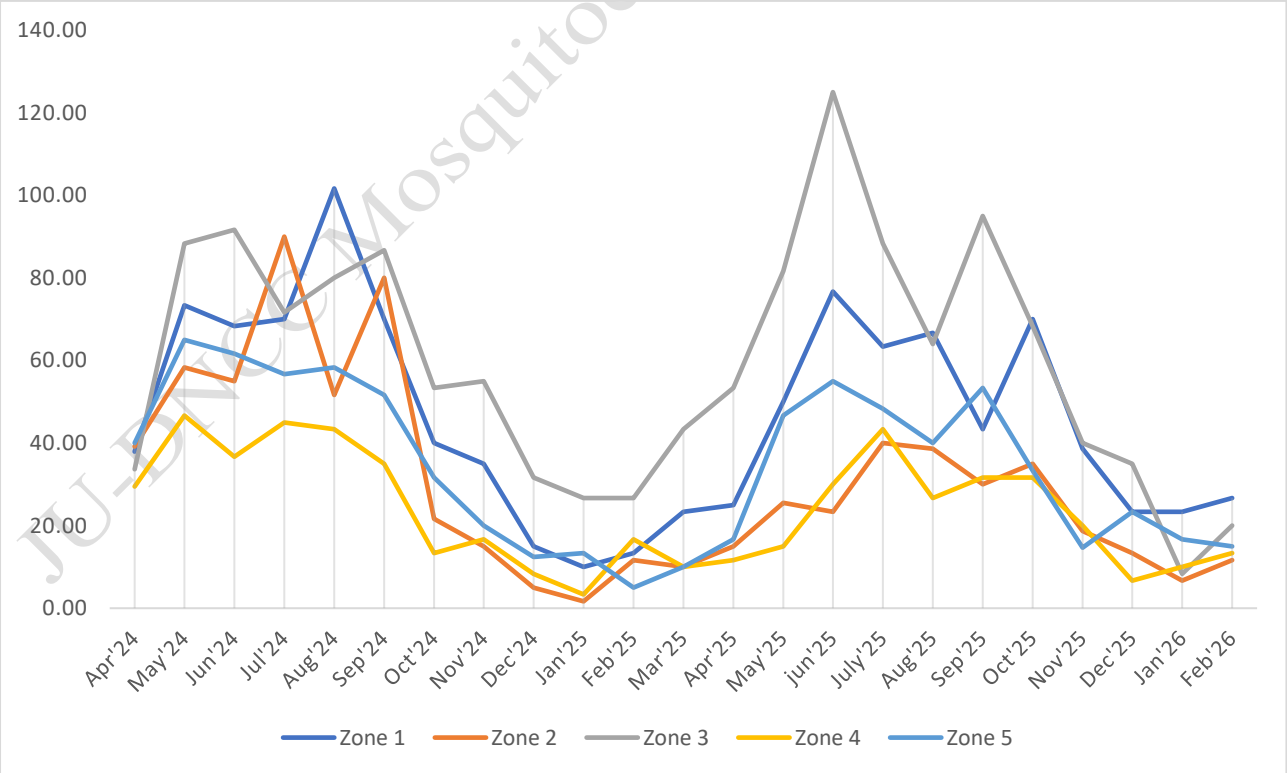


Fig. 8: Breteau Index (BI) in Different Zones from Week 1 to Week 92 (May 2, 2024 - February 24, 2026)

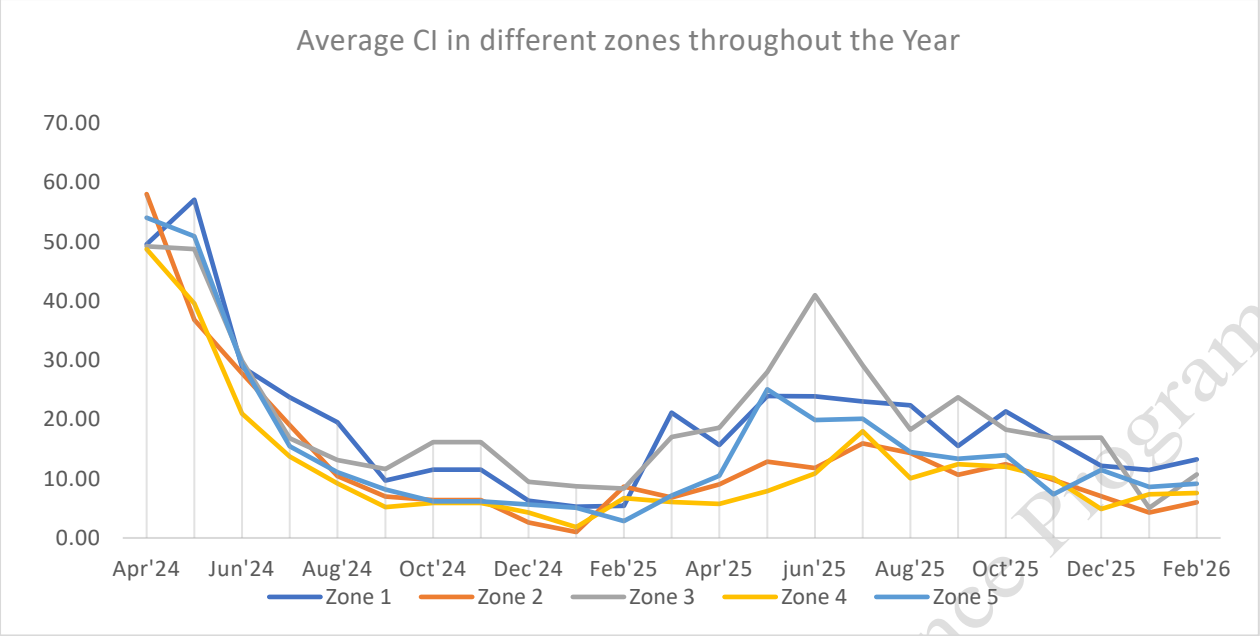


Fig. 9: Container Index (CI) in Different Zones from Week 1 to Week 92 (May 2, 2024 - February 24, 2026)

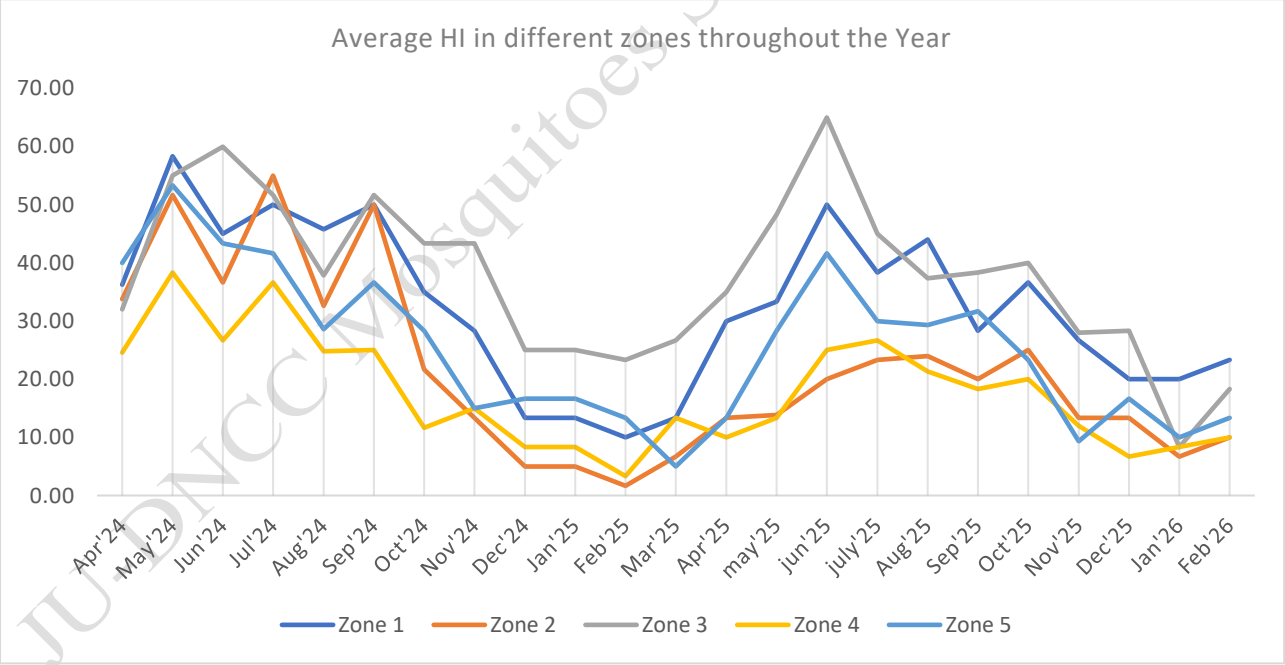


Fig. 10: House Index (HI) in Different Zones from Week 1 to Week 92 (May 2, 2024 - February 24, 2026)

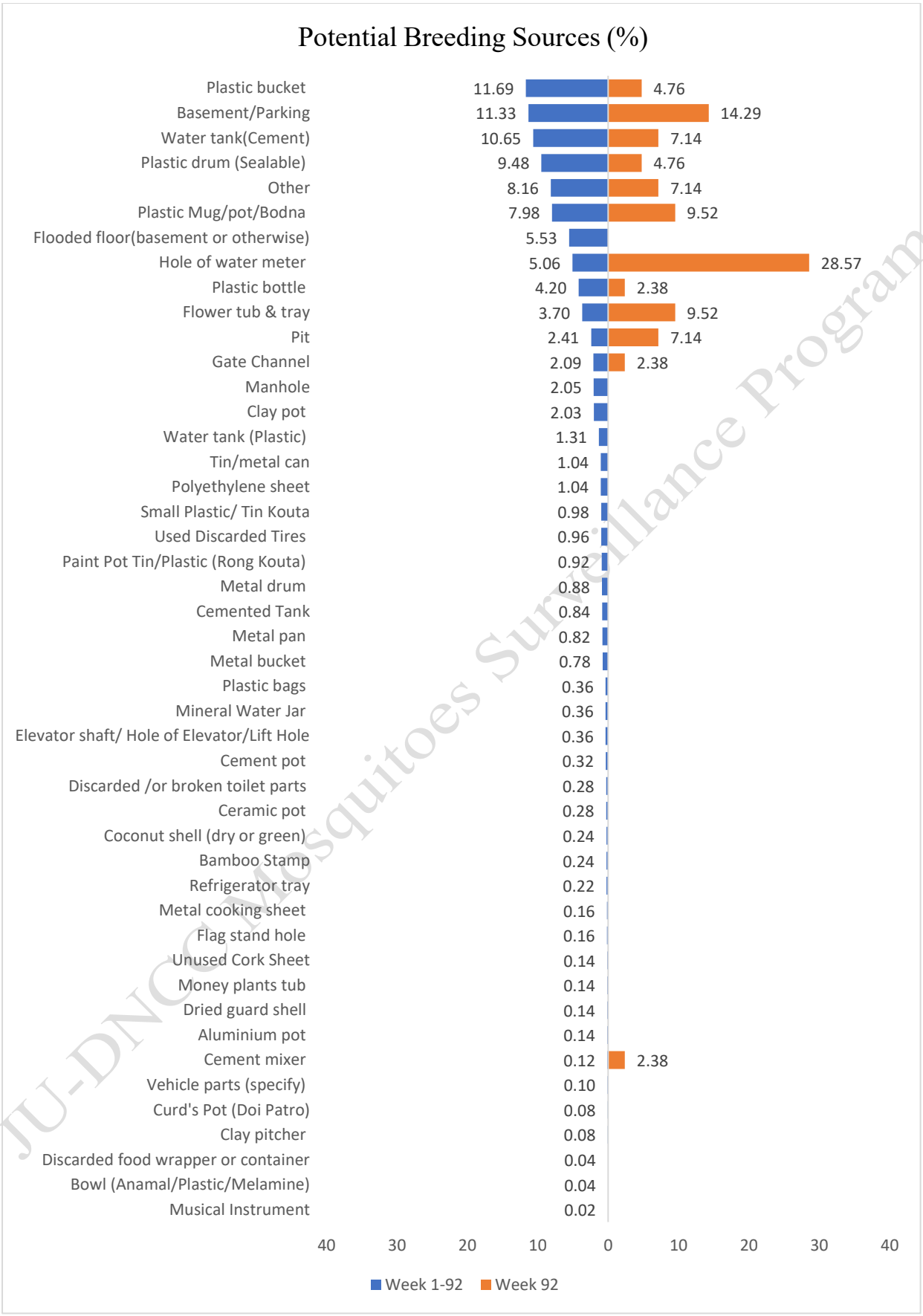


Fig. 11: Container Frequency for *Aedes* mosquitoes in Zones (1-5)

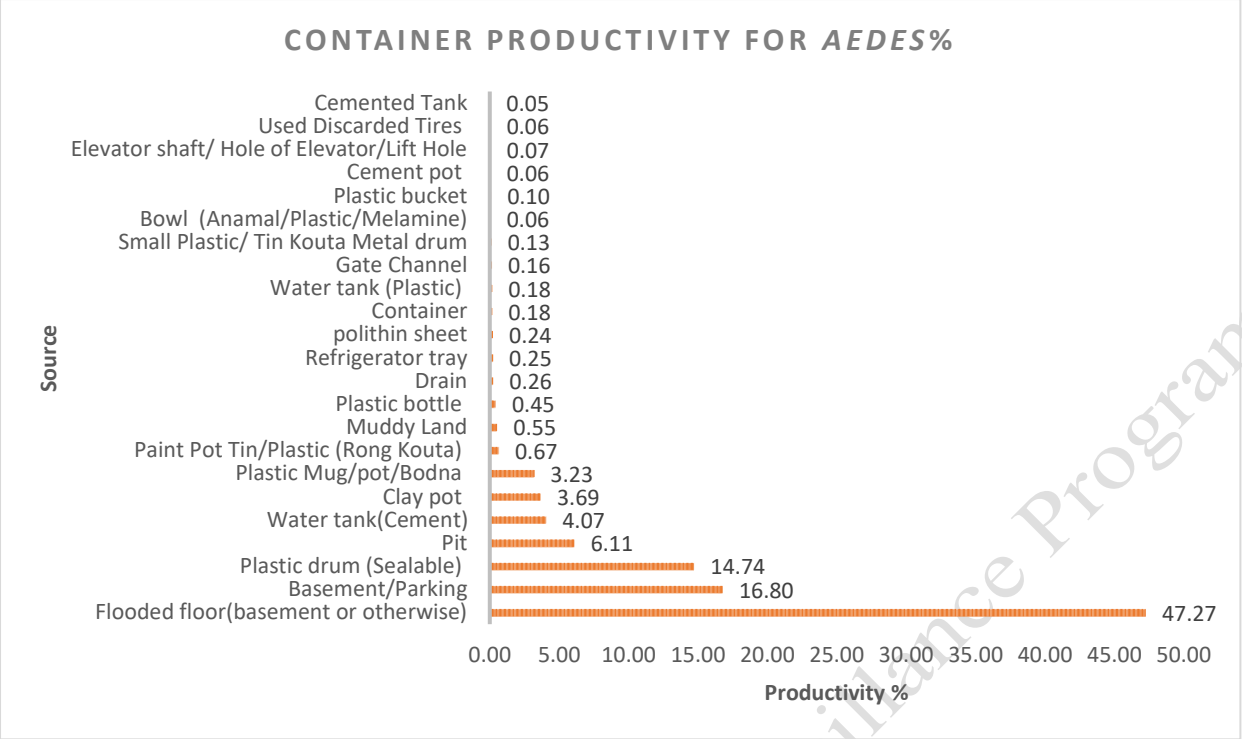


Fig. 12: Container Productivity of *Aedes* mosquito in DNCC from Week 1 to Week 92 (May 2, 2024 - February 24, 2026)

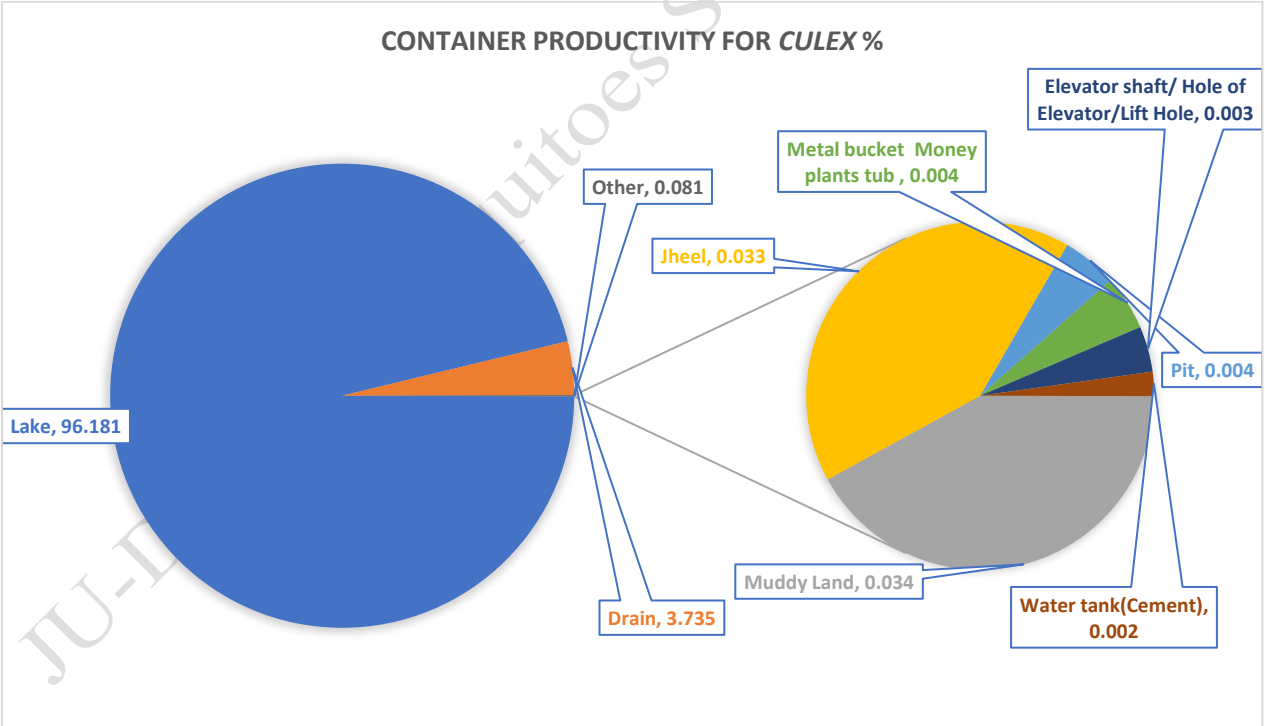


Fig. 13: Container Productivity of *Culex* mosquito in DNCC, from Week 1 to Week 92 (May 2, 2024 - February 24, 2026)

Table 6: Container Frequency & Probable potential Wet Container in zones (1-5) from Week 1 to Week 92 (May 2, 2024 - February 24, 2026)

Sources	+House	-WC	+WC	**Total WC**	% WC	% PWC
Plastic bucket	194	261	321	582	11.69	6.45
Basement/Parking	207	41	523	564	11.33	10.51
Water tank(Cement)	164	252	278	530	10.65	5.59
Plastic drum (Sealable)	226	78	394	472	9.48	7.92
Other	196	128	278	406	8.16	5.59
Plastic Mug/pot/Bodna	164	82	315	397	7.98	6.33
Flooded floor(basement or otherwise)	128	138	137	275	5.53	2.75
Hole of water meter	51	5	247	252	5.06	4.96
Plastic bottle	79	63	146	209	4.20	2.93
Flower tub & tray	65	25	159	184	3.70	3.19
Pit	61	22	98	120	2.41	1.97
Gate Channel	31	33	71	104	2.09	1.43
Manhole	55	29	73	102	2.05	1.47
Clay pot	83	11	90	101	2.03	1.81
Water tank (Plastic)	20	28	37	65	1.31	0.74
Polyethylene sheet	33	3	49	52	1.04	0.98
Tin/metal can	30	0	52	52	1.04	1.04
Small Plastic/ Tin Kouta	24	9	40	49	0.98	0.80
Used Discarded Tires	28	16	32	48	0.96	0.64
Paint Pot Tin/Plastic (Rong Kouta)	30	5	41	46	0.92	0.82
Metal drum	17	7	37	44	0.88	0.74
Cemented Tank	22	13	29	42	0.84	0.58
Metal pan	17	3	38	41	0.82	0.76
Metal bucket	20	5	34	39	0.78	0.68
Elevator shaft/ Hole of Elevator/Lift Hole	7	4	14	18	0.36	0.28
Mineral Water Jar	6	4	14	18	0.36	0.28
Plastic bags	8	1	17	18	0.36	0.34
Cement pot	11	1	15	16	0.32	0.30
Ceramic pot	13	0	14	14	0.28	0.28
Discarded /or broken toilet parts	11	2	12	14	0.28	0.24
Bamboo Stamp	9	0	12	12	0.24	0.24
Coconut shell (dry or green)	4	0	12	12	0.24	0.24
Refrigerator tray	8	0	11	11	0.22	0.22
Flag stand hole	4	1	7	8	0.16	0.14
Metal cooking sheet	2	0	8	8	0.16	0.16
Aluminium pot	4	0	7	7	0.14	0.14
Dried guard shell	4	0	7	7	0.14	0.14
Money plants tub	5	0	7	7	0.14	0.14
Unused Cork Sheet	5	1	6	7	0.14	0.12
Cement mixer	2	0	6	6	0.12	0.12
Vehicle parts (specify)	3	1	4	5	0.10	0.08
Clay pitcher	3	1	3	4	0.08	0.06
Curd's Pot (Doi Patro)	3	0	4	4	0.08	0.08
Bowl (Anamal/Plastic/Melamine)	2	0	2	2	0.04	0.04
Discarded food wrapper or container	1	0	2	2	0.04	0.04
Musical Instrument	1	0	1	1	0.02	0.02

Table 7: Percentage of breeding sources in different zone from Week 1 to Week 92 (May 2, 2024 - February 24, 2026)

Containers	Percentage of Breeding Sources				
	Zone 01	Zone 02	Zone 03	Zone 04	Zone 05
Plastic bucket	2.03	2.07	2.29	2.91	2.39
Basement/Parking	2.83	1.69	2.93	1.15	2.73
Water tank(Cement)	1.37	1.73	1.43	3.13	2.99
Plastic drum (Sealable)	1.41	2.25	1.65	2.21	1.97
Other	2.65	1.39	2.19	0.74	1.19
Plastic Mug/pot/Bodna	1.47	1.41	1.55	2.25	1.31
Flooded floor(basement or otherwise)	1.43	1.23	0.92	0.60	1.35
Hole of water meter	0.66	0.98	0.24	1.55	1.63
Plastic bottle	0.54	0.98	0.60	1.11	0.96
Flower tub & tray	1.11	0.62	1.21	0.46	0.30
Pit	0.64	0.30	0.80	0.32	0.34
Gate Channel	0.76	0.20	0.62	0.08	0.42
Manhole	0.84	0.24	0.64	0.22	0.10
Clay pot	0.24	0.42	0.62	0.24	0.50
Water tank (Plastic)	0.00	0.82	0.18	0.16	0.14
Polyethylene sheet	0.30	0.28	0.20	0.18	0.08
Tin/metal can	0.30	0.28	0.20	0.20	0.06
Small Plastic/ Tin Kouta	0.26	0.18	0.28	0.12	0.14
Used Discarded Tires	0.36	0.26	0.18	0.08	0.08
Paint Pot Tin/Plastic (Rong Kouta)	0.22	0.10	0.28	0.20	0.12
Metal drum	0.16	0.10	0.22	0.30	0.10
Cemented Tank	0.16	0.12	0.20	0.24	0.12
Metal pan	0.18	0.14	0.26	0.10	0.14
Metal bucket	0.12	0.08	0.24	0.18	0.16
Elevator shaft/ Hole of Elevator/Lift Hole	0.14	0.08	0.08	0.00	0.06
Mineral Water Jar	0.04	0.02	0.06	0.16	0.08
Plastic bags	0.04	0.02	0.08	0.12	0.10
Cement pot	0.04	0.00	0.12	0.02	0.14
Ceramic pot	0.06	0.02	0.06	0.02	0.12
Discarded /or broken toilet parts	0.02	0.14	0.04	0.00	0.08
Bamboo Stamp	0.06	0.08	0.04	0.06	0.00
Coconut shell (dry or green)	0.06	0.04	0.06	0.04	0.04
Refrigerator tray	0.08	0.02	0.06	0.04	0.02
Flag stand hole	0.08	0.02	0.02	0.00	0.04
Metal cooking sheet	0.00	0.02	0.06	0.04	0.04
Aluminium pot	0.02	0.04	0.00	0.06	0.02
Dried guard shell	0.04	0.00	0.08	0.00	0.02
Money plants tub	0.06	0.04	0.04	0.00	0.00
Unused Cork Sheet	0.00	0.02	0.04	0.02	0.06
Cement mixer	0.00	0.04	0.04	0.02	0.02
Vehicle parts (specify)	0.02	0.00	0.06	0.02	0.00
Clay pitcher	0.04	0.00	0.02	0.02	0.00
Curd's Pot (Doi Patro)	0.02	0.02	0.04	0.00	0.00
Bowl (Anamal/Plastic/Melamine)	0.02	0.02	0.00	0.00	0.00
Discarded food wrapper or container	0.00	0.00	0.04	0.00	0.00
Musical Instrument	0.02	0.00	0.00	0.00	0.00

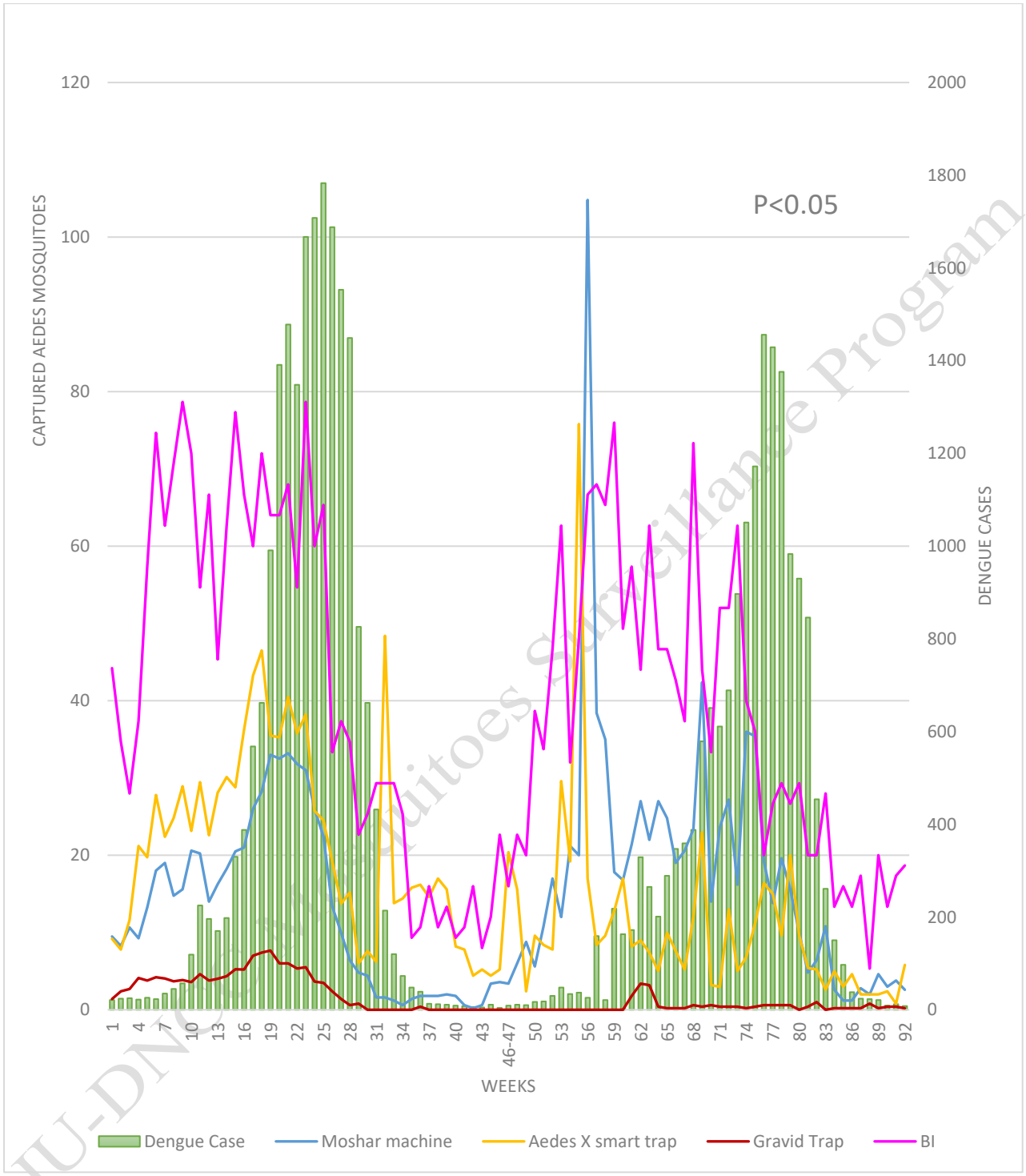


Fig. 14: Correlation between Dengue Cases and *Aedes* Mosquitoes Captured by per Moshar Machine CO_2 traps, Aedes X smart traps, and Gravid traps

NB: DNCC dengue cases only

Photographs of Mosquitoes Surveillance



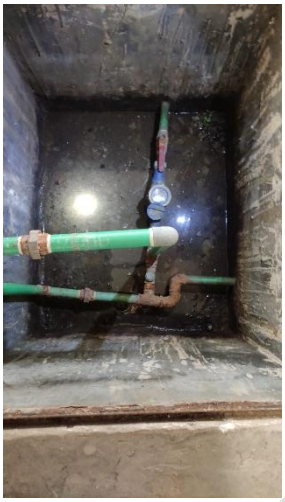






Samples Collection from Field

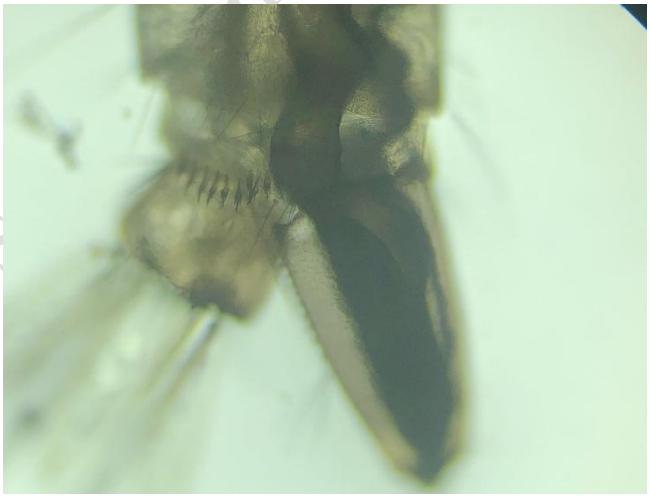








Samples Processing and Identification



Comments:

Overall mosquito density is rising but the dengue cases now declining rapidly. However, the Breteau Index (BI) is has gone Higher. It is high time for taking precaution and preparation for future. Moreover, this highlights the importance of continued surveillance to uncover hidden risks and to guide timely interventions.

For Aedes Mosquito Control

 Aedes mosquito density varies across locations, with notable breeding found in plastic drums, buckets, flooded basements, and water tanks, as seen in larval and trap data.

 Continuous surveillance is essential to monitor trends and target control interventions effectively.

 Frequent cleaning and management of water-holding containers (e.g., pots, bottles, plastic drums, and construction site debris) are vital.

 Permanent breeding habitats should be managed with larvicides or Insect Growth Regulators (IGRs) for sustained control.

 Construction sites must be regularly inspected and treated due to their high potential for breeding.

For Other Mosquito Control

 Drainage systems should be kept flowing to prevent stagnant water accumulation.

 Canals, ponds, lakes, and muddy lowlands should be cleaned of waste, weeds, and organic matter.

 Septic tanks must be covered and regularly maintained.

 Emphasis should be placed on slum areas and waterlogged urban zones, which are significant breeding grounds for Culex mosquitoes.

Public Awareness and Community Involvement

 Launch targeted awareness campaigns, especially in vulnerable and high-risk areas.

 Encourage communities to eliminate standing water regularly.

 Promote participatory surveillance and control efforts, including homeowner engagement in larval source reduction.

Copy sent for your information and further action (FYI/FA):

1. CHO, Health Department, Dhaka North City Corporation
2. Secretary, Dhaka North City Corporation
3. PS to Administrator, Dhaka North City Corporation
4. Staff Officer of CEO, Dhaka North City Corporation
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