Examination of Estimates of Expenditure 2025-26 Reply Serial No.

EEB(F)124

CONTROLLING OFFICER'S REPLY

(Question Serial No. 1343)

Head: (49) Food and Environmental Hygiene Department

Subhead (No. & title): (-) Not specified

Programme: (2) Environmental Hygiene and Related Services

Controlling Officer: Director of Food and Environmental Hygiene (Donald NG)

Director of Bureau: Secretary for Environment and Ecology

Question:

As regards mosquito control, please advise this Committee of:

1. the number of mosquito complaints received by the Food and Environmental Hygiene Department in each of the past 3 years, with a breakdown by District Council district;
2. the technological applications employed by the Department for enhancing mosquito control in each of the past 3 years, with a breakdown of expenditure by application; and
3. the number of the existing large ultra-low volume foggers and the number of fogging operations conducted by the Department to kill adult mosquitoes in the past year, with a breakdown by District Council district.

Asked by: Hon YANG Wing-kit (LegCo internal reference no.: 21)

Reply:

1. The number of mosquito complaints received by the Food and Environmental Hygiene Department in each of the past 3 years (2022 to 2024), with a breakdown by District Council district, is provided in **Annex 1**.

2. The information on the technological applications employed by the Department for enhancing mosquito control in the past 3 years (2022 to 2024), with a breakdown of expenditure by application, is provided in **Annex 2**.

3. There are currently 18 large ultra-low volume (ULV) foggers available for use in all districts. The number of fogging operations conducted by the Department to kill adult mosquitoes in the past year, with a breakdown by District Council district, is provided in **Annex 3**.

Annex 1

Number of mosquito complaints received by the Department

District	2022	2023	2024
Central and Western	231	278	275
Wan Chai	233	116	83
Eastern	236	280	314
Southern	103	142	145
Islands	269	202	181
Yau Tsim Mong	235	236	295
Sham Shui Po	153	101	94
Kowloon City	108	117	91
Wong Tai Sin	64	83	110
Kwun Tong	132	137	193
Kwai Tsing	412	359	36
Tsuen Wan	191	174	230
Tuen Mun	263	340	359
Yuen Long	867	1 042	824
North	248	323	319
Tai Po	396	400	497
Sha Tin	288	340	317
Sai Kung	391	453	440
Whole territory	4 820	5 123	4 803

Annex 2

Technological applications for mosquito control and the expenditures incurred

Technological application for mosquito control	Effectiveness	Expenditure		
		2022	2023	2024
New mosquito trapping device	The Department tested the new mosquito trapping device in Tuen Mun and Tsim Sha Tsui in 2019. Test results showed that the new mosquito trapping device was effective in minimising the nuisance caused by *Aedes* mosquitoes. The Department has introduced the use of the device in its regular anti-mosquito work and recommended the technology to other departments.	Around $640,000	Around $200,000	Around $200,000
Use of gravidtraps to monitor *Aedes albopictus*	The gravidtrap was tested in the laboratory and 10 districts from 2019 to 2020. Test results showed that the gravidtrap was effective in attracting and capturing adult *Aedes albopictus* mosquitoes, reducing the time required for surveillance, as well as providing a quantitative density index. Starting from April 2020, the gravidtrap has completely replaced the ovitrap previously used for monitoring *Aedes albopictus*.	Around $250,000	Around $210,000	Around $220,000
Large ULV fogger	The large ULV fogger was tested in Yuen Long District between April and July 2020. Test results showed that the large ULV fogger was suitable for conducting ULV space treatment over a large area, and its spray range was longer than the knapsack sprayer being used. The fogger was more	N.A.[Note]	N.A.[Note]	N.A.[Note]

Technological application for mosquito control	Effectiveness	Expenditure		
		2022	2023	2024
	effective in killing adult mosquitoes in the fogging treatments conducted in scrubby areas. The Department has introduced the use of large ULV foggers in its regular anti-mosquito work in the same year.			
Robotics fogger	Field trials were conducted in Yuen Long, Sha Tin and Sai Kung Districts between April and November 2021. The vehicle, with the robotics fogger installed, was driven to designated places to spray pesticides. Test results showed that it was safe, effective and user-friendly. The range of the sprayer was wider than that of the knapsack sprayer being used. The robotics fogger could facilitate fogging operations in large areas and was particularly useful in killing adult mosquitoes in places that were difficult for workers to reach, such as well-vegetated hill sides. The Department has introduced the use of robotics foggers in its regular anti-mosquito work since 2022. The technology has been recommended to other departments, and on-site demonstrations on the operation of robotics foggers have also been arranged.	Around $1.19 million	Around $490,000	Around $470,000

Note: The Department did not procure the equipment in the year.

Annex 3

Number of fogging operations conducted by the Department to kill adult mosquitoes

District	2024
Central and Western	1 616
Wan Chai	1 611
Eastern	1 613
Southern	1 305
Islands	1 264
Yau Tsim Mong	309
Sham Shui Po	2 883
Kowloon City	2 001
Wong Tai Sin	1 931
Kwun Tong	1 020
Kwai Tsing	780
Tsuen Wan	1 955
Tuen Mun	3 038
Yuen Long	2 684
North	534
Tai Po	632
Sha Tin	1 071
Sai Kung	3 609
Whole territory	29 856

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