

For information

LegCo Panel on Food Safety and Environmental Hygiene

**Dengue Vector Surveillance Programme
and Anti-mosquito Campaign 2013**

Purpose

This paper briefs Members on the dengue vector surveillance programme and the Anti-mosquito Campaign 2013 of the Food and Environmental Hygiene Department (FEHD).

Background

2. Apart from causing nuisance to human beings, some species of mosquitoes may pose threat to public health as vectors of diseases, such as dengue fever, Japanese encephalitis and chikungunya fever. Since 2003, FEHD has put in place an enhanced dengue vector surveillance programme to monitor the distribution of *Aedes albopictus* at selected areas, evaluate the effectiveness of mosquito prevention and control work carried out by various parties, and provide surveillance information to the public for timely adjustments to their mosquito control strategies and measures. Moreover, FEHD organises annual anti-mosquito campaigns on a territory-wide basis to heighten public awareness of the potential risk of mosquito-borne diseases, encourage community participation and promote concerted efforts of government departments concerned in anti-mosquito work.

3. Under the dengue vector surveillance programme, small plastic containers, known as ovitraps, are placed at selected locations for detecting the larval breeding rate of mosquitoes. Ovitrap index is the percentage of ovitraps that are found to have positive larval breeding result. Two different indices, namely Area Ovitrap Index (AOI) and Monthly Ovitrap Index (MOI), are recorded. AOI indicates the extensiveness of the distribution of Aedine mosquitoes in the surveyed area while MOI is the average of all AOIs of the

same month, which reflects the distribution and activity of *Aedes albopictus* throughout the territory. Starting from 2004, the surveillance programme has been extended to cover all major port areas. Port Ovitrap Index is enumerated every month together with Port Monthly Ovitrap Index (PMOI) which reflects the overall monthly situation of mosquito breeding in port areas. All the indices are announced each month on FEHD's website and through press release.

4. Starting from January 2011, FEHD has expanded the scope of the dengue vector surveillance programme in the community to cover six more areas (Deep Water Bay & Repulse Bay, Shau Kei Wan & Sai Wan Ho, Hung Hom, Sheung Kwai Chung, So Kwun Wat and Sai Kung Town) which are densely populated or frequently visited or where local dengue fever cases had emerged. As a result of this extension, a total of 44 areas are currently covered under the surveillance programme. In addition, since April 2011 an ovitrap index rapid alert system targeting the management offices of residential premises, social welfare facilities, schools and construction sites that fall within the 44 areas of surveillance has been introduced to ensure that anti-mosquito measures are taken promptly when the AOI of a particular area reaches the alert level of 20%. Whenever the AOI reaches 20%, subscribers to the system whose premises are situated within the surveillance area concerned will be individually notified by the relevant departments upon the publication of the AOI. Subscribers will be invited to post up specially designed alert notices in the common parts of their premises to draw the attention of occupants and management staff to take mosquito preventive and control measures promptly.

Findings of Dengue Vector Surveillance Programme in 2012 and 2013

MOIs

5. The MOIs recorded in 2012 were in general lower than those in previous years. A chart showing the trend is at **Annex I**. The MOIs recorded in the first three months were maintained at a very low level ranging from 0% in January to 0.4% in March. In the following months, the MOIs rose from 4.4% in April to 12.4% in May, which was the peak of the year. In September, the MOI dropped to 4.2% and then further downed to 0.3% in December. The fluctuations in MOIs in 2012 were in general similar to the

pattern in previous years. The MOIs recorded in January to March 2013 remained at a low level (0.1% for all three months).

AOIs

6. In 2012, the two highest AOI of 32.7% and 29.4% were recorded in Kowloon City North in May and June respectively, followed by 26.5% in Tung Chung in June. A chart showing the trend is at **Annex II**. In total, 11 areas had recorded AOIs reaching or exceeding the alert level of 20% for at least once. In response to these recordings, FEHD convened district task force meetings and activated the ovitrap index rapid alert system for a total of 14 times to step up the co-ordination of government efforts in mosquito control and to mobilise community participation in anti-mosquito efforts. With effect from January 2013, the area 'Lek Yuen' in Shatin has been renamed as 'Yuen Chau Kok' in order to indicate more precisely the locations under surveillance. The area under surveillance remains unchanged.

PMOIs

7. In 2012, the ovitrap indices of the six groups of port areas were below 20%. The highest ovitrap indices of 7.6% were recorded in the groups of Cross Boundary Check Points on Land in May and Public Cargoes Working Areas in June (detailed at **Annex III**). The PMOIs in 2012 ranged from the lowest of 0% (January to March and November) to the highest of 0.7% (May and June). The fluctuations in PMOIs showed a similar pattern as in previous years. A chart showing the trend is at **Annex IV**. 0% PMOIs were recorded in all port areas from January to March 2013.

8. The ferry service of Tuen Mun Ferry Terminal ceased by the end of 2012 and thus the ovitrap surveillance there had been terminated starting from 2013. With the coming operation of the ocean terminal at Kai Tak, the ovitrap surveillance would cover this ocean terminal in June 2013. FEHD will continue to work closely with relevant government departments and organisations, including the Airport Authority, the Mass Transit Railway Corporation and freight forwarding companies, in strengthening the anti-mosquito work in port areas.

Anti-mosquito Campaign 2013

9. Effective mosquito control requires sustained efforts on the part of all parties concerned. In this regard, FEHD launched a new Anti-mosquito Campaign in early 2013 (the Campaign) in collaboration with other relevant government departments to maintain the momentum. The Campaign bears the following main theme: “Prevent Japanese encephalitis and Dengue Fever Act Now!”. It is scheduled for implementation by phases as follows –

Phase I: 25 February 2013 – 22 March 2013

Phase II: 29 April 2013 – 5 July 2013

Phase III: 19 August 2013 – 11 October 2013

10. FEHD’s pest control staff will step up inspection, preventive and control actions and publicity work during the Campaign. Mosquito breeding places will be eliminated or treated with larvicides. Potential breeding grounds and trouble spots identified by district pest control staff will also be covered. Special attention will be paid to areas in close proximity to residential premises, schools, construction sites, illegal cultivation sites, hospitals, waterfront public and private cargo working areas, cross-boundary check points, typhoon shelters and cross-boundary ferry terminals.

11. Community support is vital to the successful implementation of the Campaign. We will make use of a wide range of promotional channels, such as FEHD’s website, posters, leaflets, Announcements in the Public Interest, VCDs and letters to target groups, to encourage community participation in our campaign. We will also organise a variety of events and activities, such as roving exhibitions at major shopping malls of housing estates, outreaching health talks, as well as games and theme exhibitions at the Health Education Exhibition and Resource Centre of FEHD. A “Guidebook on Control and Prevention of Mosquito Breeding” with illustrations on potential breeding places of *Aedes albopictus* and the methods to eliminate them is available on the FEHD’s website for public access.

12. Relevant government departments will also play an active role in the Campaign through anti-mosquito activities in places under their charge and enlist community support for the campaign through their networks. District Councils will also be invited to participate in the Campaign in organising

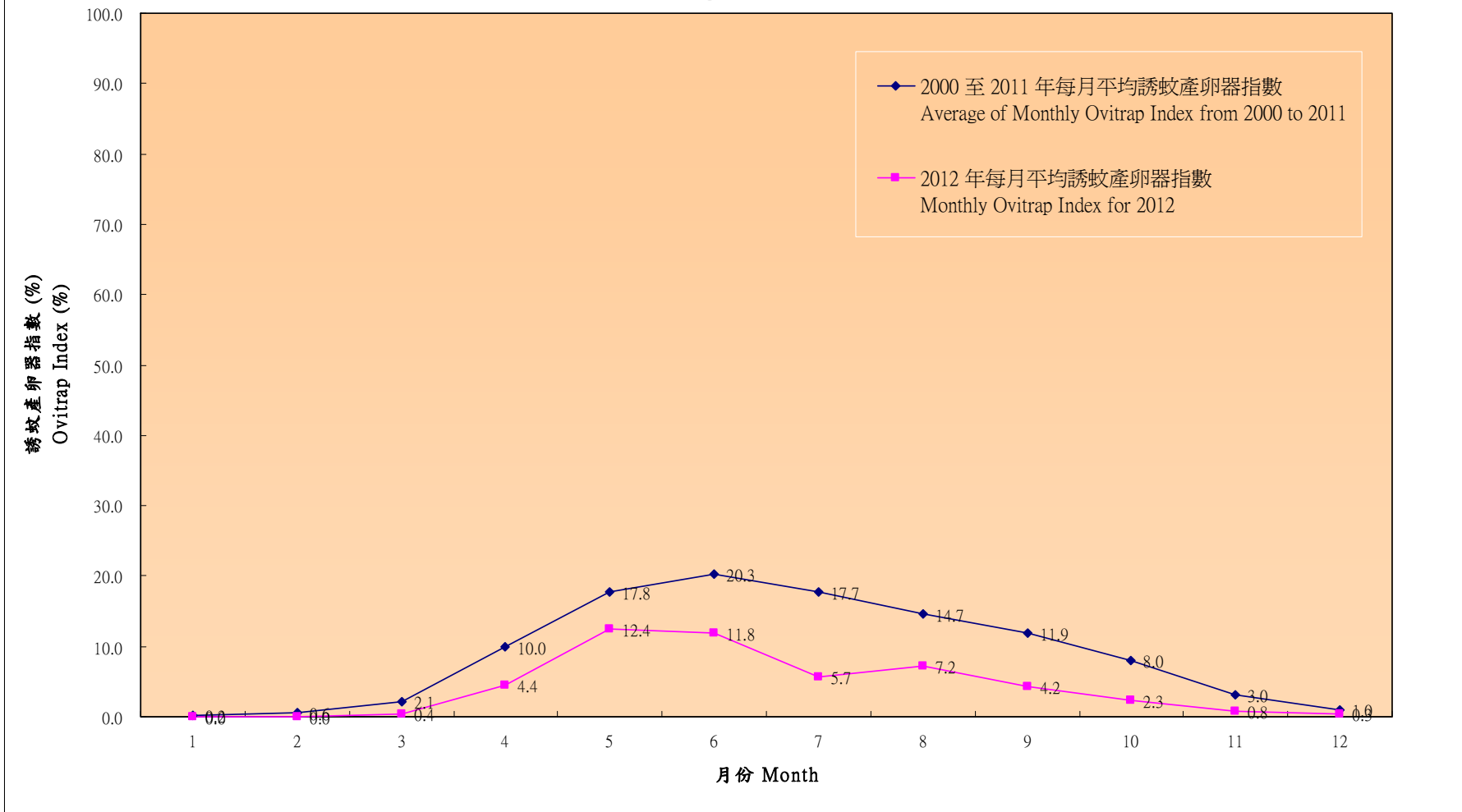
anti-mosquito activities at the district level. The Anti-mosquito Plan for 2013 of the relevant government departments is at **Annex V**.

Advice Sought

13. Members are invited to note the content of the paper.

**Food and Health Bureau
Food and Environmental Hygiene Department
April 2013**

2000-11 年與 2012 年白紋伊蚊誘蚊產卵器指數比較
 Comparison of Monthly Average Ovitrap Index (2000-11 and 2012)



Ovitrapp Indices for 44 locations in 19 districts – 2012

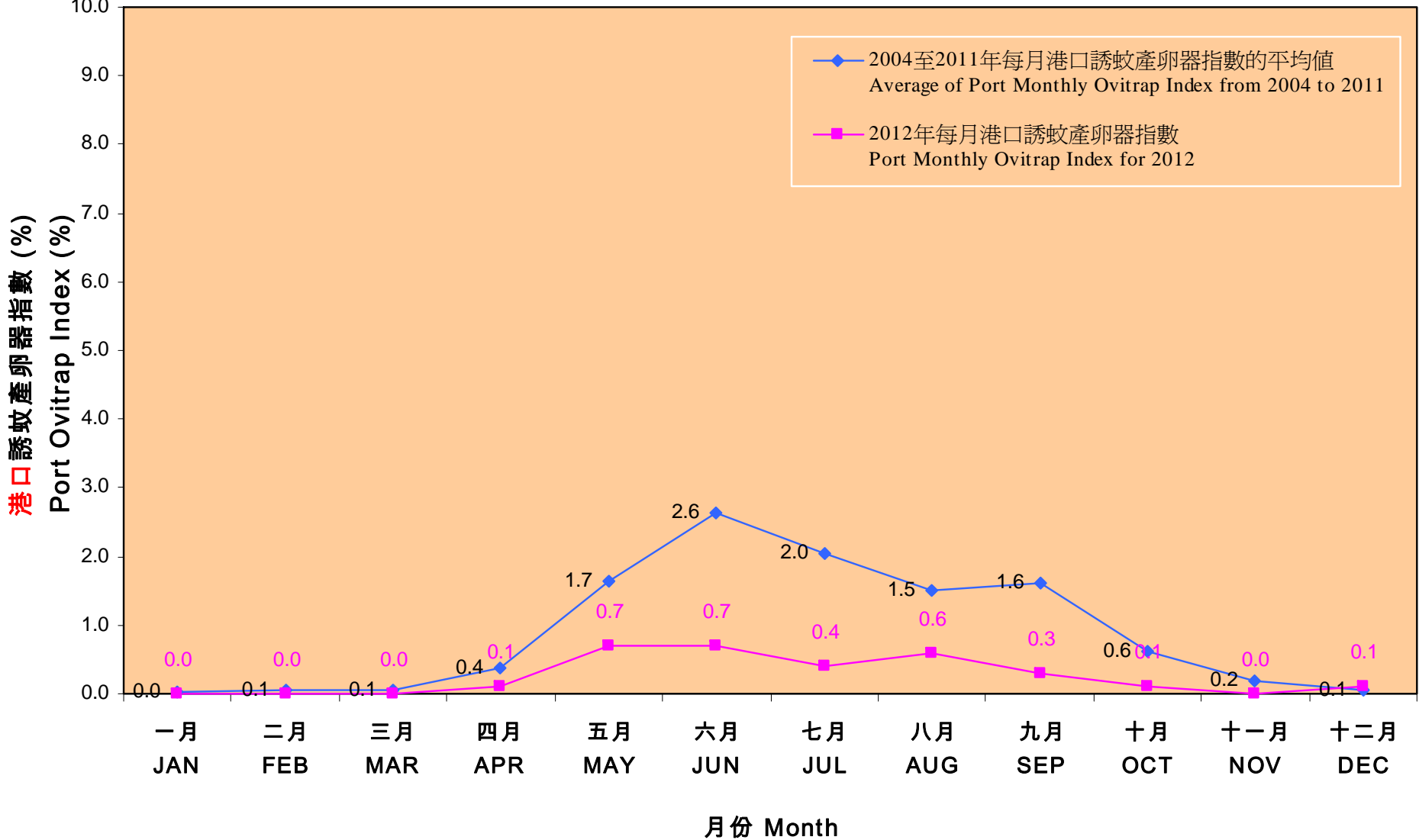
	Locations	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Hong Kong Island & Outside Islands	Chai Wan West	0.0%	0.0%	0.0%	1.8%	10.7%	17.5%	8.8%	3.5%	5.3%	1.8%	0.0%	0.0%
	Shau Kei Wan and Sai Wan Ho	0.0%	0.0%	0.0%	0.0%	11.9%	21.2%	16.7%	6.8%	1.8%	0.0%	0.0%	0.0%
	North Point	0.0%	0.0%	0.0%	0.0%	3.7%	5.5%	1.8%	3.7%	0.0%	0.0%	0.0%	0.0%
	Wan Chai North	0.0%	0.0%	0.0%	0.0%	1.9%	3.8%	3.8%	9.8%	5.9%	1.9%	1.9%	0.0%
	Happy Valley	0.0%	0.0%	0.0%	0.0%	3.6%	8.8%	7.0%	1.8%	0.0%	1.8%	0.0%	0.0%
	Central, Sheung Wan and Sai Ying Pun	0.0%	0.0%	2.0%	7.4%	3.7%	15.1%	1.9%	5.6%	5.7%	5.6%	0.0%	0.0%
	Sai Wan	0.0%	0.0%	0.0%	5.7%	7.5%	13.2%	1.9%	7.5%	9.4%	3.8%	0.0%	0.0%
	Aberdeen and Ap Lei Chau	0.0%	0.0%	0.0%	3.8%	13.5%	15.1%	2.0%	16.7%	9.4%	0.0%	0.0%	0.0%
	Pokfulam	0.0%	0.0%	0.0%	7.3%	21.8%	10.9%	3.9%	7.3%	5.5%	3.6%	1.9%	2.0%
	Deep Water Bay and Repulse Bay	0.0%	0.0%	0.0%	0.0%	16.4%	7.3%	1.8%	3.6%	1.9%	1.9%	1.9%	0.0%
	Cheung Chau	0.0%	0.0%	0.0%	0.0%	5.7%	5.6%	5.6%	2.8%	5.7%	0.0%	0.0%	0.0%
Tung Chung	0.0%	0.0%	0.0%	8.3%	19.4%	26.5%	16.7%	14.3%	22.2%	5.7%	2.8%	5.6%	
Kowloon	Tsim Sha Tsui	0.0%	0.0%	0.0%	8.6%	8.8%	6.9%	3.4%	0.0%	1.9%	5.3%	0.0%	0.0%
	Mong Kok	0.0%	0.0%	0.0%	0.0%	7.0%	5.2%	5.3%	10.9%	5.4%	7.1%	1.8%	0.0%
	Lai Chi Kok	0.0%	0.0%	0.0%	1.8%	5.6%	12.7%	1.8%	1.9%	0.0%	0.0%	0.0%	0.0%
	Sham Shui Po East	0.0%	0.0%	1.9%	7.4%	13.0%	7.4%	1.9%	3.7%	0.0%	0.0%	0.0%	0.0%
	Cheung Sha Wan	0.0%	0.0%	0.0%	1.8%	5.5%	10.9%	0.0%	3.6%	0.0%	0.0%	0.0%	0.0%
	Kowloon City North	0.0%	0.0%	0.0%	5.7%	32.7%	29.4%	0.0%	5.8%	0.0%	0.0%	0.0%	0.0%
	Hung Hom	0.0%	0.0%	0.0%	1.9%	5.9%	7.3%	3.8%	1.9%	1.9%	0.0%	0.0%	0.0%
	Ho Man Tin	0.0%	0.0%	0.0%	1.9%	10.9%	15.1%	10.9%	7.4%	5.7%	5.5%	1.8%	0.0%
	Wong Tai Sin Central	0.0%	0.0%	0.0%	0.0%	25.4%	18.0%	6.3%	8.1%	3.2%	0.0%	0.0%	0.0%

	Locations	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
	Diamond Hill	0.0%	0.0%	0.0%	0.0%	16.7%	14.5%	9.1%	3.6%	5.7%	1.9%	0.0%	1.8%
	Kwun Tong Central	0.0%	0.0%	1.8%	14.5%	13.2%	14.5%	2.0%	26.4%	1.9%	0.0%	0.0%	1.8%
	Lam Tin	0.0%	0.0%	3.6%	10.9%	16.4%	10.9%	5.7%	11.3%	7.5%	3.6%	0.0%	0.0%
New Territory East	Tseung Kwan O	0.0%	0.0%	1.7%	13.8%	15.0%	20.7%	1.7%	12.1%	1.7%	3.3%	1.7%	1.7%
	Sai Kung Town	0.0%	0.0%	0.0%	6.0%	12.0%	2.0%	0.0%	4.0%	0.0%	0.0%	0.0%	0.0%
	Ma On Shan	0.0%	0.0%	0.0%	3.6%	8.6%	13.8%	12.1%	1.7%	3.4%	1.7%	0.0%	0.0%
	Lek Yuen	0.0%	0.0%	0.0%	0.0%	12.7%	21.8%	7.4%	13.7%	7.7%	1.9%	0.0%	0.0%
	Tai Wai	0.0%	0.0%	0.0%	1.8%	10.7%	10.9%	10.9%	10.7%	5.4%	5.4%	7.3%	0.0%
	Tai Po	0.0%	0.0%	0.0%	0.0%	9.1%	16.7%	13.0%	3.8%	5.7%	1.8%	1.9%	0.0%
	Fanling	0.0%	0.0%	0.0%	0.0%	9.1%	11.3%	11.1%	11.3%	5.5%	5.7%	1.9%	1.8%
	Sheung Shui	0.0%	0.0%	0.0%	0.0%	5.5%	1.8%	9.3%	3.6%	1.8%	5.5%	0.0%	0.0%
New Territory West	Tin Shui Wai	0.0%	0.0%	0.0%	14.8%	12.3%	17.5%	0.0%	8.9%	3.6%	1.8%	0.0%	0.0%
	Yuen Kong	0.0%	0.0%	0.0%	24.0%	24.0%	8.0%	0.0%	8.3%	4.0%	4.0%	0.0%	0.0%
	Yuen Long Town	0.0%	0.0%	0.0%	9.1%	12.7%	10.9%	9.3%	12.7%	3.8%	1.8%	0.0%	0.0%
	Tuen Mun (S)	0.0%	0.0%	0.0%	0.0%	17.0%	22.6%	9.4%	7.8%	7.5%	3.8%	2.0%	0.0%
	Tuen Mun (N)	0.0%	0.0%	0.0%	5.1%	11.9%	10.2%	10.3%	8.6%	3.4%	5.4%	0.0%	0.0%
	So Kwun Wat	0.0%	0.0%	0.0%	0.0%	14.5%	5.5%	9.3%	5.5%	1.8%	0.0%	0.0%	0.0%
	Tsuen Wan Town	0.0%	0.0%	5.0%	5.0%	10.0%	6.7%	8.3%	10.2%	5.0%	0.0%	0.0%	1.7%
	Ma Wan	0.0%	0.0%	0.0%	0.0%	12.0%	12.0%	0.0%	0.0%	8.3%	0.0%	0.0%	0.0%
	Sheung Kwai Chung	0.0%	0.0%	0.0%	17.3%	17.3%	2.0%	0.0%	3.7%	2.0%	0.0%	0.0%	0.0%
	Kwai Chung	0.0%	0.0%	0.0%	5.5%	14.8%	3.6%	0.0%	1.9%	1.8%	1.9%	0.0%	0.0%
	Lai King	0.0%	0.0%	0.0%	5.5%	18.2%	9.1%	11.1%	9.1%	9.1%	7.4%	7.3%	0.0%
	Tsing Yi	0.0%	0.0%	0.0%	1.8%	23.2%	10.5%	1.9%	10.7%	7.0%	1.8%	0.0%	0.0%
Monthly Ovitrap Index		0.0%	0.0%	0.4%	4.4%	12.4%	11.8%	5.7%	7.2%	4.2%	2.3%	0.8%	0.3%

Results of Ovitrap Surveillance in Port Areas in 2012

Location	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Hong Kong International Airport	0.0%	0.0%	0.0%	0.0%	0.2%	0.1%	0.1%	0.2%	0.0%	0.0%	0.0%	0.1%
Cross Boundary Check Points on Land	0.0%	0.0%	0.0%	0.6%	7.6%	7.1%	1.2%	4.8%	2.4%	1.8%	0.0%	0.0%
Private Cargoes Working Areas	0.0%	0.0%	0.0%	0.0%	5.0%	5.0%	1.3%	5.1%	1.3%	1.3%	0.0%	0.0%
Cross Boundary Ferry Terminals	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.3%	1.3%	2.5%	0.0%	0.0%	0.0%
Container Terminals	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.6%	0.6%	0.0%	0.0%	0.0%
Public Cargoes Working Areas	0.0%	0.0%	0.0%	0.0%	0.8%	7.6%	5.6%	5.1%	2.7%	0.0%	0.0%	0.0%
Port Monthly Ovitrap Index	0.0%	0.0%	0.0%	0.1%	0.7%	0.7%	0.4%	0.6%	0.3%	0.1%	0.0%	0.1%

2004至2011年與2012年每月港口誘蚊產卵器指數比較
Comparison of Port Monthly Ovitrap Index: 2004 - 2011 and 2012



Anti-mosquito Plan for 2013

Bureau/ Department	Action Plan
<p>Agriculture, Fisheries and Conservation Department (AFCD)</p>	<p><u>Fish Farms and Fishermen</u></p> <ul style="list-style-type: none"> ● To distribute anti-mosquito advisory leaflets to mariculturists at AFCD's licence renewal service counters, during our regular farm inspections, and through the representatives in the Mariculturists Liaison and Support Group of the Red Tide Reporting Network. ● To issue advisory letters together with anti-mosquito leaflets to fishermen associations. <p><u>Local Livestock Farms</u></p> <ul style="list-style-type: none"> ● To issue advisory letters and publicity leaflets to livestock farmers and livestock associations to raise their awareness of anti-mosquito measures. ● To inspect livestock farms for any potential mosquito breeding sites and remind farmers to take proper anti-mosquito measures during routine farm inspections. <p><u>Government Wholesale Food Markets</u></p> <ul style="list-style-type: none"> ● To issue advisory letters and notices at regular intervals to market traders and cleansing contractors to remind them to keep the market clean and to raise their awareness of anti-mosquito measures. ● To closely monitor the performance of the cleansing contractors and ensure that they will apply larvicide regularly to market drains to prevent breeding of mosquitoes. ● To carry out special operations to keep market clean and to eliminate potential mosquito breeding grounds.

Bureau/ Department	Action Plan
	<p><u>Cheung Sha Wan Wholesale Vegetable Market under Vegetable Marketing Organisation (VMO)</u></p> <ul style="list-style-type: none"> <li>● To continue conducting regular inspections, surprise checks and cleansing of the wholesale vegetable market and issuing advisory notices to market users advising them of the importance of maintaining the cleanliness of the market and removal of stagnant water. <li>● To maintain close contact with the Food and Environmental Hygiene Department (FEHD) to eliminate potential mosquito breeding sites directly adjacent to the VMO market premises. <p><u>Wholesale Fish Markets under Fish Marketing Organization (FMO)</u></p> <ul style="list-style-type: none"> <li>● To continue conducting regular inspections, surprise checks and cleansing of all FMO markets and issuing advisory notices to market users advising them of the importance of maintaining the cleanliness of the market and removal of stagnant water. <p><u>Country Parks</u></p> <ul style="list-style-type: none"> <li>● To regularly inspect and cleanse recreation sites, hiking trails and construction sites and carry out clearance of overgrown vegetation in these areas. <li>● To continue effort in advising visitors to protect themselves against mosquitoes and other insect bites through oral advice, leaflets, posters and warning signs. <li>● To level depressions which can hold water and remove water storage devices found in country parks to prevent mosquito breeding. <li>● To advise morning walkers not to keep containers in their gardens and hillsides and remove any unauthorised planting sites and water storage devices found in country parks.

Bureau/ Department	Action Plan
	<p><u>Mai Po Nature Reserve and Hong Kong Wetland Park</u></p> <ul style="list-style-type: none"> ● To display posters at suitable locations in the Mai Po Nature Reserve (MPNR) and Hong Kong Wetland Park (HKWP) to alert staff of the AFCD and World Wide Fund Hong Kong (WWFHK) to take measures to eliminate mosquito breeding grounds and to advise them and visitors to take preventive measures to avoid mosquito bites. ● To distribute anti-mosquito leaflets to visitors. ● Staff of WWFHK and contractor of HKWP will eliminate stagnant water and mosquito breeding grounds in all their buildings, structures, boats, visitor facilities and gei wai bund areas in the MPNR and HKWP regularly.
Development Bureau (DEVB)	<ul style="list-style-type: none"> ● The high-level Interdepartmental Working Group on Mosquito Prevention at Works Sites will continue to closely monitor the situation at public works sites. ● To continue to liaise with the FEHD to ensure effective anti-mosquito measures are undertaken by contractors at public works sites.
Department of Health (DH)	<ul style="list-style-type: none"> ● General publicity activities on prevention of mosquito-borne diseases will be continued in 2013 with enhancement during summer : <ul style="list-style-type: none"> (a) to liaise with the Information Services Department to coordinate the broadcasting of relevant television & radio APIs; (b) to arrange media interviews on mosquito-borne diseases; (c) to submit and publish articles on mosquito-borne diseases in magazines and newspapers; (d) to update and upload relevant information onto the Centre for Health Protection (CHP) website and 24-Hour Health Education Hotline;

Bureau/ Department	Action Plan
	<p>(e) to establish hyperlinks in the DH website and the GovHK website if required;</p> <p>(f) to enhance publicity in the Summer Programme 2013 by distributing printed materials to various places including health sectors, schools, public and private housing estates, public facilities of the Leisure and Cultural Services Department (LCSD) and NGOs; and</p> <p>(g) to update the content of health education materials such as fact sheets of dengue fever and yellow fever, and easy-rolling banners on ‘Prevent Mosquito-borne Diseases’ and ‘Dengue Fever’ for loaning out to the schools, Government departments, NGOs or private sectors to enhance publicity at community level.</p> <ul style="list-style-type: none"> ● Preventive measures at boundary control points (BCPs) and health advice for travellers: <ul style="list-style-type: none"> (a) to continue mosquito breeding site monitoring and elimination at the airport, all sea & land BCPs, cargo handling facilities and cross-boundary conveyances by regular inspection and close liaison with relevant stakeholders including operators of the BCPs and conveyances, District Pest Control Teams and Pest Control Advisory Section of FEHD; (b) to continue distribution of leaflets and display of posters on anti-mosquito measures at all BCPs and cargo handling facilities; (c) to continue uploading updated health messages and outbreak news onto Travel Health Service website; (d) to continue health talk/ advice for travel agents/ tour guides at Travel Industry Council of Hong Kong; (e) to include mosquito-borne diseases including malaria, dengue fever, yellow fever and Japanese encephalitis as topics in the travel health bulletins; and

Bureau/ Department	Action Plan
	<p>(f) to host the travel health exhibition at the airport.</p> <ul style="list-style-type: none"> ● Other measures: <ul style="list-style-type: none"> (a) to disseminate information on mosquito-borne diseases and health education messages through letter-to-doctor, press releases and via the articles published in Communicable Diseases Watch as appropriate; and (b) to update the “Global Malaria Risk Summary” in 2013 by Scientific Committee on Vector-borne Diseases of the CHP.
Education Bureau (EDB)	<ul style="list-style-type: none"> ● EDB will jointly organise with the FEHD a seminar on the dengue fever and Japanese encephalitis vectors for school personnel in May 2013 and alert schools within 100m of any positive traps identified in FEHD’s Monthly Ovitrap Surveys to strengthen preventive measures against mosquitoes. ● Circulars or letters regarding strengthening of preventive measures against mosquitoes will be issued to schools, if necessary.
Food and Environmental Hygiene Department (FEHD)	<ul style="list-style-type: none"> ● Since the coming into operation of the Public Health and Municipal Services (Amendment) Ordinance on 12 May 2006, 157 prosecutions as at 31 March 2013 concerning the control of water and article likely to cause mosquito breeding have been taken out against persons responsible for the management of premises under section 27(3A) of the Public Health and Municipal Services Ordinance (Cap. 132). FEHD will continue to take enforcement actions against persons in breach of this legislation. ● FEHD will continue to assist the Housing Department (HD) in taking enforcement action against households found with mosquito breeding grounds. ● FEHD will continue to convene district anti-mosquito task force meetings with the concerned departments/parties and provide necessary advice and assistance to them in formulating mosquito prevention strategies whenever situation warrants,

Bureau/ Department	Action Plan
	<p>such as when Area Ovitrap Index (AOI) reaches 20% or above.</p> <ul style="list-style-type: none"> ● All FEHD District Environmental Hygiene Offices convened a special anti-mosquito task force meeting in March 2013 before the start of the rainy season to enhance relevant departments' awareness of the importance of mosquito control in venues under their management. ● FEHD continues with the dengue vector surveillance programme which covers a total of 44 areas. ● FEHD has maintained the ovitrap index rapid alert system targeting at the management offices of residential premises, social welfare facilities, schools and construction companies with work sites that fall within the 44 areas of surveillance. Subscribers to the system will be notified immediately when the AOI of the area where their premises are located has reached the alert level of 20%. They will also be requested to post up specially designed alert notices in the common parts of their premises. ● With effect from January 2013, the area 'Lek Yuen' in Shatin has been renamed as 'Yuen Chau Kok' to indicate more precisely the location under surveillance. However, the area under surveillance remains unchanged. <p><u>Publicity and Education Activities in 2013</u></p> <ul style="list-style-type: none"> ● The 2013 diary on anti-mosquito measures was uploaded to FEHD's website in mid-December 2012. ● Outreaching talks on mosquito prevention and control have been organised for students, teachers, property management, home for the elderly and construction site management, etc. ● AOI, Monthly Ovitrap Index (MOI) and Port Ovitrap Index (POI) have been released to the press on a monthly basis. ● Anti-mosquito exhibitions have been staged since February 2012 and would last until end of the year at Health Education Exhibition and Resource Centre.

Bureau/ Department	Action Plan
	<ul style="list-style-type: none"> ● The slogan “Prevent Japanese Encephalitis and Dengue Fever Act Now” (齊來把蚊滅 預防日本腦炎登革熱) of the Anti-mosquito Campaign 2013 and other anti-mosquito messages are promulgated through the following channels- <ul style="list-style-type: none"> (a) television and radio APIs; (b) publicity materials e.g. posters, pamphlets, banners and diaries; (c) VCDs and letters to target groups e.g. construction sites management, public/private housing estates management; (d) FEHD’s homepage and hotline; (e) games / competition; (f) talks on anti-mosquito measures; (g) roving exhibitions; and (h) a broadcasting van. <p><u>Territory-wide Anti-mosquito Campaign 2013</u></p> <ul style="list-style-type: none"> ● The territory-wide Anti-mosquito Campaign has been / would be implemented in three phases as follows: <ul style="list-style-type: none"> Phase I: 25 February 2013 – 22 March 2013 Phase II: 29 April 2013 – 5 July 2013 Phase III: 19 August 2013 – 11 October 2013; ● The Campaign aims at – <ul style="list-style-type: none"> (a) heightening public awareness of the potential risk of dengue fever, Chikungunya fever, Japanese encephalitis and other mosquito-borne diseases; (b) encouraging community participation and forging close partnership among government departments concerned in anti-mosquito work; and

Bureau/ Department	Action Plan
	<p>(c) eliminating potential mosquito breeding sites.</p> <p><u>Territory-wide Thematic Anti-mosquito Operations in 2013</u></p> <ul style="list-style-type: none"> ● April 2013. A three-week thematic operation targeting at village houses, cross boundary check points, passenger and cargo/container terminals, construction sites and problematic spots was launched between 2 April and 19 April 2013 to sustain the momentum after completion of Phase I of the Anti-mosquito Campaign 2013. ● July – August 2013. A four-week thematic operation will be launched between 15 July and 9 August 2013 targeting at old tenement buildings, private residential buildings, cross boundary check points, passenger and cargo/container terminals, open space in the vicinity of pig farms, sites with gathering of migratory birds, construction sites and problematic spots after completion of Phase II of the Anti-mosquito Campaign 2013. ● October – November 2013. A six-week thematic operation will be launched between 21 October and 29 November 2013 targeting at village houses, old tenement buildings, private residential buildings, cross boundary check points, passenger and cargo/container terminals, open space in the vicinity of pig farms, sites with gathering of migratory birds, construction sites and problematic spots after completion of Phase III of the Anti-mosquito Campaign 2013.
Government Property Agency (GPA)	<ul style="list-style-type: none"> ● For properties under GPA’s purview, the relevant Property Management Agents (PMA) are required to take the following anti-mosquito measures: <ul style="list-style-type: none"> (a) to put up relevant posters/notices to arouse awareness of occupants/residents and solicit their support to guard against mosquito-transmitted diseases; (b) to conduct daily inspection of areas where water may accumulate, e.g. drain holes, sand traps and gully traps, etc.;

Bureau/ Department	Action Plan
	<ul style="list-style-type: none"> (c) to apply larvicide to all drains once a week; (d) to conduct Pest Control at all common areas 1-2 times a month; (e) to remind nearby construction sites to take anti-mosquitoes measures; (f) to closely contact with FEHD to apply larvicide to nearby areas; (g) to remind officers in joint-user office buildings to prevent accumulation of water in relation to office plants; and (h) To seal up keyholes of manhole covers with adhesive tape to prevent breeding of mosquitoes. <ul style="list-style-type: none"> ● When the AOIs recorded by FEHD have risen above the alert level, respective PMA will step up the anti-mosquito measures as follows: <ul style="list-style-type: none"> (a) to brief their cleaning staff about anti-mosquito measure; (b) to increase the frequency of inspection to potential mosquito breeding grounds, e.g. roof; (c) to remove water from roof and open area after rain; (d) to clear drains and surface channels to prevent blockage; (e) to remove stagnant water; and (f) to fill up any defective ground surface.
Home Affairs Department (HAD)	<ul style="list-style-type: none"> ● To assist with the dissemination of anti-mosquito message, for example, by distributing anti-mosquito leaflets and posters and facilitating community talks and exhibitions. ● To carry out ad hoc maintenance, such as grass cutting, along village footpaths and access roads maintained by HAD.

Bureau/ Department	Action Plan
<p>Housing Department (HD)</p>	<p>Promotional / Publicity and Educational Programmes</p> <ul style="list-style-type: none"> ● To enrich and update the general knowledge in environmental hygiene and prevention of mosquito breeding in estates for staff members of HD, Property Service Agents and cleansing operatives, a seminar on “Prevention of Mosquito Breeding in Estate 2013” will be held in June 2013 with the support from FEHD and DH. ● Tenants will continuously be encouraged to report mosquito breeding black spots through the Housing Authority Hotline. ● Inspection guidelines and checklist have been provided to frontline management staff for guidance. ● Community education against mosquito breeding will be stepped up through promotional posters, notices and leaflets, estate newsletters, Estate Management Advisory Committee meetings and video segments/messages posted onto the Housing Channel through the LCD monitor installed at the G/F lift lobbies of public rental housing (PRH) blocks. ● Roving carnivals will be carried out across PRH estates on public hygiene and epidemic prevention such as anti-mosquito and rodent measures etc. <p>Enhanced Anti-mosquito Actions</p> <ul style="list-style-type: none"> ● Estate management offices have been instructed to mobilise necessary resources and work closely with FEHD for the implementation of the territory-wide Anti-mosquito Campaign 2013. ● Anti-mosquito Special Cleansing Squads set up in all PRH estates will continue to carry out daily inspection of gullies, surface channels, hill slopes, flower beds etc. to eliminate accumulation of stagnant water at potential mosquito breeding black spots.

Bureau/ Department	Action Plan
	<ul style="list-style-type: none"> ● Mosquito catching apparatuses have been placed at strategic points of PRH estates located in areas with relatively high AOI. ● Estates within districts with AOI over 10% will be alerted to step up anti-mosquito measures. Those estates within districts with AOI at alert level of 20% or above will be required to put up a special eye-catching notice at the G/F lift lobby of each estate block to alert tenants and solicit their cooperation and support to step up anti-mosquito measures in the estates. ● Regular inspections in PRH estates will continue to be conducted by HD, in conjunction with FEHD, to monitor the effectiveness of the anti-mosquito measures. ● Overgrown vegetations on flower beds and slopes will be pruned from time to time. Larvicide will be applied to manholes and surface channels. Maintenance work such as clearing of blocked drains and paving of uneven ground will be sped up. ● All building contractors of HD will be demanded to clear up any stagnant water in construction sites and keep the sites clean. Cleansing contractors will also be required to strengthen their efforts in keeping PRH estates and work sites clean. <p>Enforcement Action</p> <ul style="list-style-type: none"> ● HD will strengthen enforcement actions under the ‘Marking Scheme for Estate Management Enforcement in public housing estates’ and call for tenants’ cooperation. Five penalty points will be allotted to households for committing the offence of “causing mosquito breeding by accumulating stagnant water” under the Scheme.
Lands Department (LandsD)	<ul style="list-style-type: none"> ● To have a regular programme of inspection and, if necessary, cleaning of fenced off Government sites. ● To conduct grass cutting and tidy up government land site black spots. To apply larvicidal oil or pesticide as and when necessary and take action to level the uneven ground where

Bureau/ Department	Action Plan
	<p>stagnant water is easily accumulated.</p> <ul style="list-style-type: none"> ● To clear identified hillside illegal cultivation black spots to eliminate mosquito breeding grounds. ● To prosecute offender of illegal cultivation. ● To carry out grass cutting and tidy up the fenced government land sites within 100m radius of the locations having high ovitrap index. ● To conduct joint operation with other departments in fighting against mosquito-borne disease. ● To distribute government posters and pamphlets through District Lands Offices to educate the general public. ● To remind government departments that allocated sites should be kept in a clean and tidy condition and that grass cutting should be performed regularly. ● To issue letters to tenants (Short Term Tenancies) and licensees (Government Land Licences) in assisting the Government in mosquito prevention.
<p>Leisure and Cultural Services Department (LCSD)</p>	<ul style="list-style-type: none"> ● Carry out mosquito control operations at LCSD venues, involving special anti-mosquito operations and special cleansing operations. ● Continue to operate over 385 mosquito trapping devices at around 176 LCSD venues. ● Conduct roving exhibitions on mosquito control and prevention of dengue fever at LCSD venues. ● Display and distribute anti-mosquito publicity materials including banners, posters and leaflets. ● Step up enforcement action on littering at LCSD venues.
