

## Appendix 8.7a – Butterfly Species Recorded

### Mean (Maximum count) of butterfly species recorded in PDAs and Assessment Area from January to September 2013

Common Name	Scientific Name	Conservation Status <sup>1</sup>	Status in HK <sup>2</sup>	PDAs								Assessment Area (excluding PDAs)													
				Developed Area	Dry Agricultural Land	Grassland/Shrubland	Inactive Agricultural Land	Mixed Dry & Wet Agricultural Land	Natural Watercourse	Seasonally Wet Grassland	Secondary woodland	Wasteland	Channalised Watercourse	Developed Area	Dry Agricultural Land	Grassland/Shrubland	Inactive Agricultural Land	Mixed Dry & Wet Agricultural Land	Natural Watercourse	Orchard	Pond	Seasonally Wet Grassland	Secondary woodland	Village Area	Wasteland
Pale Awlet	<i>Bibasis gomata</i>	-	UC												0.11 (1)										
Bush hopper	<i>Ampittia dioscorides</i>	-	UC				0.11 (1)																		
Forest Hopper	<i>Astiactopterus jama</i>	-	C												0.33 (2)										
Formosan Swift	<i>Borbo cinnara</i>	-	C			0.11 (1)									0.11 (1)								0.22 (1)		
Swift sp.*	<i>Baoris farri/Caltoris bromus/Caltoris cahira*</i>	-	R/ VR /R*																				0.11 (1)		
Banana Skipper	<i>Erionota torus</i>	-	UC		0.11 (1)																				
Restricted Demon	<i>Notocrypta curvifascia</i>	-	UC												0.11 (1)										
Rare Swift	<i>Pamara ganga</i>	-	UC																				0.11 (1)		
Swift sp.	<i>Pelopidas</i> sp.	-	-												0.22 (2)								0.11 (1)		
Chinese Dart	<i>Potanthus confucius</i>	-	UC												0.11 (1)										
Greenish Palm Dart	<i>Telicota ancilla</i>	-	UC																					0.22 (2)	
Pale Palm Dart	<i>Telicota colon</i>	LC	R																					0.11 (1)	
Dart sp.	-	-	-												0.11 (1)									0.11 (1)	
Grass Demon	<i>Udaspes folus</i>	-	R												0.22 (1)								0.11 (1)		0.44 (2)
Spotted Angle	<i>Caprona dlida</i>	LC	VR												0.11 (1)										
Purple Sapphire	<i>Heliophorus epicles</i>	-	C			0.22 (1)									0.33 (2)										
Common Hedge Blue	<i>Acytolepis puspa</i>	-	C		0.11 (1)	0.11 (1)	0.11 (1)			0.11 (1)					0.22 (2)	0.78 (5)		0.22 (2)					0.67 (5)	0.33 (2)	0.22 (2)
Plains Cupid	<i>Chilades pandava</i>	-	UC																						1.11 (10)
Tailed Cupid	<i>Everes lacturnus</i>	-	C		0.11 (1)																			0.11 (1)	
Metallic Cerulean	<i>Jamides alecto</i>	-	VR			0.22 (2)																	0.56 (3)		



Common Name	Scientific Name	Conservation Status <sup>1</sup>	Status in HK <sup>2</sup>	PDAs								Assessment Area (excluding PDAs)														
				Developed Area	Dry Agricultural Land	Grassland/Shrubland	Inactive Agricultural Land	Mixed Dry & Wet Agricultural Land	Natural Watercourse	Seasonally Wet Grassland	Secondary woodland	WasteLand	Channelised Watercourse	Developed Area	Dry Agricultural Land	Grassland/Shrubland	Inactive Agricultural Land	Mixed Dry & Wet Agricultural Land	Natural Watercourse	Orchard	Pond	Seasonally Wet Grassland	Secondary woodland	Village Area	WasteLand	
Southern Sullied Sailer	<i>Neptis clinia</i>	-	C			0.11 (1)																	0.22 (1)			
Common Sailer	<i>Neptis hylas</i>	-	VC	0.22 (2)	0.11 (1)		0.11 (1)			0.22 (2)	0.11 (1)				0.22 (1)	0.33 (2)							0.67 (3)	0.33 (2)	0.33 (2)	0.22 (2)
Five-dot Sergeant	<i>Parathyma sulphita</i>	-	C			0.11 (1)																				
Short-banded Sailer	<i>Phaedyma columella</i>	-	C																					0.11 (1)		
Black Prince	<i>Rohana parisatis</i>	-	C								0.11 (1)															
Common Jester	<i>Symbrenthia lilaea</i>	-	C							0.11 (1)	0.11 (1)													0.11 (1)		
Indian Red Admiral	<i>Vanessa indica</i>	-	UC												0.11 (1)											
Common Palmfly	<i>Elymnias hypermnestra</i>	-	C							0.11 (1)					0.11 (1)									0.11 (1)	0.33 (1)	0.11 (1)
Banded Tree Brown	<i>Lethe confusa</i>	-	C							0.11 (1)	0.11 (1)															
Common Evening Brown	<i>Melanitis leda</i>	-	C												0.22 (2)										0.33 (1)	0.11 (1)
Dark Evening Brown	<i>Melanitis phedima</i>	-	UC								0.11 (1)															
Dark-brand Bush Brown	<i>Mycalasis mineus</i>	-	VC	0.11 (1)	0.11 (1)	0.78 (4)				0.11 (1)					2.67 (10)	1.89 (5)		0.22 (2)	0.11 (1)				0.33 (1)	6.78 (21)	0.33 (1)	0.11 (1)
Common Five-ring	<i>Ypthima baldus</i>	-	VC	0.11 (1)	0.11 (1)	0.11 (1)				0.11 (1)	0.11 (1)				0.11 (1)	0.22 (1)			0.11 (1)					0.78 (3)		0.22 (1)
Common Mime	<i>Chilasa clytia</i>	-	C												0.22 (2)									0.11 (1)		
Tailed Jay	<i>Graphium agamemnon</i>	-	C			0.22 (1)	0.22 (1)					0.11 (1)												0.22 (1)	0.11 (1)	
Common Jay	<i>Graphium doson</i>	-	C																0.22 (1)					0.11 (1)		
Common Bluebottle	<i>Graphium sarpedon</i>	-	VC				0.11 (1)			0.11 (1)					0.22 (1)				0.11 (1)					0.22 (1)	0.56 (4)	0.11 (1)
Lime Butterfly	<i>Papilio demoleus</i>	-	C												0.11 (1)											
Red Helen	<i>Papilio helenus</i>	-	VC			0.11 (1)							0.11 (1)		0.33 (1)									0.56 (1)	0.22 (1)	
Great Mormon	<i>Papilio memnon</i>	-	VC			0.33 (1)				0.22 (2)									0.11 (1)				0.11 (1)		0.11 (1)	0.11 (1)
Paris Peacock	<i>Papilio paris</i>	-	VC		0.11 (1)										0.33 (2)	0.11 (1)								0.11 (1)	0.11 (1)	
Common Mormon	<i>Papilio polytes</i>	-	VC	0.11 (1)	0.78 (3)	0.44 (2)	0.22 (2)			0.22 (2)	0.11 (1)	0.11 (1)			0.67 (3)	1.67 (4)		0.56 (5)		0.22 (1)	0.11 (1)		0.89 (2)	2(6)	0.89 (3)	1.56 (4)

Common Name	Scientific Name	Conservation Status <sup>1</sup>	Status in HK <sup>2</sup>	PDAs								Assessment Area (excluding PDAs)													
				Developed Area	Dry Agricultural Land	Grassland/Shrubland	Inactive Agricultural Land	Mixed Dry & Wet Agricultural Land	Natural Watercourse	Seasonally Wet Grassland	Secondary woodland	WasteLand	Channelised Watercourse	Developed Area	Dry Agricultural Land	Grassland/Shrubland	Inactive Agricultural Land	Mixed Dry & Wet Agricultural Land	Natural Watercourse	Orchard	Pond	Seasonally Wet Grassland	Secondary woodland	Village Area	WasteLand
Spangle	<i>Papilio protenor</i>	-	VC			0.11 (1)				0.11 (1)	0.11 (1)										0.33 (2)		0.11 (1)		
Five-bar Swordtail	<i>Pathysa antiphates</i>	-	C										0.11 (1)												
Lemon Emigrant	<i>Catopsilia pomona</i>	-	C	0.11 (1)	0.22 (1)	0.11 (1)	0.11 (1)			0.11 (1)			0.22 (1)				0.11 (1)			0.44 (1)	0.11 (1)	0.22 (1)	0.56 (3)		
Mottled Emigrant	<i>Catopsilia pyranthe</i>	-	VC		0.11 (1)																				
Emigrant sp.	<i>Catopsilia</i> sp.	-	-														0.78 (7)			0.44 (4)			1(9)		
Three-spot Grass Yellow	<i>Eurema blanda</i>	-	C										0.22 (2)	0.33 (2)								0.33 (2)			
Common Grass Yellow	<i>Eurema hecabe</i>	-	VC	0.22 (1)		0.11 (1)							0.33 (2)	0.78 (3)				1(8)		0.11 (1)	0.67 (3)	0.56 (2)	0.56 (2)		
Grass Yellow sp.	<i>Eureme</i> sp.	-	-		0.11 (1)		0.11 (1)			0.11 (1)							0.89 (8)				0.89 (8)				
Red-base Jezebel	<i>Delias pasithoe</i>	-	VC	0.11 (1)	0.22 (2)		0.11 (1)			0.11 (1)			0.11 (1)	0.22 (1)		0.56 (5)	0.11 (1)			0.11 (1)	0.44 (2)	0.56 (2)	0.11 (1)		
Great Orange Tip	<i>Hebomoia glaucippe</i>	-	C																		0.11 (1)		0.11 (1)		
Indian Cabbage White	<i>Pieris canidia</i>	-	VC	0.56 (3)	0.33 (1)		0.67 (5)	0.89 (6)		0.33 (3)	0.22 (2)	0.22 (2)	0.33 (2)	1.67 (8)	1.56 (12)	0.11 (1)	1.78 (12)	0.11 (1)	0.11 (1)		0.44 (2)	1.78 (10)	6.78 (21)	3(16)	
<b>Number of species recorded</b>				<b>13</b>	<b>18</b>	<b>18</b>	<b>13</b>	<b>2</b>	<b>1</b>	<b>5</b>	<b>18</b>	<b>12</b>	<b>4</b>	<b>3</b>	<b>22</b>	<b>30</b>	<b>2</b>	<b>3</b>	<b>9</b>	<b>14</b>	<b>1</b>	<b>15</b>	<b>38</b>	<b>24</b>	<b>20</b>
				<b>46</b>								<b>64</b>													

**Notes:**

1 - Status follows Fellowes *et al.* (2002): LC = Local Concern

2 - Status in HK follows Chan *et al.* (2011): VR = Very Rare; R = Rare; UC = Uncommon; C = Common; VC = Very Common.

\* Paintbrush Swift (*Baoris farri*), Colon Swift (*Caltois bromus*) and Dark Swift (*Caltois cohira*) are indistinguishable in field. Paintbrush Swift and Dark Swift are 'Rare' species and Colon Swift is 'Very Rare in Hong Kong (Chan *et al.* 2011).

- Mean number and maximum count of each butterfly species are presented. Mean number represents the average number of butterflies recorded during the survey period, while maximum count refers to the highest number of individuals recorded during the survey period.

**Appendix 8.7b – Butterfly Species Recorded in PDAs and Assessment Area during Additional Survey**

**Mean (Maximum count) of butterfly species recorded in PDAs and Assessment Area during additional survey from January to September 2014**

Common Name	Scientific Name	Conservation Status <sup>1</sup>	Status in HK <sup>2</sup>	PDAs		Assessment Area (excluding PDAs)													
				Channelised Watercourse	Developed Area	Channelised Watercourse	Developed Area	Dry Agricultural Land	Grassland	Grassland/ Shrubland	Inactive Agricultural Land	Natural Watercourse	Orchard	Pond	Reedbed	Grassland	Seasonal Wet	Secondary Woodland	Village Area
Common Hedge Blue	<i>Acytolepis puspa</i>	-	C															0.25(1)	
Long-tailed Blue	<i>Lampides boeticus</i>	-	C					0.5(2)											0.75(3)
Pale Grass Blue	<i>Pseudozizeeria maha</i>	-	VC		0.25(1)	1(2)		1.5(6)			0.25(1)							0.5(1)	0.5(2)
Angled Castor	<i>Ariadne ariadne</i>	-	C								0.5(1)							0.25(1)	
Great Egg-fly	<i>Hypolimnas bolina</i>	-	C															0.25(1)	
Grey Pansy	<i>Junonia atlites</i>	-	C																1(4)
Common Sailer	<i>Neptis hylas</i>	-	VC							0.25(1)								0.25(1)	
Banded Tree Brown	<i>Lethe confusa</i>	-	C											0.25(1)					
Dark-brand Bush Brown	<i>Mycalesis mineus</i>	-	VC					0.5(1)										0.25(1)	
Common Five-ring	<i>Ypthima baldus</i>	-	VC															0.25(1)	
Common Mime	<i>Chilasa clytia</i>	-	C															0.25(1)	
Red Helen	<i>Papilio helenus</i>	-	VC															0.25(1)	
Great Mormon	<i>Papilio memnon</i>	-	VC		0.75(3)													0.25(1)	
Paris Peacock	<i>Papilio paris</i>	-	VC		0.25(1)														
Common Mormon	<i>Papilio polytes</i>	-	VC		0.25(1)		0.5(1)	0.25(1)	1(2)		0.25(1)	0.75(3)	0.25(1)		0.25(1)			1.75(6)	0.5(1)
Spangle	<i>Papilio protenor</i>	-	VC									0.25(1)							
Lemon Emigrant	<i>Catopsilia pomona</i>	-	C				0.5(1)	0.25(1)										0.75(3)	0.25(1)
Common Grass Yellow	<i>Eurema hecabe</i>	-	VC				0.5(1)								0.25(1)			0.5(2)	
Red-base Jezebel	<i>Delias pasithoe</i>	-	VC															0.25(1)	
Indian Cabbage White	<i>Pieris canidia</i>	-	VC	1(2)	0.75(2)	0.5(1)		2(7)	0.5(1)		1(4)	0.5(2)	0.75(2)				0.75(3)	0.25(1)	2.5(9)
<b>Number of species recorded</b>				<b>1</b>	<b>5</b>	<b>2</b>	<b>3</b>	<b>5</b>	<b>3</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>15</b>	<b>6</b>
				<b>5</b>		<b>19</b>													

**Notes:**

1 - Status follows Fellowes *et al.* (2002).

2 - Status in HK follows Chan *et al.* (2011): C = Common; VC = Very Common.

- Mean number and maximum count of each butterfly species are presented. Mean number represents the average number of butterflies recorded during the survey period, while maximum count refers to the highest number of individuals recorded during the survey period.



Common Name	Scientific Name	Conservation Status <sup>1</sup>	Status in HK <sup>2</sup>	PDAs						Assessment Area (excluding PDAs)																
				Natural Watercourse	Dry Agricultural Land	Inactive Agricultural Land	Grassland/Shrubland	Secondary Woodland	Orchard	Developed Area	Natural Watercourse	Channelised Watercourse	Pond	Wet Agricultural Land	Mixed Dry & Wet Agricultural Land	Dry Agricultural Land	Inactive Agricultural Land	Grassland	Grassland/Shrubland	Secondary Woodland	Plantation	Orchard	Village Area	Wasteland	Developed Area	
Royal	<i>iangala</i>										(1)							(3)								
Long-banded Silverline	<i>Spindasis lohita</i>	-	C															0.5 (1)								
Plum Judy	<i>Abisara echerius</i>	-	VC														0.25 (1)									
Tawny Rajah	<i>Charaxes bernardus</i>	-	C										0.25 (1)													
Common Tiger	<i>Danaus genutia</i>	-	C									0.5 (1)		0.25 (1)	1 (2)			0.25 (1)			0.25 (1)			0.25 (1)	0.7 5 (2)	
Blue-spotted Crow	<i>Euploea midamus</i>	-	VC																					0.25 (1)		
Indian Fritillary	<i>Argyreus hyperbius</i>	-	C																		0.25 (1)					
Angled Castor	<i>Ariadne ariadne</i>	-	C									0.5 (2)		0.75 (2)		1.25 (5)	0.25 (1)							0.75 (3)		
White-edged Blue Baron	<i>Euthalia phemius</i>	-	C															0.25 (1)								
Great Egg-fly	<i>Hypolimnas bolina</i>	-	C						0.75 (3)				0.75 (3)	0.5 (1)				2 (5)			0.25 (1)	0.25 (1)				
Common Sailer	<i>Neptis hylas</i>	-	VC		1 (2)	0.5 (2)		0.5 (2)	0.5 (2)	0.25 (1)				0.5 (1)	0.25 (1)	0.75 (3)	0.5 (2)	4.25 (5)								
Indian Red Admiral	<i>Vanessa indica</i>	-	UC															0.25 (1)								
Dark Evening Brown	<i>Melanitis phedima</i>	-	UC																					0.2 5 (1)		
Dark-brand Bush Brown	<i>Mycalesis mineus</i>	-	VC					1 (4)	1.25 (5)					0.25 (1)				5.25 (8)	0.75 (3)		0.25 (1)					
South China Bush Brown	<i>Mycalesis zonata</i>	-	C					0.25 (1)										0.75 (3)								
Common Five-ring	<i>Ypthima baldus</i>	-	VC					0.5 (2)	1.25 (5)								0.75 (3)	4 (6)			0.25 (1)					
Straight Five-ring	<i>Ypthima lisandra</i>	-	C															1 (4)								
Tailed Jay	<i>Graphium agamemnon</i>	-	C					0.25 (1)				0.25 (1)					0.25 (1)	0.25 (1)								
Common Bluebottle	<i>Graphium sarpedon</i>	-	VC											0.25 (1)				0.5 (2)								
Red Helen	<i>Papilio helenus</i>	-	VC															0.75 (2)								
Great Mormon	<i>Papilio memnon</i>	-	VC					0.25 (1)										1.75 (2)						0.25 (1)		
Common Mormon	<i>Papilio polytes</i>	-	VC	0.25 (1)		0.5 (2)		0.5 (2)	0.5 (2)	1.25 (5)		0.25 (1)		1 (4)	1.5 (3)	0.25 (1)	0.25 (1)	0.75 (3)	4.5 (5)	0.25 (1)		0.5 (1)			1 (3)	
Spangle	<i>Papilio protenor</i>	-	VC			0.25 (1)		0.25 (1)	0.25 (1)									1.75 (3)								

Common Name	Scientific Name	Conservation Status <sup>1</sup>	Status in HK <sup>2</sup>	PDAs						Assessment Area (excluding PDAs)															
				Natural Watercourse	Dry Agricultural Land	Inactive Agricultural Land	Grassland/Shrubland	Secondary Woodland	Orchard	Developed Area	Natural Watercourse	Channelised Watercourse	Pond	Wet Agricultural Land	Mixed Dry & Wet Agricultural Land	Dry Agricultural Land	Inactive Agricultural Land	Grassland	Grassland/Shrubland	Secondary Woodland	Plantation	Orchard	Village Area	Wasteland	Developed Area
Swallowtail	<i>Papilio xuthus</i>	-	R						0.25 (1)	0.25 (1)															
Lemon Emigrant	<i>Catopsilia pomona</i>	-	C		0.25 (1)			0.25 (1)		1.5 (6)		0.25 (1)	0.25 (1)		1.75 (7)	1.5 (3)	0.5 (2)		0.75 (3)	1.5 (5)			0.5 (1)	1.25 (3)	2.25 (4)
Common Grass Yellow	<i>Eurema hecabe</i>	-	VC		3 (6)	1.25 (5)	0.75 (2)	0.5 (2)	0.5 (2)	1.25 (5)	0.5 (2)	0.5 (2)		0.75 (3)	3.25 (5)		0.75 (3)	0.75 (3)	1.75 (5)		0.5 (2)	0.75 (2)	2.75 (5)		
Red-base Jezebel	<i>Delias pasithoe</i>	-	VC		0.25 (1)			0.25 (1)	1.25 (5)	0.25 (1)								0.25 (1)	0.75 (3)			0.5 (2)	0.5 (2)	0.5 (2)	
Great Orange Tip	<i>Hebomoia glaucippe</i>	-	C												0.25 (1)										
Indian Cabbage White	<i>Pieris canidia</i>	-	VC		2.25 (5)	0.75 (3)	0.5 (2)	0.25 (1)	0.5 (2)	1.25 (5)	0.5 (2)	1.25 (2)			3.5 (6)	0.5 (2)	0.5 (2)		1.5 (2)	0.5 (1)	0.5 (1)	1.25 (3)	3.5 (5)	1.75 (4)	
Small Cabbage White	<i>Pieris rapae</i>	-	R								0.25 (1)														
<b>Number of species recorded</b>				<b>3</b>	<b>7</b>	<b>5</b>	<b>4</b>	<b>15</b>	<b>13</b>	<b>10</b>	<b>4</b>	<b>7</b>	<b>2</b>	<b>2</b>	<b>4</b>	<b>13</b>	<b>4</b>	<b>6</b>	<b>10</b>	<b>36</b>	<b>5</b>	<b>3</b>	<b>13</b>	<b>12</b>	<b>7</b>
				<b>22</b>						<b>47</b>															

1 - Status follows Fellowes *et al.* (2002): LC = Local Concern; RC = Regional Concern

2 - Status in HK follows Chan *et al.* (2011): VC = Very Common; C = Common; UC = Uncommon; R = Rare; VR = Very Rare.

- Mean number and maximum count of each butterfly species are presented. Mean number represents the average number of butterflies recorded during the survey period, while maximum count refers to the highest number of individuals recorded during the survey period.