

Appendix 8 Ecological Baseline Survey

A8.1 Line Transect VT2 Wet Season Woody Survey

Location: VT2 near Lo Wu KCR Station (30 m from the river)

Date: 12 August 1998

Recorder: Vincent Chen and Hui Yuk Hung

Weather: Sunny / Cloudy / Rains: (Shower / Moderate / Heavy): Occasional rain to sunny periods, 25–30°C

Wind: Breeze / Moderate / Strong: Moderate gusty southerly winds

Plant No.	Distance along transect (m)	Scientific name of species	DBH (cm)	CD (cm)	Height (cm)
1	0	<i>Artemisia lactiflora</i>	1	60	150
2	5.1	<i>Desmodium heterocarpon</i>		20	40
	6.6–18.0	Border Road			
3	19.3	<i>Eurya chinensis</i>		50	60
4	21.3	<i>Cinnamomum camphora</i>	1	20	140
5	22.3	<i>Smilax china</i>		40	100
6	24.2	<i>Rhus chinensis</i>		80	110
7	25.4	<i>Smilax china</i>		200	110
8	28.8	<i>Evodia lepta</i>	1.5	200	260
9	29.9	<i>Trema orientalis</i>	1	60	200
10	32.9	<i>Mallotus apelta</i>	0.5	40	140
11	33.4	<i>Broussonetia papyrifera</i>		20	120
12	34.5	<i>Rhus chinensis</i>	1	40	150
13	36.9	<i>Rhus chinensis</i>		20	100
14	38.0	<i>Rhus chinensis</i>	0.5	10	140
15	39.0	<i>Embelia laeta</i>		25	80
16	41.6	<i>Embelia laeta</i>		15	70
17	41.7	<i>Rhodomyrtus tomentosa</i>	1.5	15	140
18	43.5	<i>Rhus chinensis</i>		15	100
19	44.3	<i>Breynia fruticosa</i>		40	120
20	44.8	<i>Rhaphiolepis indica</i>		10	100
21	47.3	<i>Rhus chinensis</i>		40	110
22	48.5	<i>Rhodomyrtus tomentosa</i>	1.5	30	140

Plant No.	Distance along transect (m)	Scientific name of species	DBH (cm)	CD (cm)	Height (cm)
23	49.1	<i>Rhodomyrtus tomentosa</i>		25	120
24	50.6	<i>Rhodomyrtus tomentosa</i>		15	120
25	53.2	<i>Rhodomyrtus tomentosa</i>	1.5	30	140
26	54.5	<i>Acacia confusa</i>	5	180	220
27	58.0	<i>Rhodomyrtus tomentosa</i>		40	110
28	61.0	<i>Rhodomyrtus tomentosa</i>	2	60	140
29	63.2	<i>Rhaphiolepis indica</i>		25	110
30	64.8	<i>Rhodomyrtus tomentosa</i>		30	120
31	66.0	<i>Baeckea frutescens</i>		40	120
32	67.5	<i>Rhodomyrtus tomentosa</i>		20	120
33	69.2	<i>Rhodomyrtus tomentosa</i>		20	90
34	69.4	<i>Baeckea frutescens</i>		10	80
35	69.9	<i>Rhodomyrtus tomentosa</i>		10	80
36	70.9	<i>Baeckea frutescens</i>		20	70
37	71.4	<i>Baeckea frutescens</i>		40	90
38	71.9	<i>Baeckea frutescens</i>		30	80
39	72.9—74.8	<i>Baeckea frutescens</i>		20	80
40	75.3	<i>Baeckea frutescens</i>		10	50
41	78.4	<i>Baeckea frutescens</i>		10	60
42	78.7	<i>Baeckea frutescens</i>		10	30
43	79.5	<i>Baeckea frutescens</i>		25	80
44	80.6	<i>Baeckea frutescens</i>		20	70
45	81.2	<i>Baeckea frutescens</i>		30	80
46	82.1	<i>Baeckea frutescens</i>		40	100
47	83.2	<i>Baeckea frutescens</i>		15	80
48	83.7	<i>Rhodomyrtus tomentosa</i>		15	110
49	84.1	<i>Baeckea frutescens</i>		10	120
50	84.3	<i>Baeckea frutescens</i>		10	100
51	84.9	<i>Rhodomyrtus tomentosa</i>		40	100
52	85.5	<i>Rhodomyrtus tomentosa</i>		20	80
53	86.2	<i>Baeckea frutescens</i>		20	100
54	86.6	<i>Baeckea frutescens</i>		15	100
55	87.3	<i>Tristania conferta</i>	3	80	220
56	91.1	<i>Baeckea frutescens</i>		20	80
57	97.0	<i>Baeckea frutescens</i>		30	90
58	99.0	<i>Tristania conferta</i>	5	80	340
59	100.0	<i>Rhodomyrtus tomentosa</i>		20	70

DBH = diameter at breast height, CD = crown diameter

A8.2 Line Transect VT2 Dry Season Woody Survey

Location: VT2 near Lo Wu KCR Station (30 m from the river)

Date: 14 Dec. 1998

Recorder: Vincent Chen and Hui Yuk Hung

Weather: Sunny / Cloudy / Rains: (Shower / Moderate / Heavy): Cloudy with patches of rain, 15–18°C

Wind: Breeze / Moderate / Strong: Moderate to fresh northerly winds.

Plant No.	Distance along transect (m)	Scientific name of species	DBH (cm)	CD (cm)	Height (cm)
1	0.3	<i>Desmodium heterocarpon</i>		50	50
	8–20	Border Road			
2	22.2	<i>Litsea rotundifolia</i>		5	20
3	23.2	<i>Aporosa dioica (chinensis)</i>	0.5	15	140
4	23.2	<i>Lantana camara</i>	0.5	15	160
5	26.9	<i>Smilax china</i>		50	100
6	30.0	<i>Rhus chinensis</i>	0.5	50	160
7	31.6	<i>Helicteres angustifolia</i>	0.5	80	180
8	33.3	<i>Mallotus apelta</i>	0.7	30	160
9	35.0	<i>Rhus chinensis</i>		20	100
10	38.0	<i>Broussonetia papyrifera</i>	0.5	15	140
11	37.1	<i>Embelia laeta</i>		15	70
12	38.5	<i>Rhus chinensis</i>		30	90
13	39.0	<i>Rhus chinensis</i>		30	150
14	42.0	<i>Embelia laeta</i>		40	110
15	43.0	<i>Rhodomyrtus tomentosa</i>		10	145
16	44.8	<i>Rhodomyrtus tomentosa</i>		15	100
17	45.1	<i>Rhus chinensis</i>		10	100
18	45.9	<i>Breynia fruticosa</i>	0.5	10	140
19	48.8	<i>Rhus chinensis</i>		30	100
20	50.1	<i>Rhodomyrtus tomentosa</i>		15	60
21	51.8	<i>Rhodomyrtus tomentosa</i>		30	100
22	55.8	<i>Acacia confusa</i>	2.0	150	250
23	59.6	<i>Rhodomyrtus tomentosa</i>		15	90

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Plant No.	Distance along transect (m)	Scientific name of species	DBH (cm)	CD (cm)	Height (cm)
24	59.8	<i>Rhodomyrtus tomentosa</i>		15	120
25	60.7	<i>Embelia laeta</i>		10	100
26	61.5	<i>Smilax china</i>	0.6	30	140
27	66.7	<i>Rhodomyrtus tomentosa</i>		40	110
28	67.8	<i>Baeckea frutescens</i>	0.8	50	150
29	68.3	<i>Rhodomyrtus tomentosa</i>		15	120
30	68.5	<i>Baeckea frutescens</i>		13	100
31	69.2	<i>Rhodomyrtus tomentosa</i>		100	120
32	70.7	<i>Baeckea frutescens</i>		30	100
33	71.0	<i>Rhodomyrtus tomentosa</i>		15	90
34	72.6	<i>Baeckea frutescens</i>		10	100
35	72.9	<i>Baeckea frutescens</i>	0.5	15	130
36	73.4	<i>Baeckea frutescens</i>		10	100
37	74.5	<i>Baeckea frutescens</i>		25	80
38	75.1	<i>Baeckea frutescens</i>		10	80
39	75.4	<i>Baeckea frutescens</i>		10	90
40	76.1	<i>Baeckea frutescens</i>		50	90
41	76.9	<i>Baeckea frutescens</i>		11	90
42	78.6	<i>Baeckea frutescens</i>	0.5	20	130
43	79.1	<i>Rhodomyrtus tomentosa</i>		10	80
44	81.5	<i>Baeckea frutescens</i>		12	90
45	82.2	<i>Baeckea frutescens</i>		12	90
46	83.2	<i>Baeckea frutescens</i>		10	110
47	83.8	<i>Baeckea frutescens</i>		15	120
48	85.2	<i>Rhodomyrtus tomentosa</i>		15	120
49	85.8	<i>Baeckea frutescens</i>	0.5	15	130
50	86.4	<i>Baeckea frutescens</i>		20	120
51	86.4	<i>Rhodomyrtus tomentosa</i>	0.7	20	140
52	87.8	<i>Baeckea frutescens</i>		15	100
53	86.3	<i>Rhodomyrtus tomentosa</i>	0.6	10	140
54	89.0	<i>Tristania conferta</i>	3.0	90	340
55	90.2	<i>Baeckea frutescens</i>		13	120
56	92.7	<i>Baeckea frutescens</i>		15	80
57	97.0	<i>Rhodomyrtus tomentosa</i>		15	120
58	99.3	<i>Rhodomyrtus tomentosa</i>		20	100

DBH = diameter at breast height, CD = crown diameter

A8.3 Line Transect VT1 Wet Season Woody Survey

Location: VT1 near Muk Wu Village

Date: 14 August 1998

Recorder: Vincent Chen and Hui Yuk Hung

Weather: Sunny / Cloudy / Rains; (Shower / Moderate / Heavy): 1–2 isolated showers, 28–33 C

Wind: Breeze / Moderate / Strong: Light to moderate southerly winds

Plant No.	Distance along transect(m)	Scientific name of species	DBH (cm)	CD (cm)	Height (cm)
	0–4.1	Border Road			
1	15.0	<i>Macaranga tanarius</i>	12	500	250
2	53.4	<i>Celtis sinensis</i>	10	600	200
3	55.5	<i>Lantana camara</i>	1	100	160
4	63.8	<i>Celtis sinensis</i>	5	200	170
5	71.3	<i>Celtis sinensis</i>	2	150	220
6	72.2	<i>Celtis sinensis</i>	15	550	600
7	72.4	<i>Litsea monopetala</i>	1	150	180
8	84.7	<i>Celtis sinensis</i>	2	150	160
9	85.5	<i>Celtis sinensis</i>	6	600	450
10	90.2	<i>Celtis sinensis</i>	5	200	190
11	94.2	<i>Celtis sinensis</i>	6	350	400
12	94.9	<i>Celtis sinensis</i>	1.5	200	250
13	97.8	<i>Celtis sinensis</i>	4	350	370
14	98.7	<i>Celtis sinensis</i>	1	150	160
15	99.1	<i>Celtis sinensis</i>	4	200	380
16	99.8	<i>Celtis sinensis</i>	1	20	180
17	100	<i>Celtis sinensis</i>	3	150	300

DBH = diameter at breast height, CD = crown diameter

A8.4 Line Transect VT1 Dry Season Woody Survey

Location: VT1 near Muk Wu Tsuen

Date: 15 December 1999

Recorder: Vincent Chen and Hui Yuk Hung

Weather: Sunny / Cloudy / Rains: (Shower / Moderate / Heavy): Cloudy with rain patches at first, 13–16 °C

Wind: Breeze / Moderate / Strong: Fresh northerly winds, strong offshore and on high ground

Plant No.	Distance along transect (m)	Scientific name of species	DBH (cm)	CD (cm)	Height (cm)
	0–4.0	Border Road			
1	55.7	<i>Celtis sinensis</i>	10.0	300	200
2	57.0	<i>Celtis sinensis</i>	0.8	100	180
3	62.5	<i>Lantana camara</i>		30	80
4	64.6	<i>Celtis sinensis</i>	7.0	400	350
5	69.2	<i>Macaranga tanarius</i>	3.0	150	200
6	70.0	<i>Celtis sinensis</i>	5.0	250	250
7	72.0	<i>Celtis sinensis</i>	6.0	300	500
8	73.1	<i>Litsea monopetala</i>	5.0	200	250
9	73.8	<i>Celtis sinensis</i>	15.0	200	600
10	77.4	<i>Lantana camara</i>		50	90
11	86.8	<i>Celtis sinensis</i>	8.0	300	400
12	89.0	<i>Celtis sinensis</i>	2.0	120	200
13	90.7	<i>Celtis sinensis</i>	5.0	130	220
14	95.0	<i>Celtis sinensis</i>	6.0	200	400
15	95.6	<i>Celtis sinensis</i>	2.0	130	230
16	98.7	<i>Celtis sinensis</i>	3.0	130	250
17	99.6	<i>Celtis sinensis</i>	1.5	70	180
18	99.9	<i>Celtis sinensis</i>	4.0	150	400

DBH = diameter at breast height, CD = crown diameter

Appendix 8.5 Calculation of Observed Frequency (OF) and Species Richness (SR)

The calculation for SR, OF, tOF, AOF is best illustrated with sample data and is illustrated below.

Species	Time Round	R1	R1	R1	R2	R2	R2	R2	Row Total	Row Ave, R1	Row Ave, R2
Sp. 1	4	10	2	3	6	2	3	4	36	7.7	4.3
Sp. 2	0	5	6	2	2	10	2	2	25	3.7	4.7
Sp. 3	8	6	8	0	0	0	5	0	27	7.3	1.7
Sp. 4	3	1	8	0	0	1	0	0	13	4.0	0.3
Sp. 5	9	8	1	0	0	0	0	0	18	6.0	0
Sp. 6	1	5	3	4	4	0	9	0	22	3.0	4.3
Column Total	25	35	35	12	14	20	141	6	31.7	15.3	
Taxa	5	6	6	3	3	4	6	6			

- SR : Species Richness (=number of species)
- OF: Observed Frequency (=Counts)
- tOF: Total Observed Frequency
- AOF: Average Observed Frequency
- tAOF: Total Average Observed Frequency

Scientific Name	Time		R1		R1		R1		R1		R1		R2		R2		R2		R2		R2		R3		R3		R3	
	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2
<i>Tringa totanus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Turdus hortulorum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Urosissa erythrorhyncha</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Urosphena squameiceps</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Zosterops japonica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Anas spp.</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Apus spp.</i>	1	2	4	7	0	0	0	0	0	0	0	0	0	3	1	6	0	0	0	0	0	0	0	0	0	0	1	3
<i>Pycnonotus spp.</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Bunting (UNID)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Flycatcher (UNID)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Warblers (UNID)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
UNID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
No. of Species *	8	12	18	16	4	8	10	13	10	10	13	15	16	14	15	19	9	11	13	13	9	12	10	13	14	12	14	21
Total Counts	24	37	53	42	8	18	27	27	19	38	44	36	60	42	54	61	24	36	35	39	13	36	24	40	64	40	57	94

* Excluding Birds not identified down to speccies level (i.e. last 7 record)
UNID : unidentified

Time: Please Refer to Table A7.2.2 for the exact survey date.

R1: First Wet Season Survey

R3: Third Wet Season Survey

R5: Second Dry Season Survey

R2: Second Wet Season Survey

R4: First Dry Season Survey

R6: Third Dry Season Survey

Scientific Name	R3		R3		R3		R4		R4		R4		R4		R4		R5		R5		R5		R5	
	T2	T3	T2	T3	T2	T3	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2
<i>Acridotheres cristatellus</i>	0	0	0	0	0	0	15	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Actitis hypoleucos</i>	0	0	0	0	0	0	1	2	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Alcedo atthis</i>	0	0	0	1	0	0	1	1	2	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
<i>Amaurornis phoenicurus</i>	3	0	1	1	0	1	0	2	2	3	2	5	2	5	0	0	0	0	0	0	0	0	0	0
<i>Anthus cervinus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Anthus richardi</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Apus pacificus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ardea cinerea</i>	0	0	0	0	0	0	3	4	1	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0
<i>Ardeola bacchus</i>	14	8	6	1	9	6	4	7	7	24	7	5	3	5	0	0	0	0	0	0	0	0	0	0
<i>Botaurus stellaris</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Bubulcus ibis</i>	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Casmerodius albus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Centropus sinensis</i>	0	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ceryle rudis</i>	0	0	0	0	0	0	0	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Charadrius dubius</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Circus spilonotus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Copsychus saularis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Corvus macrorhynchos</i>	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Corvus macrocorvus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cuculus micropterus</i>	5	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Dicrurus macrocerus</i>	1	0	1	0	0	1	1	0	2	1	2	4	0	2	0	0	0	0	0	0	0	0	0	0
<i>Egretta garzetta</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Emberiza yessoensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Eudynamis scolopacea</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Gallinago gallinago</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Gallinula chloropus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Garrulax canorus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Garrulax perspicillatus</i>	4	0	0	1	0	5	0	1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Halcyon smyrnensis</i>	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Himantopus himantopus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Hirundo rustica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ixobrychus sinensis</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Scientific Name	R3		R3		R3		R4		R4		R4		R4		R5		R5		R5					
	T2	T3	T2	T3	T2	T3	T1	T2	T1	T2	T1	T2	T3	T1	T2	T1	T2	T3	T1	T2	T3			
<i>Lanius schach</i>	1	1	1	0	0	2	1	0	3	5	1	0	0	1	0	0	1	0	1	0	1	2	3	2
<i>Limodromus scolopaceus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Locustella certhiola</i>	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Locustella lanceolata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0
<i>Lonchura punctulata</i>	12	16	14	0	0	0	0	0	0	0	0	0	0	0	0	0	40	30	27	0	0	0	0	0
<i>Lonchura striata</i>	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0
<i>Milvus lineatus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Motacilla alba</i>	0	1	2	1	8	4	16	0	4	5	3	1	1	0	2	4	1	9	1	1	1	0	3	1
<i>Motacilla flava</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Nycticorax nycticorax</i>	0	0	0	3	9	5	0	1	2	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Oriolus chinensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Parus major</i>	0	0	0	0	0	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Passer montanus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Phalacrocorax carbo</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0
<i>Phylloscopus inornatus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pica pica</i>	2	0	0	0	0	0	1	1	2	0	0	0	0	0	0	0	0	0	1	0	1	0	2	0
<i>Pluvialis squatarola</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Prinia flaviventris</i>	0	0	3	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Prinia inornata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
<i>Pycnonotus aurigaster</i>	0	0	0	0	1	6	1	1	0	0	5	1	0	0	0	0	1	5	4	10	15	0	0	0
<i>Pycnonotus jocosus</i>	6	0	2	10	0	0	3	0	7	1	0	0	8	0	0	0	2	0	0	0	0	0	0	0
<i>Pycnonotus sinensis</i>	5	0	0	10	11	0	0	0	0	0	0	0	0	0	0	3	0	0	4	3	0	25	0	
<i>Saxicola maura</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
<i>Streptopelia chinensis</i>	5	0	1	0	2	0	2	0	4	13	3	2	6	0	1	0	5	3	4	16	3	4	0	0
<i>Streptopelia orientalis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	26	0	0	
<i>Streptopelia tranquebarica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Sturnus cineraceus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Sturnus nigricollis</i>	2	0	0	0	0	0	1	0	3	1	3	0	2	0	2	1	4	5	1	1	12	0	0	
<i>Sturnus sericeus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	200	0	0	0	
<i>Sturnus sinensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	200	0	0	0	
<i>Sturnus sturninus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	
<i>Tringa glareola</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	
<i>Tringa stagnatilis</i>	0	0	0	0	0	0	0	0	0	19	0	0	13	8	2	0	0	0	0	0	0	0	0	

Scientific Name	Time Transect Round	R5	R5	R6	R6	R6	R6	R6	R6	R6	R6	R6	R6	R6	R6
		T3	T3	T1	T1	T1	T1	T2	T2	T2	T2	T3	T3	T3	T3
<i>Acridotheres cristatellus</i>		0	2	1	2	0	0	0	0	0	0	0	1	1	0
<i>Actitis hypoleucos</i>		0	0	3	2	0	3	3	0	1	2	0	0	0	0
<i>Alcedo atthis</i>		0	0	1	0	0	0	0	0	0	0	0	0	0	0
<i>Amaurornis phoenicurus</i>		0	0	1	0	0	0	1	0	3	2	0	0	0	0
<i>Anthus cervinus</i>		2	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Anthus richardi</i>		0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Apus pacificus</i>		0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ardea cinerea</i>		0	0	1	2	3	1	0	0	0	0	0	0	0	0
<i>Ardeola bacchus</i>		0	1	2	0	4	6	4	1	4	5	2	0	0	0
<i>Botaurus stellaris</i>		0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Bubulcus ibis</i>		0	0	1	0	0	4	0	0	0	0	0	0	0	0
<i>Casmerodius albus</i>		0	0	2	6	0	0	0	0	0	0	0	0	0	0
<i>Centropus sinensis</i>		0	0	1	0	0	0	1	0	0	0	0	0	0	0
<i>Ceryle rudis</i>		0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Charadrius dubius</i>		0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Circus spilonotus</i>		0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Copsychus saularis</i>		0	0	0	1	0	0	0	0	2	1	0	0	0	0
<i>Corvus macrorhynchos</i>		0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cuculus micropterus</i>		0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Dicrurus macrocercus</i>		0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Egretta garzetta</i>		0	0	1	0	0	0	0	0	0	1	0	0	0	0
<i>Emberiza yessoensis</i>		0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Eudynamis scolopacea</i>		0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Gallinago gallinago</i>		0	0	0	8	4	3	0	0	0	0	0	0	0	0
<i>Gallinula chloropus</i>		0	0	0	1	2	2	0	0	0	0	0	0	0	0
<i>Garrulax canorus</i>		0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Garrulax perspicillatus</i>		0	2	0	3	0	0	0	5	5	0	3	0	5	0
<i>Halcyon smyrnensis</i>		0	1	1	0	0	0	0	0	0	0	0	0	0	0
<i>Himantopus himantopus</i>		0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Hirundo rustica</i>		0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ixobrychus sinensis</i>		0	0	0	0	0	0	0	0	0	0	0	0	0	0

Scientific Name	Time Transect Round	R5	R5	R6	R6	R6	R6	R6	R6	R6	R6	R6	R6	R6	R6	
		T3	T3	T1	T1	T1	T1	T2	T2	T2	T2	T2	T3	T3	T3	T3
		3	4	1	2	3	4	1	2	3	4	1	2	3	4	
<i>Lanius schach</i>		0	3	3	1	0	1	0	0	1	0	1	1	0	1	
<i>Limnodromus scolopaceus</i>		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Locustella certhiola</i>		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Locustella lanceolata</i>		0	0	0	0	0	0	0	0	0	0	2	0	0	0	
<i>Lonchura punctulata</i>		0	0	0	0	1	0	0	0	0	7	0	2	0	8	
<i>Lonchura striata</i>		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Milvus lineatus</i>		0	0	2	0	0	0	0	1	0	0	0	0	0	0	
<i>Motacilla alba</i>		3	3	2	1	2	0	3	0	2	0	3	3	2	0	
<i>Motacilla flava</i>		0	0	2	0	0	0	0	0	0	0	0	0	0	0	
<i>Nycticorax nycticorax</i>		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Oriolus chinensis</i>		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Parus major</i>		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Passer montanus</i>		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Phalacrocorax carbo</i>		0	0	1	0	2	0	0	0	0	0	0	0	0	0	
<i>Phylloscopus inornatus</i>		0	0	0	0	0	0	0	0	0	2	0	0	0	0	
<i>Pica pica</i>		0	0	2	2	0	2	0	3	0	0	2	0	1	0	
<i>Pluvialis squatarola</i>		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Prinia flaviventris</i>		1	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Prinia inornata</i>		0	0	2	0	0	0	1	0	2	2	0	0	0	0	
<i>Pycnonotus aurigaster</i>		5	7	13	5	4	4	0	8	0	0	11	0	3	1	
<i>Pycnonotus jocosus</i>		10	3	0	2	0	0	0	0	0	0	0	4	4	0	
<i>Pycnonotus sinensis</i>		0	0	0	1	8	0	0	0	14	10	0	10	0	0	
<i>Saxicola maura</i>		1	1	1	0	1	1	1	0	1	2	2	2	1	3	
<i>Streptopelia chinensis</i>		0	8	1	5	2	26	3	0	0	0	0	5	8	8	
<i>Streptopelia orientalis</i>		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Streptopelia tranquebarica</i>		0	0	0	18	0	0	0	0	0	0	0	0	0	0	
<i>Sturnus cineraceus</i>		0	0	0	1	0	0	0	0	0	0	0	0	0	0	
<i>Sturnus nigricollis</i>		0	0	1	21	0	1	0	0	0	0	0	0	4	0	
<i>Sturnus sericeus</i>		0	100	10	500	30	15	0	0	0	0	0	10	0	0	
<i>Sturnus sinensis</i>		0	100	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Sturnus sturninus</i>		0	0	0	0	0	0	0	0	0	0	6	0	0	0	
<i>Tringa glareola</i>		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Tringa stagnatilis</i>		0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Scientific Name	Time Transect Round	R5	R5	R6	R6	R6	R6	R6	R6	R6	R6	R6	R6	R6	R6
		T3	T3	T1	T1	T1	T1	T2	T2	T2	T2	T3	T3	T3	T3
<i>Tringa totanus</i>		0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Turdus hortulorum</i>		0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Urocissa erythrorhyncha</i>		0	1	0	0	0	0	0	0	0	0	0	0	2	0
<i>Urosphena squameiceps</i>		0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Zosterops japonica</i>		0	0	1	0	0	0	0	0	0	0	0	0	0	0
<i>Anas</i> spp.		0	0	1	0	0	0	0	0	0	0	0	0	0	0
<i>Apus</i> spp.		0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pycnonotus</i> spp.		0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bunting (UNID)		0	0	0	0	0	0	0	1	0	0	0	0	0	0
Flycatcher (UNID)		0	0	0	0	0	0	0	0	0	0	0	0	0	0
Warblers (UNID)		0	0	0	0	0	0	0	0	0	0	0	0	0	0
UNID		0	0	0	0	0	0	0	0	0	0	0	0	0	0
No. of Species *		6	13	24	19	12	13	8	6	10	10	8	10	10	5
Total Counts		22	232	57	582	63	69	17	20	35	34	26	39	31	21

Type	Scientific Name	Time																							
		Transect		R1		R1		R1		R1		R1		R2		R2		R2		R2		R2		R2	
		T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2
B	<i>Papilio paris</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B	<i>Papilio polytes</i>	6	0	3	0	4	0	1	0	0	0	0	9	1	1	0	0	0	0	0	0	0	0	0	
B	<i>Papilio sp.</i>	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B	<i>Potanthus sp.</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B	<i>Spindasis lohita</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B	<i>Tagiades litigiosus</i>	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B	<i>Udaspes folus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B	<i>Ypthima lisandra</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B	<i>Zizeeria maha</i>	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B	UNID	12	1	8	4	5	2	5	0	3	0	0	2	4	0	1	0	0	0	0	0	0	0	0	
Dm	<i>Agriocnemis femina oryzae</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Dm	<i>Copera marginipes</i>	0	0	0	0	4	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Dm	<i>Ischnura senegalensis</i>	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Dm	<i>Onychargia atrocyana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Dm	UNID	2	0	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Dr	<i>Brachythemis contaminata</i>	0	0	0	2	4	16	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Dr	<i>Crocothemis servilia servilia</i>	0	1	1	1	5	8	5	9	0	7	2	6	0	0	0	0	0	0	0	0	0	0	0	
Dr	<i>Ictinogomphus pertinax</i>	0	0	2	2	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Dr	<i>Neurothemis tullia tullia</i>	2	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	
Dr	<i>Orithetrum luzonicum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Dr	<i>Orithetrum pruinosum neglectum</i>	0	0	0	1	3	0	0	0	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	
Dr	<i>Orithetrum sabina sabina</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	
Dr	<i>Palpopleura sexmaculata sexmaculata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Dr	<i>Pantala flavescens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Dr	<i>Pseudothemis zonata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Dr	<i>Rhyothemis variegata arria</i>	1	1	1	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Dr	<i>Tetracanthagyna waterhousei</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Dr	<i>Tramea virginia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Dr	<i>Triethemis aurora</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	
Dr	<i>Triethemis festiva</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Dr	<i>Zygonyx sp.</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Type	Scientific Name	Time																							
		R2		R3		R3		R3		R3		R3		R3		R4		R4		R4		R4		R4	
		T3	T1	T3	T1	T3	T1	T3	T1	T3	T1	T3	T1	T3	T1	T3	T1	T3	T1	T3	T1	T3	T1	T3	
B	<i>Abisara echerius</i>	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B	<i>Ariadne ariadne</i>	2	4	0	0	2	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B	<i>Artoegeta sp.</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B	<i>Artoegeta canidia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B	<i>Athyma perius</i>	0	1	0	6	32	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B	<i>Catopsilia pomona</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B	<i>Chilades lajus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B	<i>Chilasa clytia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B	<i>Curetis dentata</i>	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B	<i>Danaus genutia</i>	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B	<i>Delias pasithoe</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B	<i>Euploea core</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B	<i>Euploea midamus</i>	0	7	1	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B	<i>Euploea sp.</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B	<i>Eurema hecabe</i>	0	8	3	8	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B	<i>Faunis eumeus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B	<i>Graphium agamemnon</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B	<i>Graphium doson</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B	<i>Graphium sarpedon</i>	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B	<i>Graphium sp.</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B	<i>Heliothorus epicles</i>	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B	<i>Hypolimnas bolina</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B	<i>Junonia almana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B	<i>Junonia alites</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B	<i>Junonia orithya</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B	<i>Lampides boeticus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B	<i>Matapa aria</i>	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B	<i>Mycalopsis mineus</i>	1	0	5	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B	<i>Papilio demoleus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B	<i>Papilio helenus</i>	0	0	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B	<i>Papilio memnon</i>	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Type	Scientific Name	Time																				
		R2		R3		R3		R3		R3		R3		R3		R4		R4		R4		
Transect	Round	T3	T1	T3	T1	T3	T1	T3	T1	T3	T1	T3	T1	T3	T1	T3	T1	T3	T1	T3	T1	T3
B	<i>Papilio paris</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	<i>Papilio polytes</i>	0	1	12	1	0	0	0	0	2	0	1	0	19	3	18	17	5	0	0	0	1
B	<i>Papilio sp</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	<i>Potanthus sp</i>	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0
B	<i>Spindasis lohita</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
B	<i>Tagiades litigiosus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
B	<i>Udaspes folus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	<i>Ypthima lisandra</i>	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0
B	<i>Zizeeria maha</i>	19	1	0	0	1	0	3	0	0	0	1	1	3	1	2	7	0	0	0	1	13
B	UNID	3	5	1	9	2	6	1	4	0	0	3	2	0	3	0	1	0	0	1	1	1
Dm	<i>Agriocnemis femina oryzae</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dm	<i>Copeia marginipes</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dm	<i>Ischnura senegalensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dm	<i>Onychargia atrocyana</i>	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dm	UNID	0	0	0	0	0	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0
Dr	<i>Brachythemis contaminata</i>	0	0	0	0	0	0	0	1	4	0	0	0	0	0	0	0	0	0	0	1	0
Dr	<i>Crocothemis servilia servilia</i>	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dr	<i>Ictinogomphus pertinax</i>	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dr	<i>Neurothemis tullia tullia</i>	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dr	<i>Orthetrum luzonicum</i>	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dr	<i>Orthetrum pruinosum neglectum</i>	1	0	0	1	0	2	3	1	0	0	0	0	1	0	0	0	7	1	0	0	3
Dr	<i>Orthetrum sabina sabina</i>	0	1	0	2	4	1	1	1	1	1	0	2	0	0	1	0	2	1	1	0	2
Dr	<i>Palpopleura sexmaculata sexmaculata</i>	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dr	<i>Pantala flavescens</i>	0	5	95	7	0	15	41	0	3	27	1	79	0	20	9	20	36	3	50	28	44
Dr	<i>Pseudothemis zonata</i>	0	0	0	2	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dr	<i>Rhyothemis variegata arria</i>	0	1	0	2	0	1	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0
Dr	<i>Tetracanthagyna waterhousei</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dr	<i>Tramea virginia</i>	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	2
Dr	<i>Trithemis aurora</i>	0	0	0	1	0	3	1	3	0	0	0	0	0	0	1	0	2	0	0	0	0
Dr	<i>Trithemis festiva</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dr	<i>Zygonyx sp</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Type	Scientific Name	Time		R4		R5		R5		R5		R5		R5		R5		R5		R6		R6		R6		R6													
		T3	T4	T1	T2	T3	T4	T1	T2	T3	T4	T1	T2	T3	T4	T1	T2	T3	T4	T1	T2	T3	T4	T1	T2	T3	T4	T1	T2	T3	T4								
B	<i>Abisara echerius</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0							
B	<i>Ariadne ariadne</i>	1	2	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
B	<i>Artoegia sp.</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
B	<i>Artoegia canidia</i>	2	0	2	0	4	0	5	0	2	0	3	0	2	0	3	0	2	0	3	2	4	1	12	0	13	9	4											
B	<i>Athyma perius</i>	0	0	3	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
B	<i>Catopsilia pomona</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
B	<i>Chilades lajus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
B	<i>Chilasa chlyta</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
B	<i>Curetis dentata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
B	<i>Danaus genutia</i>	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
B	<i>Delias pasithoe</i>	1	0	155	38	119	22	15	0	7	1	14	0	21	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
B	<i>Euploea core</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
B	<i>Euploea midamus</i>	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
B	<i>Euploea sp.</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
B	<i>Eurema hecabe</i>	1	0	2	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B	<i>Faunis eumeus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B	<i>Graphium agamemnon</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	<i>Graphium doson</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	<i>Graphium sarpedon</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	<i>Graphium sp.</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	<i>Heliothorus epicles</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	<i>Hypolimnas bolina</i>	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	<i>Junonia almana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	<i>Junonia atites</i>	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	<i>Junonia orithya</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	<i>Lampides boeticus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	<i>Matapa aria</i>	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	<i>Mycalopsis mineus</i>	0	1	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	<i>Papilio demoleus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	<i>Papilio helenus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	<i>Papilio memnon</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Type	Scientific Name	Time		R4		R5		R5		R5		R5		R6		R6		R6		R6	
		Transect	Round	T3	T4	T1	T2	T2	T3	T3	T3	T3	T3	T3	T1	T1	T1	T1	T1	T1	T2
B	<i>Papilio paris</i>	3	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	<i>Papilio polytes</i>	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	<i>Papilio sp</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	<i>Potanthus sp.</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	<i>Spindasis lohita</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	<i>Tagiades litigiosus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	<i>Udaspes folus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	<i>Ypthima lisandra</i>	0	1	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	<i>Zizeeria maha</i>	13	17	0	0	2	0	0	4	0	4	0	0	0	0	0	0	0	0	0	0
B	UNID	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dm	<i>Agriocnemis femina oryzae</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dm	<i>Copera marginipes</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dm	<i>Ischnura senegalensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dm	<i>Onychargia atrocyana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dm	UNID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dr	<i>Brachythemis contaminata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dr	<i>Crocothemis servilia servilia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dr	<i>Icinogomphus pertinax</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dr	<i>Neurothemis tullia tullia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dr	<i>Orthetrum luzonicum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dr	<i>Orthetrum pruinosum neglectum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dr	<i>Orthetrum sabina sabina</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dr	<i>Palpopleura sexmaculata sexmaculata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dr	<i>Pantala flavescens</i>	18	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dr	<i>Pseudothemis zonata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dr	<i>Rhyothemis variegata arria</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dr	<i>Tetracanthagyna waterhousei</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dr	<i>Tramea virginia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dr	<i>Trithemis aurora</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dr	<i>Trithemis festiva</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dr	<i>Zygonyx sp</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Type	Scientific Name	Time	R6	R6	R6
		Transect	T3	T3	T3
		Round	2	3	4
B	<i>Abisara echerius</i>		0	0	0
B	<i>Ariadne ariadne</i>		0	1	0
B	<i>Artoegia sp.</i>		0	0	0
B	<i>Artoegia canidia</i>		0	2	1
B	<i>Athyma perius</i>		0	0	0
B	<i>Catopsilia pomona</i>		0	0	0
B	<i>Chilades lajus</i>		0	0	0
B	<i>Chilasa clytia</i>		0	0	0
B	<i>Curetis dentata</i>		0	0	0
B	<i>Danaus genutia</i>		0	0	0
B	<i>Delias pasithoe</i>		0	1	0
B	<i>Euploea core</i>		0	0	0
B	<i>Euploea midamus</i>		0	0	0
B	<i>Euploea sp.</i>		0	0	0
B	<i>Eurema hecabe</i>		0	0	0
B	<i>Faunis eumeus</i>		0	0	0
B	<i>Graphium agamemnon</i>		0	0	0
B	<i>Graphium doson</i>		0	0	0
B	<i>Graphium sarpedon</i>		0	0	0
B	<i>Graphium sp</i>		0	0	0
B	<i>Heliophorus epicles</i>		0	5	0
B	<i>Hypolimnas bolina</i>		0	0	0
B	<i>Junonia almana</i>		0	0	0
B	<i>Junonia atlites</i>		0	0	0
B	<i>Junonia orithya</i>		0	0	0
B	<i>Lampides boeticus</i>		0	0	0
B	<i>Matapa aria</i>		0	0	0
B	<i>Mycalesis mineus</i>		0	0	0
B	<i>Papilio demoleus</i>		0	0	0
B	<i>Papilio helenus</i>		0	0	0
B	<i>Papilio memnon</i>		0	0	0

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Type	Scientific Name	Time Transect Round	R6	R6	R6
			T3 2	T3 3	T3 4
B	<i>Papilio paris</i>		0	0	0
B	<i>Papilio polytes</i>		0	0	0
B	<i>Papilio sp</i>		0	0	0
B	<i>Potanthus sp.</i>		0	0	0
B	<i>Spindasis lohita</i>		0	0	0
B	<i>Tagiades litigiosus</i>		0	0	0
B	<i>Udaspes folus</i>		0	0	0
B	<i>Ypthima lisandra</i>		0	0	0
B	<i>Zizeeria maha</i>		0	1	4
B	UNID		0	0	0
Dm	<i>Agriocnemis femina oryzae</i>		0	0	0
Dm	<i>Copera marginipes</i>		0	0	0
Dm	<i>Ischnura senegalensis</i>		0	0	0
Dm	<i>Onychargia atrocyana</i>		0	0	0
Dm	UNID		0	0	0
Dr	<i>Brachythemis contaminata</i>		0	0	0
Dr	<i>Crocothemis servilia servilia</i>		0	0	0
Dr	<i>Ictinogomphus pertinax</i>		0	0	0
Dr	<i>Neurothemis tullia tullia</i>		0	0	0
Dr	<i>Orthetrum luzonicum</i>		0	0	0
Dr	<i>Orthetrum pruinosum neglectum</i>		0	0	0
Dr	<i>Orthetrum sabina sabina</i>		0	0	0
Dr	<i>Palpopleura sexmaculata sexmaculata</i>		0	0	0
Dr	<i>Pantala flavescens</i>		0	0	0
Dr	<i>Pseudothemis zonata</i>		0	0	0
Dr	<i>Rhyothmis variegata arria</i>		0	0	0
Dr	<i>Tetracanthagyna waterhousei</i>		0	0	0
Dr	<i>Tramea virginia</i>		0	0	0
Dr	<i>Trithemis aurora</i>		0	0	0
Dr	<i>Trithemis festiva</i>		0	0	0
Dr	<i>Zygonix sp</i>		0	0	0

Type	Scientific Name	Time	R6	R6	R6
		Transect	T3	T3	T3
		Round	2	3	4
Dr	UNID		0	0	0
Total Counts			0	10	5
Total Taxa *			0	5	2

Note:
 * Excluding UNID species
 B: Butterfly
 Dm: Damselfly
 Dr: Dragonfly
 UNID : unidentified

Appendix 8.8 Record of Vertebrates Counted During Systematic Surveys.

Type	Scientific Name	Date		25-Jun		4-Aug		25-Jun		4-Aug		20-Oct		29-Dec		21-Oct		29-Dec	
		Transects	Rounds	T1	T2	T1	T2	T2	T3	T1	T2	T1	T2	T1	T2	T1	T2	T3	T3
A	<i>Kalophrynus pleurostigma</i>			0	0	0	0	0	0	0	0	2	0	1	0	0	0	0	0
A	<i>Kaloula pulchra</i>			0	0	0	1	0	0	0	0	0	0	1	0	0	2	0	0
A	<i>Rana guentheri</i>			1	0	2	2	0	0	1	0	0	0	0	0	0	0	0	0
A	<i>Rana limnocharis</i>			0	0	0	2	0	0	0	0	0	0	1	0	0	1	0	0
A	<i>Rhacophorus leucomystax</i>			1	1	4	5	0	0	2	8	0	2	4	0	0	0	0	0
A	<i>Bufo melanostictus</i>			9	5	7	7	1	1	2	2	3	1	0	0	0	0	0	0
	subtotal			11	7	13	17	1	1	8	13	3	8	0	0	3	0	0	0
R	<i>Gecko chinensis</i>			0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
R	<i>Calotes versicolor</i>			0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
R	<i>Lycodon subcinctus</i>			0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
R	<i>Trimeresurus albolabris</i>			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	<i>Trionyx sinensis</i>			0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	subtotal			0	0	0	1	1	1	0	1	1	1	1	0	0	0	0	0
M	Bats			some	some	some	some	0	0	some	v. few	v. few	v. few	v. few	v. few	v. few	v. few	v. few	0
M	Cattle			0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0

Note:

A: Amphibian

R: Reptile

M: Mammal

v.few : very few