

Appendix 4.6.5: Insect visitors recorded for *A. sessilis*, *A. brasiliiana* and *A. bettzickiana* in the field.

Time	<i>A. sessilis</i> 'Red'			<i>A. sessilis</i> 'Green'			<i>A. brasiliiana</i>			<i>A. bettzickiana</i>		
	Formicidae	Syrphidae	<i>Apis florea</i>	Formicidae	Syrphidae	<i>Apis florea</i>	Formicidae	Syrphidae	<i>Apis florea</i>	Formicidae	Syrphidae	<i>Apis florea</i>
0800-0900	14	0	0	1	0	0	0	0	0	1	0	0
0900-1000	20	0	0	8	0	2	0	0	0	5	0	0
1000-1100	43	0	1	31	6	13	0	0	0	10	0	0
1100-1200	42	8	3	52	5	26	0	0	0	16	0	0
1200-1300	47	0	5	51	0	38	0	0	0	28	0	0
1300-1400	49	2	6	42	0	45	0	0	0	19	0	0
1400-1500	31	2	2	15	23	0	0	0	0	4	0	0
1500-1600	9	0	0	15	0	7	0	0	0	2	0	0
1600-1700	3	1	1	5	0	3	0	0	0	1	0	0

Appendix 4.6.6: Records of daily rainfall amount from 2008–2011.

JABATAN METEOROLOGI MALAYSIA													
Records of Daily Rainfall Amount (0800- 0800 MST)													
Station : PETALING JAYA													
Lat.	: 3° 6' N										Year : 2008		
Long.	: 101° 39' E										Unit : millimetre		
Ht. above M.S.L. :	60.8 m												
Month/ Date	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
01	17.4	Trace	18.2	2.8	0.0	6.8	0.0	0.0	49.6	0.0	0.0	0.0	0.0
02	2.2	85.8	31.6	118.0	0.0	1.8	0.0	0.0	2.4	0.0	6.3	14.2	
03	0.8	8.8	30.4	10.8	0.0	23.6	1.4	0.8	3.2	54.4	28.4	0.0	
04	53.6	0.0	0.0	46.8	0.0	81.2	0.0	0.0	33.0	0.0	25.2	2.0	
05	0.6	Trace	0.0	0.4	0.0	19.6	0.0	0.0	1.2	19.8	7.2	6.4	
06	3.6	0.0	24.6	15.0	0.0	0.0	0.0	0.0	22.2	1.0	3.6	Trace	
07	1.0	14.4	3.4	Trace	2.8	25.8	31.6	46.6	0.0	1.8	0.0	65.4	
08	3.8	0.0	2.8	93.6	0.0	2.0	0.8	0.0	0.0	9.6	0.0	16.8	
09	13.2	0.0	6.2	49.2	0.0	7.8	Trace	0.0	0.0	8.2	9.0	34.8	
10	16.6	2.4	19.6	3.8	0.0	28.8	5.6	Trace	0.0	12.4	10.0	7.4	
11	10.4	0.0	0.6	0.0	0.0	0.0	0.0	0.0	5.8	45.0	Trace	38.4	
12	1.2	14.2	8.8	93.8	0.0	0.0	0.0	0.0	0.0	12.6	60.8	Trace	
13	14.8	0.0	0.6	1.2	0.0	0.0	Trace	0.0	0.0	2.4	13.2	48.6	
14	0.2	0.0	5.0	0.0	0.4	0.0	14.8	Trace	2.8	47.6	66.2	4.8	
15	0.0	0.0	22.0	66.8	0.0	0.0	0.6	0.0	3.0	16.4	0.6	8.4	
16	0.6	5.2	0.0	25.4	0.0	4.0	7.6	Trace	0.0	12.8	1.8	0.0	
17	0.0	17.6	16.2	30.8	Trace	0.0	0.2	0.0	0.0	34.8	0.4	0.0	
18	Trace	0.0	32.4	3.8	0.2	2.6	0.0	18.8	0.6	0.4	62.8	0.0	
19	18.6	0.0	9.4	14.8	0.0	3.0	0.0	0.0	16.6	50.4	74.6	4.6	
20	0.2	0.4	29.4	Trace	0.0	0.0	0.0	0.2	0.0	9.4	34.0	2.0	
21	48.8	0.0	6.2	1.2	6.6	24.2	0.0	27.2	0.2	25.4	0.4	9.2	
22	0.0	0.0	16.2	26.0	0.0	16.8	3.6	81.6	0.0	13.8	0.0	0.0	
23	0.0	0.0	35.8	0.2	0.2	0.0	Trace	9.2	0.0	0.2	17.4	0.0	
24	0.0	0.0	1.0	5.6	0.0	0.0	0.0	45.8	27.8	6.6	Trace	0.0	
25	21.2	43.0	8.6	0.0	9.8	3.2	Trace	14.4	2.6	0.0	3.6	4.4	
26	37.4	0.2	Trace	0.0	16.2	1.6	0.0	7.0	5.2	0.0	13.4	Trace	
27	6.0	50.4	0.0	Trace	0.2	0.0	0.0	71.4	75.0	0.0	34.0	0.0	
28	0.0	7.8	Trace	0.2	0.0	Trace	0.0	1.0	0.2	0.0	27.4	2.6	
29	12.4	16.4	0.4	0.0	16.4	5.2	0.0	Trace	3.6	0.0	Trace	2.8	
30	49.8	0.2	0.0	16.2	40.8	0.0	9.4	17.6	0.0	0.0	Trace	0.0	
31	10.4	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	
Total	344.8	266.6	329.6	610.2	69.0	298.8	66.2	333.6	272.6	385.0	500.3	272.8	
No. of Raindays	24	13	24	21	10	18	9	14	19	21	22	17	

Definition : Trace - Rainfall amount less than 0.1 millimetre

Note : N.A. - Not Available

} - Accumulated Value

Dibekalkan oleh
Seksyen Kajiklim & Hidrologi
Jabatan Meteorologi Malaysia

JABATAN METEOROLOGI MALAYSIA

Records of Daily Rainfall Amount (0800- 0800 MST)

Station : PETALING JAYA

Lat. : 3° 6' N

Year : 2009

Long. : 101° 39' E

Unit : millimetre

Ht. above M.S.L. : 60.8 m

Month/ Date	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
01	36.4	24.6	35.6	0.0	0.0	0.4	19.8	0.0	10.8	0.4	3.0	1.6
02	2.0	45.4	5.0	20.2	1.6	0.0	0.6	0.0	0.0	0.0	5.6	35.2
03	34.2	7.8	22.2	16.8	0.6	0.0	0.0	0.0	0.0	Trace	30.4	28.2
04	0.0	31.0	0.2	45.0	0.8	0.0	9.0	0.0	2.8	0.0	12.4	1.4
05	0.0	0.0	1.4	29.2	Trace	0.0	Trace	28.0	36.4	0.8	1.8	0.0
06	7.0	2.8	0.0	13.4	0.0	0.0	0.0	0.0	0.0	0.0	1.4	2.6
07	0.0	0.0	1.0	Trace	0.0	0.2	9.0	0.2	0.0	0.0	5.2	122.2
08	0.2	0.0	0.0	5.2	0.2	13.4	0.0	0.0	0.0	2.8	0.0	0.0
09	3.8	0.2	3.2	0.0	0.0	0.0	42.4	0.0	0.0	50.2	22.2	0.0
10	0.0	0.2	14.0	15.6	0.0	0.0	0.0	19.6	0.0	0.0	12.4	2.8
11	Trace	0.0	7.4	15.8	0.0	0.0	0.0	8.4	0.0	Trace	0.0	0.2
12	0.2	0.0	2.6	42.6	10.2	Trace	0.0	4.6	12.0	1.4	30.0	0.0
13	0.0	0.0	11.2	6.6	45.4	9.8	0.0	2.2	10.8	32.6	0.2	0.0
14	0.6	0.0	5.8	33.0	2.2	1.8	1.0	0.4	4.2	22.2	9.2	28.6
15	0.0	0.0	63.2	0.4	0.0	0.0	0.8	6.4	Trace	0.0	1.8	50.8
16	0.8	0.0	0.4	0.0	0.6	0.0	0.0	1.6	124.2	0.0	74.8	3.8
17	0.0	9.4	39.2	0.0	3.0	0.0	0.0	3.0	26.0	25.0	13.2	6.2
18	0.0	12.2	0.4	Trace	0.0	0.0	0.0	23.2	28.6	0.0	40.8	3.2
19	0.0	0.0	Trace	0.0	Trace	3.2	0.0	0.0	76.2	Trace	0.0	37.8
20	17.6	0.0	18.0	13.8	0.0	62.4	0.0	4.6	29.4	2.8	Trace	Trace
21	49.8	37.6	Trace	Trace	5.6	0.0	17.2	0.2	0.0	2.4	16.6	0.0
22	4.4	2.4	0.0	0.0	0.0	4.4	33.4	11.4	0.0	17.8	Trace	0.6
23	0.0	10.8	6.4	0.0	1.6	0.2	0.0	1.2	0.0	1.0	0.4	3.8
24	7.8	23.6	44.4	0.0	0.0	3.6	0.0	0.0	0.0	3.0	4.4	0.6
25	4.2	9.8	15.2	0.0	0.6	0.0	1.8	0.0	0.0	0.0	0.0	0.2
26	0.0	28.8	36.8	0.0	0.2	3.4	1.6	28.2	0.0	Trace	0.0	17.6
27	0.0	0.0	65.8	4.4	0.0	0.0	0.0	25.2	11.8	3.4	Trace	20.8
28	23.4	7.2	8.6	0.0	0.2	0.0	12.0	0.4	6.4	10.4	36.0	1.8
29	25.0		9.0	21.0	0.0	25.8	Trace	0.0	14.4	Trace	17.2	5.6
30	0.8		2.6	0.0	0.0	0.0	0.0	2.0	1.6	29.0	0.0	0.0
31	5.8		0.0		1.4		Trace	0.0		25.8		0.0
Total	224.0	253.8	419.6	283.0	74.2	128.6	148.6	170.8	395.6	231.0	339.0	375.6
No. of Raindays	18	16	25	15	15	12	12	19	15	17	21	22

Definition : Trace - Rainfall amount less than 0.1 millimetre

Note : N.A. - Not Available

} - Accumulated Value

Dibekalkan oleh
Seksyen Kajiklim & Hidrologi
Jabatan Meteorologi Malaysia

JABATAN METEOROLOGI MALAYSIA

Records of Daily Rainfall Amount (0800- 0800 MST)

Station : PETALING JAYA

Lat. : 3° 6' N

Year : 2010

Long. : 101° 39' E

Unit : millimetre

Ht. above M.S.L. : 60.8 m

Month/ Date	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
01	2.6	3.2	22.4	3.8	12.8	59.8	46.4	0.0	0.0	43.0	0.0	16.6
02	10.6	0.0	0.0	Trace	43.6	15.0	0.0	0.2	6.0	33.8	0.0	2.4
03	12.4	19.6	Trace	0.0	1.6	4.2	0.4	0.8	0.0	1.6	0.0	0.0
04	Trace	23.6	0.2	0.0	57.6	Trace	2.4	0.0	10.0	2.6	0.0	1.4
05	0.0	31.6	52.4	24.6	0.2	0.4	0.0	0.2	9.0	15.6	0.0	Trace
06	1.0	0.6	66.0	6.4	21.4	0.0	0.0	0.8	5.0	0.4	2.0	7.6
07	0.0	0.0	1.6	Trace	3.6	9.4	45.0	12.2	1.4	Trace	0.2	0.0
08	22.4	0.8	25.4	7.4	12.0	0.8	0.0	0.0	19.6	0.0	0.6	78.2
09	17.4	18.4	0.0	74.0	0.2	30.0	Trace	0.0	34.2	0.0	0.2	Trace
10	15.6	9.0	0.0	1.6	40.6	0.0	46.2	0.0	0.8	0.0	0.0	0.0
11	23.2	4.6	0.0	10.4	1.6	69.8	32.0	0.0	4.6	0.0	1.4	0.0
12	12.8	3.0	48.4	0.0	0.0	4.8	0.0	0.0	0.2	0.0	0.8	0.0
13	0.0	4.6	0.0	5.2	17.0	0.0	0.0	19.6	2.6	0.0	0.4	2.6
14	1.0	0.0	45.6	0.0	1.8	1.2	1.4	1.8	Trace	0.0	21.2	0.0
15	0.0	0.0	2.8	0.0	0.0	0.0	Trace	30.2	0.0	0.0	84.8	0.0
16	Trace	1.2	6.0	14.0	46.0	0.0	4.4	31.2	28.8	0.0	12.8	3.4
17	1.2	32.2	0.0	40.8	0.8	0.0	0.0	8.0	6.4	37.4	0.0	7.2
18	22.0	0.4	Trace	1.2	45.0	0.0	7.2	10.6	18.4	0.0	6.2	0.0
19	0.0	0.0	0.2	0.0	0.0	Trace	Trace	4.4	0.8	4.2	38.6	1.8
20	2.8	24.0	0.0	35.2	61.2	0.0	45.4	0.0	1.0	0.0	0.0	66.8
21	7.6	0.4	44.2	29.6	Trace	0.2	0.4	0.0	46.8	0.0	4.4	0.4
22	19.8	1.4	1.8	5.8	5.2	0.8	1.2	0.4	24.2	2.0	0.2	60.0
23	4.2	37.8	0.2	0.4	0.0	0.4	0.0	0.0	2.2	2.2	30.2	0.8
24	4.2	Trace	0.0	0.0	0.0	1.0	0.0	0.0	3.4	2.6	0.4	36.6
25	0.0	2.4	44.2	20.0	0.0	18.0	29.8	0.0	27.2	0.6	7.4	3.6
26	0.2	2.0	23.0	0.0	0.0	8.4	Trace	0.0	1.8	1.4	5.4	0.0
27	12.0	0.0	0.0	7.2	0.0	0.0	44.8	6.8	17.6	0.0	6.2	0.0
28	0.0	4.8	31.4	0.0	75.2	0.0	0.0	0.0	0.6	24.0	22.4	130.4
29	11.6	0.2	6.2	29.8	7.2	0.0	0.0	0.0	29.4	14.0	6.6	9.6
30	42.4	34.2	Trace	Trace	5.8	Trace	7.2	0.4	7.8	4.4	0.4	0.4
31	21.8	33.2			11.4		9.6	21.2		0.0		0.0
Total	268.8	225.6	483.4	293.8	488.6	237.2	316.6	155.6	302.4	193.2	256.8	429.8
No. of Raindays	22	21	20	18	21	18	15	16	26	16	22	18

Definition : Trace - Rainfall amount less than 0.1 millimetre

Note : N.A. - Not Available

} - Accumulated Value

Dibekalkan oleh
Seksyen Kajiklim & Hidrologi
Jabatan Meteorologi Malaysia

JABATAN METEOROLOGI MALAYSIA
Records of Daily Rainfall Amount (0800- 0800 MST)

Station : PETALING JAYA

Lat. : 3° 6' N

Year : 2011

Long. : 101° 39' E

Unit : millimetre

Ht. above M.S.L. : 60.8 m

Month/ Date	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
01	Trace	0.0	2.0	0.0	27.8	0.0	0.0	0.0	0.0
02	Trace	9.8	64.0	0.0	36.8	0.0	0.0	0.0	0.0
03	38.8	0.0	Trace	0.4	22.2	26.8	0.6	17.2	0.0
04	18.4	1.0	0.0	0.2	0.4	0.0	0.0	4.4	0.0
05	59.2	90.4	10.2	19.2	0.0	11.8	0.0	0.0	0.0
06	3.8	6.8	Trace	25.4	0.0	0.0	0.2	0.0	0.0
07	0.0	2.4	24.6	18.0	0.0	0.0	8.8	0.0	2.6
08	0.0	0.0	Trace	46.2	0.0	20.0	5.8	0.0	0.0
09	0.0	12.2	5.0	Trace	0.0	0.0	Trace	Trace	11.8
10	8.6	0.0	Trace	1.8	0.0	Trace	Trace	12.8	12.4
11	0.0	0.4	6.8	18.0	1.2	20.4	0.0	0.0	Trace
12	1.8	2.0	35.8	2.2	15.8	1.4	10.8	25.0	0.4
13	7.2	38.4	35.4	Trace	0.0	2.6	3.6	35.0	15.8
14	1.2	29.8	53.4	2.6	0.0	0.4	12.4	45.8	34.2
15	7.2	9.8	0.2	20.4	46.2	Trace	8.8	0.6	0.4
16	0.0	0.0	45.2	21.4	15.4	0.0	0.0	0.0	12.2
17	0.0	30.2	0.2	1.8	57.2	0.0	0.0	23.4	1.6
18	0.4	0.0	15.2	Trace	21.4	0.0	0.0	11.2	16.2
19	0.0	0.0	2.4	21.4	25.0	0.4	0.0	14.4	8.6
20	0.0	0.0	22.8	46.8	14.6	0.0	0.0	0.4	0.0
21	6.2	0.0	28.4	19.6	5.8	0.0	0.4	10.8	23.0
22	0.0	27.4	5.2	41.8	3.0	0.0	0.0	42.0	0.8
23	7.6	0.6	13.4	28.6	0.6	0.0	Trace	5.8	
24	25.8	45.4	20.4	68.0	9.4	0.0	0.0	0.8	
25	0.0	29.8	0.0	4.2	0.0	0.0	0.0	0.0	
26	0.8	0.0	0.0	31.6	0.0	39.6	0.0	17.8	
27	0.8	0.0	0.0	2.6	2.6	43.8	33.8	0.0	
28	0.4	27.8	0.0	53.0	Trace	0.0	31.6	79.0	
29	4.0		31.2	Trace	0.0	21.4	8.8	Trace	
30	49.8		Trace	1.6	3.6	0.0	7.0	0.0	
31	1.8		0.0		Trace	0.0	0.0		
Total No. of Raindays	243.8	364.2	421.8	496.8	309.0	188.6	132.6	346.4	
	19	17	20	24	18	11	13	17	

Definition : Trace - Rainfall amount less than 0.1 millimetre

Note : N.A. - Not Available

} - Accumulated Value

Dibekalkan oleh
Seksyen Kajiklim & Hidrologi
Jabatan Meteorologi Malaysia

Appendix 4.6.7: Records of 24 hour mean temperature 2008–2011.

JABATAN METEOROLOGI MALAYSIA Records of 24 hour Mean Temperature												
Station : PETALING JAYA												
Month/ Date	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
01	27.1	26.1	24.7	26.6	29.4	27.1	27.5	29.4	26.7	26.2	N.A.	28.9
02	27.1	25.6	26.2	26.1	28.5	26.7	29.3	29.2	26.8	27.3	N.A.	28.4
03	26.5	25.2	25.1	25.8	28.0	26.3	25.9	28.5	26.7	26.4	N.A.	27.9
04	26.2	26.4	25.4	25.6	29.6	26.4	27.9	29.2	24.9	26.2	N.A.	26.8
05	25.8	27.7	27.1	26.7	28.8	26.5	28.6	28.8	25.9	26.4	N.A.	26.4
06	25.7	28.1	27.1	27.0	28.6	28.1	28.9	29.1	24.0	25.6	26.6	26.1
07	26.0	N.A.	25.9	27.6	27.2	26.8	28.2	25.1	26.7	25.3	28.1	25.7
08	25.2	N.A.	26.5	25.9	27.8	26.0	26.0	27.4	27.1	26.3	28.5	23.6
09	25.3	28.0	26.7	26.7	28.1	27.2	26.8	29.1	27.7	26.5	26.7	26.1
10	25.9	27.7	26.0	25.7	29.0	27.3	27.6	28.7	27.9	26.5	28.7	26.5
11	26.1	27.1	26.2	26.6	28.6	27.5	28.2	29.2	29.1	26.2	27.5	26.0
12	26.5	27.3	25.9	26.4	29.4	28.5	27.8	28.8	27.9	26.3	26.9	27.0
13	25.4	28.1	25.5	25.7	29.8	29.3	27.5	29.0	28.4	27.3	26.1	26.3
14	26.2	27.8	26.7	27.4	28.4	28.9	26.5	29.5	27.3	27.5	26.4	25.3
15	27.3	27.8	26.1	27.2	29.4	29.7	26.6	28.9	27.1	26.6	25.6	26.8
16	27.2	27.0	27.7	26.4	29.7	27.8	26.6	28.2	28.5	25.9	26.6	27.3
17	27.7	27.0	27.7	26.4	29.6	29.3	28.2	28.8	29.7	26.5	26.3	27.2
18	26.2	27.7	26.5	27.0	28.4	26.4	27.3	25.8	28.6	27.0	27.0	27.4
19	26.5	27.9	25.3	27.4	29.2	25.9	28.0	28.0	29.0	27.3	25.9	27.6
20	27.7	27.8	26.1	27.4	29.1	27.5	28.7	27.7	29.3	26.2	25.4	27.3
21	27.1	27.0	27.0	27.6	27.9	27.2	27.1	25.4	26.4	25.8	27.2	27.1
22	28.0	27.7	25.3	26.7	28.9	26.8	26.8	25.7	27.3	26.0	27.5	27.2
23	28.3	27.8	26.4	26.3	28.4	27.5	27.0	25.3	28.4	26.9	27.2	28.5
24	28.4	27.9	26.6	26.5	27.5	27.6	27.7	24.9	27.5	25.9	26.4	27.3
25	27.2	28.3	26.5	28.6	26.9	27.7	27.2	26.7	27.0	27.8	27.1	26.9
26	27.5	26.1	27.5	29.9	N.A.	27.8	27.3	25.0	25.9	29.3	26.5	27.1
27	27.8	26.8	29.0	28.9	27.2	27.5	28.1	25.7	26.0	29.1	25.7	27.6
28	27.7	24.9	28.6	27.1	27.7	25.1	28.5	26.2	27.4	29.0	26.1	27.4
29	26.8	26.0	27.9	28.4	26.6	25.5	29.3	27.4	26.6	28.8	26.8	26.0
30	27.3		27.2	28.7	25.9	27.0	29.9	27.2	27.0	28.4	28.5	26.9
31	26.9		28.1		27.4		29.5	27.6		28.4		26.8
Mean	26.8	27.1	26.6	27.0	28.4	27.3	27.7	27.6	27.3	26.9	26.9	26.9

Note : N.A. - Not Available

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Unit : °C

Month/ Date	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
01	27.3	25.6	26.9	28.8	28.9	28.8	28.7	29.2	25.4	28.2	26.6	26.6
02	26.5	26.1	27.1	28.1	28.9	28.8	28.4	29.3	27.3	29.1	26.8	27.0
03	24.9	25.7	26.8	28.1	27.1	29.4	29.6	29.8	28.5	28.1	27.8	26.6
04	26.4	25.8	28.1	27.3	28.0	29.6	30.2	29.3	27.6	28.0	26.7	25.1
05	27.4	26.7	26.6	26.5	28.8	30.1	N.A.	25.8	28.7	27.7	27.0	26.7
06	26.6	26.2	27.7	26.7	28.5	30.9	N.A.	28.4	27.2	29.0	26.7	26.9
07	27.2	27.1	27.0	27.6	29.3	29.8	28.5	29.1	28.6	28.6	27.6	27.1
08	26.9	28.3	28.1	29.2	29.5	29.5	27.6	29.8	28.2	28.6	28.9	27.4
09	26.3	28.0	25.7	28.9	29.0	29.2	28.0	29.5	27.8	26.9	26.4	28.6
10	26.2	27.3	27.6	27.2	29.4	30.3	28.0	27.5	28.2	28.2	26.6	28.9
11	26.2	27.5	26.1	26.4	29.7	28.8	28.2	28.5	28.6	28.9	27.7	28.5
12	26.0	27.7	27.8	25.8	30.0	28.9	27.5	27.6	28.0	28.1	27.1	N.A.
13	26.7	28.0	26.3	26.0	27.7	28.1	30.1	27.8	26.8	28.7	26.9	N.A.
14	26.3	28.2	26.1	27.8	27.8	28.4	29.1	28.3	28.9	26.5	25.6	27.5
15	26.9	28.2	26.6	28.3	28.3	28.4	27.1	27.9	28.5	27.8	26.4	26.8
16	26.9	28.9	26.5	N.A.	28.3	29.5	28.9	27.2	27.0	28.2	24.4	26.9
17	27.7	27.7	27.7	30.8	29.3	30.3	29.7	27.1	26.5	28.1	25.6	26.5
18	27.9	28.2	26.9	29.9	27.8	30.3	29.6	28.0	25.8	27.3	25.0	26.0
19	28.3	28.1	28.3	28.7	29.1	29.8	29.0	28.5	24.8	28.3	26.0	25.2
20	27.2	29.1	27.7	28.9	29.9	28.8	30.0	28.3	25.6	28.2	26.1	26.5
21	27.0	27.3	27.8	26.9	27.6	28.9	26.8	27.5	27.6	27.2	26.0	26.7
22	27.5	25.9	29.5	28.6	29.4	28.5	28.2	28.6	28.2	26.3	25.8	27.6
23	28.1	26.2	30.3	28.9	29.7	28.9	28.6	27.9	29.5	26.8	26.1	27.3
24	27.8	26.4	26.1	29.0	30.7	27.7	29.6	27.2	28.9	27.8	27.0	27.8
25	27.0	26.2	27.0	29.3	30.0	29.2	30.6	28.5	29.3	26.9	28.5	27.5
26	27.4	26.1	26.2	28.6	27.8	28.2	28.8	27.3	29.4	28.0	29.5	26.0
27	27.5	26.5	26.1	28.1	30.0	28.2	28.0	26.2	27.2	27.6	28.8	26.3
28	26.6	26.9	27.1	28.8	29.6	27.8	29.4	26.2	26.7	26.1	26.8	27.1
29	25.8		26.6	27.5	30.8	27.8	29.1	28.1	27.6	27.3	26.2	26.6
30	26.1		27.4	28.0	29.8	28.9	29.2	27.0	28.0	27.1	26.6	27.7
31	N.A.		28.5		29.8		29.5	28.2		25.9		28.4
Mean	26.9	27.1	27.2	28.1	29.0	29.1	28.8	28.0	27.7	27.7	26.8	27.0

Note : N.A. - Not Available

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Month/ Date	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
01	27.5	28.1	28.4	26.8	29.0	26.8	26.8	27.2	27.8	N.A.	26.8	26.6
02	26.0	28.8	28.7	27.8	28.6	27.8	28.3	28.6	28.8	27.5	28.2	27.0
03	27.4	27.8	28.8	28.9	29.9	28.7	27.4	29.4	28.5	28.0	29.2	28.1
04	26.9	26.8	29.5	29.2	28.8	28.0	25.5	28.8	28.6	28.9	28.6	26.5
05	27.8	26.6	28.4	29.2	28.7	28.5	28.2	28.2	26.9	26.9	29.5	27.9
06	29.5	27.8	28.1	29.2	28.9	29.8	29.4	28.4	26.1	28.2	27.7	26.5
07	28.3	28.3	29.4	29.6	28.3	28.8	26.5	27.1	27.9	28.1	25.6	27.0
08	26.3	28.8	28.4	30.1	28.4	27.3	27.7	28.3	26.0	27.6	27.6	26.5
09	26.5	N.A.	29.3	28.3	27.3	26.5	28.3	28.1	27.7	29.4	27.5	25.6
10	26.7	28.6	28.9	27.5	27.6	28.3	27.5	28.9	26.0	29.0	28.9	27.7
11	26.4	29.6	28.8	28.8	28.0	27.7	27.7	29.1	27.1	29.5	27.6	27.5
12	26.6	28.6	28.6	29.6	28.5	27.6	27.7	29.5	28.6	29.7	26.7	28.5
13	27.2	28.8	28.0	28.4	28.4	29.2	27.6	27.5	28.1	29.4	28.4	27.9
14	27.4	29.0	27.5	29.7	28.7	28.5	27.4	27.6	28.5	29.4	27.0	27.0
15	27.8	29.3	27.6	30.1	30.2	28.7	27.2	26.7	27.9	29.8	26.4	27.7
16	27.4	29.4	29.5	29.0	30.4	27.9	27.8	27.2	29.0	29.9	26.2	25.5
17	27.7	27.4	29.3	28.4	28.2	28.6	27.5	26.1	26.3	28.6	26.7	25.1
18	27.1	28.3	29.4	27.8	27.9	28.7	26.0	27.2	27.9	28.6	27.4	26.0
19	26.9	29.2	28.9	28.9	28.2	29.3	27.6	27.3	27.7	28.3	26.9	26.5
20	27.9	28.5	29.0	26.9	27.5	29.3	28.1	27.0	28.4	29.4	27.0	25.3
21	26.9	28.4	27.5	29.0	29.0	28.1	27.5	28.7	26.7	28.9	28.9	26.4
22	27.1	28.8	27.9	27.9	27.4	28.1	27.2	28.8	26.6	27.6	27.8	26.0
23	27.5	28.5	27.4	28.8	29.7	27.0	29.0	28.5	26.4	26.9	26.5	26.3
24	28.0	28.8	29.5	28.7	29.4	28.0	28.5	29.7	26.8	27.1	28.8	26.4
25	28.1	29.2	28.3	28.8	29.8	25.8	26.9	29.8	26.4	26.4	26.6	26.3
26	27.2	28.4	28.1	28.7	29.4	28.9	26.6	27.9	27.1	27.3	26.8	27.2
27	27.7	29.0	29.5	27.2	29.2	28.0	27.6	26.5	26.4	26.9	26.3	26.7
28	28.3	29.0	28.7	29.2	28.0	28.6	27.6	27.3	26.9	28.9	26.5	25.9
29	27.3		27.4	28.4	27.3	27.4	29.4	27.9	27.1	26.8	26.0	25.3
30	27.7		26.9	29.3	27.9	27.8	27.8	27.8	26.6	25.4	26.2	25.3
31	27.2		26.3		27.5		27.1	26.7		27.1		26.9
Mean	27.4	28.5	28.5	28.7	28.6	28.1	27.6	28.0	27.4	28.2	27.3	26.6

Note : N.A. - Not Available

Dibekalkan oleh
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Long. : 101° 39' E

Year : 2011

Ht. Above M.S.L : 60.8 m

Unit : °C

Month/ Date	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
01	27.2	27.4	27.6	29.3	28.0	28.2	29.7	29.5	29.3
02	27.9	28.3	28.7	29.5	27.6	30.1	29.9	30.0	29.3
03	27.1	27.6	27.2	30.4	26.9	30.0	29.4	29.1	29.6
04	27.4	28.1	28.5	30.2	27.9	30.5	30.4	26.8	30.0
05	26.8	27.1	28.4	28.9	30.1	28.9	29.6	28.7	29.1
06	25.1	27.6	28.7	27.4	30.9	29.0	29.2	29.3	29.9
07	26.2	27.9	28.3	28.6	31.2	30.1	27.3	28.9	29.5
08	27.2	28.5	27.7	28.0	31.4	28.4	28.1	29.5	29.1
09	27.8	28.5	27.9	27.9	31.5	29.3	28.5	29.4	29.0
10	26.6	29.2	28.3	27.5	31.0	28.7	27.4	26.8	26.6
11	26.7	28.9	25.9	27.3	29.7	28.9	28.8	29.1	26.8
12	28.1	28.1	26.5	27.8	27.6	28.8	29.1	28.2	28.6
13	26.9	27.6	27.9	27.8	29.7	29.0	29.3	27.2	28.9
14	26.2	27.9	27.4	28.1	29.4	29.1	28.7	27.5	26.3
15	27.0	28.0	27.9	27.6	28.0	29.8	27.2	27.2	28.0
16	26.1	28.3	28.4	26.5	28.0	30.1	27.9	28.9	27.3
17	27.0	28.8	27.9	29.4	27.7	30.0	29.5	28.7	27.5
18	26.9	28.0	27.3	28.8	27.7	29.3	30.0	28.8	26.7
19	27.9	29.0	26.2	29.7	27.6	29.3	29.8	29.5	27.2
20	28.4	28.9	26.5	27.5	27.6	29.7	30.1	26.6	27.5
21	27.9	30.0	27.1	28.3	27.5	30.0	29.8	28.3	26.3
22	27.9	28.8	25.5	28.2	28.4	28.1	29.4	27.8	26.8
23	27.8	29.3	27.7	28.4	28.7	29.4	28.7	27.7	
24	27.2	27.1	28.4	N.A.	28.6	30.1	28.4	28.2	
25	27.3	27.0	28.4	N.A.	29.9	29.7	29.5	28.0	
26	27.1	28.5	29.2	28.6	29.8	28.3	30.5	26.9	
27	26.8	29.0	30.2	28.0	29.0	28.1	27.5	28.4	
28	27.6	28.5	30.1	28.2	28.8	29.7	29.0	28.7	
29	26.5		29.7	27.2	30.1	27.7	28.1	27.0	
30	24.3		29.0	28.4	30.7	28.7	27.0	29.2	
31	25.3		29.3		29.5		28.8	28.8	
Mean	27.0	28.3	28.0	28.3	29.0	29.2	28.9	28.3	

Note : N.A. - Not Available

Dibekalkan oleh
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Jabatan Meteorologi Malaysia

Appendix 4.7: Statistical analysis of germination of seed obtained from different pollination experiments.

4.7.1: Test of normality

Percentage of germination	Pollination experiments	Kolmogorov-Smirnov(a)			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
<i>A. sessilis</i> ‘Red’	open pollination	0.23	20.00	0.00	0.84	20.00	0.00
	self pollination	0.28	5.00	0.20	0.83	5.00	0.15
	cross pollination	0.28	4.00	.	0.86	4.00	0.27
<i>A. sessilis</i> ‘Green’	open pollination	0.18	15.00	0.20	0.86	15.00	0.03
	self pollination	0.20	12.00	0.20	0.89	12.00	0.13
<i>A. brasiliiana</i> (parent plant)	open pollination	0.37	5.00	0.03	0.68	5.00	0.01
<i>A. brasiliiana</i> (offspring)	open pollination	0.35	5.00	0.05	0.78	5.00	0.05
	self pollination	0.21	11.00	0.18	0.88	11.00	0.11
Seedling height							
<i>A. sessilis</i> ‘Red’	open pollination	0.18	17.00	0.13	0.90	17.00	0.06
	self pollination	0.24	4.00	-	0.89	4.00	0.37
<i>A. sessilis</i> ‘Green’	open pollination	0.16	13.00	0.20	0.93	13.00	0.32
	self pollination	0.11	6.00	0.20	0.94	6.00	0.64
<i>A. brasiliiana</i> (parent plant)	open pollination	0.31	5.00	0.13	0.87	5.00	0.27
<i>A. brasiliiana</i> (offspring)	open pollination	0.21	5.00	0.20	0.96	5.00	0.83
	self pollination	0.22	5.00	0.20	0.90	5.00	0.41

4.7.2: Independent sample t- test

4.7.2.1: *A. sessilis* ‘Green’ between the open pollination and self pollination experiment.

		Levene's test for equality of variances		T-test for equality of means						
		F	Sig.	t	df	Sig. (2-tailed)	Mean difference	Std. error difference	95% confidence interval of the difference	
									Lower	Upper
Percentage of germination	Equal variances assumed	0.47	0.50	-0.15	25.00	0.88	-1.36	9.27	-20.45	17.74
	Equal variances not assumed			-0.15	25.00	0.88	-1.36	9.04	-19.97	17.26
Seedling length	Equal variances assumed	3.41	0.08	-2.24	17.00	0.04	-0.32	0.14	-0.62	-0.02
	Equal variances not assumed			-1.74	6.10	0.13	-0.32	0.18	-0.76	0.13

4.7.2.2: Open pollination between *A. sessilis* ‘Red’ and ‘Green’

		Levene's test for equality of variances		T-test for equality of means						
		F	Sig.	t	df	Sig. (2-tailed)	Mean difference	Std. error difference	95% confidence interval of the difference	
									Lower	Upper
Height of seedling	Equal variances assumed	0.14	0.71	-6.66	28.00	0.00	-0.49	0.07	-0.65	-0.34
	Equal variances not assumed			-6.63	25.59	0.00	-0.49	0.07	-0.65	-0.34

4.7.2.3: Self pollination between *A. sessilis* ‘Red’ and ‘Green’.

		Levene's test for equality of variances		T-test for equality of means						
		F	Sig.	t	df	Sig. (2-tailed)	Mean difference	Std. error difference	95% confidence interval of the difference	
									Lower	Upper
Height of seedling	Equal variances assumed	0.02	0.89	-2.01	8.00	0.08	-0.58	0.29	-1.24	0.08
	Equal variances not assumed			-1.96	6.04	0.10	-0.58	0.29	-1.29	0.14

4.7.2.4: *A. brasiliiana* (offspring) between the open pollination and self pollination experiment.

		Levene's test for equality of variances		T-test for equality of means						
		F	Sig.	t	df	Sig. (2-tailed)	Mean difference	Std. error difference	95% confidence interval of the difference	
									Lower	Upper
Percentage of germination	Equal variances assumed	2.53	0.13	0.12	14.00	0.90	1.44	11.69	-23.63	26.51
	Equal variances not assumed			0.15	12.95	0.88	1.44	9.51	-19.12	22.00

4.7.2.5: Open pollination experiment between the parent plant and offspring of *A. brasiliiana*.

		Levene's test for equality of variances		T-test for equality of means						
		F	Sig.	t	df	Sig. (2-tailed)	Mean difference	Std. error difference	95% confidence interval of the difference	
									Lower	Upper
Percentage of germination rate	Equal variances assumed	2.53	0.13	0.12	14.00	0.90	1.44	11.69	-23.63	26.51
	Equal variances not assumed			0.15	12.95	0.88	1.44	9.51	-19.12	22.00

4.7.3: One way ANOVA and Post Hoc test of seedling length in *A. brasiliiana*.

Test of homogeneity of variances

Species	Levene Statistic	df1	df2	Sig.
<i>A. brasiliiana</i>	3.38	2.00	12.00	0.07

ANOVA

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	1.12	2.00	0.56	3.20	0.08
Within Groups	2.11	12.00	0.18		
Total	3.23	14.00			

Tukey Post Hoc test

(I) Pollination test	Parent plant/ offspring	(J) Pollination test	Parent plant/ offspring	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
							Lower Bound	Upper Bound
open	parent	open	offspring	0.44	0.26	0.25	-0.26	1.15
		self	offspring	-0.21	0.26	0.71	-0.92	0.49
open	offspring	open	parent	-0.44	0.26	0.25	-1.15	0.26
		self	offspring	-0.66	0.26	0.07	-1.36	0.05
bagging	offspring	open	parent	0.21	0.26	0.71	-0.49	0.92
		open	offspring	0.66	0.26	0.07	-0.05	1.36