

Table 9: Chronology and sequence of development of flower in *Alternanthera* species.

FLOWERING PHENOLOGY	<i>A. sessilis</i>					
	Red leaf form			Green leaf form		
	Mean ± sd	Range	N samples in 10 individual plant	Mean ± sd	Range	N samples in 10s individual plant
Appearance of inflorescence to first anthesis (days) (a)		4–10	23		3–13	18
All the flowers in an inflorescence reach full anthesis (days) (b)		18–68	23		18–58	18
Life span of an inflorescence (days) (a + b)		22–78	23		21–71	18
Length of inflorescence when the first flower reach anthesis (mm)	2.90 ± 0.53	2.00–4.00	21	2.70 ± 0.44	1.87–3.50	31
Length of a fully anthesis inflorescence (mm)	5.65 ± 2.03	3.30–9.30	17	4.06 ± 0.79	2.65–5.77	25
Length of a mature flower (mm)	1.78 ± 0.17	1.40–2.10	68	1.66 ± 0.20	1.30–2.00	42
Total number of flowers in an inflorescence	25.12 ± 9.26	9.00–45.00	25	27.83 ± 9.51	13.00–53.00	18
Length of inflorescence that degenerate before all flowers reach anthesis (mm)						
Number of flowers per degenerated inflorescence		inflorescence do not degenerate before all the flowers reach anthesis				
Flower abortion (%)						
Flower anthesis and closing						
Peak hour of anthesis (hours)	0730–0800	0730–1000	34	0800–0900	0730–1000	29
Stage 1 to 2 (days)		only applied on <i>A. brasiliana</i>				
Stage 2 to 3 (days)		only applied on <i>A. brasiliana</i>				
Closing (hours)	1600–1700	1600–0730 the next morning	33	1600–1700	1300–0730, the next morning	29
Anther dehiscence (hours)						
a) starting	0800–0900	0800–1700	41	0800–0900	0730–1000	29
b) fully opened	1000–1100	0900–1500	33	1000–1100	0800–1600	29
c) type	longitudinal		40	longitudinal		29
Touching of the anther on the stigma (hour)	1600–1700	1400–1700	30	1400–1500	1000–1800	27
Stigma receptivity		from opening of flower to closing	66		from opening of flower to closing	42
Life span of a flower (days)	1		48	1		29

Key to the symbol used:  
x: absent; n.a.: not available

Table 9: Continued

FLOWERING PHENOLOGY	<i>A. brasiliana</i>						
	Parent plants			Offsprings			
	Mean ± sd	Range	N samples in 9 individual plant	Mean ± sd	Range	N samples in 9 individual plant	
Appearance of inflorescence to first anthesis (days) (a)		13–53	25		3–18	25	
All the flowers in an inflorescence reach full anthesis (days) (b)		inflorescence degenerate before all the flowers reach anthesis			inflorescence degenerate before all the flowers reach anthesis		
Life span of an inflorescence (days) (a + b)		52–133	25	n.a.			
Length of inflorescence when the first flower reach anthesis (mm)	5.88 ± 0.82	4.30–7.08	11	4.41 ± 0.23	3.87–4.90	15	
Length of a fully anthesis inflorescence (mm)		inflorescence degenerate before all the flowers reach anthesis			inflorescence degenerate before all flowers reach anthesis		
Length of a mature flower (mm)	2.51 ± 0.86	2.35–2.70	36	3.80 ± 0.41	3.20–4.60	25	
Total number of flowers in an inflorescence							
Length of inflorescence that degenerate before all flowers reach anthesis (mm)	5.55 ± 2.05	3.12–11.25	21	4.75 ± 0.50	3.85–5.56	13	
Number of flowers per degenerated inflorescence	37.62 ± 13.14	20.00–70.00	21	11.67 ± 1.66	7–15	13	
Flower abortion (%)	89.02 ± 10.18	65.00–100.00	21	74.36 ± 14.61	33.33–91.67	14	
Flower anthesis and closing							
Peak hour of anthesis (hours)	2200-2300			0800–0900	0700–1200	13	
Stage 1 to 2 (days)	1	<1–8	33	only applied on <i>A. brasiliana</i>			
Stage 2 to 3 (days)	same day or one day after stage 2			5			
Closing (hours)	do not close			1600–1700	1400–0730, the next morning	18	
Anther dehiscence (hours)							
a) starting		Anthers do not dehiscence			0700–0900	0700–1200	24
b) fully opened				x	x	x	
c) type				x	x	x	
Touching of the anther on the stigma (hour)		anthers do not touch the stigma			anthers are partially dehiscence or degenerate		
Stigma receptivity		stage 2 and 3 of flower anthesis			from opening of flower to closing		
Life span of a flower (days)		2–3	38	1	1–2	13	

Key to the symbol used:  
x: absent; n.a.: not available