

Appendix 4.2.1: Statistical analysis of inflorescence development and longevity.

4.2.1.1: Test of normality

Characters	Species	Kolmogorov-Smirnov			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Length inflorescence when the first flower reach anthesis	<i>A. sessilis</i> 'Red'	0.08	21.00	0.20	0.98	21.00	0.95
	<i>A. sessilis</i> 'Green'	0.14	31.00	0.11	0.96	31.00	0.27
Length of a fully anthesized inflorescence	<i>A. sessilis</i> 'Red'	0.13	17.00	0.20	0.91	17.00	0.10
	<i>A. sessilis</i> 'Green'	0.12	25.00	0.20	0.96	25.00	0.43
Number of flowers in a fully anthesized inflorescence	<i>A. sessilis</i> 'Red'	0.06	25.00	0.20	0.98	25.00	0.89
	<i>A. sessilis</i> 'Green'	0.17	18.00	0.16	0.90	18.00	0.06
Length of mature flower	<i>A. sessilis</i> 'Red'	0.19	68.00	0.00	0.93	68.00	0.00
	<i>A. sessilis</i> 'Green'	0.14	42.00	0.04	0.93	42.00	0.01
Length of degenerated inflorescence	<i>A. brasiliana</i> (parent plant)	0.12	21.00	0.20	0.91	21.00	0.06
	<i>A. brasiliana</i> (offspring)	0.15	21.00	0.20	0.87	21.00	0.01

4.2.1.2: Independent sample t-test

4.2.1.2A: *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
Length inflorescence when the first flower reach anthesis	Equal variances assumed	0.38	0.54	1.49	50.00	0.14	0.20	0.14	-0.07	0.48
	Equal variances not assumed			1.43	37.39	0.16	0.20	0.14	-0.08	0.49
Length of a fully anthesized inflorescence	Equal variances assumed	19.46	0.00	3.56	40.00	0.00	1.59	0.45	0.69	2.50
	Equal variances not assumed			3.08	19.31	0.01	1.59	0.52	0.51	2.67
Number of flowers in a fully anthesized inflorescence	Equal variances assumed	0.10	0.76	-0.94	41	0.35	-2.71	2.90	-8.56	3.13
	Equal variances not assumed			-0.93	36.20	0.36	-2.71	2.91	-8.61	3.18

4.2.1.2B: Mann-Whitney U test of the length of a mature flower between *A. sessilis* 'Red' and 'Green'.

	Details
Mann-Whitney U	921.00
Wilcoxon W	1824.00
Z	-3.17
Asymp. Sig. (2-tailed)	0.00
Exact Sig. [2*(1-tailed Sig.)]	921.00