

Appendix 4.1: Statistical analysis of morphological characters in *A. sessilis* 'Red' and 'Green' (terrestrial).

4.1.1: Test of normality.

Characters	Measurement	Leaf form	Kolmogorov-Smirnov			Shapiro-Wilk		
			Statistic	df	Sig.	Statistic	df	Sig.
Leaves	length (mm)	red	0.08	40.00	0.20	0.95	40.00	0.10
		green (aquatic)	0.17	24.00	0.09	0.93	24.00	0.80
		green (terrestrial)	0.18	12.00	0.20	0.84	12.00	0.03
	width (mm)	red	0.13	40.00	0.10	0.95	40.00	0.09
		green (aquatic)	0.18	24.00	0.05	0.92	24.00	0.07
		green (terrestrial)	0.14	12.00	0.20	0.92	12.00	0.30
Petal	length (mm)	red	0.19	40.00	0.00	0.96	40.00	0.14
		green	0.19	40.00	0.00	0.96	40.00	0.14
	width (mm)	red	0.16	40.00	0.01	0.91	40.00	0.01
		green	0.16	40.00	0.01	0.91	40.00	0.01
Stamen	length (mm)	red	0.13	40.00	0.10	0.93	40.00	0.02
		green	0.13	40.00	0.11	0.96	40.00	0.23
Pistil	length (mm)	red	0.21	40.00	0.00	0.93	40.00	0.02
		green	0.12	40.00	0.16	0.94	40.00	0.04

4.1.2: Independent sample T-test

		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 of leaf	Equal variances assumed	0.12	0.73	2.18	78.00	0.03	3.72	1.70	0.33	7.11
	Equal variances not assumed			2.18	76.78	0.03	3.72	1.70	0.33	7.11
Width of leaf	Equal variances assumed	15.54	0.00	0.71	78.00	0.48	0.38	0.53	-0.67	1.43
	Equal variances not assumed			0.71	67.96	0.48	0.38	0.53	-0.68	1.43
Length of stamen	Equal variances assumed	31.99	0.00	-2.54	78.00	0.01	-0.05	0.02	-0.09	-0.01
	Equal variances not assumed			-2.54	58.24	0.01	-0.05	0.02	-0.09	-0.01

4.1.3 Mann-Whitney U test of the length and width for petal in *A. sessilis* 'Red' and 'Green'

Details	The length of petal	The width of petal
Mann-Whitney U	526.00	792.00
Wilcoxon W	1346.00	1612.00
Z	-2.65	-0.08
Asymp. Sig. (2-tailed)	0.01	1.00
Exact Sig. [2*(1-tailed Sig.)]		

4.1.4: Independent sample T-test of the leaf length and width in *A. sessilis* 'Green' from two different habitats (terrestrial & aquatic).

		Levene's Test for Equality of Variances	Sig.	T-test for equality of means						
				t	df	Sig. (2-tailed)	Mean difference	Std. error difference	95% Confidence interval of the difference	
		F							Lower	Upper
Length of leaf	Equal variances assumed	0.61	0.44	2.11	34	0.04	6.13	2.91	0.21	12.05
	Equal variances not assumed			2.33	28.82	0.03	6.13	2.63	0.75	11.52
Width of leaf	Equal variances assumed	0.61	0.44	2.11	34.00	0.04	6.13	2.91	0.21	12.05
	Equal variances not assumed			2.33	28.82	0.03	6.13	2.63	0.75	11.52