

Table 1 – Transpiration Rate

Test	Condition	Slope (kPa/s)	Surface Area (cm <sup>2</sup> )	Rate/area (kPa/s/cm <sup>2</sup> )	Adjusted rate (kPa/s/cm <sup>2</sup> )
Environmental Condition	Wind	-0.002045 kPa/s	371.88 cm <sup>2</sup>	$-5.50 \times 10^{-6}$ kPa/s/cm <sup>2</sup>	
Adaptation Condition	Hairy Leaves	-0.001067 Kpa/s	337.69 cm <sup>2</sup>	$-3.16 \times 10^{-6}$ kPa/s/cm <sup>2</sup>	
Control		-0.001600 kPa/s	371.88 cm <sup>2</sup>	$-4.30 \times 10^{-6}$ kPa/s/cm <sup>2</sup>	

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Adaptation Condition	Papyrus (Sedge)	-0.2172	165 cm <sup>2</sup>		
Adaptation Condition	Succulent	-0.04309	18.8 cm <sup>2</sup>		
Adaptation Condition	Begonia Hairy Leaves	0.1101	6.75 cm <sup>2</sup>		
Adaptation Condition	African Violet (Hairy Leaves)	-0.3042	66.7 cm <sup>2</sup>		
Control		-0.3638	226cm <sup>2</sup>		

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Environmental Condition	Light Intensity	-0.8503	329.67	-0.002579	$4.66 \times 10^{-4}$
Control		-1.004	329.67	-0.003	

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Adaptation Condition	Hairy leaves - Not Waxy	0.0001065	54.8	1.94343E-06	5.01221E-07
Control	Waxy Leaves	0.000236667	164.1	1.44221E-06	

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Control		-0.0083	302	-0.0000275	

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Environmental Condition	Light Intensity	1.2384 kPa/s	462.5 cm <sup>2</sup>	373.4657623 kPa/s/cm <sup>2</sup>	579.4057391 kPa/s/cm <sup>2</sup>
Control		-2.2458 kPa/s	462.5 cm <sup>2</sup>	-205.9399768 kPa/s/cm <sup>2</sup>	

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Test	Condition	Slope (kPa/min)	Surface Area (cm <sup>2</sup> )	Rate/area (kPa/min/cm <sup>2</sup> )	Adjusted rate (kPa/min/cm <sup>2</sup> )
Adaptation Condition	Pinnate Leaf	-0.0361	100.00cm <sup>2</sup>	-0.0361/100.00cm <sup>2</sup>	-61.99964
Control	Simple Leaf	-0.0497	359.93cm <sup>2</sup>	-0.0497/359.93cm <sup>2</sup>	-61.9995

Note: Data calculated above per minute

Independent Experiment			
For our experiment 3 we had two plants, one with furry leaves adaptation and one with waxy leaves adaptation and we put each into a beaker with 3 ml of water in it. We then put a heat lamp over both plants and waited 25 minutes to see how much water each would absorb.			
Test adaptation	mL absorbed in 25 minutes	surface area of leaves cm <sup>2</sup>	
Furry Leaves	.51 mL	202	
Waxy leaves	.30 mL	143.83455	