**Experimental Data Sets**

The following data set might be useful when exploring transpiration. This document contains data for looking at the effect of windspeed on transpiration.

**Transpiration – wind speed**

In this experiment, a leafy stem from a horse chestnut tree was inserted into a piece of silicone tubing, which was inserted into a 1 cm plastic pipette, all under the surface of water so the tubing and pipette were filled with water. All connections were sealed with parafilm and Vaseline. The potometer was held in a clamp stand and a hairdryer was used on different speed settings to simulate changes in wind speed. The volume of water left in the 1 cm3 pipette was recorded after 10 minutes.

|  |  |
| --- | --- |
| **Hair dryer setting** | **Volume left in pipette after 10 minutes (cm3)** |
| **1** | **2** | **3** | **Average** |
| None | 0.8 | 0.8 | 0.91 | 0.84 |
| Low | 0.7 | 0.75 | 0.73 | 0.73 |
| Medium | 0.65 | 0.6 | 0.58 | 0.61 |
| High | 0.5 | 0.49 | 0.47 | 0.49 |