



Pollen Count Record Sheet

Sample number: 1 **Location:** School address
Start date & time: 10/2/00 9.00am **Finish date & time:** 11/2/00 9.00am
Flow meter (initial): 5000L **Flow meter (final):** 9000L **Air flow total:** 4000L
Eyepiece: 10x **Objective:** 10x **Magnification:** 100x
Filter paper weight: 1.2gm **Cut filter paper weight:** 0.6gm
Width of sample (mm): 20mm **Diameter (mm) of 'field of view' (f.o.v):** 1.4mm

1. Pollen Count

Tally the pollen grains you observe from at least 5 traverses. Be careful not to traverse the same area twice.

Traverse Number	Grass	Trees	Weeds
1			/
2		/	
3			/
4		/	
5		/	
6			
7			
8			
Total pollen grains	25	8	2
Average no. of grains / traverse	5	(g)	

2. Calculate the grass pollen grains in your cut sample

No. of grass pollen in sample = Ave. grass pollen grains / traverse (g) X $\frac{\text{width of sample}}{\text{diameter of f.o.v}}$

No. of grass pollen in sample = 5 x 20 / 1.4 = 71.5 pollen grains

3. Calculate the grass pollen on entire filter paper

Total grass pollen on filter paper (tgp) = $\frac{\text{No. of grass pollen in sample (2)} \times \text{weight of entire filter paper}}{\text{weight of cut sample}}$

= (71.5 x 1.2) / 0.6 = 143 (tgp)

4. Calculate the grass pollen grains per cubic metre of air

Grass pollen / m³ = pollen grains on entire filter paper (tgp) / total air sampled m³

= 143 / 4 = 36 pollen grains / m³