

Transpiration

Define transpiration.

Transpiration

How does water leave a leaf?

Transpiration

How do temperature and wind speed affect transpiration?

Transpiration

What does a potometer measure?

Transpiration **Supplement**

How do air spaces affect water loss?

Transpiration **Supplement**

How do stomata affect water loss?

Transpiration **Supplement**

What is transpiration pull?

Transpiration **Supplement**

Why does the water column in the xylem not break?

It evaporates from the surfaces of mesophyll cells into the air spaces, then diffuses out through the stomata.

The loss of water vapour from leaves.

Water uptake by a leafy shoot, as the distance an air bubble moves in a set time.

Higher temperature and more wind both increase the rate of transpiration.

The number and size of stomata affect how much water vapour diffuses out.

Interconnecting air spaces give mesophyll cells a large internal surface area for evaporation.

Forces of attraction between water molecules hold the column together.

The pull on water in the xylem caused by evaporation from the leaves. It draws up a column of water.

How does humidity affect transpiration?

Why does wilting occur?

Water is lost faster than it is taken up, so cells lose turgor and the plant droops.

Higher humidity reduces the concentration gradient, so transpiration is slower.