

Leaves, water uptake and extreme environments

How does increasing light intensity affect water uptake?

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How does increasing air movement affect water uptake?

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How does increasing temperature affect water uptake?

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What does a potometer measure?

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How do you calculate a rate of water uptake?

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How do you calculate percentage change in mass?

It increases it, because water vapour is carried away, keeping a steep concentration gradient.

It increases it, because the stomata open and more water vapour diffuses out.

The rate of water uptake of a leafy shoot, from the movement of an air bubble in a capillary tube.

It increases it, because water evaporates faster and water vapour diffuses out faster.

$(\text{change in mass} \div \text{original mass}) \times 100.$

$\text{Rate} = \text{change in quantity (such as distance moved or volume)} \div \text{time}.$