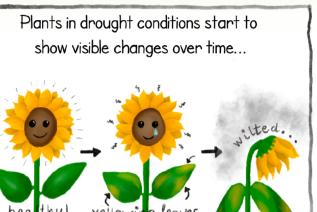
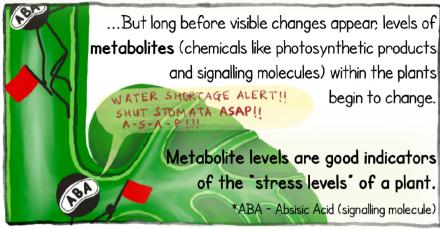
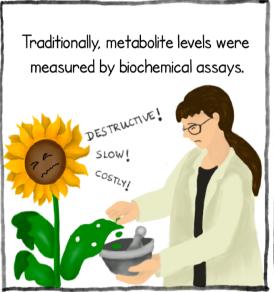
SEEING DROUGHT-AFFECTED PLANTS...IN A WHOLE NEW LIGHT!

CLIMATE CHANGE IS LEADING TO A HOTTER, DRIER WORLD.

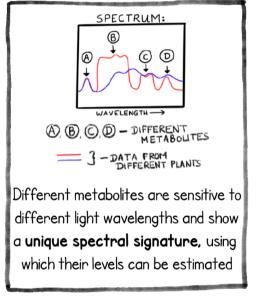
To feed our growing population, we need to find ways to improve the yield of crops under drought...
... and understand how plants respond to drought.



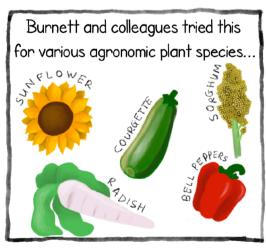








By using HYPERSPECTRAL LEAF REFLECTANCE SPECTROSCOPY to measure metabolite levels in real-time, we may be able to **detect drought stress BEFORE visible signs show up!**







Using this technique, they could reliably measure drought stress in plants **before** visible changes appeared!

This is extremely useful for **monitoring and managing drought stress** in plants.

In the future, it could also be used for **early detection and prevention of drought!**

Article: Burnett, Angela C., et al. "Detection of the metabolic response to drought stress using hyperspectral reflectance." Journal of Experimental Botany 72.18 (2021): 6474-6489.

Artist: Kshiti Mishra (Funded through an outreach grant awarded to Ravindra Palavalli Nettimi and Krishna Anujan)

