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# Measuring grass using spectral reflectance imagery

**THE ISSUE:**
Measuring grass yield can be time consuming and laborious

**PROJECT AIM:**
To investigate whether satellite and drone imagery can be a simpler and quicker method of measuring grass yield compared to a plate meter

**THE GROUP:**
Three Monmouthshire dairy farmers: David Jones, Hardwick Farm; Russell Morgan, Graig Olway Farm; David Morgan, Trostrey

## The Project Plan

- On each farm, a silage field will be split up to test different agronomic treatments *(e.g. fertiliser treatments, manure treatments or different grass varieties)*.
- Grass growth measurements will be recorded throughout the season using a plate meter.
- Satellite and drone imagery will also be taken at regular intervals following the different treatments and compared with the plate meter readings.
- The aim is to see whether drone and satellite imagery can be used with confidence to monitor growth and yields of grass, and whether they are quicker, cheaper and potentially more accurate than plate meter readings.

**"These new methods could potentially provide a non-labour intensive method of accurately measuring grass which can improve farm viability and competitiveness"**
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Cate Barrow (RSK ADAS)
*Innovation Broker for the project*

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