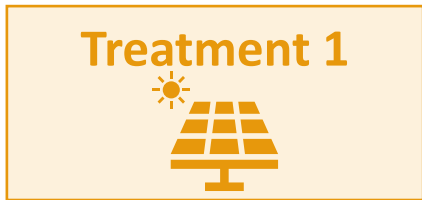
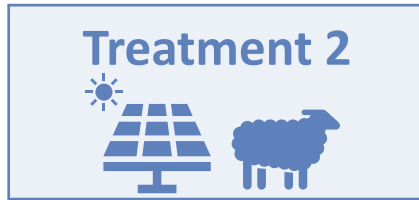


Studying Ecosystem Dynamics in an Agrivoltaic Grazing System

We are studying the ecosystem and carbon cycling impacts of a dual-use system with integrated solar PV and grazing by comparing three different land management schemes:



Solar Energy + Mowing

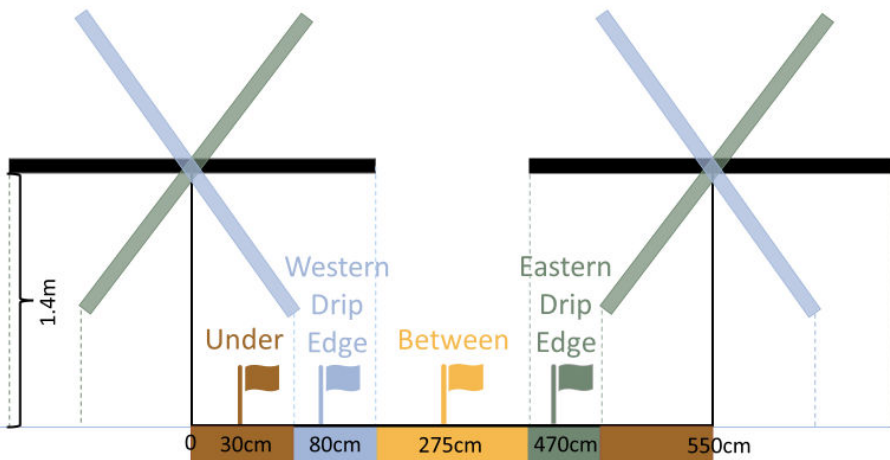


Solar Energy + Grazing



Grazing

Within each **treatment**, we've randomly selected nine 5.5m x 14m **plots** where data is collected.



The solar modules create **variability in microclimate** across just a few meters. To account for this variability, within each **plot**, data is collected across four different **zones** created by the modules.

What are we measuring?

Vegetation

- Live biomass & litter throughout the growing season
- Functional group composition



Microclimate

- Solar radiation
- Precipitation
- Humidity
- Air temperature
- Soil moisture
- Soil temperature

Soils

- Bulk density
- pH
- Soil carbon and nitrogen