

Agriculture and Plant Research



- **Plant growth conditions**

Air, soil and leaf temperatures for many different plants, outside glasshouses.

- **Glasshouse conditions**

For use as a portable monitor to log solar radiation in greenhouses.

- **Produce storage on the farm**

General use to monitor agricultural produce storage temperatures.



Monitoring temperature in grain warehouses and measuring air flow through grain in the tropics.

- **Weather conditions for agrochemical treatment**

Mobile weather station, recording temperature, humidity, wind speed/direction and solar radiation before and after agrochemicals are applied.



- **Slug research**

Monitoring the temperature and humidity of surface soil, relating results to slug activity in potato crops.

- **Animal parasite research**

Logging water temperature, soil temperature and above-ground humidity, linking the results to animal parasite activity. Also monitoring conditions in temporary bodies of water such as puddles.

- **Fly traps**

Monitoring wind speed and direction in connection with research into fly traps to protect test crops.

- **Herbicide testing**

Recording dissolved oxygen temperature, pH and conductivity in field trials testing aquatic herbicides.

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- **Animal building temperatures**

Animal housing studies.

Research into conditions which promote egg-laying/incubation.
Monitoring temperature in poultry houses to ensure optimum ventilation and temperature control and thereby increase efficiency.

- **Crop diseases**

Measuring temperature and humidity of crops to establish the conditions in which mildew and other diseases occur.

- **Field drainage experiments**

Monitoring water table readings in drained and un-drained soils.

Monitoring soil temperature, drain flow and rainfall in field drainage experiments.

- **Silage clamps**

Monitoring temperature in silage clamps in a research project to delay decay of silage in hot countries.

- **Mushroom production**

Monitoring temperature in mushroom production units.

- **Research on sheep**

Monitoring walking, feeding, deep body temperature and either skin, wool outside or wool inside coat temperature in sheep in experimental paddocks.

- **Sheep enclosures**

Monitoring the room temperature and humidity in sheep enclosures.

- **Transport of animals**

Monitoring temperature and humidity of animals during transport.

- **Grain chilling**

Monitoring air and grain temperature, relative humidity, air flow and electricity consumption of grain chilling system in order to assess the system's efficiency.