

STIRLINGS TO COAST



FARMERS

Davis Weather Station Maintenance

By Philip Honey (Smart Farms Coordinator)

Mounting Posts

- Check all nuts and bolts are still tight, and that the station doesn't move.
 - 3x at the top of the tripod legs
 - 3x below
- Check ground-stakes are tight against the ground
- Check tie-wire is sufficient in holding the tripod against the star-picket.



Rain Gauges

- Check the insides for spiders, spiderwebs, ants and other creepy crawlies.
 - Spray inside of the cone with a residual spray if becomes problematic.
- Clean tipping spoons with a damp, soft cloth or baby wipe.
 - Unplug rain-gauge first!
- Check for bird poo in aerocone, and ensure drainage hole is not clogged



Temperature & Humidity Sensors

- Check for excessive dirt build-up or things that will reduce air-flow.
 - Wipe outer rings with a damp cloth
 - Clean sensor with a tooth-brush if required.



Anemometers

- Check wind-vane and direction paddle move freely.
 - If no free movement, replace anemometer with a new mechanical or ultrasonic anemometer.
- Clean wind-cups & paddles with a mild detergent and water.
- Check anemometer is tight against the unit, and is mounted at a bearing of 180 degrees (due south).



Solar Radiation Sensors

- Clean the white diffuser with a cloth or cotton swab dampened with ethyl alcohol.
- Do not touch the sensor with your fingers or use denatured/rubbing alcohols to clean the sensor.

