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| Parameter measured | Description |
| Soil Moisture | Dielectric constant measuring device. Measurements are at 2, 4, 8, 20 and 40” depths where possible. |
| Soil Temperature | Encapsulated thermistor. Measurements are at 2, 4, 8, 20 and 40” depths where possible. |
| Precipitation | Tipping bucket rain gauge |
| Air Temperature | Shielded thermistor |
| Relative Humidity | Thin film capacitance type sensor |
| Wind Speed/Direction | Propeller-type anemometer |
| Solar radiation | Pyranometer |
| Snow Water Equivalent | Snow pillow device and pressure transducer (not all stations) |
| Snow Depth | Sonic sensor (not all stations) |