Table 1: Instrumentation in different study area

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| Location/Orchards | Instruments used | Purpose |
| St. Joseph, SWMREC, Charlotte, Hillsdale, HTRC, growth chamber | HMP 60, Temperature and relative humidity probe | measures temperature and relative humidity |
| St. Joseph, SWMREC, Charlotte, HTRC, Growth chamber | E-chromium constantan thermocouples | measures the internal temperatures of buds  |
| HTRC, Growth chamber | Infrared temperature sensors (OS 212 and OS 315)  | measures the external temperatures of buds  |
| HTRC | Kipp and Zonen pyrgeometer | measures net radiation and all four components of net radiation |
| Cup anemometer | measures wind speed |