

Thresholds, Monitoring, and Sampling

Implementing an IFP weather station network

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Abstract: The Integrated Fruit Production Network, or IFPnet, seeks to assist Mid-Columbia area orchardists to implement IFP practices. Using data collected from the weather stations, growers are able to view insect, pest and irrigation models specific to their orchards via the internet. The growers can then apply environmentally safe pesticides, implement irrigation water management and monitor frost and spray conditions. Currently, 46 weather stations make up IFPnet. Each station collects ambient air temperature, relative humidity, precipitation, leaf wetness, wind speed and direction, soil moisture and temperature, solar radiation and barometric pressure data. The stations transmit these data via radio telemetry to a central computer server. From the server, the data are then posted to an internet web site where they can be accessed by growers, orchard managers, pesticide applicators and crop consultants. Data and modeling information from the network are available to the public at: www.ifpnet.com.