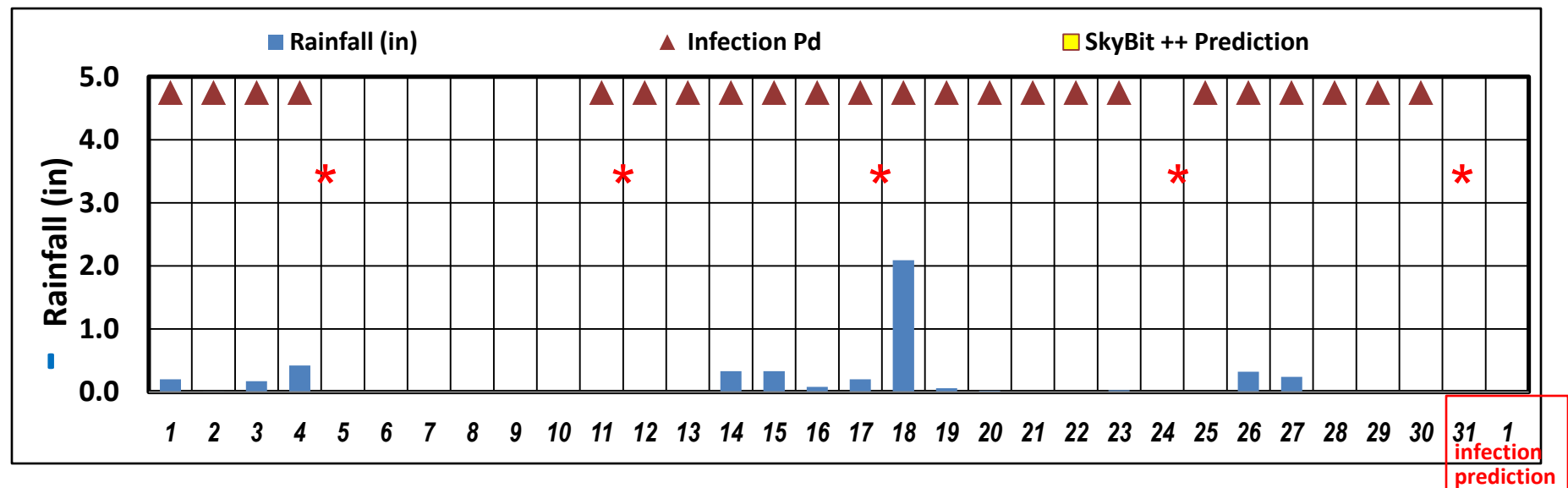
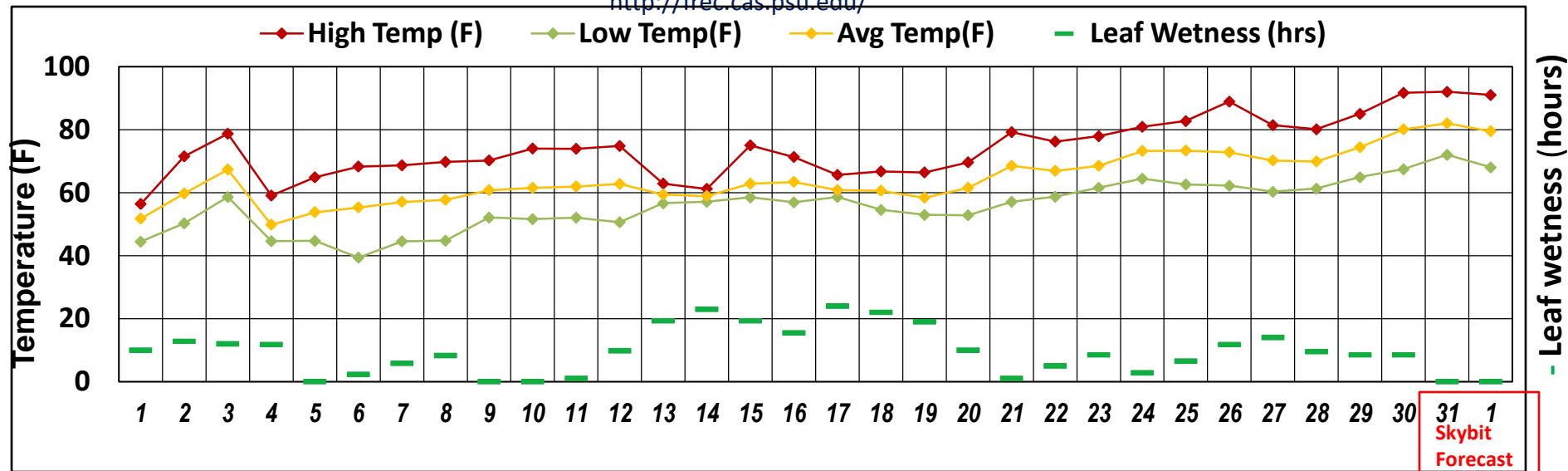


# 2011 Apple Scab Infection Periods 1 May to 30 May<sup>1</sup> and forecast/infection prediction through 1 June

Penn State – FREC, Biglerville, PA

<http://frec.cas.psu.edu/>



<sup>1</sup> Campbell Scientific Weather Data System & New Mills Apple Scab Disease Model.

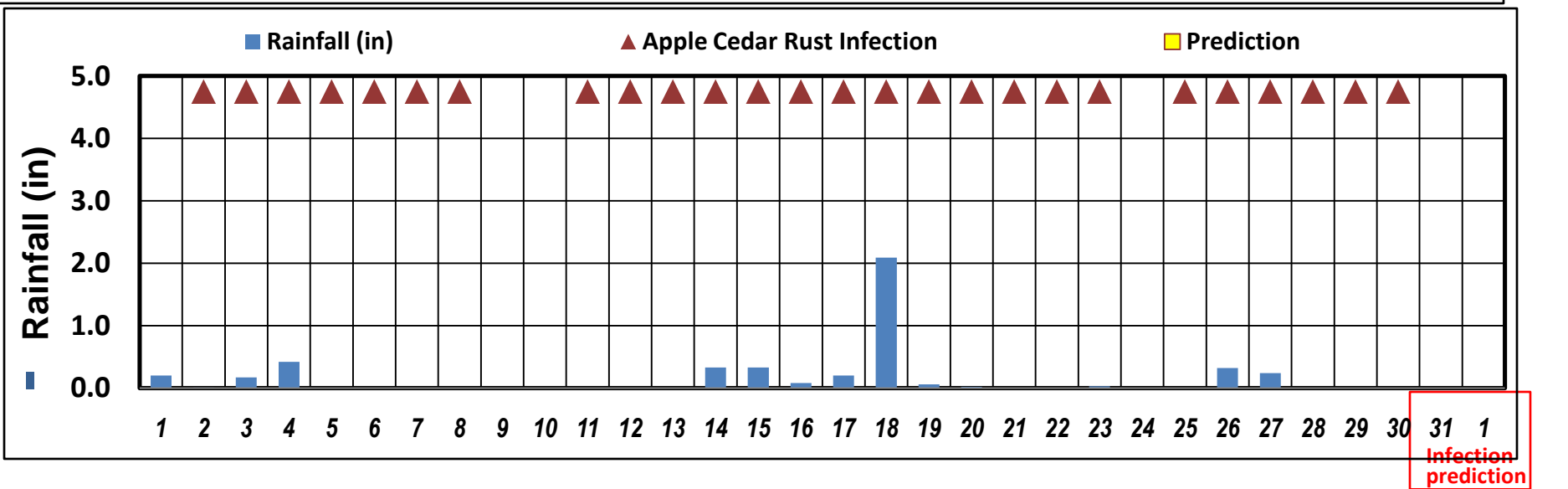
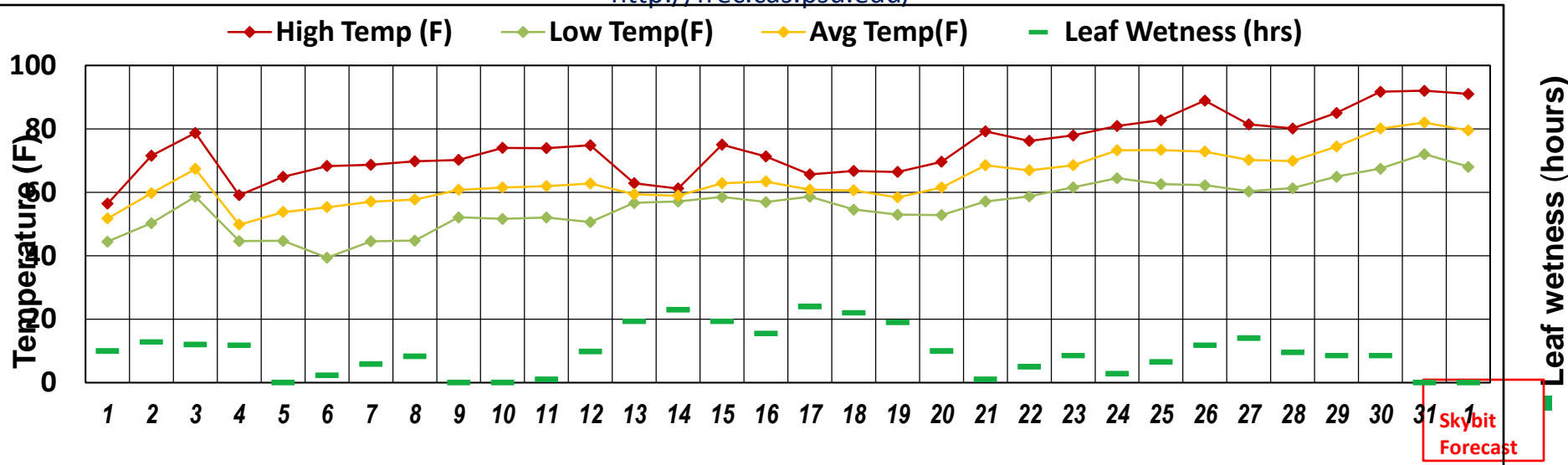
● forecast based on Skybit Ag E-Weather IPM Apple Disease Report., scab infection predicted. \*First ascospore maturity 3-25-11. First Scab symptoms on May 1<sup>st</sup> (Rome Beauty).

# 2011 Apple Cedar Rust Infection Period 1 May- 30 May<sup>1</sup> and forecast/infection prediction through 1 June



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*Gymnosporangium juniperi-virginianae* overwinters on galls on the cedar tree. Wetting of galls initiates expansion of horns & production of basidiospores w/c are carried to apple trees. Basidiospores are produced w/in 4 hrs at 52-77 °F. Lesion begin to appear 10-14 da after infection. Low and Severe Risk of Cedar Rust infection. Infection model adapted from APS Compendium of Apple & Pear Diseases.

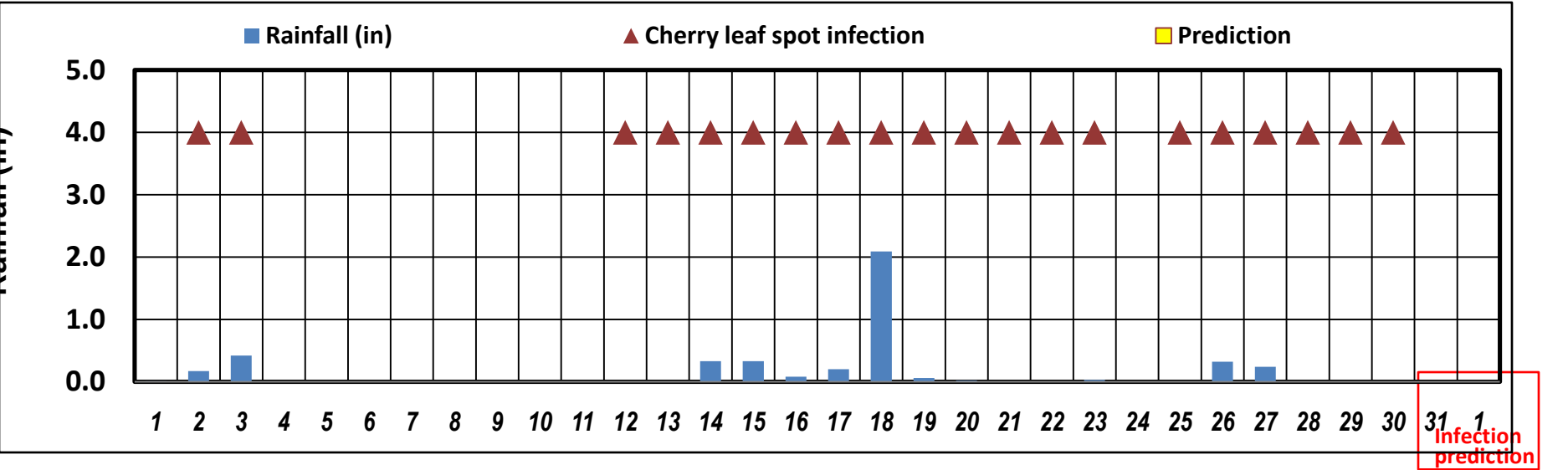
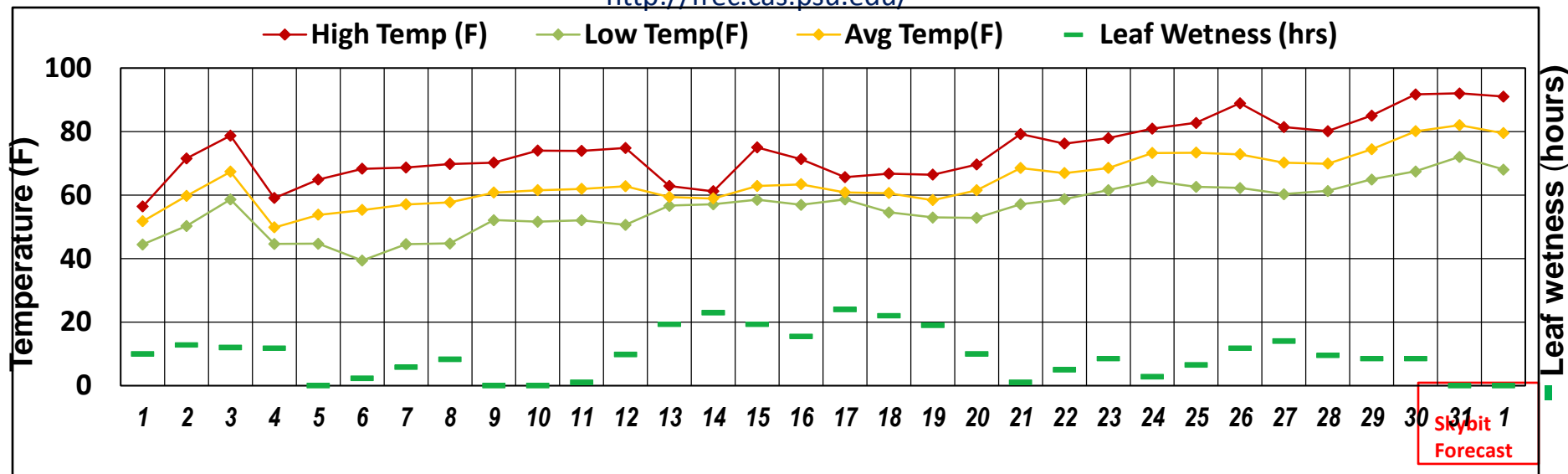
# 2011 Cherry Leaf Spot Infection Period 1 May- 30 May<sup>1</sup>



and weather forecast through 1 June

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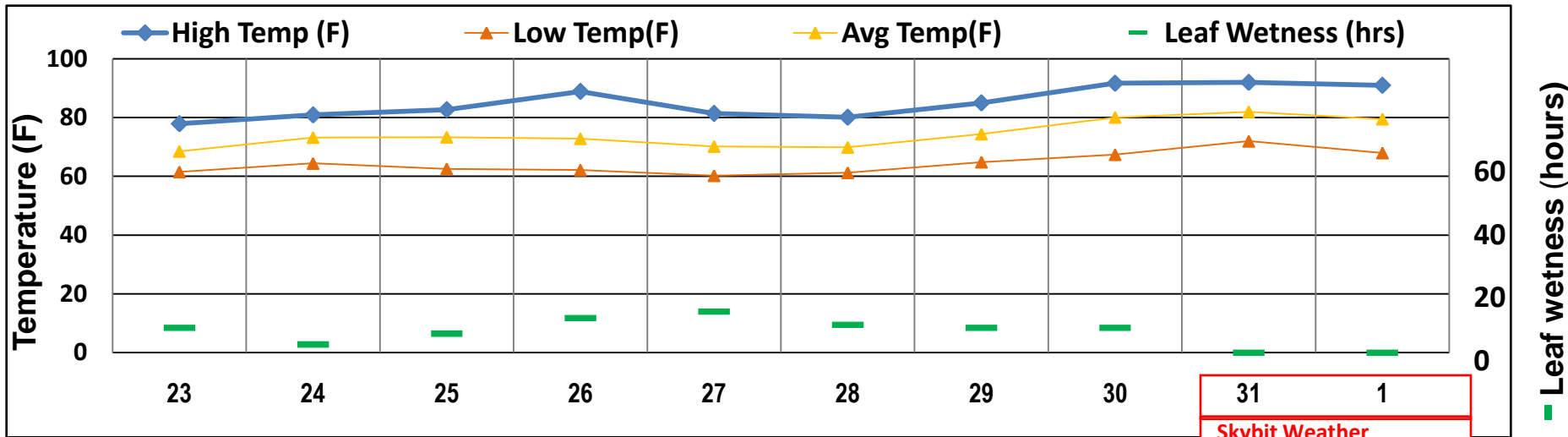
\* *Blumeriella jaapii* overwinters in diseased leaves on the ground. Ascospores are released from apothecia around bloom during wet periods. 60-68 ° F are favorable for disease development. Symptoms can occur in 5 days after infection. Low, Moderate, Severe risk. <sup>1</sup> Campbell Scientific Weather Data System & Eisensmith & Jones. Phytopathology 71: 728-732

# 2011 **Bacterial Spot** Infection Period 23 May-30 May<sup>1</sup> and forecast/infection prediction through 1 June

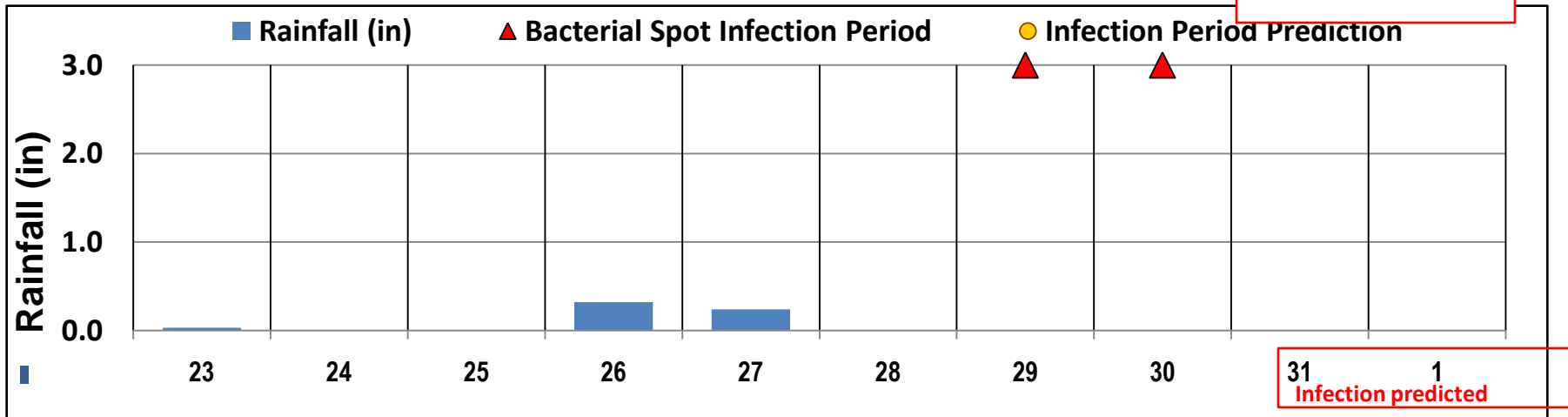


Penn State-FREC, Biglerville, PA

<http://frec.cas.psu.edu/>



Skybit Weather Forecast



Infection predicted

\* *Xanthomonas pruni* favors warm temperatures (70-85 degrees F) with light rains, heavy dew, windy weather are most conducive for disease development and spread. Infections occur only when the leaves are wet and the amount of disease increases exponentially. Spectrum Weather Monitoring System & Ohio State University Bacterial Spot of Stone Fruit, HYG-3019-95.