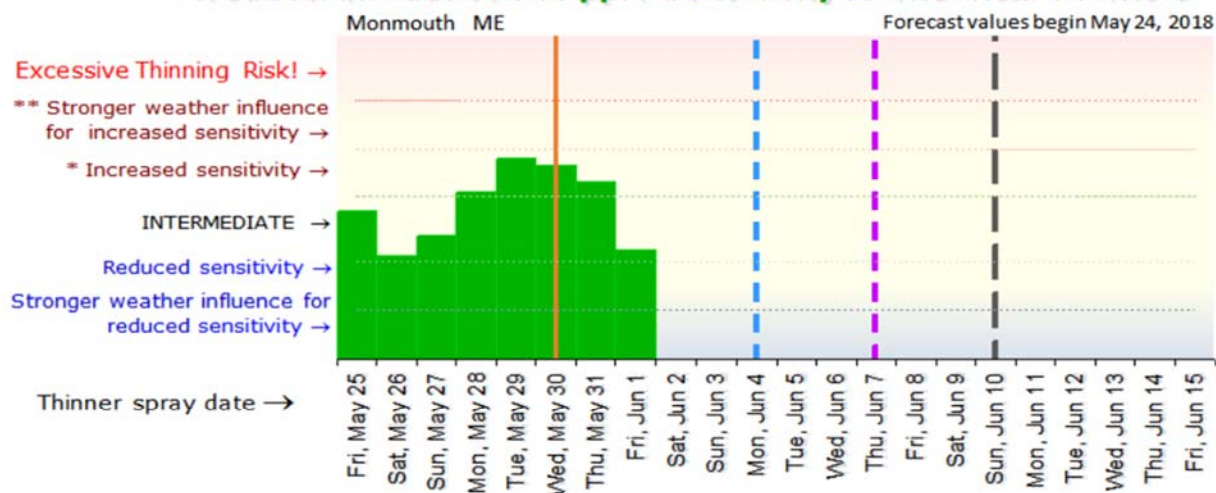


Monmouth Weather Influence on Apple Sensitivity to Chemical Thinners

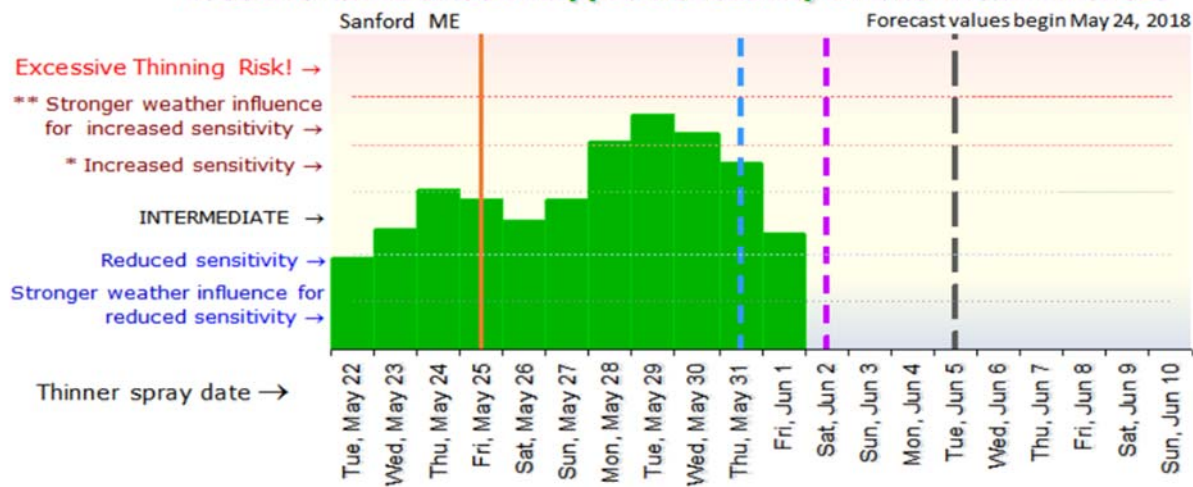


Green columns show thinning sensitivity rating for apples up to 12mm diameter on unstressed trees for the 3 day window after application of thinner on morning of date listed. For evening application, use rating for the following day. Ratings reflect the influence of daytime cloud cover and night temperatures for 72 hours following a morning application, not just for that day. You do not need 3 days in a row with high ratings for good thinning. Each day's rating is for a 3 day period. Most of the weather influence on sensitivity to a thinner is during the first 3 days after application. Horizontal lines mark transition levels between sensitivity categories. "Good thinning" for trees with average sensitivity is associated with ratings in the "Increased Sensitivity" range.

Vertical blue dashed line marks estimated McIntosh fruit diameter exceeding 12mm, causing decline in sensitivity below rated value.

Vertical purple dashed line marks estimated McIntosh fruit diameter exceeding 15mm, causing decline in sensitivity substantially below rated value, and rapid decline in efficacy of NAA and Maxcel. Vertical black dashed line marks estimated McIntosh fruit diameter exceeding 18mm, bringing an end to the thinning window for carbaryl. Ratings for dates beyond the McIntosh 18mm date are for later cultivars that still have fruit smaller than 18mm diameter. Vertical solid orange line marks date when fruit have reduced sensitivity after 2 or more days of temperatures > 75F. This may occur on same day and overlap one of the other vertical bars.

Sanford Weather Influence on Apple Sensitivity to Chemical Thinners



Green columns show thinning sensitivity rating for apples up to 12mm diameter on unstressed trees for the 3 day window after application of thinner on morning of date listed. For evening application, use rating for the following day. Ratings reflect the influence of daytime cloud cover and night temperatures for 72 hours following a morning application, not just for that day. You do not need 3 days in a row with high ratings for good thinning. Each day's rating is for a 3 day period. Most of the weather influence on sensitivity to a thinner is during the first 3 days after application.

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