Chemical Thinning Windows and Available PGR's

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All PGRS applied Dilute Tree Row Volume Per Acre rate
Nibble Approach- Bloom, Petal Fall (6MM), 10-14 MM if needed, and 15-20MM if needed.
Also see Spray Mixing Instructions Considering Tree Row Volume

- **Bloom**
  - Ammonium Thiosulfate (ATS)- used with pollen tube growth model -2 apps
  - Lime Sulfur and Fish Oil- 1-2 apps
  - NAA*- 10PPM/ 4 ounces per acre@ 100 gpa/TRV dilute-Preferred for Return Bloom- we use a higher rate of NAA at bloom as it is less effective then
  - NAD***- 8 ounces per acre @ 100 GPA/TRV dilute- Preferred for Return Bloom- we use a higher rate of NAA at bloom as it is less effective then- remember NAD is a cousin to NAA

- **Petal Fall (fruits at 6mm) different varieties different mix's**
  - Sevin XLR*****- 1-3 pints per acre- variety dependent
  - 6Ba** + Sevin XLR- 6Ba ranges from 50-125ppm
  - NAA
  - NAA + Sevin XLR
  - NAD+Sevin XLR
  - Maxcel + NAA- if trying to not to use Sevin

- **Fruits at 10-14 mm -(traditional window)- different varieties different mix's**
  - NAA + Sevin XLR
  - 6Ba + Sevin XLR
  - 6Ba + NAA
  - NAD- used on Stayman at this time @50PPM

- **Fruits at 15-20 mm (rescue thinning)**
  - Accede- 300-400 + Regulaid@16 ounces/100- preferred at this timing based on 2023 results in NJ with /Accede for apple. Dr Greg Clark/Valent guides minimum of 300ppm on apple.
  - NAA + Sevin
  - 6Ba + Sevin + Oil/or Regulaid

- **Rescue Thinning 20-25MM- rarely needed with Nibble approach and now Accede**
  ****Ethrel (Ethephon 2)+ Sevin XLR- See UMASS Fact sheet F-129R - **Late-season "Rescue" Thinning with Ethephon: Autio and Cowgill.**

***NAA Formulations:** Fruitone L, Refine 24.2L, PoMaxa Plant Growth Regulator
****6Ba-**Formulations: MaxCel, Exilis 9.5 SC
*****NAD- Formulation Amid-Thin W
******Ethrel-Ethephon 2
******* Sevin XLR Plus- is preferred, there are other formulations of Carbaryl but we have the most experience with the Sevin XLR Plus and thus most consistency

Reference

Spray Mixing Instructions Considering Tree Row Volume. Horticultural News, Summer, Vol 97, No3
http://www.horticulturalnews.org/97-3/a1.pdf

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