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- crop production consulting services
- fertility management programs
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2019 western New York apple/pest highlights -

- **Weather** - Yet another normal year. EXTREMELY cool and wet 2019 spring in western NY- on the heels of the very hot and dry 2018 growing season. 2019 WNY apple crop maturity was about 1 week behind normal.
- **Pest management program costs were VERY high** mostly due to non-stop primary apple scab spraying. Many growers applied 3-4 more early-season fungicide sprays than "normal". 18-20 total sprays applied by many growers.
- **Apple scab control** -
 - **EXTREMELY high primary scab pressure**- fortunately followed by moderate secondary scab and summer disease pressure.
 - Many incredibly long primary apple scab infection events(32-80 hours of wetting)- including 5 prolonged infections during the 2.5 weeks trees were stuck at tight cluster to pink. Total 2019 hours of primary scab wettings exceeded 325 hours !!!!!
 - The gap in scab control between captan and mancozeb based programs continues to widen...
- **Powdery mildew control** - SDHIs continue to perform very well vs. powdery mildew.
- **Fireblight control** - Low 2019 fireblight pressure in WNY- with VERY little blight observed. Integrating SARs into integrated fireblight control programs continues to look great in both grower and commercial apple nurseries(near-zero blight losses) and in ultra-high risk varieties(Koru, NY2 & Gala).
- **Internal worms(IW)** - VERY high late-season OFM pressure(trap counts)- but few serious issues.
- **San Jose Scale(SJS) is now a potential concern in most WNY orchards**- but Esteem and Centaur again performed extremely well. Dormant chlorpyrifos performance slipping. (No dormant oil used)
- **Woolly apple aphid(WAA)** - **Increasing WAA pressure**- especially in mature high-density M9 plantings(especially Fuji & Empire). Movento applied at 1st cover mostly performed well vs. WAA. Diazinon unfortunately remains the only late-season WAA control option in problem orchards.
- **Mites** - VERY low 2019 mite pressure. Very low Agri-Mek pricing(\$5-\$10/acre) continues to make it pretty challenging for growers to practice good resistance management programs.
- **Potato leafhopper(PLH)**- Typically high post-bloom PLH pressure- but remains very easy to control.
- **Black stem borer(BSB)** - There seem to be fewer & fewer problem BSB blocks- but traps continue to catch BSB adults pretty much all season long. Best BSB control = improved soil drainage.
- **BMSBug**- BMSB steadily becoming more commonplace in western NY- exacerbated by ever-increasing soybean acreage bordering apples in WNY. Compared to 2018, mostly lower BMSB numbers in late September - early October resulting in a few late-season apple sprays.
- **SWD in cherries** - Very high 2019 SWD populations as in the damp 2017 season- but no control issues.

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