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- crop production consulting services
- fertility management programs
- pest management programs
- record-keeping systems
- pesticide regulatory compliance programs

2018 western New York apple/pest highlights -

- **Weather** – Unusually hot and dry in western NY for most of the season – nearly opposite of the cool and wet 2017 season. Fortunate mid-August rains of 5-8" saved the day – but early varieties often size-challenged. Temperature-wise – June was like July, July was like July, August was like July, and September was like August. WNY harvest will finally wind down by about 11/03 - 11/10.
- **Pest management program costs** – Fewer primary scab sprays than normal – due to rapid pre-bloom tree growth and only 6 primary infection periods. But this was offset by more later sprays than normal for insect pests well into September – vs. woollies, internal worms, and in a few cases stink bugs.
- **Apple scab control** – Moderate primary scab pressure – generally low secondary scab and summer disease pressure. The gap in scab control between captan and mancozeb continues to widen . . .
- **Fire blight control** – Light fire blight pressure – very little blight observed. Integrating SARs into integrated fire blight control programs continues to look great in apple nurseries and on high-risk varieties (Koru, NY2, and Gala). Very little hail compared to 2017 . . .
- **Internal worms (IW)** – VERY high late season pressure (trap counts) – but *so far*, few serious issues.
- **San Jose Scale (SJS)** – [VERY high pressure](#). Many new SJS hotspots in previously clean orchards despite dormant chlorpyrifos use. Esteem and Centaur performed very well. (No dormant oil used)
- **Woolly apple aphids (WAA)** – [Higher WAA pressure than normal](#) – especially in mature high-density M9 plantings (especially Fuji, Empires). Movento at 1st cover continues to perform VERY well vs. WAA.
- **Mites** – Variable mite pressure despite hot and dry conditions. Very low Agri-Mek pricing continues to make it pretty challenging for growers to practice good resistance management programs.
- **Potato leafhopper (PLH)** – Typically high PLH pressure – but remains very easy to control.
- **Black stem borer (BSB)** – There seems to be somewhat fewer problem blocks – but traps catch BSB adults pretty much all season long.
- **SWD ??** – Where did it go in 2018? No issues at all vs. 2017 problems. Our own trap counts (20+ traps) remained quite low until very late sour cherry season. Likely

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controlled by hot dry 2018 weather, Imidan, and Danitol ?? We could use a more efficient, less tedious SWD monitoring system . . .

- **BMSBug** – BMSB becoming MUCH more commonplace in western NY – exacerbated by ever-increasing soybean acreage bordering apples in WNY. BMSB numbers high in late September – early October resulting in some late sprays. Tons of BMSB adults infiltrating homes etc. on unusually warm 80° F mid-October days. We expect to see at least some “surprise” fruit injury out of storage . . . [BMSB in 2019 ???](#)
- **Chlorpyrifos future ??** – Aging chemistry steadily becoming weaker in dormant sprays vs. SJS & WAA – but it may be missed vs. black stem borer ??

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