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**Calendar of Events**  
**December 3-5, 2019** – Midwest Food Producers Association Annual Convention/Processing Crops Conference, Wisconsin Dells, WI  
**January 26-28, 2020** – WI Fresh Fruit & Vegetable Growers Conference, Wisconsin Dells, WI  
**February 4-6, 2020** – UW-Madison Div. of Extension & WPVGA Grower Education Conference, Stevens Point, WI

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This spring we had a slow start and delayed planting due to the cold rainy weather. In May and June we had several weeks of overcast skies that resulted in low photosynthesis rate and low evapotranspiration (ET), which slowed down tuber initiation and early-stage tuber bulking. My program had both early-season varieties (80 days from emergence to vine kill) and full-season varieties (110 days from emergence to vine kill) in our research trials conducted at the Hancock Research Station. Overall we get good tuber set, ok total yield, and **very poor size profile**. Table below shows our average total yield and marketable yield for standard varieties in our trials:

Variety	Total yield (cwt)	Marketable yield (tubers>6oz) (cwt)
GoldRush	450	160
Dark Red Norland	450	70
Russet Burbank	470	100
Russet Norkotah	450	150
Silverton	500	270
Snowden	500	125
Lamoka	400	80

We also collected yield and size data from our on-farm trials (about 110 days between emergence and vine kill):

Variety	Total yield (cwt)	Marketable yield (tubers>6oz) (cwt)
Silverton	550	360
Russet Burbank	500	120

Specific gravity looks good across varieties, and we barely found hollow heart due to lack of large tubers. Vine kill scheduling was difficult because of delayed plant growth and maturity. Several days – weeks of heavy rain events during the harvesting season, as well as the short window left before the first fall frost forced the growers to run 24/7 shift schedule and work around the clock.

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**Cucurbit downy mildew:** No new cucurbit downy mildew reports from this past week, but, to date, we've had a few in WI including Buffalo (9/5); Vernon (8/20) and Dane County (8/20). **Visit our 2019 WI Commercial Vegetable Production Guide** for further information pertaining to the fungicides listed in this newsletter. <https://learningstore.uwex.edu/Assets/pdfs/A3422.pdf> The cucurbit downy mildew reporting and forecasting site <http://cdm.ipmpipe.org/> indicated new confirmations of downy mildew in AL during this past week. In 2019 so far, the site documented confirmations in AL, AR, CT, DE, FL, GA, IN, KY, MA, MD, MI, MO, MS, NC, NH, NJ, NY, OH, PA, RI, SC, TN, VA, WI, and WV.

**Potato & Tomato Late Blight Updates:** A few new reports from tomato and potato this past week in Waushara, Barron, and Polk Counties.

Date	County	Host Crop	Clonal Lineage
7/17/2019	Wood	Potato	US-23
8/2/2019	La Crosse	Tomato	US-23
8/6/2019 8/15/2019 8/22/2019 9/3/2019	Portage	Potato Potato Potato Potato & Tomato	US-23 US-23 US-23 US-23
8/13/2019	Monroe	Tomato	US-23
8/14/2019 8/27/2019	Adams	Potato Potato	US-23 US-23
8/14/2019 8/15/2019 8/19/2019 10/3/2019	Waushara	Potato Potato Tomato Potato	US-23 US-23 US-23 TBD
8/14/2019	Vernon	Tomato	US-23
8/19/2019 9/13/2019	Crawford	Potato Potato & Tomato	US-23 US-23
8/24/2019 9/16/2019	Sauk	Potato Tomato	US-23 US-23
8/29/2019	Juneau	Tomato	US-23
9/12/2019	Shawano	Potato	US-23
9/13/2019	Green Lake	Tomato	US-23
9/18/2019	St. Croix	Tomato	US-23
9/26/2019	Walworth	Tomato	US-23
9/30/2019	Polk	Tomato	US-23
10/4/2019	Barron	Tomato	US-23