

## FRUIT IPM UPDATE #4

*June 5, 2019*

### Strawberry Pest Counts

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Strawberry fields are approaching full bloom in the southern half of the state. In spite of recent warm weather, pest counts are low. I have seen no thrips in any strawberry fields. Tarnished plant bug numbers continue to be low. The most common pest is the clipper weevil.

Site	Date	% bloom	Tarnished plant bug nymphs/cluster	Adult TPB in field	Clipped buds/ft	Thrip nymphs /cluster
Redwood Falls	6/1	20	1	0	0	0
Champlin	5/29	10	0	0	0.05	0
Brainerd	5/29	20	0	0	2	0
Ham Lake	6/6	60	0	0	4	0
Menomonie, WI	6/6	40	0.10	0	0.05	0
Browerville	6/4	20	0.05	0	0.05	0

### Apple Insect Pests: Weekly Trap Counts for 2019

County	Location	2019 Degree Days (Dates)*	Dates Traps were Out in Orchard	CM	DWB	LAW	OBLR	RBLR	STLM
Carlton	Wrenshall	103.6 (04-01 to 06-04)	05-29 to 06-04	0	0	0	0	0	0
Chisago	Shafer	230.8 (04-01 to 06-04)	05-29 to 06-05	2	0	6	0	21	26
Dakota	Lakeville	381.1 (04-18 to 06-05)	05-30 to 06-05	2,3	0	4	0	6	10
Fillmore	Preston	407.6 (04-01 to 06-04)	05-30 to 06-04	0	0	9	0	2	6
Morrison	Little Falls	---	05-29 to 06-04	0	2	25	0	23	51
Nobles	Worthington	361.1 (04-01 to 06-05)	05-30 to 06-05	0	0	0	0	0	0
Rice	Faribault	325.1 (04-01 to 06-03)	05-28 to 06-03	0	0	0	0	6	3
Scott	Veseli	304.1 (04-23 to 06-05)	05-30 to 06-05	63	0	35	0	17	56
Washington	Afton	263.1 (04-01 to 06-04)	05-29 to 06-04	0	0	11	0	8	15
Washington	Hastings #1	---	05-29 to 06-04	0	0	12	0	5	13
Washington	Hastings #2	293.1 (04-01 to 06-04)	05-30 to 06-05	0,0,0,0	0	8	0	12	30
Washington	White Bear Lake	398.5 (04-01 to 06-05)	05-29 to 06-05	3	0	8	0	2	20
Wright	Buffalo	---	05-30 to 06-05	14	3	33	2	28	~85
Wright	Buffalo	218.1 (04-01 to 06-04)	05-29 to 06-04	18	0	3	0	6	38

**KEY:** AM = apple maggot, CM = codling moth, DWB = dogwood borer, LAW = lesser apple worm, OBLR = obliquebanded leafroller, RBLR = redbanded leafroller, STLM = spotted tentiform leafminer, AM = apple maggot --- = no data provided.

\* Degree days using Spec 7 Pro or Spec 8 Pro = cumulative or integral degree days (uses hourly temperatures), with calculation parameters of Base Temp = 50°F and Upper Limit = 86°F.

## 2019 Apple Scab Infections (Cornell Model)

Produced using Spec 7 Pro or Spec 8 Pro (Spectrum Technologies, Inc.)

(Parameters: Base temp. = 33 degrees F, Upper limit temp. = 78 degrees F, Wetness threshold = 6)

Orchard	# of Infection Periods	Infection Period Dates	Overall Hours of Wetness	2019 Dates
Faribault	2	05-28, 05-30	44	05-28 thru 06-03
Hastings #2	2	06-04, 06-05	15	05-30 thru 06-05
Lakeville	2	06-04, 06-05	24.1	05-30 thru 06-05
Shafer	4	05-31, 06-01, 06-04, 06-05	25	05-29 thru 06-05
Veseli	2	06-04, 06-05	16.5	05-30 thru 06-05

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