

Tufted Apple Budmoth Management Recommendations, 2017

(based on degree-day (DD) accumulations from biofix and percent egg hatch at Winchester, VA)

DD-based timing recommendations below are based on complete or alternate-row-middle sprays

Biofix on April 29		
Date	Accumulated DD from biofix	% egg hatch
1-May	86	0
4-May	127	0
8-May	161	0
11-May	201	0
15-May	236	0
18-May	330	0
22-May	417	0
25-May	464	0
29-May	550	13
1-Jun	608	24
6-Jun	745	50
8-Jun	777	54
12-Jun	897	77
15-Jun	998	96
19-Jun	1136	100
22-Jun	1222	100
26-Jun	1329	100
29-Jun	1407	100
4-Jul	1576	100
6-Jul	1638	100
10-Jul	1758	100
13-Jul	1866	100
17-Jul	1995	100
20-Jul	2102	100
24-Jul	2242	5
27-Jul	2328	16
31-Jul	2427	29

Date	Accumulated DD from biofix	% egg hatch
3-Aug	2523	41
7-Aug	2637	56
10-Aug	2715	66
14-Aug	2824	81
17-Aug	2920	94
21-Aug	3049	100

Estimated percent egg hatch based on accumulated DD from biofix (base temperature of 45°F; Penn State TABM model)

Blue Cells

Prepare to control 1st brood larvae.

Suggestion of pyrethroids post-bloom is based on the threat from brown marmorated stink bug. Their use may flare secondary pests. Some of the products suggested will not control other key pests.

Suggested insecticides: Optimal timing for complete sprays using Altacor, Besiege, Belt, Delegate, Exirel, or Voliam Flexi at 585 - 640 DD, then after about two weeks; alternate-row-middle sprays should be initiated 50 - 75 DD earlier (at 530 DD) and repeated up to four times at 7-day intervals, depending upon pressure. For all other materials, control first brood with two complete applications at 530 - 585 DD and 805 - 855 DD; alternate-row-middle sprays should begin 50 - 75 DD earlier and be repeated at 7-day intervals.

Orange Cells

Prepare to control 2nd brood larvae, if moth counts in pheromone traps indicate tufted apple budmoth pressure.

Suggested insecticides: Optimal timing for complete sprays of Altacor, Besiege, Belt, Delegate, Exirel, or Voliam Flexi at 2355 - 2435 DD, then at 2655 - 2740 DD; alternate-row-middle sprays at 7-day intervals should begin 50 - 75 DD earlier (at 2280 DD). For all other materials, control second brood with complete applications at 2280 - 2355 DD and 2665 - 2740 DD; alternate-row-middle applications at 7-day intervals should begin 50 - 75 DD earlier. Suggestion of pyrethroids post-bloom is based on the threat from brown marmorated stink bug. Their use may flare secondary pests.

Depending on variety, preharvest intervals now become a consideration for product selection.