

Heather Faubert
University of Rhode Island



June 2, 2014

CougarBlight

Requires 100 – 200 heat units for HIGH rating, 200 – 300 for EXTREME!, and 301+ for EXCEPTIONAL!

If blossom infection occurred May 11, then blossom blight would be noticeable by June 1, and shoot blight by June 11.

Range of open blossom dates for common apple cultivars	CougarBlight Heat Units, Inches Rain, & Leaf Wet Hours	I - No active FB within one mile this year or last two years	II - FB active within one mile of orchard within last two years, but not this year	III - FB active within one mile of orchard this year.	Dates blossom blight (& shoot blight) symptoms apparent if infection occurred
Early King Bloom Sat, May 10	62 HU, 0.43", 18 hrs	Low	Low	Caution	
Sun, May 11	172 HU, 0.0", 8 hrs	Caution (if dew)	Caution (if dew)	HIGH (if dew)	June 1, (June 11)
Mon, May 12	395 HU, 0.0", 0 hrs	Low	Low	Low	
Tue, May 13	397 HU, 0.0", 0 hrs	Low	Low	Low	
Wed, May 14	349 HU, 0.0", 0 hrs	Low	Low	Low	
Thu, May 15	286 HU, 0.04", 4 hrs	Caution	HIGH	EXTREME!	June 3, (June 14)
Fri, May 16	87 HU, 1.22", 24 hrs	Low	Low	Caution	
Sat, May 17	115 HU, 0.0", 11 hrs	Low	Caution (if dew)	HIGH (if dew)	June 6, (June 15)
Sun, May 18	114 HU, 0.0", 0 hrs	Low	Low	Low	
Mon, May 19	78 HU, 0.04", 2 hrs	Low	Low	Caution	
Tue, May 20	87 HU, 0.0", 7 hrs	Low	Low	Caution	
Wed, May 21	81 HU, 0.0", 0 hrs	Low	Low	Low	
Thu, May 22	75 HU, 0.48", 15 hrs	Low	Low	Caution	
Fri, May 23	72 HU, 0.0", 14 hrs	Low	Low	Caution	
Sat, May 24	48 HU, 0.02", 4 hrs	Low	Low	Caution	
Sun, May 25	36 HU, 0.03", 12 hrs	Low	Low	Caution	
Mon, May 26	128 HU, 0.01", 10 hrs	Low	Caution	HIGH	June 9, (June 18)
Tue, May 27	161 HU, 0.23", 4 hrs	Caution	Caution	HIGH	June 10, (June 19)
Wed, May 28	153 HU, 0.04", 24 hrs	Caution	Caution	HIGH	June 10, (June 19)
Thu, May 29	146 HU, 0.0", 9 hrs	Low	Caution (if dew)	HIGH (if dew)	June 10, (June 19)
Fri, May 30	58 HU, 0.15", 4 hrs	Low	Low	Caution	

Eastern Fire Blight Model

Range of open blossom dates for common cultivars.	70°F or higher, Inches Rain, Leaf Wet Hours, & Avg. Temperature	65F), + > 0" rain, or > 0.1 inch rain on previous day, + Average temp. on wetting day >= 60F
Early King Bloom		
Sat, May 10	27%, 0.43", 18 hrs., 65F	No FB infection
Sun, May 11	74%, 0.0", 8 hrs., 67F	No FB infection
Mon, May 12	145%, 0.0", 0 hrs., 67F	No FB infection
Tue, May 13	97%, 0.0", 0 hrs., 53F	No FB infection
Wed, May 14	97%, 0.0", 0 hrs., 56F	No FB infection
Thu, May 15	93%, 0.04", 4 hrs., 65F	No FB infection
Fri, May 16	97%, 1.22", 24 hrs., 64F	No FB infection
Sat, May 17	42%, 0.0", 11 hrs., 63F	No FB infection
Sun, May 18	42%, 0.0", 0 hrs., 58F	No FB infection
Mon, May 19	20%, 0.04", 2 hrs., 57F	No FB infection
Tue, May 20	38%, 0.0", 7 hrs., 60F	No FB infection
Wed, May 21	45%, 0.0", 0 hrs., 59F	No FB infection
Thu, May 22	19%, 0.48", 15 hrs., 56F	No FB infection
Fri, May 23	13%, 0.0", 14 hrs., 57F	No FB infection
Sat, May 24	13%, 0.02", 4 hrs., 57F	No FB infection
Sun, May 25	12%, 0.03", 12 hrs., 58F	No FB infection
Mon, May 26	45%, 0.01", 10 hrs., 65F	No FB infection
Tue, May 27	71%, 0.23", 4 hrs., 63F	No FB infection
Wed, May 28	47%, 0.04", 24 hrs., 50F	No FB infection
Thu, May 29	32%, 0.0", 9 hrs., 52F	No FB infection
Fri, May 30	32%, 0.15", 4 hrs., 55F	No FB infection
Sat, May 31	32%, 0.0", 10 hrs., 56F	No FB infection
Sun, June 1	56%, 0.0", 0 hrs., 61F	No FB infection


Ruby Mac





June 19, 2014





Mullein plant bug damage

Ambrosia beetle killed stressed trees:

Xylosandrus crassiusculus (granulate ambrosia beetle)



Sampling winter moth caterpillars





Cyzenis albicans

Recovered in RI in 2014

Released 2011

Berry position on bush

- Lower 10"-20"
- Middle 36"-46"
- Upper 58"-68"
- Collected 24 berries per position – 2 bushes per collection



Where are SWD laying eggs?

Farm		Lower	Middle	Upper
		SWD	SWD	SWD
EF	7/23/14	0	0	0
EF	7/31/14	21	9	1
EF	8/7/14	96	46	43
SBF	8/19/14	32	22	10
RP	8/29/14	36	15	16

