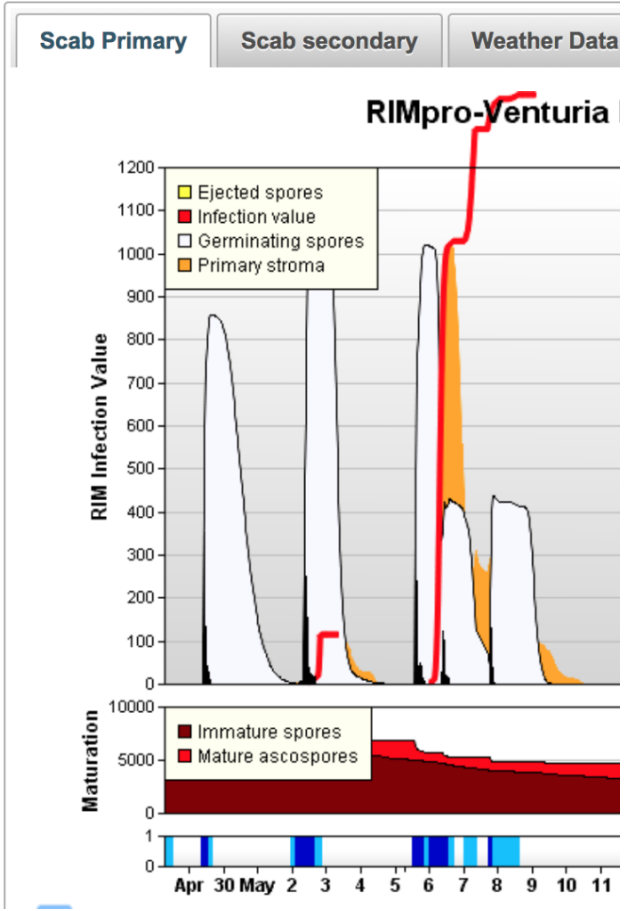
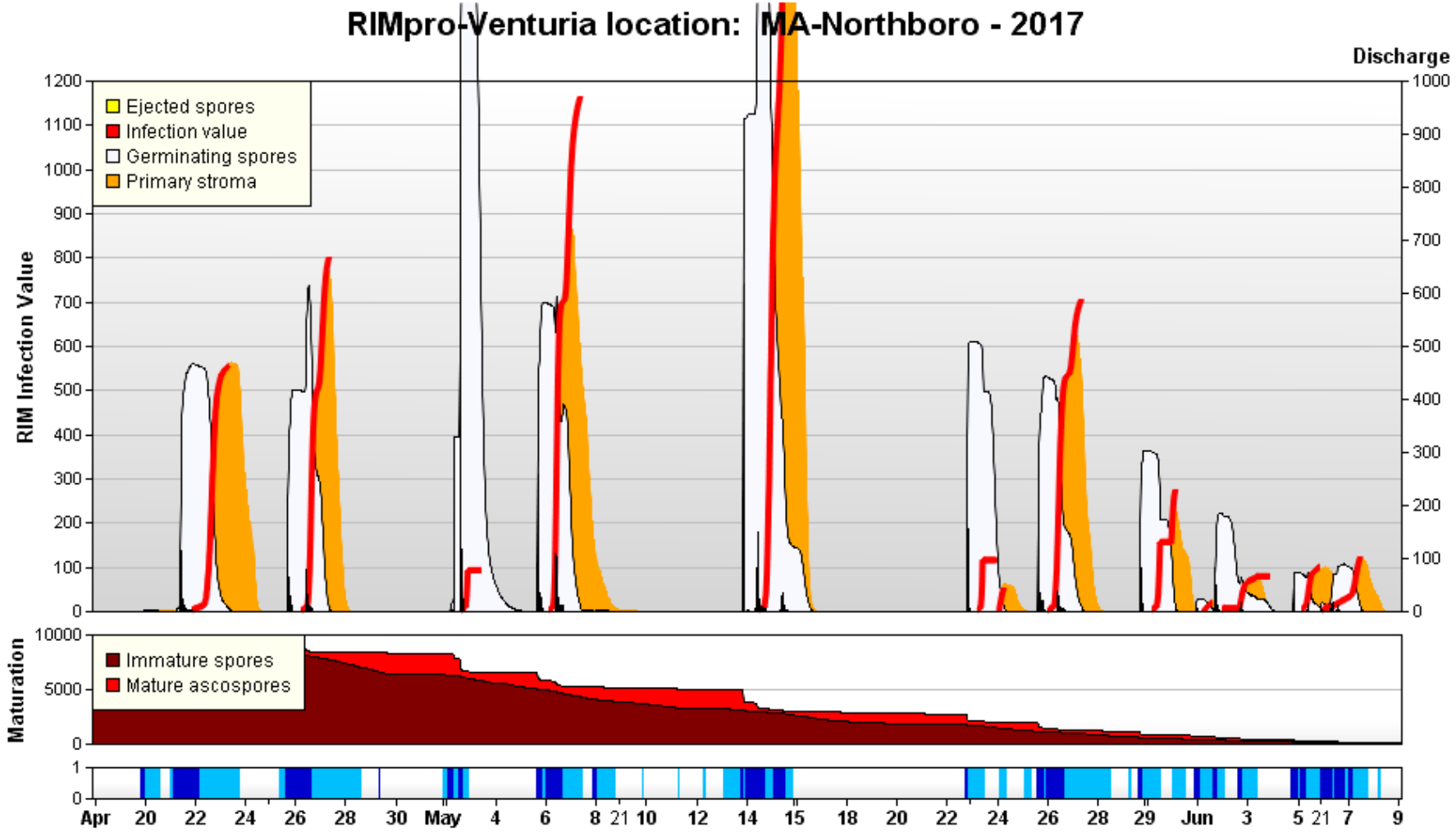


2017 UMass Rimpro Advisory Service

Jon Clements, Dan Cooley, and Elizabeth Garofalo

Real time information and forecast of pest and disease development

- RIMpro Cloud Service is an interactive Decision Support System (DSS) for pest and disease management in fruit and wine grape production.
- For many growers and consultants RIMpro is their essential tool for effective crop protection.
- Connect your weather station to the system in minutes. Get valuable real-time information to manage your crop protection in integrated, low-input or organic production systems.


RIMpro-Venturia location: MA-Northboro - 2017
Discharge
RIM Infection Value
Ejected spores
Infection value
Germinating spores
Primary stroma
Maturation
Immature spores
Mature ascospores
Apr 20 22 24 26 28 30 May 4 6 8 21 10 12 14 15 18 20 22 24 26 28 29 Jun 3 5 21 7 9

RIMpro Venturia

Daily maximum values for the sub-stages during the simulation for location MA-Belchertown-MB

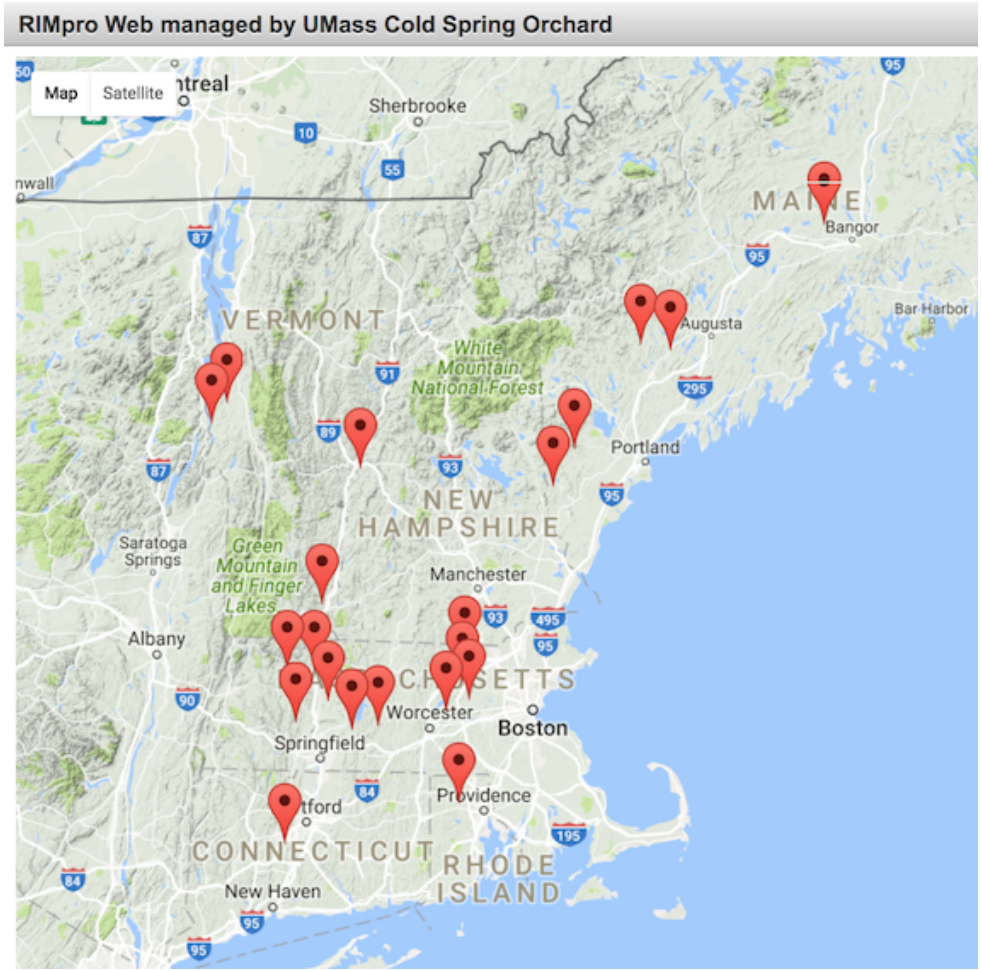
Download the table in Excel format

Date	DD0	LW(h)	Rain(h)	Immature	matureas	maturesp	ejectable	Ejected	Germinati	RIMvalue	Prim.Stror	Incubation	Lesions	Conidi	Fruit
21/05/2017	751	0.0	0.0	1907	188	777	641	0	0	0	0	3177	362	0.0	0.0
22/05/2017	762	11.5	5.0	1870	193	771	627	778	769	3	3	3107	405	0.93	0.33
23/05/2017	777	11.5	0.0	1715	283	223	162	0	765	525	524	3274	479	2.0	0.96
24/05/2017	792	6.0	0.0	1473	390	313	254	0	76	28	240	3481	577	0.0	0.0
25/05/2017	804	12.0	9.0	1245	384	360	359	467	466	4	4	3453	651	0.98	0.54
26/05/2017	816	24.0	19.0	1098	281	143	102	212	461	516	487	3379	734	2.0	1.74
27/05/2017	831	24.0	0.0	962	194	189	134	0	157	675	514	3834	855	2.0	2.0
28/05/2017	847	9.0	0.0	806	198	310	232	0	0	0	19	3838	1029	2.0	2.0
29/05/2017	858	11.0	7.0	664	191	343	338	405	405	2	2	3684	1162	0.84	0.43
30/05/2017	871	15.5	0.0	585	128	125	91	0	402	398	396	3551	1308	2.0	1.12
31/05/2017	886	15.5	4.5	497	114	143	150	103	102	0	310	3716	1549	2.0	0.58
01/06/2017	903	10.0	1.5	410	118	149	119	0	103	11	11	3566	1766	2.0	0.74
02/06/2017	917	9.0	4.5	336	125	155	144	165	165	2	2	3360	1991	0.95	0.52
03/06/2017	930	9.5	0.0	283	123	66	50	0	161	23	23	3136	2217	1.59	0.8
04/06/2017	944	10.0	6.0	236	118	85	88	109	109	2	6	2931	2438	0.9	0.44
05/06/2017	958	18.5	8.0	195	85	74	53	7	106	107	110	2712	2648	2.0	1.3
06/06/2017	967	24.0	19.5	161	53	83	51	100	97	10	87	2567	2767	2.0	0.86
07/06/2017	981	24.0	4.5	143	32	26	20	0	92	94	97	2500	2954	2.0	2.0
08/06/2017	996	11.5	0.0	118	36	37	29	0	0	0	36	2404	3094	2.0	2.0
09/06/2017	1013	0.0	0.0	97	36	53	43	0	0	0	0	2275	3259	0.0	0.0
10/06/2017	1032	0.0	0.0	78	32	65	53	0	0	0	0	2077	3387	0.0	0.0
11/06/2017	1056	0.0	0.0	74	20	68	61	0	0	0	0	1982	3481	0.0	0.0

2017 UMass Rimpro Advisory Service

- Funded by New England Tree Fruit Research Committee and participants
- 50/50, $150 each, actual cost for individual RIMpro $250, some extra money for UMass
- Original objective was to have ten growers/sites...

- Whoops! We ended up with 21 sites!!!
- and operated at a loss, because each additional site costs $200!
- but that is OK



http://fruit.umext.umass.edu/rimpro/

2017 UMass RIMpro Advisory Service

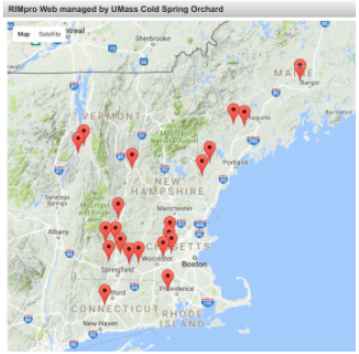
Jon Clements and Dan Cooley, UMass Amherst

!!!DON"T FORGET to SEND US YOUR FIRST OPEN BLOOM (beginning with PEARS if you have them) DATE!!!

NEW ENGLAND-WIDE USER MAP

YouTube video by Dan Cooley on how to interpret the primary apple scab chart...

Main station links below include Scab Primary, Scab Secondary, Codling Moth, and Weather Data. For fire blight and European apple sawfly, use the links listed below your location.



CT-Southington

- fire blight
- European apple sawfly
- sooty blotch

MA-Amherst

- fire blight
- European apple sawfly
- sooty blotch

MA-Belchertown

- fire blight
- European apple sawfly
- sooty blotch

MA-Belchertown (MB)

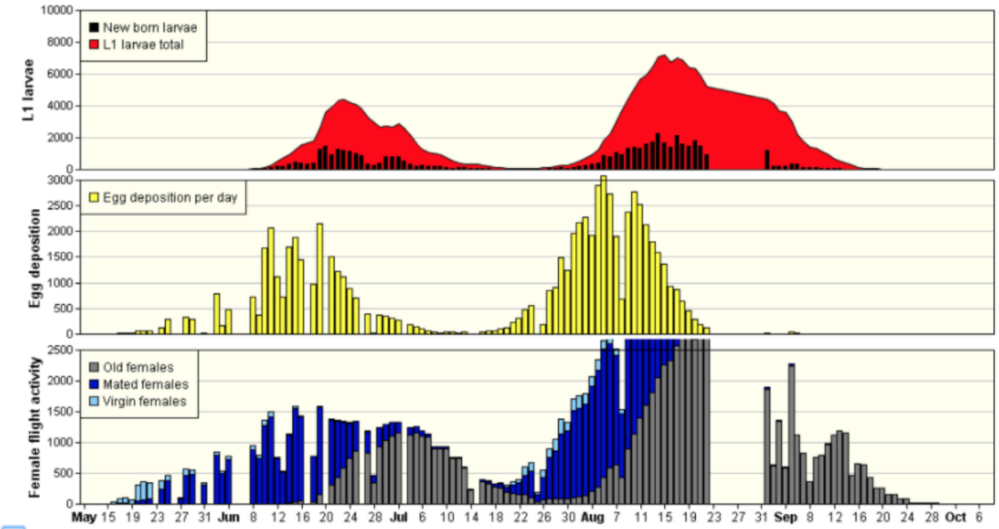
- fire blight
- European apple sawfly
- sooty blotch

www.rimpro.eu/faces/location.xhtml?id=f5elZwD

RIMpro Web Service for: Location: MA-Belchertown

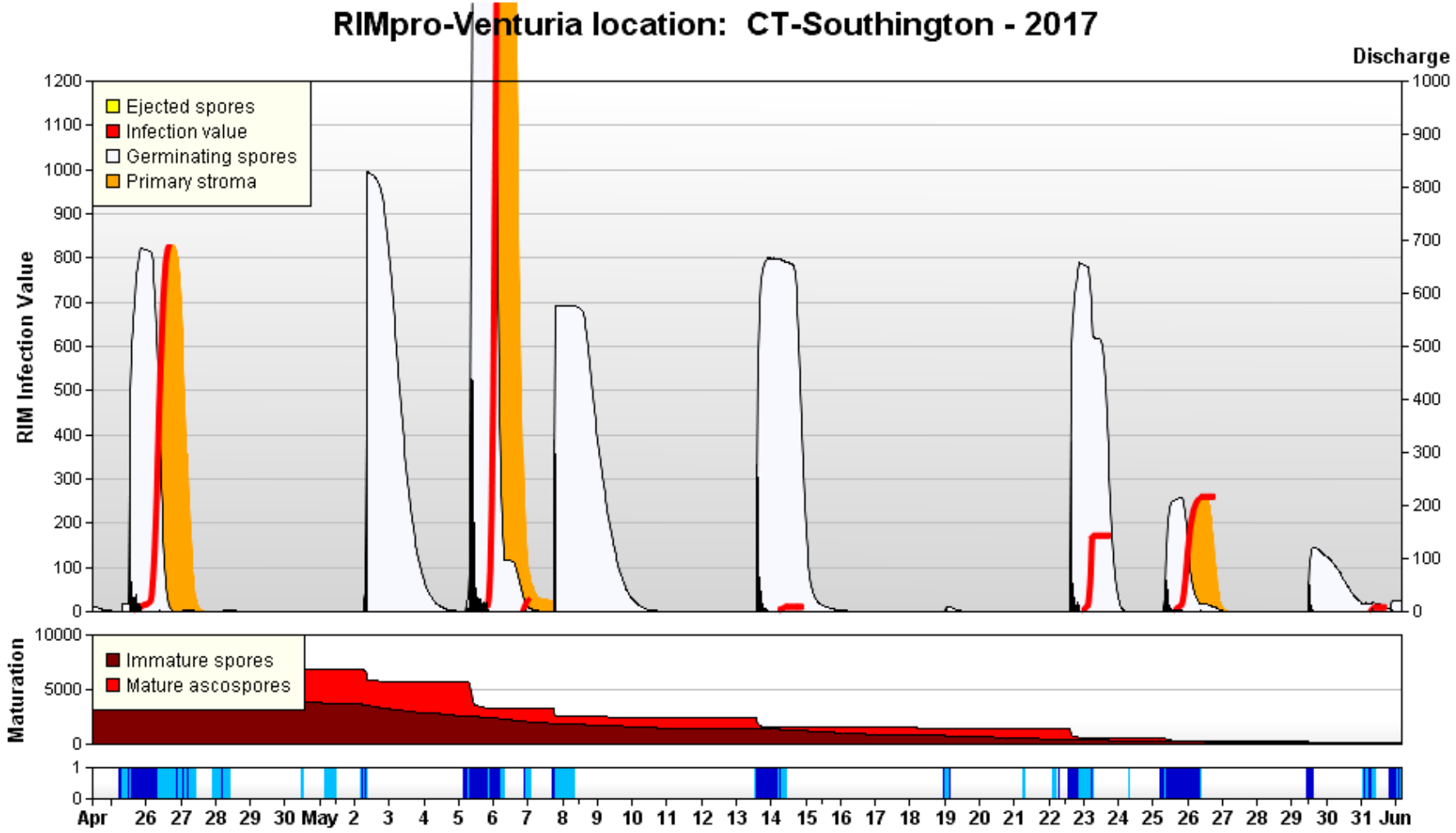
Scab Primary | Scab secondary | Apple Canker | Codling Moth | Weather Data | My Sprayplan

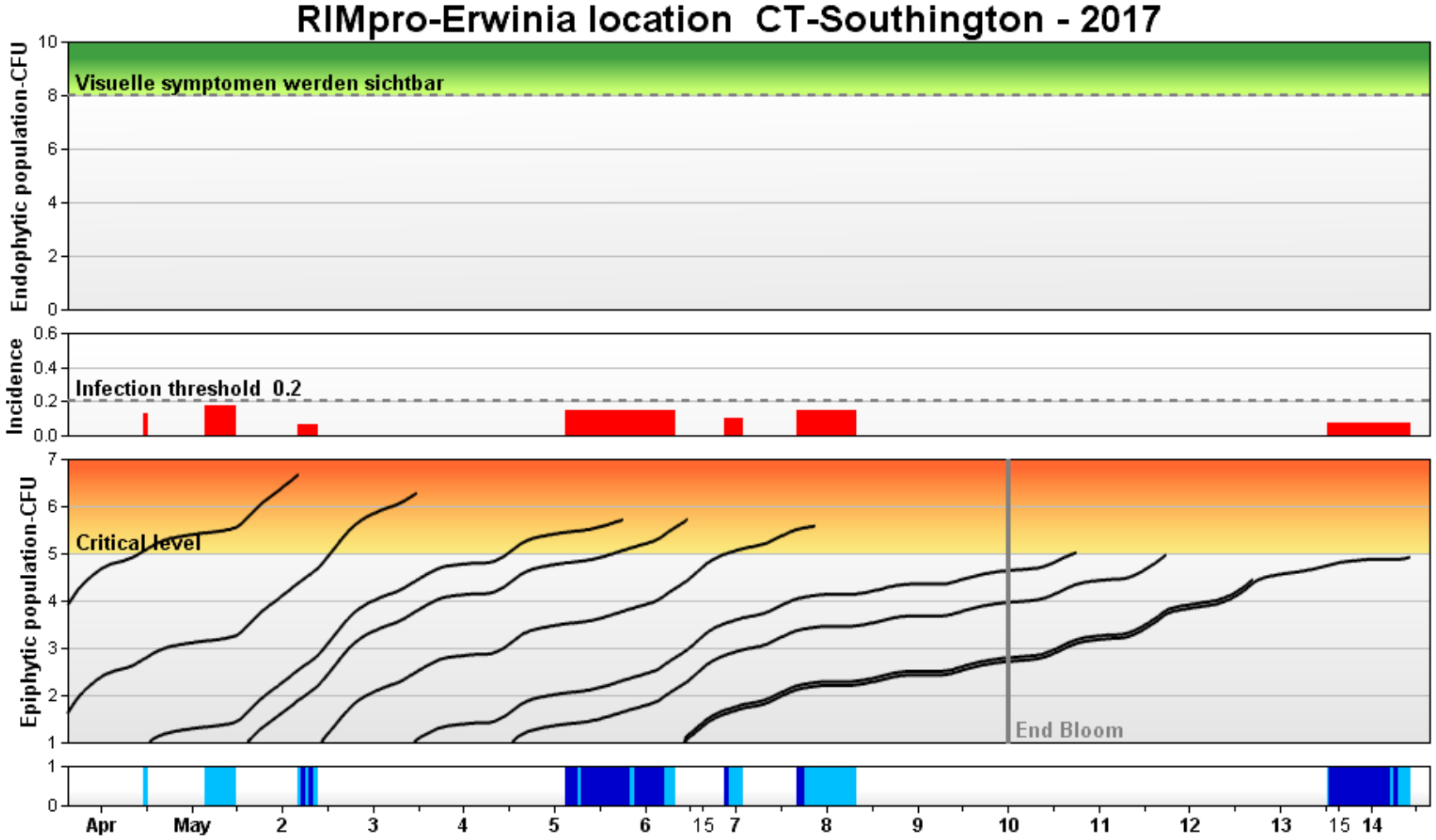
RIMpro-Cydia location MA-Belchertown - 2017



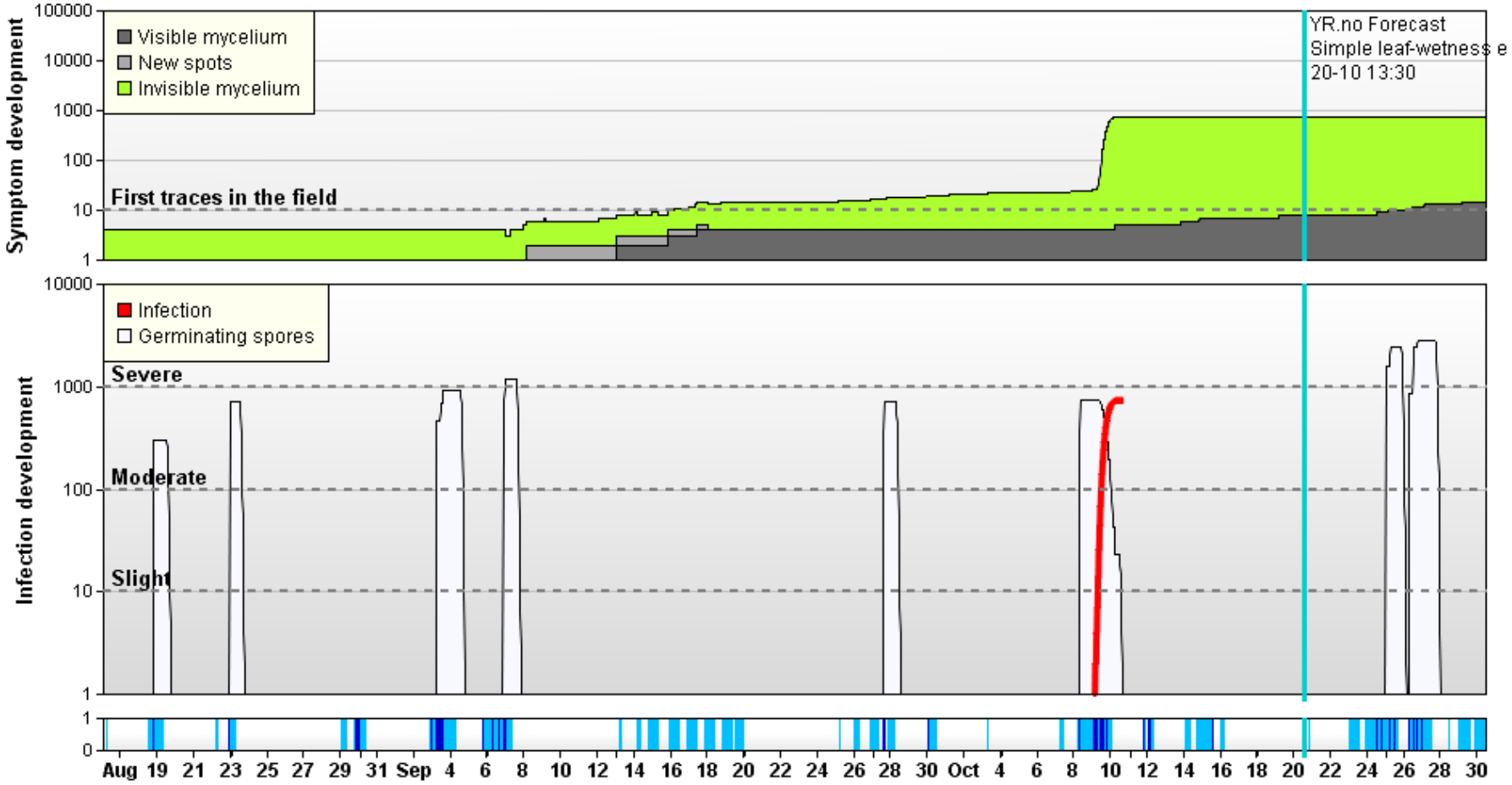
Entire year | Drag graph with mouse to Scroll | + Click in graph to Zoom In

Back

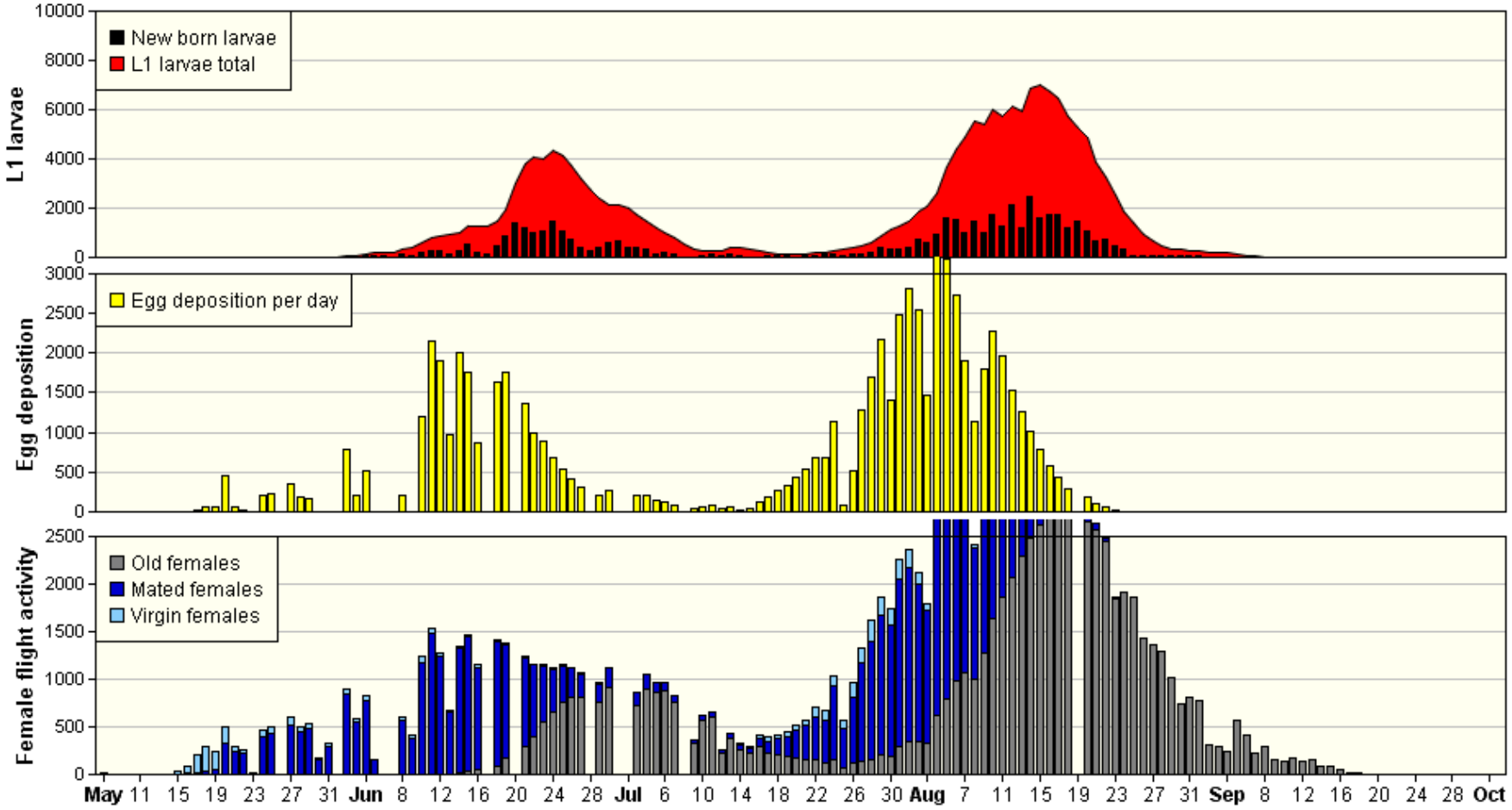

RIMpro-Venturia location: CT-Southington - 2017
Discharge
RIM Infection Value
Ejected spores
Infection value
Germinating spores
Primary stroma
Maturation
Immature spores
Mature ascospores
Apr 26 27 28 29 30 May 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 Jun


RIMpro-Erwinia location CT-Southington - 2017
Endophytic population-CFU
Visuelle symptomen werden sichtbar
Incidence
Infection threshold 0.2
Epiphytic population-CFU
Critical level
End Bloom
Apr
May
2
3
4
5
6
15
7
8
9
10
11
12
13
15
14

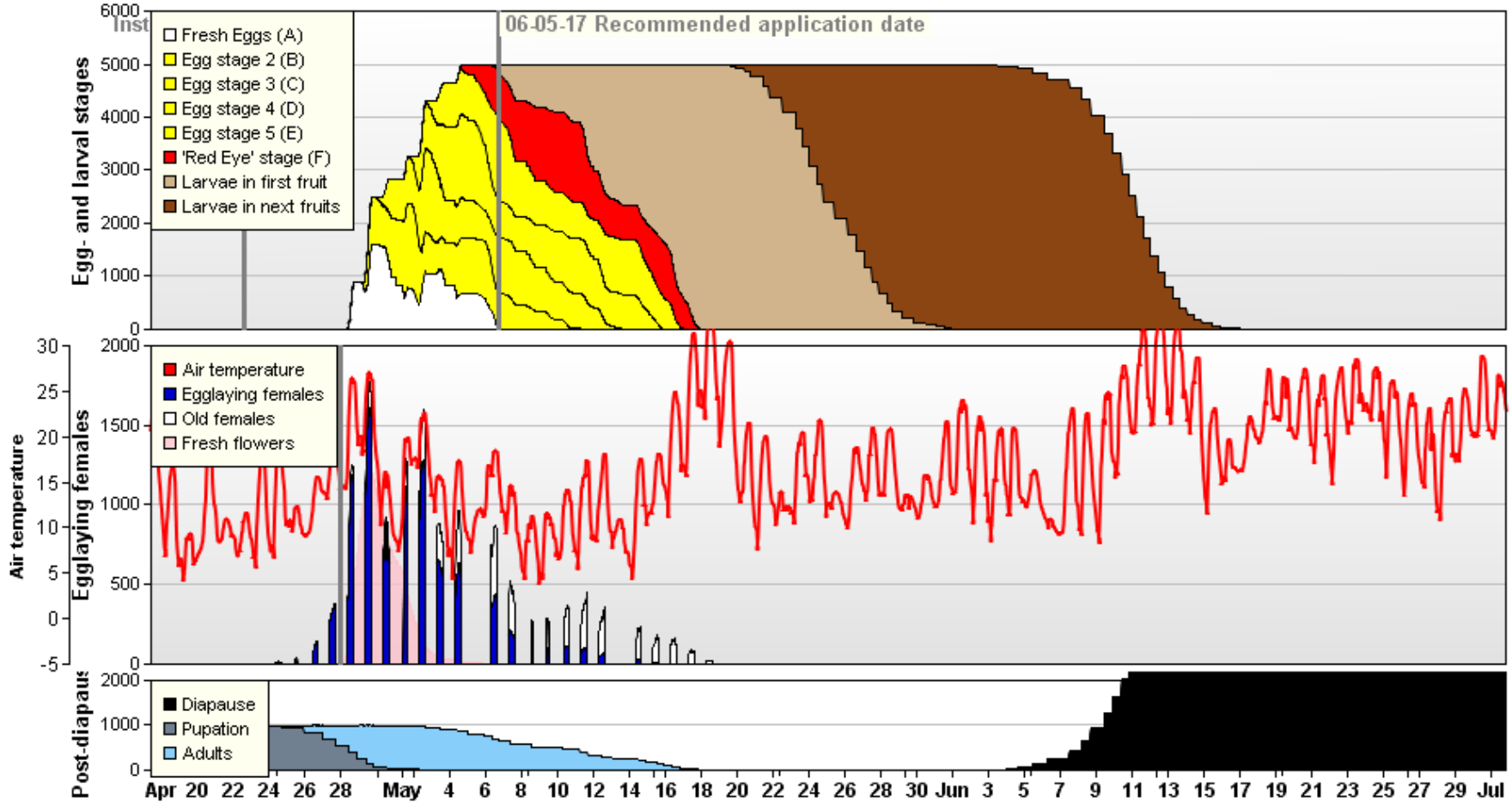
RIMpro-Sooty Blotch CT-Southington - 2017



RIMpro-Cydia location CT-Southington - 2017

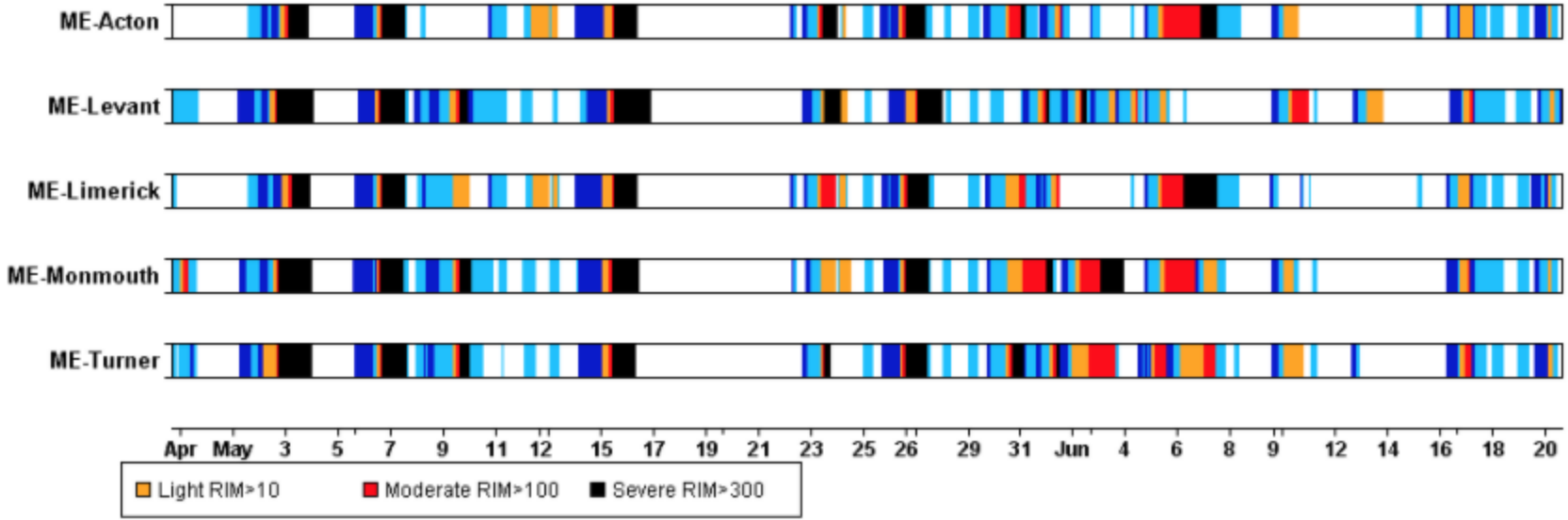


RIMpro-Hoplocampa CT-Southington - 2017



RIMpro Web Service for: UMass Cold Spring Orchard

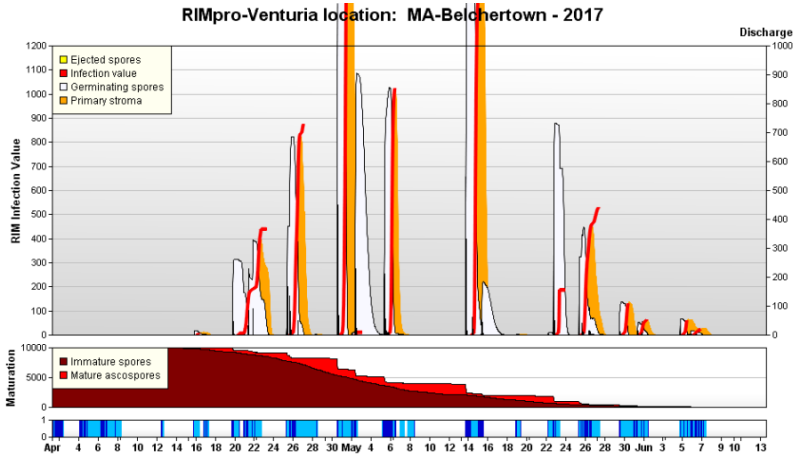
Apple Scab primary infections: ME

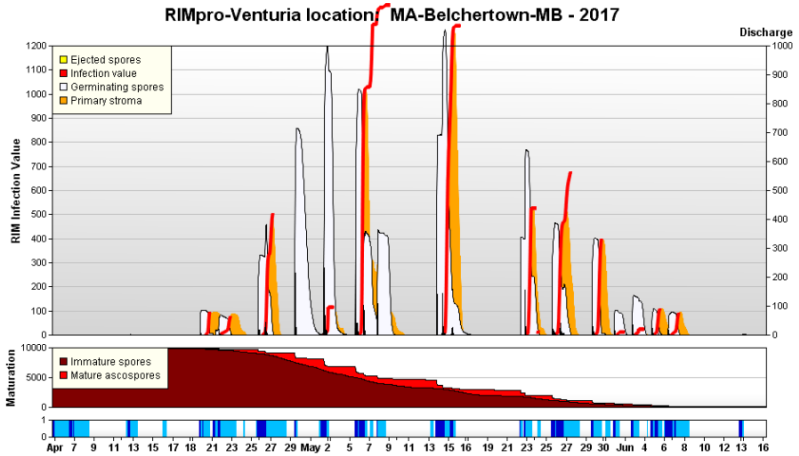


Entire year ○ Drag graph with mouse to Scroll ◉ + Click in graph to Zoom In

Back

Comparison of virtual (Meteoblue) vs. hardware/weather station (NEWA)

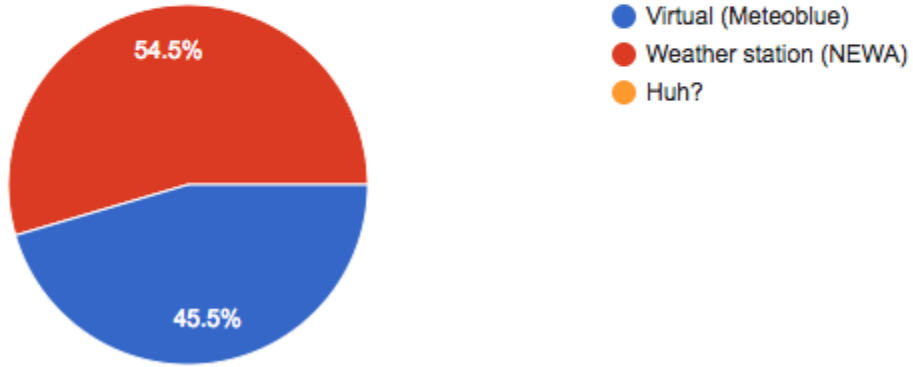




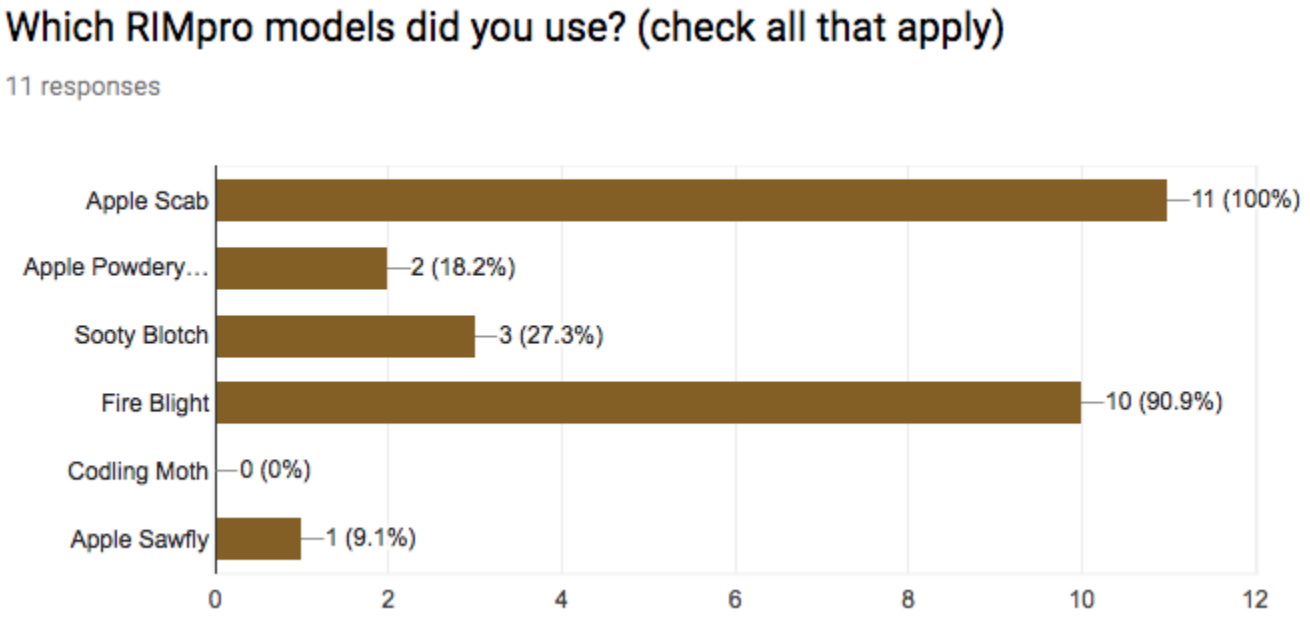
End of season survey...

Did your RIMpro site use virtual (Meteoblue) or weather station (Rainwise/NEWA) weather data?

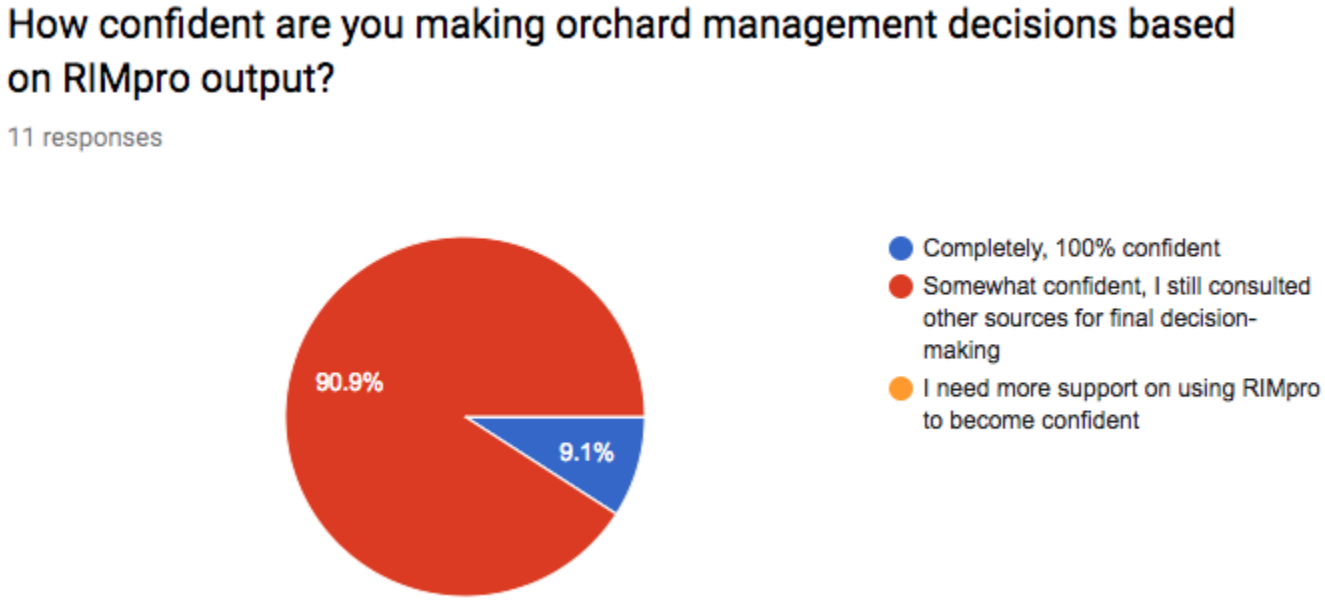
11 responses



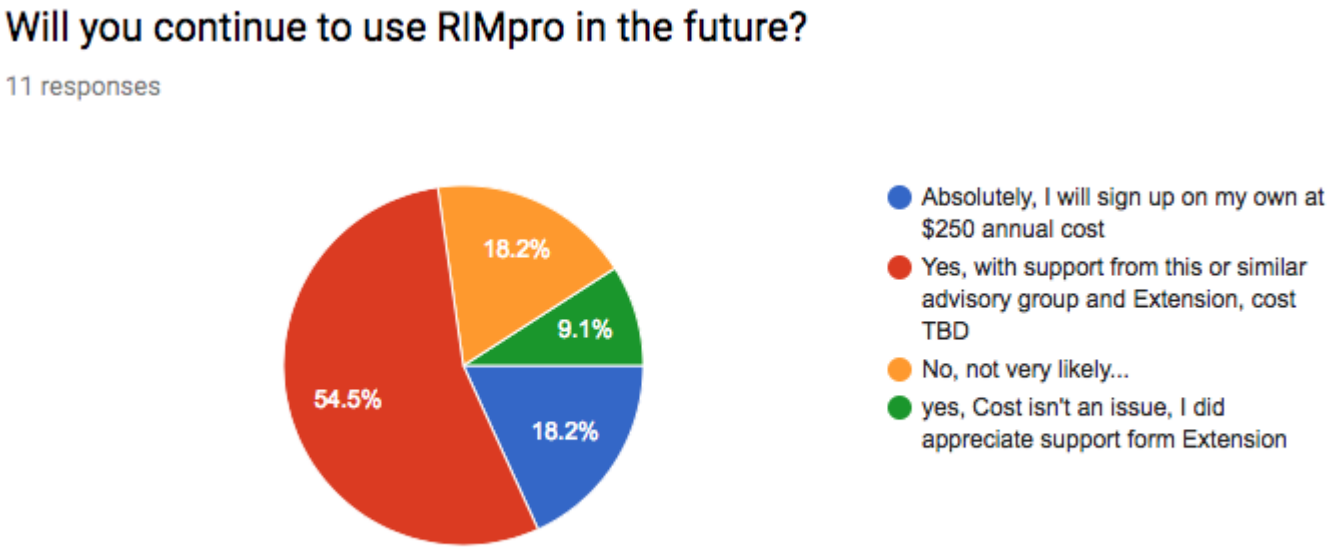
End of season survey...



End of season survey...



End of season survey...



Thank you to RIMpro growers...