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Update on Pest Management
and Crop Development

F R U I T J O U R N A L

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Geneva, NY

GOING HOT & COLD

ONE FOR THE
BOOKS
(Dave Kain &
Art Agnello,
Entomology,
Geneva)



❖❖ It all seems something of a chilly memory now, but this season actually started out to be quite a bit warmer than last year, and significantly warmer than the long-term average. A look at our degree-day accumulations in the "Upcoming Pest Events" section of the first several issues shows that it wasn't until well into June that we fell behind these benchmark comparisons, a trend reflected in the pest

events and crop development markers that we annually keep track of. You'll notice that many of the events below having a "Normal" occurrence before mid-June were ahead of schedule this year, and those normally occurring after then were often quite delayed in 2000.

Following are comparative listings of some of the pest events that occurred this season (in Geneva) with calendar and degree-day normals. The values and dates are given +/- one standard deviation; i.e., events should occur within the stated range approximately 7 years out of 10. An asterisk (*) signifies that a record was set or tied.❖❖

EVENT	DATE		DEGREE DAYS (BASE 43° F)	
	Normal (+/-days)	2000	Normal (+/-DD)	2000
AMERICAN PLUM BORER				
1st catch	18-May(+/-7)	8-May	423(+/-108)	411
1st flight peak	2-Jun(+/-6)	26-May	712(+/-146)	677
1st flight subsiding	29-Jun(+/-7)	29-Jun	1359(+/-214)	1397
2nd flight start	10-Jul(+/-4)	24-Jul	1611(+/-241)	1978
2nd flight peak	27-Jul(+/-6)	21-Aug	2171(+/-221)	2688
APPLE MAGGOT				
1st catch	28-Jun(+/-8)	27-Jul	1354(+/-167)	2057
Peak	4-Aug(+/-13)	11-Aug	2392(+/-212)	2482
Subsiding	3-Sep(+/-9)	24-Aug	3115(+/-282)	2754
CODLING MOTH				
1st catch	18-May(+/-8)	19-May	481(+/-103)	600
1st flight peak	4-Jun(+/-11)	12-Jun	803(+/-187)	985
2nd flight start	17-Jul(+/-14)	27-Jul	1863(+/-338)	2057
2nd flight peak	7-Aug(+/-15)	7-Aug	2413(+/-427)	2360
2nd flight subsiding	8-Sep(+/-14)		3261(+/-340)	

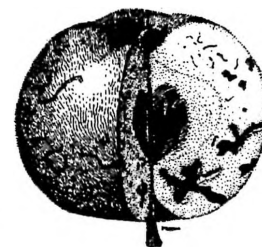


FIG. 3. APPLE MAGGOT.

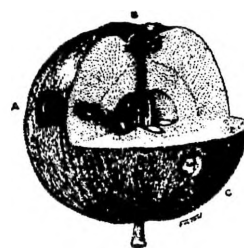


FIG. 1. CODLING MOTH.

continued...

EVENT	DATE		DEGREE DAYS (BASE 43° F)	
	Normal (+/-days)	2000	Normal (+/-DD)	2000
GREEN FRUITWORM				
1st catch	4-Apr(+/-8)	3-Apr	84(+/-34)	163
Peak	14-Apr(+/-11)	17-Apr	139(+/-53)	211
Subsiding	6-May(+/-11)	8-May	336(+/-114)	411

LESSER APPLEWORM

1st catch	11-May(+/-9)	4-May	3854(+/-154)	299
1st flight peak	22-May(+/-7)	8-May	571(+/-169)	411
1st flight subsiding	19-Jun(+/-9)	22-Jun	1158(+/-238)	1219
2nd flight starts	10-Jul(+/-12)	10-Jul	1649(+/-370)	1656

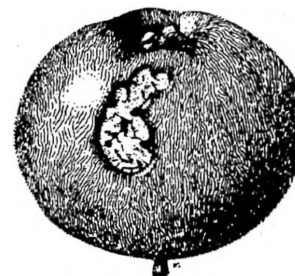


FIG. 2. LESSER APPLE WORM.

LESSER PEACHTREE BORER

1st catch	26-May(+/-9)	26-May	575(+/-149)	677
Flight subsiding	9-Sep(+/-6)	5-Sep	3182(+/-233)	3056

OBLIQUEBANDED LEAFROLLER

1st catch	10-Jun(+/-5)	8-Jun	918(+/-88)	873
1st flight peak	19-Jun(+/-9)	19-Jun	1141(+/-196)	1144
2nd flight begins	7-Aug(+/-10)	7-Aug	2495(+/-187)	2360



FIG. 9. LATE APPLE WORMS.

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EVENT	DATE		DEGREE DAYS (BASE 43° F)	
	Normal (+/-days)	2000	Normal (+/-DD)	2000

ORIENTAL FRUIT MOTH

1st catch	1-May(+/-8)	4-May	289(+/-96)	299
1st flight peak	14-May(+/-11)	8-May	420(+/-97)	411
2nd flight begins	1-Jul(+/-5)	26-Jun	1436(+/-151)	1322
2nd flight peak	9-Jul(+/-11)	20-Jul	1768(+/-392)	1895
3rd flight begins	10-Aug(+/-9)	7-Aug	2528(+/-233)	2360
3rd flight peak	25-Aug(+/-16)		2931(+/-333)	

PEACHTREE BORER

1st catch	16-Jun(+/-11)	29-Jun	1023(+/-280)	1397
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REDBANDED LEAFROLLER

1st catch	17-Apr(+/-8)	17-Apr	179(+/-84)	211
1st flight peak	4-May(+/-9)	11-May	307(+/-81)	488
2nd flight begins	2-Jul(+/-6)	26-Jun	1478(+/-219)	1322
2nd flight peak	13-Jul(+/-6)	13-Jul	1771(+/-278)	1727
2nd flight subsiding	4-Aug(+/-11)	31-Jul	2381(+/-258)	2173
3rd flight begins	20-Aug(+/-11)	24-Aug	2787(+/-175)	2754
3rd flight peak	28-Aug(+/-13)		2976(+/-259)	

SAN JOSE SCALE - adult males

1st catch	17-May(+/-8)	8-May	481(+/-113)	411
1st flight peak	30-May(+/-8)	11-May	658(+/-73)	488
2nd flight peak	7-Aug(+/-10)	7-Aug	2335(+/-234)	2360

SPOTTED TENTIFORM LEAFMINER

1st catch	19-Apr(+/-7)	17-Apr	174(+/-65)	211
1st flight peak	7-May(+/-7)	4-May	337(+/-85)	299
2nd flight begins	14-Jun(+/-7)	15-Jun	1064(+/-123)	1045
2nd flight peak	8-Jul(+/-10)	22-Jun	1631(+/-240)	1219
3rd flight begins	7-Aug(+/-7)	11-Aug	2502(+/-170)	2482
3rd flight peak	22-Aug(+/-9)	5-Sep	2862(+/-201)	3056

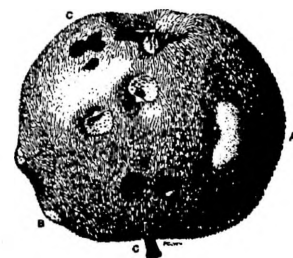


FIG. 6. PLUM CURCULIO.

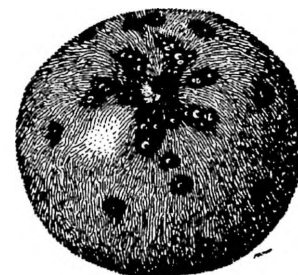


FIG. 13. SAN JOSÉ SCALE.

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CROP PHENOLOGY	DATE		DEGREE DAYS (BASE 43° F)	
	Normal (+/-days)	2000	Normal (+/-DD)	2000
APPLE (MCINTOSH)				
Green tip	11-Apr(+/-6)	3-Apr	114(+/-38)	163
Half-inch green	20-Apr(+/-7)	17-Apr	172(+/-27)	211
Tight cluster	27-Apr(+/-7)	24-Apr	231(+/-21)	228
Pink	4-May(+/-6)	4-May	301(+/-29)	299
Bloom	10-May(+/-7)	8-May	389(+/-51)	411
Petal fall	18-May(+/-6)	15-May	493(+/-45)	549
PEAR (BARTLETT)				
Bud burst	22-Apr(+/-7)	17-Apr	165(+/-48)	211
Green cluster	1-May(+/-7)	24-Apr	241 (+/-27)	228
White bud	5-May(+/-7)	4-May	299(+/-45)	299
Bloom	8-May(+/-8)	8-May	348(+/-50)	411
Petal fall	16-May(+/-8)	11-May	444(+/-55)	488
SWEET CHERRY (WINDSOR)				
Bud burst	21-Apr(+/-8)	17-Apr	171(+/-26)	211
White bud	30-Apr(+/-7)	24-Apr	218(+/-28)	228
Bloom	5-May(+/-6)	1-May	266(+/-32)	266
Petal fall	13-May(+/-5)	8-May	383(+/-50)	411
Fruit set	17-May(+/-5)	11-May	445(+/-45)	488
TART CHERRY (MONTMORENCY)				
Bud burst	26-Apr(+/-7)	24-Apr	210(+/-41)	228
White bud	7-May(+/-7)	1-May	275(+/-23)	266
Bloom	10-May(+/-6)	4-May	356(+/-52)	299
Petal fall	19-May(+/-6)	8-May	467(+/-54)	411
Fruit set	26-May(+/-7)	11-May	565(+/-53)	488

NOTE: Every effort has been made to provide correct, complete and up-to-date pesticide recommendations. Nevertheless, changes in pesticide regulations occur constantly, and human errors are possible. These recommendations are not a substitute for pesticide labelling. Please read the label before applying any pesticide.

