

2004 IPM 'Quick' Summary for Monitoring Apple Arthropod Pests									
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Phenology									
Pest	Silver Tip	Tight Cluster	Early Pink	Late Pink	Bloom	Petal Fall	June	July	August
TPB	Place White Sticky Traps in Orchard	Threshold Wholesale: 3/trap Retail: 5/trap		5/trap 8/trap					
ABLM	Place red visual traps on south side of tree trunks. Minimum of 4 traps per 8-acre block	McIntosh: 4/trap Non-McIntosh: 8/trap		9/trap 21/trap		Check for 1st generation sap mines in leaves. Threshold: McIntosh: 7 mines/100 lvs Non-McIntosh: 14 mines/100 lvs		Threshold: McIntosh: 50 mines/100 lvs Non-McIntosh: 100 mines/100 lvs	
EAS			Place White Sticky Traps in Orchard	Check to see if already have reached Threshold		Threshold: *No Pre-Bloom Insecticide: 5/trap *Blocks receiving Pre-Bloom Insecticide: 9/trap			
CM					Hang pheromone traps in orchard	For 1st Generation CM, Calculate DD from first adult catch to time insecticide spray in blocks where CM are a problem: 250-350 DD (base 50F)		For 2nd Generation CM, Calculate DD from first adult catch to time insecticide spray in blocks where CM are a problem: 1260-1370 DD (base 50F)	
PC					Late Bloom - Begin to inspect fruit on early-blooming cultivars in perimeter rows for fresh egg-laying scars.	Threshold: First evidence of damage Use DD model to determine timing of last spray.			
OBLR						Hang pheromone traps in orchard. Begin to accumulate DD (base 43F) from 1st capture.	When 600 DD (base 43F) are reached, examine 10 expanding terminal shoots per tree, selecting trees from as wide an area of the block as possible. Record the number of terminals infested. Use Cornell Sampling Form to determine whether to treat.		
LH						Examine leaves for presence of 1st gen. Nymphs and adults. Threshold: 25/100 lvs	Examine leaves for presence of 1st gen. Nymphs and adults. Threshold: 25/100 lvs		Examine leaves for presence of 2nd gen. Nymphs and adults. Threshold: 25/100 lvs
ERM						Threshold: (middle-age fruit cluster lvs) May 15 - June 1 30% lvs with motile mites	Threshold: (middle-age fruit cluster lvs) June 1- June 15 45% lvs w/motile mites June 16-June 30 55% lvs w/motile mites	Threshold: (middle-age lvs from anywhere) July 1-July 15 65% lvs w/motile mites July 15- July 31 80% lvs w/motile mites	Threshold: (middle-age lvs from anywhere) Aug 1- Aug 15 80% lvs w/motile mites
AMF						Hang traps during last week in June in early cultivar blocks.	Hang traps in rest of blocks. Threshold: non-baited spheres: 2/trap baited spheres: 5/trap		Continue monitoring AMF on traps.
GAA/SA						Threshold: More than 50% of Veg. Terminals are infested and predators are present on less than 20% of infested terminals. Or 10% of fruit have honeydew or aphids.	Threshold: More than 50% of Veg. Terminals are infested and predators are present on less than 20% of infested terminals. Or 10% of fruit have honeydew or aphids.	Threshold: More than 50% of Veg. Terminals are infested and predators are present on less than 20% of infested terminals. Or 10% of fruit have honeydew or aphids.	Threshold: More than 50% of Veg. Terminals are infested and predators are present on less than 20% of infested terminals. Or 10% of fruit have honeydew or aphids.
Information based on previous UMass March Messages or Cornell University Pest Management Recommendations. Please consult these references for further details. Threshold trap captures are cumulative unless noted.									
*Abbreviations: TPB=tarnished plant bug; ABLM=apple blotch leafminer; EAS=European apple sawfly; CM=codling moth; PC=plum curculio; OBLR=oblique banded leafroller; LH=leafhoppers; AMF=apple maggot fly; GAA/SA=green apple aphid/spirea aphid.									
**Thresholds apply for Apple Blotch Leafminer and not to Spotted Tentiform Leafminer. Either or both may be in your orchard.									