Stage/Period       October         Post-harvest       October         Pupal stage in leaf and fruit       Image: Stage of the proper senitation in and around orchards         Proper senitation in and around orchards       Collection of fallen leaves/fruits/other debris and their subsequent destruction         Collection of proper senitation in and around orchards       Collection of fallen leaves/fruits/other debris and their subsequent destruction         Scrapping of loose bark for exposing the pupa from tree trunks/followed byits destruction       Scrapping of loose bark for exposing the pupa from tree trunks/followed byits destruction         Dormancy       November to December       Quinalphos 25 % EC @ 100 ml/100 litres of water         Pupal stage (Over wintering in leaf litter, fruit & tree trunk)       Survey and Monitoring of the affected orchards         Collection of fallen leaves/       Fruits/other debris and their subsequent destruction         Scrapping of loose bark for exposing the pupa from tree trunks followed by its destruction       Scrapping of loose bark for exposing the pupa from tree trunks followed by its destruction	Phenological	Months	Stage of pest	Control Measures
Post-harvest       October Pupal stage in leaf and fruit       Image: Second Se	Stage/Period			
DormancyNovember to December Pupal stage (Over wintering in leaf litter, fruit & tree trunk)Image: Comparison of the affected orchards 	Post-harvest	October Pupal stage in leaf and fruit		<ul> <li>Mass awareness about the pest among farmers</li> <li>Proper sanitation in and around orchards</li> <li>Collection of fallen leaves/fruits/other debris and their subsequent destruction</li> <li>Scrapping of loose bark for exposing the pupa from tree trunks followed by its destruction</li> <li>Post-harvest spray with:</li> <li>Quinalphos 25 % EC @ 100 ml/100 litres of water</li> </ul>
NOTE:	Dormancy	November to December Pupal stage (Over wintering in leaf litter, fruit & tree trunk)		<ul> <li>Survey and Monitoring of the affected orchards</li> <li>Mass awareness about the pest among the farmers</li> <li>Proper sanitation in and around the orchard</li> <li>Collection of fallen leaves/</li> <li>fruits/other debris and their subsequent destruction</li> <li>Scrapping of loose bark for exposing the pupa from tree trunks followed by its destruction</li> </ul>
	NOTE:			

- Sticky traps should be replaced as and when needed
- If infestation of Apple blotch leaf miner persists, spray can be repeated with another insecticide after a gap of 12-14 days.
- The insecticides should not be mixed with any other plant protection chemical or plant nutrients.

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## Division of Entomology Faculty of Horticulture Sher-e-Kashmir University of Agricultural Sciences and Technology of Kashmir, Shalimar Campus-190025



Phenological	Months	Stage of pest	Control Measures	Phenological	Months	Stage of pest	Control Measures
Stage/Period				Stage/Period	lupo to August		
Overwintering	January to March Pupal stage (Over wintering in leaf litter, fruit & tree trunk)		<ul> <li>Survey and monitoring of affected orchards to establish highly, moderately and slightly infested areas</li> <li>Mass awareness about the pest among farmers and other stakeholders</li> <li>Proper sanitation in and around the orchards</li> <li>Procure disease and pest free planting material</li> <li>Collection of fallen leaves/</li> <li>fruits/other debris and their subsequent destruction</li> <li>Scrapping of loose bark for exposing the pupa from tree trunks followed by its destruction</li> </ul>	II-IV	Adult Emergence & Egg laying (2nd generation)		<ul> <li>Mass awareness about the pest among farmers</li> <li>Proper sanitation in and around the orchard</li> <li>Installation of pheromone baited traps @ 8-10/ha</li> <li>Installation of sticky traps @ 1/10 m apart for monitoring of moth emergence of subsequent generations</li> <li>Spray with:</li> <li>Thiamethoxam 25 WG @ 50g/ 100 litres of water OR</li> <li>Flubendiamide 39.35 SC @ 40ml/ 100 litres of water OR</li> <li>Lambda Cyhalothrin 5 EC @ 50ml/100 lit.of water OR</li> <li>Thiamethoxam 12.6 + Lambda Cyhalothrin 9.5 ZC @ 50ml/ 100 litres of water OR</li> <li>Imidacloprid 6 + Lambda Cyhalothrin 4 SL @ 50ml/100 litres of water</li> </ul>
Pink bud stage & Fruit let	April to May Adult emergence and egg laying of 1st generation		<ul> <li>Mass awareness about the pest among farmers</li> <li>Proper sanitation in and around the orchard</li> <li>Monitor adult population through pheromone baited traps @ 8-10/ha</li> <li>Installation of sticky traps@ 1/10 m apart for monitoring of moth emergence</li> <li>After first moth catch in traps, spray with:</li> <li>Thiamethoxam 25 WG @ 50g/ 100 litres of water OR</li> <li>Thiamethoxam 12.6 + Lambda Cyhalothrin 9.5 ZC @ 50ml/ 100 litres of water OR</li> <li>Imidacloprid 6 + Lambda Cyhalothrin 4 SL @ 50ml/100 litres of water</li> </ul>	Fruit Development-V	September Advance generations		<ul> <li>Mass awareness about the pest among farmers</li> <li>Proper sanitation in and around the orchards.</li> <li>Installation of pheromone baited traps @ 8-10/ha</li> <li>Installation of sticky traps @ 1/10 m apart for monitoring of moth emergence of last generation.</li> <li>Spray with:         <ul> <li>Thiamethoxam 25 WG @ 50g/100 litres of water OR</li> <li>Flubendiamide 39.35 SC @ 40ml/100 litres of water OR</li> <li>Thiamethoxam 12.6 + Lambda Cyhalothrin 9.5 ZC @ 50ml/100 litres of water OR</li> <li>Imidacloprid 6 + Lambda Cyhalothrin 4 SL @ 50ml/100 litres of water</li> </ul> </li> </ul>