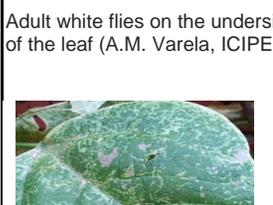


White flies on French beans

Bemisia tabaci and *Trialeurodes vaporariorum* (Swahili: Inziweupe)

	Prevention	Monitoring	Direct Control	Direct Control	Restrictions
	<ul style="list-style-type: none"> ◆ Keep the field free of weeds throughout the cropping season as they act as alternate hosts for whiteflies ◆ Cover plants with agro nets (size 400 µm) to exclude the whiteflies from crop ◆ Plant repellent crops like coriander and Mexican marigold around the edge of the field to repel the white flies ◆ Plant in a well prepared fertile land to promote plant vigour ◆ Conserve natural enemies e.g. parasitic wasps by avoiding to spray during flowering 	<ul style="list-style-type: none"> ◆ For early detection, look out for whitish- brown eggs and /or whitish adults on the underside of young leaves ◆ Look for a cloud of over to 3-5 white insects that resettle soon after the plant is shaken ◆ Check for yellowing symptoms on lower leaves of the plant ◆ Start control measures as soon as the pests are observed on the crop 	<ul style="list-style-type: none"> ◆ Mount yellow sticky traps to trap adults- 4 traps/300m² at 50cm above the ground ◆ Spray Azadirachtin 0.03% (50 ml/20L water) when symptoms appear ◆ Spray with pepper at rate of 30 chopped peppers put in 1 litre warm water. Soak for 1 day, dilute in 10 L water 	<ul style="list-style-type: none"> ◆ Drench with imidacloprid based products e.g. Confidor 200SL, Imax 200SL, and Tata Mida 200SL at a rate of 10mls in 20 litres of water ◆ Neonicotinoid, IRAC 4A ◆ Systemic insecticide with translaminar activity and with contact and stomach action 	<ul style="list-style-type: none"> ◆ WHO Class II (Moderately hazardous) ◆ PHI 3 days
				<ul style="list-style-type: none"> ◆ Spray lambda-cyhalothrin based products e.g. Karate 2.5WG at 20gms/20L of water and Duduthrin 1.7EC at 60ml/20L of water 	<ul style="list-style-type: none"> ◆ WHO class II (Moderately hazardous) ◆ PHI 3 days ◆ Toxic to fish and aquatic invertebrates
				<ul style="list-style-type: none"> ◆ Spray alpha-cypermethrin based products e.g. Bastox 100EC at 6ml/20L of water Tata Alpha 10EC at a rate of 6ml per 20 litres of water 	<ul style="list-style-type: none"> ◆ WHO Class II (Moderately hazardous) ◆ PHI 3 days
<ul style="list-style-type: none"> ◆ Alternate active ingredients to prevent development of resistance ◆ Wear protective clothing ◆ Spray early morning or late evening to avoid harming bees. ◆ Read and follow instructions on the label ◆ Dispose properly to avoid aquatic contamination 					



REPUBLIC OF KENYA



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CREATED/UPDATED: October 2013

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