



Whitefly on Tomato

Bemisia tabaci Seto Jhinga

	Prevention	Monitoring	Direct Control	Direct Control	Restrictions
 <p>Adult Whitefly (photo: W. Billen, Pflanzenbeschaustelle, Weil am Rhein, Bugwood.org)</p>	<ul style="list-style-type: none"> Maintain weed free and clean cultivation. Remove weeds like Nilo Gandhe Jhar, Dudhe Jhar (<i>Ageratum conyzoides</i>), and Lalupate flower (<i>Euphorbia pulcherrima</i>) etc. as they may serve as alternate hosts. 	<ul style="list-style-type: none"> Visit field regularly at 2-3 days interval to observe whitefly nymphs & adults on lower surface of leaves and in YST; also look for chlorotic spots and sooty mould on upper surfaces of leaves. Hang yellow sticky traps on sticks at the level of the apical portion of the plant @ 5 traps per ropani, placed evenly throughout the field. Thresholds: Take action when more than one whitefly is observed per trap per day. 	<ul style="list-style-type: none"> Spray neem based pesticides thrice @ 5ml/litre water (25 litres of water per ropani) at 7 day intervals, preferably in the evening time. Spray <i>Verticillium lecanii</i> thrice @ 2g/litre of water (25 litres of water per ropani) at 15 day intervals, preferably in the evening time. Whiteflies are repelled by silver- or aluminum-colored mulches. Place reflective polyethylene mulches on planting beds before seeding or transplanting to significantly reduce rate of colonization by whiteflies and delay the build-up of damaging numbers of whiteflies by 4 to 6 weeks. 	<ul style="list-style-type: none"> Acetamiprid 20% EC @ 1 ml /lit water (25 litres of water per ropani). Imidacloprid @ 0.2 ml/litre water (25 litres of water per ropani), If required repeat one more time but maintain a day interval. 	<ul style="list-style-type: none"> Acetamiprid falls in WHO Class II, Waiting period 15 days Imidacloprid WHO Class II (Moderately hazardous), Waiting period 40 days
 <p>Adults (photo: Lesley Ingram, Bugwood.org)</p>					

Nepal

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