

EXTRAPOLATION TABLE for EFFECTIVENESS of INSECTICIDES

► HETEROPTERA

INTRODUCTION

The table provides detailed lists of acceptable extrapolations, for regulatory authorities and applicants, in the context of the registration of plant protection products for minor uses. The table should be used in conjunction with the EPPO Standard PP1/257(1) - *Efficacy and crop safety extrapolations for minor uses*. It is important to ensure that expert judgment and regulatory experience are employed when using these tables. EPPO excludes liability as to the reliability of the information provided through these tables.

The scope for extrapolation may be extended as data and experience with certain plant protection products increase. The applicant should always provide appropriate justification and information to support the proposed extrapolation. For example, comparability of target biology may be a relevant factor, either in extrapolating to other target species or for the same target onto another crop. For crops, factors such as comparable growth habit, structure etc. should be considered.

TABLE FORMAT

The main pest species are listed in Column 1 (although this is not exhaustive), and the pest group to which they belong is specified in Column 2. Companies may choose if they wish to provide data only for individual named species, which would then appear individually listed on the label. But underlined species have been identified as key major targets and as such it is advisable to generate data on these. Furthermore, data on these species then allow a claim to be made for the whole pest group (as specified in Column 2), if required. If a claim for the whole pest group is required but there is no underlined species, then data must be generated on all listed species.

Column 3 indicates the key indicator crop(s). In some instances, this may be only one specified crop. In other cases, when separated by an 'or', the company may choose from a range of alternatives within the group. Data generated on crops in Column 3 may be used to extrapolate to all crops listed in Column 4.

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INSECT PESTS	Crop(s)		
1 Pathogen species	2 Pest group name	3 Indicator crop(s)	4 Extrapolation to other crop groups
<p><i>Nezara viridula</i> NEZAVI <i>Lygus</i> sp. LYGUSP <i>Lygus rugulipennis</i> LYGURU <i>Lygocoris</i> sp. LYGCSF <i>Liocoris tripustulatus</i> LIOCTR <i>Nysius</i> sp. NYSISP <i>Calocoris</i> sp. CLCRSP <i>Carpocoris</i> sp. CARRSP <i>Rhaphalus</i> sp. <i>Nesidiocoris tenuis</i> CYROTE¹</p>	<p>Stink bugs (Pentatomidae) and Capsid bugs (Miridae)</p>	<p>Brassicaceae 1CRUF or Tomato LYPES or Cucumber CUMSA or Potato SOLTU</p>	<p>Cucurbitaceae 1CUCF Solanaceae 1SOLF Tobacco NIOSS Soya beans GLXMA Fennel FOESS Leafy vegetables of the: Asteraceae 1COMF, Brassicaceae 1CRUF, Chenopodioideae 1CHES (particularly endive CICEN, chicory CICIN, witloof CICIF) Rhubarb RHERH, Sorrel RUMAC Herbaceous ornamental plants Herbs</p>
<p><i>Lygus rugulipennis</i> LYGURU <i>Lygocoris pabulinus</i> (= <i>Lygus pabulinus</i>) LYGUPA <i>Plagiognathus arbustorum</i> PLAIAR <i>Liocoris tripustulatus</i> LIOCTR</p>		<p>Strawberry FRASS</p>	<p>Leafy vegetables Umbelliferous crops, Cucurbitaceae 1CUCF, Brassicaceae 1CRUF, Ornamentals</p>
<p><i>Lygocoris pabulinus</i> LYGUPA <i>Liocoris tripustulatus</i> LIOCTR</p>		<p>Sweet pepper CPSAN, Aubergine SOLME</p>	<p>Solanaceae 1SOLF</p>

¹ Other species that primarily are predators but may occasionally occur as plant pests e.g. *Bracyrenus* sp., *Stagonomus* sp., *Dictyla* sp., *Helopeltis* sp. HELOSP, *Plagiathylus* sp. should be taken into consideration when appropriate.

<i>Lygocoris pabulinus</i> LYGUPA <i>Campylomma verbasci</i> CAMYVE, <i>Atractotomus mali</i> ATRAMA		Rose 1ROSG or Black currant RIBNI or Apple MABSY or Red currant RIBRU	Woody ornamentals Pome fruits Stone fruits Strawberry FRASS
<i>Campylomma verbasci</i> CAMYVE, <i>Atractotomus mali</i> ATRAMA <i>Lygus</i> sp. LYGUSP <i>Calocoris</i> sp. CLCRSP (south Euope)		Apple MABSY Pear PYUCO Peach PRNPS Redcurrant* RIBRU	Pome fruits Stone fruits Strawberry FRASS Common hazelnut CYLAV, Pistachio PIAVE, Mango MNGIN
<i>Carpocoris</i> sp. CARRSP, <i>Palomena prasina</i> PALOPR		Common hazelnut CYLAV or Pear PYUCO	Any other relevant crop. Growing system should be taken into account while proposing extrapolations
<i>Acrosternum</i> sp. ACSTSP , <i>Apodiphus amygdali</i> APDPAM, <i>Brachynema</i> sp. BRNMSP, <i>Lygaeus civilis</i> (=Lygaeus pandurus) LYGACI		Pistachio PIAVE	
<i>Halyomorpha halys</i> HALYHA		Apple MABSY or Pear PYUCO or Peach PRNPS or Common hazelnut CYLAV and Soya beans GLXMA or Sweet pepper CPSAN	
<i>Nysius huttoni</i> NYSIHU	Seed bugs	Swede BRSNN	Brassicaceae 1CRUF
<i>Corythucha ciliata</i> CRTHCI <i>Stephanitis</i> sp. STEPSP <i>Pseudacysta perseae</i> PSEYPE	Lace bugs	Apple MABSY or Pear PYUCO or Platanus PLTSS or Rhododendron sp. (1RHOG)	Pome fruits Stone fruits Blueberry VACCO Woody ornamentals Avocado PEBAM