

EXTRAPOLATION TABLE for EFFECTIVENESS of INSECTICIDES**▶ PESTS ON FLOWER BULBS AND -TUBERS AND BULB- AND TUBER FLOWER CROPS****INTRODUCTION**

The table provides detailed lists of acceptable extrapolations organized by crop groups, 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 a certain plant protection products increases. 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 for the crop group 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) for the crop group. 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. However, it is preferable to have data on several of the crops within the crop group, but data on the indicator crop should be available.

Column 5 identifies whether data on other crops against the same target may help to reduce the amount of required data on the indicator crop. It may be possible for a direct extrapolation without the need for further data on the indicator crop (marked with an asterisk (*)). However, this is dependent on the extent of available data and similarity of crop/target biology. The company should provide an appropriate reasoned case when wanting to use supporting data from other crop groups.

Column 6 gives examples of acceptable extrapolations for a particular pest claim onto other minor use crops. This is not a comprehensive list. Whether extrapolation may be direct (no data, marked with an asterisk (*)), or require additional supporting data on the minor use crop,

will again be dependent on the extent and relevance of the existing database and companies should provide an appropriate reasoned case. If the crop is considered to be a major crop in some countries then it may not be appropriate to include in this column, and further data would be required. Companies will need to justify the status of the major crop/minor use.

EXTRAPOLATION REGARDING PROTECTED/OUTDOOR SITUATIONS

Please note that where crops may be grown in both protected and field situations, and where significant differences are expected in pest relevance or crop agronomy between indoor and outdoor situations, it is important to generate a proportion of the data on crops grown in both situations to ensure the product has been tested under a suitable range of typical and challenging conditions.

EXTRAPOLATION TABLE for EFFECTIVENESS of INSECTICIDES

► PESTS ON FLOWER BULBS AND -TUBERS AND BULB- AND TUBER FLOWER CROPS

Pests		Crops: Flower bulbs and –tubers		Crops: outside the Flower bulbs and –tubers	
1 Pest species	2 Pest group name	3 Indicator crops	4 Extrapolation to other crops	5 Data from these crops can support the indicator crops (reduced data or no data *)	6 Extrapolation to crops (reduced or no data*)
Aphids as vector for <u>LSV (Lily symptomless virus)</u> LSV000	Aphids (virus transmission)	Lily LILSS	LSV in all flower bulbs- and flower tuber crops and bulb flowers		
Aphids as vector for <u>TBV (Tulip breaking virus)</u> TBV000			Mosaic virus in all flower bulbs- and flower tuber crops and bulb flowers		
<u>Aphis gossypii</u> (sucking damage) APHIGO	Aphids	Lily LILSS	All flower bulbs and flower tuber crops and bulb flowers	<i>Dendranthema</i> 1DDMT, <i>Hibiscus</i> 1HIBG, Rose 1ROSF, Strawberry FRASS, Cucumber CUMSC	
<i>Rhizoglyphus echinopus</i> , RHIGEC <i>R.robini</i> RHIGRO	Bulbmites	Lily LILSS	All flower bulbs and flower tuber crops and bulb flowers where <i>Rhizoglyphus echinopus</i> , RHIGEC or <i>R.robini</i> RHIGRO occur		

<i>Aceria tulipae</i> ACEITU	Curlmites	Tulip TULSS	All flower bulbs and flower tuber crops and bulb flowers where <i>Aceria tulipae</i> ACEITU occur	Onions ALLCE, Garlic ALLSA	
<i>Lampetia equestris</i> LAMTEQ <i>Eumerus strigatus</i> EUMEST	Flies	Daffodil NARSS	Hippeastrum HPSSS, Galanthus GAXSS, Galtonia GAOSS, Scilla SLLSS, Leucojum LEJSS, Hymenocallis HMJSS, Sprekelia ZPRSS, Cyrtanthus KYRSS, Hyacinthus HYASS, Muscari MUSSS, Nerine NRISS, Eucharis EUKSS		
<i>Steneotarsonemus laticeps</i> TARSLA	Mites	Daffodil NARSS or Amaryllis 1AMYG	Sprekelia ZPRSS, Cyrtanthus KYRSS, Eucharis EUKSS, Hippeastrum HPSSS, Nerine NRISS, Galanthus GAXSS, Leucojum LEJSS, Hymenocallis HMJSS		
<i>Pratylenchus penetrans</i> PRATPE	Nematode	Daffodil NARSS or Lily LILSS	Other flower bulb- and flower tuber crops and bulb flowers where <i>Pratylenchus</i> PRATPE occurs		
<i>Trichodorus</i> spp. TRIHSP	Nematode	Tulip TULSS or Gladiolus GLASS	Other flower bulb- and flower tuber crops and bulb flowers where <i>Trichodorus</i> spp. TRIHSP occurs		