European and Mediterranean Plant Protection Organization
Organisation Européenne et Méditerranéenne pour la Protection des Plantes

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GENERIC EXTRAPOLATION TABLES for EFFECTIVENESS of FUNGICIDES

► DAMPING-OFF, SOIL AND AIRBORN FUNGAL DISEASES

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 a certain plant protection product 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 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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Table 1: Extrapolation table for damping-off effects

Diseases		**Crops**	
1 **Pest species**	**2** **Pest group name**	**3** **Indicator crops** *Data from any other relevant crop, if available, can support (reduced data) the indicator crop*	**4** **Extrapolation to other crops or crop groups**
Pythium sp. PYTHSP *Oomycetes* 1OOMYC	Damping off	Lettuce LACSA or Vegetable brassica or Cucumber CUMSA or Melon CUMME or Spinach SPQOL or Beet BEASS or Tomato LYPES	All crops where damping off caused by Oomycetes appear
Aphanomyces sp. APHASP		Pea PIBSX or Sugar beet BEAVA	Other leguminous crops Other beet crops (*Beta* sp. BEASS), Chenopodioideae 1CHES
Alternaria sp. ALTESP		Chinese cabbage BRSPK or Tomato LYPES or Pepper CPSAN or Cucurbitaceae 1CUCF	All crops where alternaria damping-off appear
Fusarium sp. FUSASP		Tomato LYPES or Cucurbitaceae 1CUCF (both grown in the soil)	All crops where Fusarium damping off appear
Thanatephorus cucumeris (=*Rhizoctonia solani*) RHIZSO		Potato SOLTU (AG3, AG2-1), Lettuce LACSA (AG4), Cucurbitaceae 1CUCF (in soil) (AG4 (AG5)), Vegetable brassica (AG2-1, AG4) Beets BEAVD (AG2-2, AG4, AG1, AG3, AG5) Fabaceae 1LEGF (AG4, AG2-2) Strawberry FRASS	All crops where damping off caused by the same AG-groups appear

Sclerotinia sp. SCLESP or *Sclerotium rolfsii* SCLORO		Lettuce LACSA or Tomato LYPES or Pepper CPSAN or *Phaseolus* sp. PHSSS	All crops where damping off appear
Botryotinia fuckeliana BOTRCI		Fabaceae 1LEGF or Lettuce LACSA or Tomato LYPES	All crops where damping off appear. Not covering post-harvest effects.

Table 2: Extrapolation table for other crop-effects other than damping-off

Diseases		**Crops**	
1 **Pest species**	**2** **Pest group name**	**3** **Indicator crops** *Data from any other relevant crop, if available, can support (reduced data) the indicator crop*	**4** **Extrapolation to other crops or crop groups**
Alternaria sp. ALTESP	Leaf spots	Chinese cabbage BRSPK or Carrot DAUCA or Potato SOLTU	All crops where alternaria appear
	Fruit spot	Tomato LYPES	All crops where alternaria appear
Fusarium sp. FUSASP	Root rot and wilt	Any relevant crop	Any crop within the same crop botanical family
Pythium sp. PYTHSP	Root rot	Any relevant crop	Any crop within the same crop botanical family
Phytophthora sp. PHYTSP (except *P. infestans*)	Downy mildew	Potato SOLTU or Tomato LYPES or cucurbitaceae (depending on P. species)	Any other solanaceae or cucurbitaceae or to other crops with reduced data (depending on P. species)
Phytophthora cinnamomi PHYTCN	Phytophthora root rot	*Chamaecyparis* sp. CHCSS	Any relevant crop

Phytophthora cactorum, PHYTCC		Strawberry FRASS	
Phytophthora ramorum PHYTRA		*Rhododendron* sp. RHOSS or *Viburnum* sp. VIBSS or *Fagus* FAUSS or *Quercus* sp. QUESS	
Thanatephorus cucumeris (=*Rhizoctonia solani*) RHIZSO	Root rot	Potato SOLTU (AG3, AG2-1) or Lettuce LACSA (AG4) or Cucurbitaceae 1CUCF (AG4 (AG5)) or Vegetable brassicas (AG2-1, AG4) or Beets BEAVD (AG2-2, AG4, AG1, AG3, AG5) or Fabaceae 1LEGF (AG4, AG2-2) or Strawberry FRASS	Any crop with root rot caused by the same AG-group
Verticillium sp. VERTSP	Verticillium wilt	Potato SOLTU or Tomato LYPES or Cucumber CUMSA or Melon CUMME	All other relevant crops where Verticillum wilt appears
Sclerotinia sclerotiorum SCLESC, *Sclerotinia subarctica* SCLESU, *Sclerotinia minor* SCLEMI	White mould Watery soft rot	Lettuce LACSA or *Fabaceae* 1LEGF or Oilseed rape or Sunflower or Carrots DAUCA or any other relevant crop	All relevant crops where these diseases appear [1]
Botryotinia fuckeliana BOTRCI	Grey mould	Strawberry FRASS or *Phaseolus* sp. PHSSS or Grapes VITVI or any other relevant crop	

[1] Data packages proposed for extrapolation should take into consideration the affected plant part, the crop groups and the modes of application of the products. The proposed extrapolation does not cover post-harvest applications. With a full data package from outdoor conditions, only a reduced data package from indoor conditions is needed.