

GENERIC EXTRAPOLATION TABLES for EFFECTIVENESS of FUNGICIDES

► Seed borne 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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► Seed borne diseases

Seed borne diseases		Crops	
1 Pest species	2 Pest group name	3 Indicator crops	4 Extrapolation to other crops ¹
<i>Alternaria</i> sp. ALTESP e.g. <i>A. alternata</i> ALTEAL <i>A. dauci</i> ALTEDA <i>A. radicina</i> ALTERA <i>A. brassicae</i> ALTEBA <i>A. brassicicola</i> ALTEBI <i>A. raphani</i> ALTERP <i>A. cichorii</i> ALTECC <i>A. porri</i> ALTEPO <i>A. cucumerina</i> ALTECU <i>A. solani</i> ALTESO	Leaf spot	Tomato LYPES or Tobacco NIOSS or Any Umbelliferous or Any brassica or Any Asteraceae 1COMF or Any Allium ALLSS or Cucumber CUMSC or Melon CUMME or Fabaceae 1LEGF	To all host crops of <i>Alternaria</i> or Stemphyliose
<i>Stemphylium</i> sp. STEMSP <i>Pleospora herbarum</i> (= <i>Stemphylium botryosum</i>) PLEOHE	Stemphyliose		
<i>Cercospora</i> sp. CERCSP e.g. <i>C. beticola</i> CERCBE, <i>C. kikuchii</i> <i>C. apii</i> CERCAP, <i>C. foeniculi</i> (= <i>Passalora puncta</i>) CERCPE, <i>C. carotae</i> CERCCA	Leaf spot	Any Chenopodiaceae 1CHES or Fabaceae 1LEGF or Umbelliferous 1UMBF	To all host crops of <i>Cercospora</i>

¹ As a general recommendation, seed characteristics (e.g. size, shape etc.) should be considered when proposing extrapolation data.

<i>Ascochyta sp</i> ASCOSP. e.g. <i>A.pisi</i> (= <i>Didymella pisi</i>) ASCOPI, <i>A.fabae</i> (= <i>Didymella fabae</i>) ASCOFA, <i>A.rabiei</i> (= <i>Didymella rabiei</i>) MYCORA, <i>A. pinodes</i> (= <i>Peyronellaea pinodes</i>) MYCOPI, <i>A. pinodella</i> (= <i>Peyronellaea</i> <i>pinodella</i>) PHOMMP	Leaf and pod spots	Fabaceae 1LEGF	Fabaceae 1LEGF
<i>Septoria sp.</i> SEPTSP e.g. <i>S. apiicola</i> SEPTAP, <i>S.petroselini</i> SEPTPE, <i>S.lactucae</i> SEPTLA	Leaf spot, Septoria diseases	Any Umbelliferous 1UMBF or Asteraceae 1COMF	Any crops where seeds can be infected by <i>Septoria sp.</i>
<i>Botryotinia sp.</i> BOTRSP, <i>B. fuckeliana</i> BOTRCI	Grey mould	Any relevant crops	Any crop where grey mould appears
<i>B. alii</i> BOTRAL		Any Allium ALLSS	All crops within Allium ALLSS
<i>Phaeoisariopsis griseola</i> (= <i>Isariopsis</i> <i>griseola</i>) PHAIGR	Angular leaf spot	<i>Phaseolus sp</i> PHSSS	Fabaceae 1LEGF
<i>Cladosporium sp</i> CLADSP e.g. <i>C. cucumerinum</i> CLADCU, <i>C.</i> <i>fulvum</i> (= <i>Fulvia fulva</i>) FULVFU, <i>C.</i> <i>cladosporioides</i> CLADCL	<i>Cladosporium</i> mould	Solanaceae 1SOLF or Cucurbitaceae 1CUCF	Any crops where seeds can be infected by <i>Cladosporium sp.</i>
<i>Colletotrichum sp</i> COLLSP e.g. <i>C. lindemuthianum</i> COLLLD, <i>C.</i> <i>gloeosporioides</i> GLOMCI, <i>C.dematium</i> COLLDE, <i>C. dematium f.sp circinans</i> COLLDC, <i>C.lini</i> COLLLI, <i>C.spinaciae</i> COLLDS, <i>C.coccodes</i> COLLCC	Antrachnose	Any relevant crops	Any crops where seeds can be infected by <i>Colletotrichum</i>

<i>Phoma</i> sp. PHOMSP e.g. <i>P. apiicola</i> (= <i>Subplenodomus apiicola</i>) PHOMAP, <i>P. betae</i> (= <i>Pleospora betae</i>) PLEOBJ, <i>P. exigua</i> PHOMES <i>P. lingam</i> (= <i>Plenodomus lingam</i> , <i>Leptosphaeria maculans</i>) LEPTMA, <i>P. valerianellae</i> PHOMVA, <i>P. cucurbitacearum</i> (= <i>Didymella bryoniae</i>) DIDYBR, <i>P. lycopersici</i> (= <i>Dydimella lycopersici</i>) DIDYLY <i>Plenodomus biglobosus</i> LEPTBG	Phoma diseases	Any Umbelliferous 1UMBF or Chenopodioideae 1CHES, Brassicaceae 1CRUF or Leafy vegetable or Cucumber CUMSC or Melon CUMME or Tomato LYPES or Bean PHSSS or Soybean GLXMA or Flax LIUUT	Any crops where seeds can be affected by <i>Phoma</i>
<i>Mycosphaerella</i> sp. MYCOSP e.g. <i>M. brassicicola</i> MYCOBR, <i>Macrophomina phaseolina</i> (= <i>Macrophoma phaseoli</i>) MCPHPH	Stem blight		Any crops where seeds can be affected by <i>Mycosphaerella</i>
<i>Plasmodiophora brassicae</i> PLADBR	Clubroot	Any vegetable brassica	All crops within the group
<i>Rhizoctonia</i> sp. RHIZSP	<i>Rhizoctonia</i> rot	Tomato LYPES or Lettuce LACSS or Beans PHSSS or Melon CUMME or Cucumber CUMSC or Cabbage BRSOX or Allium ALLSS	Any crops where seeds can be infected
<i>Fusarium</i> sp. FUSASP	Damping off/Root rot	Any relevant crops	Any crops where seeds can be infected by <i>Fusarium</i> sp.
<i>Fusarium proliferatum</i> FUSAPF, <i>Fusarium oxysporum</i> (f.sp. <i>Cepae</i>) FUSACE	Fusarium rot of bulbs	Any Allium ALLSS	Any Allium ALLSS
<i>Verticillium</i> sp. VERTSP	Verticillium wilt	Any relevant crop	Any crops where seeds can be infected by <i>Verticillium</i> sp.

<i>Stromatinia cepivorum</i> (=Sclerotium cepivorum) SCLOCE	White rot of onion	Any Allium ALLSS	Any Allium ALLSS
<i>Sclerotinia sclerotiorum</i> SCLESC	White mould	Any Fabacae 1LEGFor Lettuce LACSA or Umbelliferous 1UMBF	Any crops where seeds can be infected by <i>Sclerotinia</i>
<i>Pythium</i> sp. PYTHSP	Damping off/Root rot	Any relevant crops	Any crops where seeds can be infected
<i>Peronospora</i> sp. PEROSP (e.g. <i>Peronospora viciae</i> f. sp. <i>pisi</i> (=P. <i>pisi</i>) PEROVP, <i>P. valerianellae</i> PEROVA, <i>P. belbahrii</i> PEROBE) <i>Bremia lactucae</i> BREMLA, <i>Plasmopara halstedii</i> PLASHA <i>Phytophthora</i> sp. PHYTSP (e.g. <i>P. capsici</i> PHYTCP, <i>P. infestans</i> PHYTIN, <i>P. nicotianae</i> PHYTNN)	Downy Mildew	Any relevant crop	Any crops where seeds can be infected
<i>Penicillium</i> sp. PENISP <i>Rhizopus</i> sp. RIZPSP	Mould	Any relevant crops	Any crops where seeds can be infected by <i>Penicillium</i> or <i>Rhizopus</i>