

EXTRAPOLATION TABLE for EFFECTIVENESS of FUNGICIDES ► DISEASES ON BULB VEGETABLES (ALLIUM VEGETABLES)

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 FUNGICIDES

► DISEASES ON ALLIUM VEGETABLES

ALLCE Onion *Allium cepa*, ALLAS Shallots *Allium cepa* *Aggregatum* types, ALLAH Silverskin onions *Allium ampeloprasum* *f. holmense*, ALLFI Welsh onion (Spring onion, Bunching onion) *Allium fistulosum*, ALLSC Chives *Allium schoenoprasum*, ALLSA Garlic *Allium sativum*, ALLPO Leek *Allium porrum*.

Pest		Crops: within allium vegetables		Crops: outside allium vegetables	
1 Pathogen species	2 Disease 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*)
<i>Botryotinia porri</i> BOTTPO, <i>B. squamosa</i> SCLESQ, <i>B. alli</i> BOTRAL	Grey mould bulb rot and collar rot	Any allium ALLSS	All Allium ALLSS		
<i>Fusarium oxysporum</i> (<i>f.sp. Cepae</i>) FUSACE	Root rot, Pink root	Any allium ALLSS	All Allium ALLSS	Allium ornamental bulbs	Allium ornamental bulbs
<i>Pyrenochaeta terrestris</i> PYRETE	Pink root	Any allium ALLSS	All Allium ALLSS		
<i>Davidiella allii-cepae</i> (= <i>Heterosporium allii</i>) CLADAC	Onion leaf spot	Any allium ALLSS	All Allium ALLSS	Allium ornamental bulbs	Allium ornamental bulbs
<i>Peronospora destructor</i> PERODE	Downy mildew of onion	Any allium ALLSS	All Allium ALLSS		Allium ornamental bulbs
<i>Phytophthora porri</i> PHYTPO		Leek ALLPO	Onion ALLCE Welsh Onion ALLFI, Chives ALLSC,		
<i>Stromatinia cepivorum</i> (= <i>Sclerotium cepivorum</i>) SCLOCE	White rot of onion	Any allium ALLSS	All Allium ALLSS		
<i>Urocystis colchici</i> (= <i>Urocystis cepulae</i>) UROCCE	Smut of onion	Any Allium ALLSS	All Allium ALLSS		

<i>Alternaria porri</i> ALTEPO <i>Pleospora allii</i> (= <i>Stemphylium vesicarium</i>) PLEOAL	Purple blotch Leaf blight	Any Allium ALLSS	All Allium ALLSS	Tomato LYPES Potato Pear PYUSS (only for PLEOAL), asparagus ASPSS, allium ornamental bulbs, arachis sp. ARHSS	Tomato LYPES Allium ornamental bulbs, Arachis sp. ARHSS
<i>Puccinia allii</i> PUCCAL, <i>P. porri</i> PUCCPO	Rust	Any allium ALLSS	All allium ALLSS		Mint MENSS, Tarragon ARTDR
<i>Collectotrichum dematium</i> <i>f.sp circinans</i>	Smudge	Onion ALLCE	All Allium ALLSA		
The following extrapolation possibilities are proposed to be addressed in tables covering generic pests					
<i>Pythium</i> sp. PYTHSP	Damping off	Allium ALLSS	Garlic ALLSA, shallot ALLAS, leek ALLPO		Tomato LYPES
<i>Rhizoctonia</i> spp. RHIZSP (soil borne)	Rhizoctonia rot	Leek ALLPO	All Allium ALLSA		Tomato LYPES