



TWV/32/4

ORIGINAL: English

DATE: June 3, 1998

INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS
GENEVA

TECHNICAL WORKING PARTY FOR VEGETABLES

Thirty-Second Session

Slupia Wielka, Poland, June 29 to July 3, 1998

SURVEY ON DISEASE RESISTANCE TESTS

Document prepared by the Office of the Union

1. At the request of the Technical Working Party for Vegetables, a survey has been carried out amongst UPOV member States to find out what are the disease resistance tests that countries would be prepared to conduct on behalf of third countries.
2. Nine countries answered the technical questionnaire: France, Hungary, Ireland, Netherlands, Norway, South Africa, Spain, Sweden and Trinidad and Tobago.
3. Norway, Sweden and Trinidad and Tobago have not established any disease resistance tests for the moment.
4. This document shows the results of that survey as for the other countries.

Species		Disease resistance that could be tested on behalf of third countries	Country that can conduct resistance test ¹
Latin name	English common name		
	Cabbage	<i>Fusarium oxysporum</i> f. sp. <i>conglutinans</i>	NL
<i>Capsicum annuum</i> L.	Pepper	<i>Leveillula taurica</i>	FR
		Tobamovirus (TMV)	HU, NL, FR (strain 0, strain 1-2), (PMMV strain 1-2), (strain 1-2-3), (PMMV strain 1-2-3)
		<i>Phytophthora capsici</i>	FR, NL
		Potato Virus Y (PVY)	FR (strains 0, 1, 1-2), NL
		CMV	FR
<i>Citrus lanatus</i> (Thunb.) matsum et Nakai	Watermelon	<i>Fusarium oxysporum</i> f. sp. <i>niveum</i>	FR, NL
<i>Cucumis melo</i> L.	Melon	<i>Erysiphe cichoracearum</i>	FR (strains 0, 1)
		<i>Fusarium oxysporum</i> f. sp. <i>melonis</i>	FR, ES(strains 0, 1, 2, and 1-2), NL
		<i>Pseudoperonospora cubensis</i>	FR
		<i>Sphaerotheca fuliginea</i>	FR (strain 1, strain 2) (other strains on request)
		Aphis gossypii	FR (g.VAT), NL
		CABYV	FR (very soon available)
		Cucumis Mosaic Virus (CMV)	FR
		Muskmelon Necrotic Spot Virus (MNSV)	FR, NL
		WMV Maroc	FR
		Zucchini Yellow Mosaic Virus (ZYMV)	FR (g. Zym et g. Fn), NL
		Papaya Ringspot Virus (PRV)	NL
		<i>Cladosporium cucumerinum</i>	NL

¹ Ireland could test all disease resistances common to the following crops when grown in a northern European climate: wheat, oats, barley, sugar beet, fodder beet, kale, brassicas, vegetables, protein crops, oilseed crops, potatoes.

Species		Disease resistance that could be tested on behalf of third countries	Country that can conduct resistance test ¹
Latin name	English common name		
	Cucumbber/Gherkin	<i>Corynespora melonis</i>	NL
		Cucumis Mosaic Virus (CMV)	NL
		<i>Sphaerotheca fuliginea</i> (powdery mildew)	NL
		<i>Pseudoperonospora cubensis</i> (downy mildew)	NL
<i>Fragaria X. ananassa</i>	Strawberry	<i>Colletotrichum acutatum</i>	FR
		<i>Phytophthora cactorum</i>	FR
<i>Lactuca sativa</i> L.	Lettuce	<i>Bremia lactucae</i>	FR, NL (downy mildew) (NL races)
		Lettuce Mosaic Virus (LMV)	FR (gene mo11 and gene mo12), NL
<i>Lycopersicon esculentum</i> Mill	Tomato	<i>Pseudomonas syringae</i> pv <i>tomato</i>	FR, NL
		<i>Pseudomonas solanacearum</i>	FR
		<i>Fulvia fulva</i>	FR (race 0 and other strains)
		<i>Fusarium oxysporum</i> f. sp. <i>lycopersici</i>	ES (strain 0,1), FR (strain 0, 1), NL
		<i>Fusarium oxysporum</i> f. sp. <i>radicis lycopersici</i>	
		<i>Meloidogyne incognita</i>	ES, FR, NL
		<i>Cladosporium fulvum</i>	NL
		<i>Pyrenochaeta lycopersici</i>	NL
		<i>Phytophthora infestans</i>	NL
		Tobacco Mosaic Virus (TMV)	FR (strains 0, 1, 2), NL
		<i>Stemphylium</i> spp.	FR
		<i>Verticillium dahliae</i>	FR (g. Ve) (strain 0), NL

Species		Disease resistance that could be tested on behalf of third countries	Country that can conduct resistance test ¹
Latin name	English common name		
<i>Phaseolus vulgaris</i> L.	French Bean	<i>Xanthomonas campestris</i> pv <i>phaseoli</i> (Common blight)	FR, NL
		<i>Collectotrichum lindemuthianum</i> (Bean anthracnose)	FR, NL
		Bean Common Mosaic Virus (BCMV)	FR (virus 1), NL
		<i>Pseudomonas syringae</i> pv. <i>phaseolica</i>	FR (strain 2), NL
<i>Raphanus sativus</i> L.	Radish	<i>Fusarium oxysporum</i> f. sp. <i>raphani</i>	FR (strain 2)
	Pea	<i>Fusarium oxysporum</i> f. sp. <i>pisi</i>	NL
		Bean Yellow Mosaic Virus (BYMV)	NL
		<i>Ascochyta pisi</i>	NL
		Pea Enation Mosaic Virus (PEMV)	NL
		<i>Pseudomonas syringae</i> pv. <i>pisi</i>	NL
	Spinach	<i>Peronospora farinosa</i> f. sp. <i>spinaciae</i>	NL
		Cucumis mosaic Virus (CMV)	NL
<i>Valerianella locusta</i> (L.) Laterr.	Corn Salad	<i>Peronospora valerianella</i>	FR

The following institutions in each of the countries indicated below should be contacted for further information:

<u>Country</u>	<u>Name of Institution</u>
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