



CODE FOR RESISTANCE HARMONIZATION

ESA Number ESA_16.0787.1

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The ESA Code for resistance harmonisation has been designed by ESA to improve transparency to vegetable growers.

Vegetable seed companies are recommended to make use of the ESA Code in their catalogues, on their websites and in all other forms of product information

Pepper				
Scientific name pathogen ISF	Abbreviation	Races/Strains	Level	Example variety
Cucumber mosaic virus	CMV		IR/HR	IR: Vania (INRA) HR: Wonder Hot (OP)
Pepper mottle virus	PepMoV		HR	W4 (OP)
Pepper yellow mosaic virus	PepYMV		HR	PVR-7 (OP)
Potato Y virus	PVY	0	HR	Yolo Y (OP)
Potato Y virus	PVY	1	HR	Florida VR2 (OP)
Potato Y virus	PVY	1.2	HR	W4 (OP)
Tobacco etch virus	TEV		HR	Del Ray Bell (OP)
Tobamovirus (ToMV, TMV, PMMoV)	Tm:0	P0	HR	Yellow Wonder (OP)
Tobamovirus (ToMV, TMV, TMGMV, PMMoV, PaMMV)	Tm:0,1	P0, P1	HR	
Tobamovirus (ToMV, TMV, TMGMV, PMMoV, PaMMV)	Tm:0-2	P0, P1, P1.2	HR	PI152225 (OP)
Tobamovirus (ToMV, TMV, TMGMV, PMMoV, PaMMV)	Tm:0-3	P0, P1, P1.2, P1.2.3	HR	Tom4 (INRA)
Tomato spotted wilt virus	TSWV		IR	
Ralstonia solanacearum	Rs		IR	TM888
Xanthomonas campestris pv. vesicatoria	Xcv	0	IR/HR	IR: PS 09979325 HR: ECW10R
Xanthomonas campestris pv. vesicatoria	Xcv	1	IR/HR	IR: PS 09979325 HR: ECW-30R
Xanthomonas campestris pv. vesicatoria	Xcv	2	IR/HR	IR: PS 09979325 HR: ECW-10R
Xanthomonas campestris pv. vesicatoria	Xcv	3	IR/HR	IR: PS 09979325 HR: ECW-20R
Xanthomonas campestris pv. vesicatoria	Xcv	4	IR/HR	IR: PS 09979325 HR: ECW-30R
Xanthomonas campestris pv. vesicatoria	Xcv	5	IR/HR	IR: PS 09979325 HR: ECW-10R
Xanthomonas campestris pv. vesicatoria	Xcv	6	IR/HR	IR: PS 09979325 HR: ECW-12346

Xanthomonas campestris pv. vesicatoria	Xcv	7	IR/HR	IR: PS 09979325 HR: ECW-20R
Xanthomonas campestris pv. vesicatoria	Xcv	8	IR/HR	IR: PS 09979325 HR: ECW-20R
Xanthomonas campestris pv. vesicatoria	Xcv	9	IR/HR	IR: PS 09979325 HR: ECW-30R
Xanthomonas campestris pv. vesicatoria	Xcv	10	IR/HR	IR: PS 09979325 HR: ECW-12346
Leveillula taurica (anamorph: Oidiopsis sicula)	Lt		IR	HV-12 (OP)
Phytophthora capsici	Pc		IR	Phyo636 (INRA), PM217 (INRA)
Meloidogyne arenaria	Ma		IR	Carolina Cayenne, Charleston Bell
Meloidogyne incognita	Mi		IR	Carolina Cayenne, Charleston Bell
Meloidogyne javanica	Mj		IR	Carolina Cayenne, Charleston Bell

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