## Stress Combination and their Interaction in Plants (SCIP) Database



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## Effect on bell pepper cultivars (*Capsicum annuum* L. cv. Early calwonder, delray bell, florida VR-2)

The interaction between virus and fungus pathogen under combined stress at plant interphase

Table showing an effect of the virus on fungus-induced dampingoff in different bell pepper cultivars **Plant:** Bell pepper (*Capsicum annuum* L.) **Stress1:** *Tobacco mosaic virus* (TMV-P) and

Pepper mottle virus (PeMV) Stress 2: Rhizoctonia solani

**Growth stage:** Three weeks old plants

Treatments	Response under combined stress  Type B parameters*  Damping-off (%)											
							One week after inoculation with R. solani			Two weeks after inoculation with <i>R.</i> solani		
		Early	Delray	Florida	Early	Delray	Florida VR-2					
	Calwonder	bell	VR-2	Calwonder	bell							
TMV-P + R.	55	51	72	59	53	76						
solani												
PeMV + R.	59	51	NA	66	51	NA						
solani												
TMV-P + PeMV	57	77	NA	64	77	NA						
+ R. solani												
TMV-P + PeMV	0	0	NA	0	0	NA						
TMV-P	0	0	0	0	0	0						
	-			-		-						
PeMV	0	0	NA	0	0	NA						
R. solani	11	43	28	12	43	37						

NA- data not

available

For raw data – Click here (.xlsx file) Reference- Pieczarka and Zitter, 1981

'\*' - For more information on parameters classification, please refer to 'methodology' tab.

Inference from the study: Pieczarka and Zitter 1981, study aims to understand the effect of viruses (Tobacco mosaic virus and Pepper mottle virus) on fungus (Rhizoctonia solani) induced damping-off on three bell pepper (Capsicum annuum L.) cultivars. Plants infected with the combined virus and fungus stress showed higher damping-off in the first week than those treated with virus or fungus alone. Plants of Florida VR-2 infected with Tobacco mosaic virus and R. solani showed more damping-off compared to early calwounder and delray bell plants. The plants of Early calwounder and Delray bell showed more damping-off than Florida VR-2 under every combined stress treatment as compared to single stress except in one case when plants of Florida VR-2 were infected with Tobacco mosaic virus and R. solani. The overall



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result indicates that virus promotes fungus-induced damping-off in these three bell pepper cultivars.