



Stress Combination and their Interaction in Plants (SCIP) Database

Website link: <http://www.nipgr.res.in/scipdb.php>

Effect on apple varieties (*Malus domestica* L.)

The interaction between the fungus and mite pathogens under the combined stress treatment at the plant interface

Stress 1: Spider mites (*Tetranychusurticae*)
Stress 2: Powdery mildew

The table shows the effect of mildews on spider mite counts in apple orchards

Varieties	Treatment	Response under combined stress (Type B parameters*)							
		Mites per leaf		Percentage of apple leaves infested with life stages of spider mites					
				Adults	Immature	eggs	Adults	Immature	eggs
Gala	Mildew + Mites (Sequential stress)	0.45	0	0	0	1.7	0	0	0
	Mites only	0	0	0	0	0	0	0	0
Ginger gold	Mildew + Mites (Sequential stress)	13.58	3.93	0	0	0	0	12.5	15
	Mites only	9.75	0	0	0	0	0	0	2.5
Rome	Mildew + Mites (Sequential stress)	13.65	9.94	36.7	25	40	56.7	16	25
	Mites only	0.19	1.01	20	6.7	6.7	23.3	3	3

For raw data – Click here (.xlsx file)

Reference – Filajdic N, Sutton TB, Walgenbach JF, Unrath CR (1995) The influence of European red mites on intensity of *Alternaria* blotch of apple and fruit quality and yield. Plant Dis. **79**:683–690

Note: Values are presented as it is from the source article without subjecting to the calculation.

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

The inference from the study: Reding *et al.*, 2001 studied the association of powdery mildew and spider mites in the three different apple orchards Payson, Santaquin, and Spanish Fork containing the apple varieties Rome, Ginger Gold and Gala respectively. All the three apple varieties showed more number of spider mites infestation on mildewed leaves in comparison with the healthy leaves.