

**Table 1. Inhibitory effects of abiotic agents on *M. javanica* reproduction in tomato Super strain B Australian.**

Treatments	Nematode population in					Final population (PF)	*RF	No. of galls	R%	**RGI	No. of Egg masses	R%	***EI
	Soil	Reduction of J2%	Root										
			Developmental stages	Females	R%								
Ascorbic acid	1770 <sup>C</sup>	33.9	50 <sup>E</sup>	44 <sup>E</sup>	48.2	1864	1.864	66 <sup>D</sup>	79.1	4.0	59 <sup>C</sup>	76.1	4
Citric acid	130 <sup>J</sup>	95.2	10 <sup>I</sup>	12 <sup>I</sup>	85.9	152	0.152	18 <sup>I</sup>	94.3	3.0	30 <sup>F</sup>	87.9	3
DL-Aspartic acid	985 <sup>G</sup>	63.3	22 <sup>G</sup>	67 <sup>C</sup>	21.2	1074	1.074	14 <sup>J</sup>	95.6	3.0	11 <sup>H</sup>	95.5	3
Indol-3Acetic acid	1200 <sup>F</sup>	55.2	119 <sup>D</sup>	43 <sup>E</sup>	49.4	1362	1.362	37 <sup>E</sup>	88.3	4.0	50 <sup>D</sup>	79.8	4
Indol-3-Butyric acid	1500 <sup>D</sup>	44	140 <sup>C</sup>	200 <sup>A</sup>	-135.3	1840	1.84	198 <sup>B</sup>	37.1	5.0	187 <sup>B</sup>	24.3	5
DL-leucine	1780 <sup>B</sup>	33.6	144 <sup>B</sup>	56 <sup>D</sup>	34.1	1980	1.98	104 <sup>C</sup>	66.9	5.0	51 <sup>D</sup>	79.4	4
Gibberellic acid	210 <sup>H</sup>	92.2	18 <sup>H</sup>	23 <sup>H</sup>	72.9	251	0.251	35 <sup>F</sup>	88.9	4.0	32 <sup>E</sup>	87.0	4
L-arginine	190 <sup>I</sup>	92.9	22 <sup>G</sup>	30 <sup>G</sup>	64.7	242	0.242	22 <sup>H</sup>	93.02	3.0	14 <sup>G</sup>	94.3	3
Sulfosalicylic acid	1470 <sup>E</sup>	45.2	33 <sup>F</sup>	40 <sup>F</sup>	52.9	1543	1.54	25 <sup>G</sup>	92.1	3.0	30 <sup>F</sup>	87.9	3
Control infected	2680 <sup>A</sup>	0.0	416 <sup>A</sup>	85 <sup>B</sup>	0.0	3181	3.181	315 <sup>A</sup>	0.0	5.0	247 <sup>A</sup>	0.0	5

Each value is the mean of three replicates N=1000J2

\*Reproduction factor (Rf) = final population / initial population.

\*\*Root gall index (RGI) or egg masses index \*\*\* (EI) was rated on a scale of 1-5 where, 1= 0-2, 2= 3-10, 3= 11-30, 4= 31-100 and 5= more than 100 galls or egg masses / root system.

The differences between the mean values of various treatments were compared by Duncan's multiple range test