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 \*\*Significant at  $P \leq 0.01$ .

**Table 3:** Effect of Mancozeb on shoot length (cm) in germinating seeds of rice cultivars

Fungicide	Rice cultivars	Control	Different concentration of Fungicide (mg /gm)					Mean
			1	3	6	9	12	
Mancozeb	Jaya	6.26	7.56	7.92	8.38	6.25	7.16	7.26 <sup>b</sup>
	Jyothi	6.67	7.25	8.56	8.30	8.55	8.18	7.92 <sup>a</sup>
	IR	4.00	4.92	4.92	5.95	4.74	4.93	4.91 <sup>c</sup>
	<b>Mean</b>	5.64 <sup>d</sup>	6.58 <sup>c</sup>	7.13 <sup>ab</sup>	7.54 <sup>a</sup>	6.51 <sup>c</sup>	6.76 <sup>bc</sup>	6.69
	<b>F value</b>	Variety =553.929**		Concentration =45.751 **				
	Variety * Concentration =9.489 **							

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**Table 4:** Effect of Mancozeb on vigour index in germinating seeds of rice cultivars

Fungicide	Rice cultivars	Control	Different concentration of Fungicide (mg /gm)					Mean
			1	3	6	9	12	
Mancozeb	Jaya	1092	1332	1506	1605	1396	1470	1400 <sup>b</sup>
	Jyothi	1308	1481	1877	1722	1739	1633	1627 <sup>a</sup>
	IR	806	765	976	1036	870	826	875 <sup>c</sup>
	<b>Mean</b>	1096 <sup>t</sup>	1193 <sup>c</sup>	1443 <sup>b</sup>	1454 <sup>a</sup>	1335 <sup>c</sup>	1310 <sup>d</sup>	1301
	<b>F value</b>	Variety =177573.261**		Concentration = 13181.243**				
	Variety * Concentration = 1653.413**							

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 \*\*Significant at  $P \leq 0.01$ .

**Table 5:** Effect of Mancozeb on electrical conductivity ( $\mu S$ ) in germinating seeds of rice cultivars

Fungicide	Rice cultivars	Control	Different concentration of Fungicide (mg /gm)					Mean
			1	3	6	9	12	
Mancozeb	Jaya	438.00	560.00	635.00	709.33	625.66	737.66	617.61
	Jyothi	431.66	428.66	437.00	453.00	510.00	598.66	476.50
	IR	334.00	429.33	396.00	409.00	441.00	452.00	410.22
	<b>Mean</b>	401.22	472.66	489.33	523.77	525.55	596.11	501.44
	<b>F value</b>	Variety = 79.837**		Concentration = 14.987**				
	Variety * Concentration =3.216 **							

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**Table 6:** Effect of Mancozeb on chlorophyll-a (mg/g fresh weight) content in germinating seeds of rice cultivars

Fungicide	Rice cultivars	Control	Different concentration of Fungicide (mg /gm)					Mean
			1	3	6	9	12	
Mancozeb	Jaya	0.263	0.312	0.313	0.144	0.073	0.051	0.192
	Jyothi	0.091	0.022	0.073	0.091	0.026	0.028	0.554
	IR	0.022	0.144	0.102	0.084	0.087	0.036	0.079
	<b>Mean</b>	0.126	0.159	0.163	0.106	0.062	0.038	0.109
	<b>F value</b>	Variety =405.644**		Concentration = 97.430**				
	Variety * Concentration =59.465**							

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 \*\*Significant at  $P \leq 0.01$ .

**Table 7:** Effect of Mancozeb on chlorophyll-b (mg/g fresh weight) content in germinating seeds of rice cultivars

Fungicide	Rice cultivars	Control	Different concentration of Fungicide (mg /gm)					Mean
			1	3	6	9	12	
Mancozeb	Jaya	0.406	0.314	0.314	0.253	0.051	0.368	0.284 <sup>a</sup>
	Jyothi	0.136	0.074	0.053	0.140	0.072	0.018	0.082 <sup>b</sup>
	IR	0.046	0.150	0.074	0.081	0.091	0.072	0.085 <sup>b</sup>
	<b>Mean</b>	0.196 <sup>a</sup>	0.179 <sup>a</sup>	0.147 <sup>a</sup>	0.158 <sup>a</sup>	0.071 <sup>a</sup>	0.152 <sup>a</sup>	0.151
	<b>F value</b>	Variety =18.718**		Concentration =1.287 **				
	Variety * Concentration = 1.599**							

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**Table 8:** Effect of Mancozeb on total chlorophyll (mg/g fresh weight) content in germinating seeds of rice cultivars

Fungicide	Rice cultivars	Control	Different concentration of Fungicide (mg /gm)					Mean
			1	3	6	9	12	
Mancozeb	Jaya	0.694	0.534	0.650	0.420	0.136	0.246	0.447
	Jyothi	0.240	0.093	0.127	0.203	0.093	0.043	0.133
	IR	0.072	0.291	0.121	0.160	0.255	0.114	0.169
	<b>Mean</b>	0.335	0.306	0.299	0.261	0.162	0.134	0.249
	<b>F value</b>	Variety =159.993**		Concentration = 18.811**				
	Variety * Concentration =18.993 **							

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 \*\*Significant at  $P \leq 0.01$ .

**Table 9:** Effect of Mancozeb on phenol content (µg/fresh weight) in germinating seeds of rice cultivars

Fungicide	Rice cultivars	Control	Different concentration of Fungicide (mg /gm)					Mean
			1	3	6	9	12	
Mancozeb	Jaya	793.66	975.33	1521.33	2027.00	1722.33	1898.00	1489.61a
	Jyothi	557.66	456.33	380.00	636.66	810.00	652.33	582.16b
	IR	645.33	407.33	548.00	566.00	718.33	569.33	575.72b
	<b>Mean</b>	1002.22	613.00	816.44	1076.55	1083.55	916.44	918.03
	<b>F value</b>	Variety =2005.442**			Concentration = 182.756**			
	Variety * Concentration =85.237**							

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