Table 38. Evaluation of botanical, acaricides, entomopathogenic fungi and mineral oil against *O. oryzae* on rice - Field Trial I – spray – I (March 2017 – June 2017)

Treatments	Dose mL/L	Mean mite population (Nos/10cm leaf area) (Days after treatment)					
		PTC	3	7	10	14	Mean
Neem Azal	2.0	53.23	35.64 (5.97)^{d}	13.22 (3.64)^{d}	8.62 (2.94)^{e}	25.62 (5.06)^{e}	20.78
Fenazaquin	1.5	54.54	10.68 (3.27)^{a}	1.66 (1.29)^{a}	1.21 (1.10)^{a}	10.86 (3.30)^{a}	6.10
Fenpyroximate	1.5	55.25	14.89 (3.86)^{c}	4.52 (2.13)^{c}	2.00 (1.41)^{b}	16.42 (4.05)^{c}	9.46
Mineral Oil	20.0	54.84	39.89 (6.32)^{e}	14.34 (3.79)^{e}	9.42 (3.07)^{f}	17.38 (4.17)^{d}	20.26
Beauveria bassiana, CFU 1x10^{8} /mL	3.0	54.48	41.23 (6.42)^{e}	18.88 (4.35)^{f}	6.48 (2.55)^{c}	15.46 (3.93)^{b}	20.51
Hirsutella thompsonii, CFU 1x10^{8} /mL	3.6	55.84	47.52 (6.89)^{f}	21.26 (4.61)^{g}	7.23 (2.69)^{d}	11.47 (3.39)^{a}	21.87
Propargite	2.5	53.37	12.62 (3.55)^{b}	3.48 (1.87)^{b}	1.42 (1.19)^{a}	15.89 (3.99)^{c}	8.35
Control		55.87	68.48 (8.28)^{g}	70.46 (8.39)^{h}	74.28 (8.62)^{g}	74.69 (8.64)^{f}	71.98
SEd		NS	0.07	0.05	0.05	0.06	-
CD (0.05)		NS	0.15	0.10	0.11	0.13	-

- Figures in parentheses square root transformed values
- Means followed by common letters are not significantly different at 5 % level by DMRT (P=0.05)
- PTC- Pre Treatment Count
- NS – Non significant

Table 39. Evaluation of botanical, acaricides, entomopathogenic fungi and mineral oil against *O. oryzae* on rice - Field Trial I – spray – II (March 2017 – June 2017)

Treatments	Dose mL/L	Mean mite population (Nos/10cm leaf area) (Days after treatment)				
		3	7	10	14	Mean
Neem Azal	2.0	16.42 (4.05)^{g}	4.73 (2.17)^{d}	3.88 (1.97)^{d}	5.84 (2.42)^{c}	7.72
Fenazaquin	1.5	1.86 (1.36)^{a}	0.86 (0.93)^{a}	1.49 (1.22)^{a}	3.42 (1.85)^{a}	1.91
Fenpyroximate	1.5	2.64 (1.62)^{c}	1.47 (1.21)^{c}	2.23 (1.49)^{b}	4.61 (2.15)^{b}	2.74
Mineral Oil	20.0	9.89 (3.14)^{e}	6.89 (2.62)^{g}	6.88 (2.62)^{f}	7.54 (2.75)^{d}	7.80
Beauveria bassiana, CFU 1x10^{8} /mL	3.0	11.82 (3.44)^{f}	5.87 (2.42)^{e}	6.34 (2.52)^{e}	9.26 (3.04)^{e}	8.32
Hirsutella thompsonii, CFU 1x10^{8} /mL	3.6	8.42 (2.90)^{d}	6.42 (2.53)^{f}	7.28 (2.70)^{g}	9.21 (3.03)^{e}	7.83
Propargite	2.5	2.22 (1.49)^{b}	1.20 (1.10)^{b}	2.69 (1.64)^{c}	4.23 (2.06)^{b}	2.59
Control		75.06 (8.66)^{h}	76.82 (8.76)^{h}	79.85 (8.94)^{h}	82.4 (9.08)^{f}	78.53
SEd		0.02	0.02	0.03	0.03	-
CD (0.05)		0.05	0.02	0.07	0.06	-

- Figures in parentheses square root transformed values
- Means followed by common letters are not significantly different at 5 % level by DMRT (P=0.05)

Table 40. Evaluation of botanical, acaricides, entomopathogenic fungi and mineral oil against *O. oryzae* on the yield of rice - Field Trial -I (March 2017 – June 2017)

Treatments	Dose mL/L	Mean mite population (Nos/10cm leaf area)			(%) Population reduction over control	Yield t/ha	(%) Yield increase over control
		I spray	II spray	Pooled mean			
Neem Azal	2.0	20.78	7.72	14.25 (3.77)^{de}	81.07	3.62^{d}	14.36
Fenazaquin	1.5	6.10	1.91	4.01 (2.00)^{a}	94.68	4.30^{a}	27.91
Fenpyroximate	1.5	9.46	2.74	6.10 (2.47)^{c}	91.90	3.86^{c}	19.69
Mineral Oil	20.0	20.26	7.80	14.03 (3.75)^{d}	81.36	3.57^{d}	13.17
Beauveria bassiana, CFU 1x10^{8} /mL	3.0	20.51	8.32	14.42 (3.80)^{de}	80.84	3.26^{e}	4.91
Hirsutella thompsonii, CFU 1x10^{8} /mL	3.6	21.87	7.83	14.85 (3.85)^{e}	80.27	3.20^{ef}	3.13
Propargite	2.5	8.35	2.59	5.47 (2.34)^{b}	92.73	4.02^{b}	22.89
Control		71.98	78.53	75.26 (8.67)^{f}		3.10^{f}	-
SEd		-	-	0.04		0.07	
CD (0.05)		-	-	0.08		0.15	

- Figures in parentheses square root transformed values
- Means followed by common letters are not significantly different at 5 % level by DMRT (P=0.05)

Table 41. Evaluation of botanical, acaricides, entomopathogenic fungi and mineral oil against *O. oryzae* on rice - Field Trial II – spray – I (August 2017 to November 2017)

Treatments	Dose mL/L	Mean mite population (Nos/10cm leaf area) (Days after treatment)					
		PTC	3	7	10	14	Mean
Neem Azal	2.0	40.64	12.43 (3.53)^{f}	9.85 (3.14)^{g}	10.22 (3.20)^{g}	13.68 (3.42)^{f}	11.05
Fenazaquin	1.5	42.29	2.85 (1.69)^{a}	2.21 (1.49)^{a}	2.86 (1.69)^{a}	4.43 (2.54)^{a}	3.59
Fenpyroximate	1.5	39.68	3.89 (1.97)^{b}	3.44 (1.85)^{c}	4.62 (2.15)^{c}	8.41 (2.90)^{c}	5.09
Mineral Oil	20.0	41.66	7.61 (2.76)^{c}	5.22 (2.28)^{d}	9.08 (3.01)^{f}	10.88 (3.30)^{e}	8.20
Beauveria bassiana, CFU 1x10^{8} /mL	3.0	40.38	9.43 (3.07)^{d}	7.88 (2.81)^{e}	6.44 (2.54)^{d}	7.8 (2.79)^{b}	7.89
Hirsutella thompsonii, CFU 1x10^{8} /mL	3.6	40.27	10.21 (3.20)^{e}	8.54 (2.92)^{f}	7.09 (2.66)^{e}	10.22 (3.20)^{d}	9.02
Propargite	2.5	43.89	3.03 (1.74)^{a}	2.48 (1.57)^{b}	3.54 (1.88)^{b}	7.86 (2.80)^{b}	4.23
Control		39.64	40.26 (6.35)^{g}	48.62 (6.97)^{h}	52.16 (7.22)^{h}	52.88 (7.27)^{g}	48.48
SEd		NS	0.03	0.03	0.05	0.03	-
CD (0.05)		NS	0.06	0.06	0.12	0.07	-

- Figures in parentheses square root transformed values
- Means followed by common letters are not significantly different at 5 % level by DMRT (P=0.05)
- PTC- Pre Treatment Count
- NS – Non significant

Table 42. Evaluation of botanical, acaricides, entomopathogenic fungi and mineral oil against *O. oryzae* on rice - Field Trial II – spray – II (August 2017 to November 2017)

Treatments	Dose mL/L	Mean mite population (Nos/10cm leaf area) (Days after treatment)				
		3	7	10	14	Mean
Neem Azal	2.0	6.09 (2.47)^{f}	5.24 (2.29)^{g}	6.83 (2.61)^{e}	7.02 (2.65)^{f}	6.30
Fenazaquin	1.5	1.44 (1.20)^{a}	1.62 (1.27)^{a}	2.59 (1.61)^{a}	3.02 (1.74)^{a}	2.17
Fenpyroximate	1.5	1.89 (1.37)^{c}	2.67 (1.63)^{c}	3.88 (1.97)^{c}	3.64 (1.91)^{b}	3.02
Mineral Oil	20.0	6.74 (2.60)^{g}	4.31 (2.08)^{f}	5.73 (2.39)^{d}	4.73 (2.17)^{d}	5.38
Beauveria bassiana, CFU 1x10^{8} /mL	3.0	5.21 (2.28)^{e}	4.02 (2.00)^{e}	6.84 (2.62)^{e}	6.44 (2.54)^{e}	5.63
Hirsutella thompsonii, CFU 1x10^{8} /mL	3.6	4.88 (2.21)^{d}	3.86 (1.96)^{d}	6.78 (2.60)^{e}	7.05 (2.66)^{f}	5.64
Propargite	2.5	1.62 (1.27)^{b}	2.03 (1.42)^{b}	3.24 (1.80)^{b}	4.33 (2.08)^{c}	2.81
Control		57.64 (7.59)^{h}	61.21 (7.82)^{h}	61.89 (7.87)^{f}	68.46 (8.27)^{g}	62.30
SEd		0.02	0.01	0.03	0.04	-
CD (0.05)		0.04	0.03	0.05	0.08	-

- Figures in parentheses square root transformed values
- Means followed by common letters are not significantly different at 5 % level by DMRT (P=0.05)

Table 43. Evaluation of botanical, acaricides, entomopathogenic fungi and mineral oil against *O. oryzae* on the yield of rice - Field Trial -II (August 2017 to November 2017)

Treatments	Dose mL/L	Mean mite population (Nos/10cm leaf area)			(%) Population reduction over control	Yield t/ha	(%) Yield increase over control
		I spray	II spray	Pooled mean			
Neem Azal	2.0	11.05	6.30	8.67 $(2.94)^{f}$	84.35	3.94^{b}	27.16
Fenazaquin	1.5	3.59	2.17	2.88 $(1.70)^{a}$	94.81	4.82^{a}	40.46
Fenpyroximate	1.5	5.09	3.02	4.06 $(2.01)^{c}$	92.68	4.63^{a}	38.01
Mineral Oil	20.0	8.20	5.38	6.79 $(2.61)^{d}$	87.75	3.6^{c}	20.28
Beauveria bassiana, CFU $1x10^{8}$ /mL	3.0	7.89	5.63	6.76 $(2.60)^{d}$	87.80	3.29^{d}	12.77
Hirsutella thompsonii, CFU $1x10^{8}$ /mL	3.6	9.02	5.64	7.33 $(2.71)^{e}$	86.77	3.31^{d}	13.29
Propargite	2.5	4.23	2.81	3.52 $(1.88)^{b}$	93.65	4.76^{a}	39.71
Control		48.48	62.30	55.39 $(7.44)^{g}$	-	2.87^{e}	-
SEd		-	-	0.05		0.11	
CD (0.05)		-	-	0.10		0.22	

- Figures in parentheses square root transformed values
- Means followed by common letters are not significantly different at 5 % level by DMRT (P=0.05)