

Bio-efficacy evaluation of Change and Vigore against Late blight and
Early blight of Potato
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Objective:

- 1) Studies on bio-efficacy of Change & Vigore against Late Blight and Early Blight of Potato.
- 2) Evaluation of phytotoxicity.
- 3) To find out the effective dose in comparison to various standard check treatments.
- 4) Assessment of yields.

Crop: Potato

Year of experiment: August – November 2013 & 2014

Variety: Kufri jyoti

Experiment design: RBD (12 x 3)

Analysis of Season 1 results: 2013

Treatments	Early blight of Potato (<i>Alternaria solani</i>)	Late blight of Potato (<i>Phytophthora Infestans</i>)	Potato tuber yield (t/ha)
	Percent disease control (%)	Percent disease control (%)	
Control plot : Sprayed only Mancozeb	58.69%	57.38%	15.64
Treated plot: Vigore applied as basal dose and Mancozeb is sprayed	85.79%	84.98%	18.92
Percent increased (%)			19.29%

Analysis of Season 2 results: 2014

Treatments	Early blight of Potato (<i>Alternaria solani</i>)	Late blight of Potato (<i>Phytophthora Infestans</i>)	Potato tuber yield (t/ha)
	Percent disease control (%)	Percent disease control (%)	
Control plot : Sprayed only Mancozeb	57.44%	56.17%	15.86
Treated plot: Vigore applied as basal dose and Mancozeb is sprayed	81.56%	82.76%	19.12
Percent increased (%)			20.55%

Conclusion

All the treatments were more effective in comparison to control. Plots treated with Vigore @ 250 g/acre + Mancozeb 75% WP have provided the maximum control of Early Blight & Late Blight diseases and also recorded highest in term of tuber yields. The data on Terminal disease severity (TDI) also gave the same trend and controlled the disease. No phytotoxicity was observed up to double of the effective dosage.

