



Research Paper

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Compatibility of insecticides and fungicides mixtures against cabbage leaf spot, *Alternaria brassicae* (Sacc.) Berk.

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ABSTRACT : Among the insecticides studied, profenophos showed cent per cent mycelial inhibition at all four concentrations (0.0025, 0.005, 0.01 and 0.02) followed by fipronil at 0.01 and 0.02 per cent. Similarly spinosad (36.61-85.00%), novaluron (25.00-64.68%), endosulfan (35.91-55.00%), indoxacarb (35.22-55.00%) and thiodicarb (10.66-52.66%) were proved to be moderately toxic. The combining effect of clorothalonil with insecticides indicated that clorothalonil is compatible with fipronil, profenophos, endosulfan, indoxacarb, spinosad and thiodicarb as its bio-efficacy was increased by 24.39, 24.39, 22.88, 20.16, 19.54, and 2.54 per cent, respectively. However, incompatibility was noticed in combination with novaluron where efficacy was decreased by 3.72 per cent. The bio-efficacy of mancozeb with insecticides indicated that it is compatible with all the insecticides tested where its bio-efficacy was increased substantially with endosulfan (40.08%), profenophos (38.45%), novaluron (29.20%), thiodicarb (27.79%), spinosad (23.33), fipronil (21.21%) and indoxacarb (17.72%). Regarding compatibility of quintal with insecticides its bio-efficacy was enhanced with profenophos (26.09) followed by novaluron (25.53%), fipronil (24.33), endosulfan (22.89), indoxacarb (18.71) and thiodicarb (18.08) indicating that they are compatible. However, incompatibility was noticed between quintal + spinosad combination where efficacy of lowered by 12.95 per cent.

KEY WORDS : *Alternaria brassicae*, Compatibility, Fungicides, Insecticides

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