

عنوان مقاله:

Study of potential resistance inducers to control of witches' broom disease of lime

محل انتشار:

کنگره بین المللی مهندسی کشاورزی و صنایع وابسته (سال: 1397)

تعداد صفحات اصل مقاله: 4

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خلاصه مقاله:

Witches broom diseases of lime (WBDL) has been considered as one of the most economically devastating disease of Mexican lime in southern Iran with limit information on management and no available cure. Resistance inducer compounds are able to induce plant defense system against many different pathogens. In this study effects of different chemical inducers on WBDL were investigated in greenhouse and field conditions. Results revealed that resistance inducer components including ۳۱% Phosetyl-Al plus ۵۳% propamocarb, Hymexazol ۷۰% and, individually, were effectual in control of WBDL disease development after two applications per year. Ascorbic acid (AA), salicylic acid (SA), Aliette, NanoSilver and STARNER also showed transient effect against WBDL after three or four applications per year. The treatments ۳۱% Phosetyl-Al plus ۵۳% propamocarb (Privicore Energy™) ۴/۰۰۰, Hymexazol ۷۰% (۲/۰۰۰) and NORDOX (۰.۵/۰۰۰) decreased the symptom progress of 'Candidatus Phytoplasma aurantifolia', the causative agent of WBDL in plant and decrease WBDL disease severity by approximately ۱۷ to ۴۰% compared with the control (non-treated) in greenhouse condition and ۲۰-۲۵% in garden. These resistance inducer components also exhibited positive effect on WBDL disease severity, fruit yield and quality in field condition. Altogether, the results of this study indicate some promising sign of induced resistance to suppress the severity of the disease in WBDL infected orchards.

کلمات کلیدی:

.induced resistance, WBDL, Mexican lime, greenhouse, field

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