

苹果半矮化砧木新品种‘青矮3号’

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A New Apple Semi-dwarfing Rootstock Cultivar ‘Qing Ai 3’

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摘要 ‘青矮3号’是1978年从苹果矮化砧木M₉的自然实生苗中选育而成的半矮化砧木新品种。其树冠中等,长势中庸;作中间砧嫁接红富士树,3年生树全部结果,7~14年生树平均产量42 270 kg·hm⁻²(M₂₆嫁接树为34 785 kg·hm⁻²),丰产性强;嫁接树的果实着色好,品质优,果形指数、果实硬度和可溶性固形物分别为0.87、7.8 kg·cm⁻²、14.3%,与M₂₆嫁接树相当。嫁接红富士的盛果期树,树高3.83 m,冠径3.57 m,为M₂₆嫁接树的130%,属半矮化砧木;干性强,可不设立柱栽培;适宜在山东、河北、山西、陕西等苹果主产区应用。

关键词: 苹果 砧木 品种

Abstract: ‘Qing Ai 3’ is a new apple semi-dwarfing rootstock selected from the M₉ seedlings in 1978. Not only its crown but also its growth is medium. Grafting on the inter stock, the Fuji tree fully produced at 3 years old. The average yield of the tree of 7-14 years old is 42 270 kg·hm⁻², while that on M₂₆ is 34 785 kg·hm⁻², which shows it has high-yield character. The fruits have good quality and colour. The soluble solids content of Fuji grating on the inter stock is 14.3%, the hardness is 7.8 kg·cm⁻², and the fruit index is 0.87, which is equal to M₂₆. The Fuji tree dwarfing on the inter stock in high-yield year has a 3.83 m height and a 3.57 m crown diameter, which is 30% more than that of M₂₆. Therefore, ‘Qing Ai 3’ belongs to a semi-dwarfing rootstock. It has straight trunk which can stand without pillars, which is suitable for the application in the main apple production area such as Shandong, Hebei, Shanxi and Shaanxi.

Keywords: apple, rootstock, cultivar

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