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Effects of Training on Tree Growth, Yield and Dry N in Japanese Pear 'Kousui' in a Soil Mound Rhizospl Culture System

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We evaluated the effects of training and culture methods on tree grc matter production in the Japanese pear 'Kousui'. We adopted two conventional culture and rhizosphere restricted culture, and two train and Y-shape, to make four test plots: 1) pergola/conventional (P/C shape/conventional (Y/C), 3) pergola/rhizosphere restricted (P/R), shape/rhizosphere restricted (Y/R). Leaf Area Index (LAI) in Y/R double that of the other test plots. Brix in Y/R was the highest. Fruit Y/R was 18.5, about double that of the other plots. When the leaf/f to about 35 in all the plots, yield in Y/R was as high as 61 t·ha⁻¹, be Though shoot number and tree vigor in Y/R were between those of trees demonstrated superior shoots and the greatest number of flow matter production per ha in Y/R was the greatest. Partitioning rate o fruit was 43.0% in Y/R and 39.1% in P/R. Assimilate partitioning ra rhizosphere restricted culture methods were higher than those in the It was concluded that a high yield of 61 t·ha⁻¹ and a high Brix of 12 result of 1) increase in fruit-bearing shoots due to an increase in fine irrigation methods, 2) increase in dry matter production due to an ir increase in partitioning rate of assimilates to the fruits due to a comp

Key Words: assimilate partitioning rate, leaf area index, root restr.

[PDF (877K)] [References]

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