

塑料大棚地热花果木扦插苗床工程研究

THE STUDY OF RELATED ENGINEERING TO HEAT PLASTC GREENHOUSE BY GEOTHERMAL ENERGY FOR RAISING GRAFTING FLOWER AND ERUIT TREE SEEDLINGS

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中文摘要：

本文阐述利用地热作热源,进行人工气候温室花果木扦插快速育苗工程研究。经三年多试验表明:温室结构以拱型镀锌钢管大棚使用性能好;苗床宜以细砂作基质并采用地下铺设镀锌钢管通地热水提高地温方式。试验采用自行研制的简易电子调节器温控仪控温;用连续可调式定时加湿控制器或分档可调式定时加湿控制器控湿以及一套扦插花果木育苗技术工艺规程,可使苗床5~10cm深处的地温保持在 $25\pm 3^{\circ}\text{C}$;相对湿度达85%。在此环境条件下,可缩短成苗期1/3,苗木发根率达90%以上。从而实现了打破季节和地域限制,排除气候干扰,常年进行花果木扦插育苗,具有显著经济效益。

英文摘要：

This is a study on heating the greenhouses used for raising the grafting flower or fruit tree seedlings with geothermal energy. According to three years experiment it showed that the better way is to use the plastic arc greenhouse with zinc-plated steel tube skeleton structure. The seedbed is better to use the fine sand as the cultural material and pave the zinc-plated steel tube underneath in order to supply heat by geothermal hot water. The simple and easy electronic thermostat which was designed and made by authors was used to control the temperature of the seedbed. The stepped or stepless humidistat was used to control the relative humidity in the greenhouse. Authors also designed a complete set of grafting and culturing technological regulations for raising the flower or fruit tree seedlings. In such way, the soil temperature 5-10 cm under the surface of the seedbed kept at $25\pm 3^{\circ}\text{C}$. and the relative humidity in the greenhouse at 85%. Under this environmental condition it shortened one third of the fruit tree seedlings forming stage and promoted the root growing rate up to more than 90% of above seedlings. By such cultural technology it breaks the limitation of raising grafting flower or fruit tree seedlings in any season or region, It is also to get rid of the disturbing from the climatic variations, It can raise above seedlings more effectively and get remarkable economic benefits.

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