

## Enhancement of oil Palm (*Elaeis guineensis* Jacq.) by Magnetically treated Water

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Oil palm planting has become a very important agriculture especially in Southern Thailand. Because its oil production has been used as human consumption and is now developed as bio-energy used for some vehicles therefore oil palm has become a very important economical plant which has been promoted to crop widely. However, since a nursing time of young oil palm trees needs more than 2 years, rare of young oil palm trees which caused high price has still caused a problem to agriculturist. In addition, some young trees weak and unable to grow. This work we therefore present physics method to enhance oil palm seedling. Magnetically treated water (MTW) was applied to young oil palm nursery. Oil palm seedlings which were electromagnetically germinated were divided into two groups and transferred into soil pot with same basic nutrition. Both groups were planted at nature environments. Light intensity at 1200 Lux was controlled. The first group was watered every day by MTW whereas the second group was applied by normal water and act as control. Sprout Heights of both groups were daily recorded. We found that oil palm seedlings which were watered by MTW grew 3 times faster than control with a growing rate of 0.31 cm/day. Larger and longer leaf than those of control also were observed. Our results conclude that MTW is able to stimulate plants growth and reduce their nursing time.

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