

## Efisiensi penggunaan air pada budidaya *Amaranthus viridis* (bayam hijau L) secara hidroponik

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### Abstrak

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Efficiency of water usage is needed for sustainable agriculture. The aim of this research is to investigate the hydroponic (NFT, DFT, Aeroponic) efficiency on water use using *Amaranthus viridis* L. as the planted material. Efficiency on water use was measured by comparing the water use on hydroponic with the control during the plant growing period. The result shows that the three type of hydroponics are able to increase efficiency of water use. NFT is the most efficient technique with efficiency on water use 20.43%. While DFT

and Aeroponic, has the efficiency on water use 12.29% and 3.57%, respectively. Enhancing efficiency of water use on hydroponic was caused by the closing and circulating irrigation technique on hydroponic are able to minimize the evaporation .