

**Application of Organic Fertilizer on Growth and Spinach Crop**  
**(*Alternanthera Tricolor L.*)**

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**ABSTRACT**

Organic spinach has market prospects are quite good, but during the production of spinach organic remains a bottleneck. The obstacle is still the lack of public awareness of organic farming. Attempts to increase the yield of organically grown spinach, one of them with the use of appropriate types of organic fertilizers and balanced. The experiment consisted of two factors, the first factor is the type of spinach plants, namely plant varieties Mira red spinach, green spinach crop varieties Maestro and green spinach crop varieties Riawan Tani. The second factor is the type of organic fertilizer is cow manure, chicken manure, compost and green manure. Observations of growth in terms of height, leaf number, leaf color, plant fresh weight, dry weight of plants, root volume and root dry weight. Based on the results and analysis of this study can be concluded that green manure azzola better in influencing plant height, leaf number, root volume, fresh weight and dry weight of plants. Green spinach plant type varieties Riawan Tani shows growth and better results than with spinach plants varieties Mira red and green spinach crop varieties Maestro at 28 dap treatment plant height and plant fresh weight observation. There is a best interaction on the combination treatment plants green spinach varieties Maestro with cow manure.

Keywords: red amaranth, spinach green, organic fertilizers