

ABSTRACT

The final results of the present work could be concluded as follows:

- ‘- Mulching with banana leaves as soil covering in purpose of the perennial weed control i.e. *Convolvulus arvensis*, *Cyperus rotundus* and *Cynodon dactylon* which considered as alternative to herbicides method.
- ‘- Determination the soil depths which *Convolvulus arvensis* seed and vegetative underground parts of *Cyperus rotundus*, *Cynodon dactylon* and *Imperata cylindrica* can germinate for increasing the cultivation efficacy in the field.
- ‘- Recognition the temperature degrees which help the previous four perennial weeds to successive germination and growth for the predication suitable time of controlling it.
- ‘- The cuttings as weekly or biweekly intervals for defined period can exhauste the reserve food of the vegetative underground parts of the three perennial grassy weeds which resultant of inhibition their growth.
- ‘- Determination of the effective dose of Herbazid herbicide for controlling the four previous perennial weeds to predict the exacted dose at different controlling percentages. That helps the save exceeding amount of the herbicide to decrease the environment pollution.

These refer to the importance of the integration between weed biological and weed control methods studies in weed management strategy approach.

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