

***Rubus sanctus L . EXTRACT ON THE GROWTH AND YIELD OF
Cow pea.***

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ABSTRACT

This experiment was conducted during 2011 to study the effect of chemical fertilizer, poultry manure and extraction of wild *Rubus sanctus L* fruit. On growth and yield of *cow pea L.cv. Zaden*. The fertilization of poultry and chemical fertilizer resulted in higher result in comparison with control treatment in vegetative growth parameters (eaves number/plant, plant height, leaves area/plant, leaves chlorophyll content as increasing of poultry fertilization than chemical fertilization was not significant just in plant height. Plant yield increased when poultry and chemical fertilization in comparison with control treatment (pos number, seeds number/pod, pod height). The increasing in plant pods yield spraying with wild *Rubus sanctus* fruit extraction resulted in increasing of vegetative growth parameter (leave number/plant, plant height, leaves area/plant, chlorophyll content) when comparison with no spraying due to this increasing was not significant just in plant height parameter. Same results were obtained in yield(yield plant, pods number/plant, seeds number/pod and pod height).the increasing was significant in all parameter but seeds number/pod parameter. the interaction between fertilization type and spraying with wild *Rubus sanctus L* fruit extraction resulted in (leaves number/plant, plant height, leaves area/plant, chlorophyll content in leaves). Interaction between chemical fertilization and wild *Rubus sanctus L* fruit extraction resulted in high height number(plant yield, pods/ number, seeds number/pod pod high) .

Key words: Spraying extract wild berry , plant fertilization .