

## **Abstract**

In order to study the effects of different levels of humic acid and phosphorus fertilizer on qualitative and quantitative characteristics of Rosell (*Hibiscus sabdariffa*), the experiment was conducted at research farm of University of Zabol, Iran in year 2012. The factors were phosphorus fertilizer (0, 100 and 200 kg/ha) and humic acid (0, 750, 1500 and 2250 g/ha). The experiment design was factorial experiment in base of randomized complete blocks design with twelve treatments and three replications. Results shown that the highest plant height (144/22cm), number of fruit (87/56), 1000 seed weight (34/33g) were obtained at 2250 g/ha humic acid. Phosphorus fertilizer, also showed significant effects on plant height, number of branch, number of fruit, total carbohydrates and anthocyanin maximum number of branch (11/75) and anthocyanin (0/000066  $\mu\text{mol.g}^{-1}$ ) obtained in its second level. In this study, interaction of two factors on height, number of branch, number of fruit and harvest index were significant. Maximum economic yield (0/78 ton/ha) were obtained without incorporation with third level of humic acid (1500g/ha).

**Key word:** Anthocyanin, Economic yield, Carbohydrate.



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**The Influence of different humic acid and  
phosphorus fertilizer levels on qualitative  
and quantitative characteristics of Roselle  
(*Hibiscus sabdariffa*)**

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