

## Effect of BYMV on Faba Bean Productivity in Libya

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**Abstract :** One distinct virus namely bean yellow mosaic potyvirus (BYMV) was isolated from naturally infected faba bean plants and identified through the serological reaction, mechanical transmission, host range and symptomology. To study the effect of BYMV on faba bean crop productivity, the experiment was carried out in naturally infected field in a completely randomized design with two treatments (the early infected plants and the lately infected plants). T- test was used to analyze the data. plants of each treatment were harvested when the pods were fully ripened. Early infection significantly reduced the yield of broad bean crop leading to 85.04% yield loss in productivity of seeds per plant, 72.42% yield loss in number of pods per plants, 31.58% yield loss in number of seeds per pod and 18.2% yield loss in weight of seeds per plant.

**Keywords :** bean yellow mosaic potyvirus, faba bean, productivity, libya

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