

**GREEN BEANS YIELD FORMATION DEPENDING ON THE TERMS  
OF SEED INOCULATION IN RIGHT-BANK FOREST-STEPPE.**

***O.O. Kostuk*, assistant**

***V.M. Shernetsryu*, Doctor of Agricultural Sciences, Professor**

**Vinnytsia National Agrarian University**

*The effects of inoculation on the yield of green beans. Application inoculation resulted from better maintenance of plants biologically fixed nitrogen and increased crop varieties Karadag to 0.7 t/ga and Ukrainian Slobod of 0.8 t/ga.*

***Tubercle bacteria, legumes, biologics***

As a result of research by many scientists found that the development potential of the symbiotic legumes can effectively regulate the processing methods, in particular the use of drugs such as bacterial nitrugin, rizotorfina, Rizobofit, different rates of nitrogen fertilizer and trace elements, growth promoters and biological origin cytochemical and the like. Data on the effect of inoculation of bean seeds for vegetable crop formation of green beans in the scientific literature covered enough. So, in 2010, the harvest of green beans varieties Karadag without inoculation was 12.2 t / ha, varieties Ukrainian Slobodskoy - 12.5 t / ha, due to inoculation harvest increased by 0.7 and 0.9 t / ha. In 2011, the harvest of green beans varieties Karadag without inoculation was 12.1 t / ha, varieties Ukrainian Slobodskoy - 12.4 t / ha. Application of inoculation provides growth harvest in grade Karadag 0.7 t / ha, while in grade Ukrainian Slobodskoy - 0.8 t / ha.

The same difference was observed in 2012. In class Karadag that Vista has fallen for control, his yield was 12.0 t / ha without inoculation and inoculation with the harvest of green beans increased by 0.7 t / ha. In grade Ukrainian Slobodskoy without inoculation and harvest was 12.3 t / ha, and in the application of inoculation increased to 13.0 t / ha, which is 0.7 t / ha more control.

On average for the years 2010-2012. Inoculation provided increasing the yield in both cultivars, respectively 0.7-0.8 t / ha due to the fact that during the ripening of green beans into the plants become more active Bull cask bacteria were favorable

weather conditions that have a positive impact on the lo growth, development and yield of green beans.

### **References**

1. Борисова Р. Л. Малораспространенные овощные культуры / Р. Л. Борисова, В. Я. Борисов, М. Ф. Перегудт. – Симферополь : Таврія, 1979. – 186 с.
2. Векірчик К. М. Стан і перспективи досліджень впливу обробки насіння БАР та інокуляції ризобіями на азотфіксація, ріст, розвиток і продуктивність квасолі звичайної та сої культурної в умовах Тернопільської області / К. М. Векірчик, О. Б. Конончук // Фізіологія рослин в Україні на межі тисячоліть: у 2 т. – К., 2001. – С. 231–236.
3. Патыка В. Ф. Микроорганизмы и биологическое земледелие / В. Ф. Патыка // Микробиол. журнал. – 2000. – Т. 55. – № 3. – С. 95–103.