

# **IMPACT OF USING NEW ORGANIC FERTILIZERS BMT-18 FOR GROWTH, DEVELOPMENT AND RESERVES OF NITRATE (NO<sub>3</sub>-) IN BRASSICA JUNCEA IN THE PHO YEN DISTRICT, THAI NGUYEN PROVINCE**

**Do Thi Lan, Hoang Quy Nhan, Pham Van Ngoc, Tran Minh Hai**

## **Summary**

Results of research on the effect of BMT18 fertilizer on the growth and development of Brassica juncea in summer-autumn season in Dong Cao commune, Pho Yen town, Thai Nguyen province, results showed that application of BMT18 with different derdose sizes for Brassica juncea affected the growth of leaf, in leaf height, leaf number, leaf length, leaf width and duration growth. Applying BMT18 for the Brassica juncea is 560 kg/ha and 690 kg/ha, for best results traits: tree height (22.04 cm- 22.26 cm), leaf number (10.1 leaves and 10.2 leaves), leaf length (18.73 cm and 18.79 cm), leaf width (9.95 cm and 10.36 cm), were higher than that of control formula. Brassica juncea uses with BMT18 fertilizer at 560 kg/ha and 690 kg/ha also had shorter growth times with control formula. The levels of BMT18 fertilizers applied to the Brassica juncea, all had a safe level of nitrate (<500 mg/kg-TC BYT). The application rate of 690 kg/ha, good quality, high yield and nitrate accumulation in the tree was lower than the limit of 500mg/kg fresh vegetables, the nitrate content was below the standard allowed at 295mg/kg fresh vegetable. At the same time, ensure nitrogen residues is the permitted level in the soil.