

FOREWORD

- J. Seifert: New approach to dynamic soil microbiology
- M. Dvořák, J. Černohorská: Plant and soil
- B. Novák: Ecological controlling factors of the biochemical Nitrogen immobilization
- M. Králová: Different bonds of NH_4^+ ions in the soil system
- J. Gloser, F. Vomočil: Heat exchange in a grassland with *Nardus stricta*
- J. Kubát, M. Králová: Transformations of mineral Nitrogen added to soil
- F. Kunc: Microorganisms and pesticides in soil (A survey)
- K. Kubista: Carbon dioxide concentration in soil air as affected by irrigation
- F. Löbl, K. Rustam, V. Puklová: Analysis of the effect of commercial composts of different quality upon the hydrophysical properties of soil under different soil and climatic conditions and their relation to the yields of cultivated crops
- A. Tyllová: The effect of soil drying on intensity of nitrification
- V. Macháček: Characteristics of the status and form of Phosphorus in soil
- F. Plhák: Some physiological relations between root and shoot in Alfalfa
- L. Bláha: Differences among cultivars in root system-relation to yield and accumulation of nutrients in wheat
- J. Haberle: Cereal root biomass distribution in the soil profile
- V. Novák, M. Votruba, E. Přibyllová, P. Svoboda: The effect of trophic conditions and plant integrity on dry matter distribution in Horse Bean (*Faba vulgaris* Moench.)
- J. Hužera, J. Mydlilová: Analysis of the yield-forming process and possibilities of its regulation in Sugar-Beet