

CONTENT:

VOŘÍŠEK K. <i>Introduction</i>	7
ABSTRACTS:	
BALÁSZ J., NÉMETH I., HOFFMANN S. <i>Effect of N fertilization on the yield of winter wheat and N leaching</i>	9
FEICHTINGER F., ERHART E., HARTL W. <i>Net N-mineralisation related to soil organic matter pools</i>	10
FILIP Z., KUBÁT J. <i>Mineralization and humification of plant matter in soil samples as a tool in soil quality testing</i>	12
JANOWIAK J., SMOLIŃSKI S., ŁUDZIŃSKA M., SPYCHAJ-FABISIAK E. <i>The effect of fertilization in a simplified crop rotation on the composition of organic matter fraction of a brown podzolic soil</i>	13
JAVŮREK M., VACH M., MIKANOVÁ O. <i>Response of soil microbial activity on different ways of organic matter use for field crop stand establishment</i>	14
KISMÁNYOKY T. <i>Soil Corg and N relations with the fertilization and manuring, crop rotation and soil cultivation in long-term field experiments</i>	16
KÖRSCHENS M. <i>Soil organic matter and environmental protection</i>	17
KUBÁT J., CERHANOVÁ D., NOVÁKOVÁ J., KLEMENT V., ČERMÁK P., DOSTÁL J. <i>Total organic C and its decomposable part in arable soils in the Czech Republic</i>	19
LARIONOVA A.A., ROZANOVA L.N., YEVDOKIMOV I.V., YERMOLAYEV A.M. <i>Carbon and Nitrogen Accumulation by Grassing of Arable Soil: Effect of Hay Cutting and Fertilization</i>	20
OVERESCH M., BROLL G., HÖPER H. <i>Soil organic matter and soil microbial properties on long term monitoring sites in Lower Saxony, Germany. Recommendations for compost application</i>	21
PANDEY T. D. , THAKUR D. S. <i>Response of Tillage Practices and Farm Yard Manure on Rice (Oryza Sativa L.) and Water Storage Capacity of Upland Inceptisols of Bastar Plateau in India</i>	22
ROGASIK J., SCHROETTER S., SCHNUG E., KURTINECZ P. <i>Long-term fertilizer experiments as a data base for calculating the carbon sink potential of arable soils</i>	24
ROMANENKOV V.A., SIROTENKO O.D., RODIONOVA V.N., KANZYVAA S.O., SMITH P., SMITH J.U., FRANKO U. <i>Modeling soil carbon sinks for different agricultural systems in soddy-podzolic soils of Russia</i>	26

RŮŽEK L., VOŘÍŠEK K., STRNADOVÁ S., NOVÁKOVÁ M., BARABASZ W. <i>Microbial characteristics, carbon and nitrogen content in cambisols and luvisols</i>	28
SHARMA R.A., RAGHU J.S. <i>Evaluation of sustainable nutrient management practices based on land degradation and rainfall effects on soybean yield, organic carbon and available n content in rainfed vertisols</i>	29
SCHEUNER E.T., MAKESCHIN F. <i>Impact of atmospheric nitrogen deposition on the dynamics of dissolved organic carbon (DOC) and dissolved organic nitrogen (DON): a column leaching study</i>	31
SCHULZ E. <i>Influence of site conditions and management on different SOM pool</i>	33
SOSULSKI T., MERCIK S., STĘPIEŃ W. <i>The dynamics of mineral nitrogen movement in the soil profile in long-term experiments</i>	35
STARCEVIĆ L., LATKOVIĆ D., MARINKOVIĆ B. <i>The mineral N content in the soil and its influence on the maize yield</i>	37
SZULC W., RUTKOWSKA B., LABĘTOWICZ J. <i>The influence of fertilization factors on accumulation of organic carbon in soil in long-term field experiment</i>	38
ARTICLES:	
BERECZ K., KISMÁNYOKY T., DEBRECZENI K. <i>Studying the effect of organic matter recycling combined with mineral N fertilisation in long-term field and model pot experiments</i>	41
BOROWSKA K., KOPER J., ZAUJEC A. <i>The influence of farming system on the total and available selenium content in soil</i>	50
BOSAK V., SMEYANOVICH A. <i>Einfluß der Dauerdüngung auf die Humusdynamik im Podzoluvisol (Influence of long-term application of fertilizers on the dynamics of humus in Podzoluvisol)</i>	56
CSATHÓ P., MAGYAR M., ÁRENDÁS T. <i>Evaluation of the data set of the Hungarian N-fertilization field trials with corn</i>	62
CSATHÓ P., MAGYAR M., ÁRENDÁS T. <i>Evaluation of the data set of the Hungarian N-fertilization field trials with winter wheat</i>	66
DOSTÁL J., KUBÁT J., KLÍR J. <i>Results of the long-term organic matter balance investigations in Ústí nad Orlicí district and the trends in the whole Czech Republic</i>	70
FILEP T.A., NAGY P. T.B., KINCSES I.B., KOVÁCS A. B.B <i>Changes in DOC and DON content of the soil in a pot experiment on an acidic Arenosol</i>	79
FLORIÁN M., PROVAZNÍK K., ČERMÁK P. <i>Mineral N Content in 14 long-term Experiments Conducted by Central Institute for Supervising and Testing in Agriculture Results of long-term field experiments of CISTA „Examination of Various Systems of Fertilization”</i>	85
FOTYMA M., CZYŻ E., DEXTER A., FOTYMA E., TERELAK H. <i>Gehalt und Bilanz der organischen Substanz in den Böden Polens und ihr Einfluss auf die Krümelbeständigkeit</i>	90

GEBEL M., KAISER M.	
<i>Quantifying of diffuse nitrogen inputs in surface waters by the model STOFFBILANZ under consideration of processes of turnover in soils</i>	100
GHEORGHITA N., GHEORGHITA S., SANDOIU D. I., ȘTEFANIC G.	
<i>Fundamental notions concerning the managing of carbon forms in soil by application of organical matter</i>	109
JANOWIAK J., SMOLIŃSKI S.	
<i>The effect of differentiated mineral and organic fertilization on the development degree of microorganisms and fertility of a brown podsollic soil</i>	119
KOPER J., SIWIK-ZIOMEK A., ZAUJEC A.	
<i>Total sulphur content and enzymatic activity OF A manured soil</i>	126
LABUDA S. Z.	
<i>Carbon, nitrogen, and sulfur ratios in soils and plants a indices of environmental status</i>	132
MARINKOVIC B., STARCEVIC L., CRNOBARAC J., JACIMOVIC G., JANKOVIC S., LATKOVIC D.	
<i>The Yield and Quality of Sugar Beet Root Depending on the Quantity and the Position of Easily Approachable N</i>	138
MIKANOVÁ O., NOVÁKOVÁ J., KUBÁT J.	
<i>Some enzymatic activities and microbial characteristics in a long-term field experiment</i>	144
POPELÁŘOVÁ E., VOŘÍŠEK K.	
<i>Evaluation of the soil mineralization activity after organic matter amendment</i>	149
RAGHU J. S., SIARMA R. A.	
<i>Influence of Integrated Fertility Management Practices on Productivity and fertility of Black Clay Soils of Central India</i>	154
RUTKOWSKA B., SZULC W., ŁABĘTOWICZ J.	
<i>The effect of the content of organic carbon in the soil on the chemical composition of the soil solution</i>	169
SMEYANOVICH A., BOSAK V.	
<i>Stickstoffhaushalt im Podzoluvisol in Abhängigkeit vom Düngungsniveau (Nitrogen status of Podzoluvisol depending on the nutrition level)</i>	176
SMOLIŃSKI S., JANOWIAK J.	
<i>The effect of mineral and organic-mineral fertilization on microbiological activity of brown podsollic soil</i>	180
SPYCHAJ-FABISIAK E., SMOLIŃSKI S., MURAWSKA B., JANOWIAK J.	
<i>The effect of differentiated nitrogen fertilization on the rate of microflora development and soil fertility</i>	186
SPYCHAJ-FABISIAK E., SMOLIŃSKI S., MURAWSKA B., ZAUJEC A.	
<i>The effect of fertilisation systems on the content of total nitrogen and carbon in soil</i>	193
ȘTEFĂNESCU M.	
<i>The influence of manure on certain soil fertilitz indices and wheat- maize yields</i>	199
ȘTEFANIC G., SANDOIU D.I., GHEORGHITA N.	
<i>Agro-phytotechnical solutions of carbon and nitrogen accumulation in soil and for satisfying mineral nutrition of plants in sustainable agriculture technologies</i>	206

SVOBODA M., PODRÁZSKÝ V. <i>Forest decline and pedobiological characteristics of humus forms in the Šumava National Park</i>	216
THAKUR D. S., PATEL R. S., PANDEY T. D. <i>Management of Inceptisols of Central India Through Inorganic and Organic Sources of Plant Nutrients Under Rice-Chick pea Cropping Sequence</i>	223
KURGANOVA I., TEEPE R., LOPES DE GERENYU V., LOFTFIELD N. <i>Gaseous carbon and nitrogen losses from agricultural soils induced by freeze-thaw processes</i>	233