## 

International Agrophysics

Polish Journal of Soil Science

Acta Agrophysica

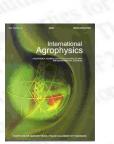
Instytut Agrofizyki

## International Agrophysics

General information

Issues

Search



www.international-agrophysics.org / issues

International Agrophysics publisher: Institute of Agrophysics Polish Academy of Sciences Lublin, Poland ISSN: 0236-8722

vol. 22, nr. 3 (2008)

## previous paper back to paper's list next paper Nitrates(V) in loess soils modified by weather conditions (preliminary data of a model experiment)

(get PDF 🛂

P. Gliński<sup>1</sup>, Z. Stępniewska<sup>2</sup>, U. Kotowska<sup>3</sup>, A. Borkowska<sup>3</sup>

<sup>1</sup> Institute of Environmental Protection Engineering, University of Technology, Lublin, Nadbystrzycka 40a, 20-618 Lublin, Poland

<sup>2</sup> Environmental Protection Institute, Catholic University of Lublin, Kraśnicka 102, 20-718 Lublin, Poland

<sup>3</sup> Institute of Agrophysics, Polish Academy of Sciences, Doświadczalna 4, 20-290 Lublin 27, Poland

vol. 21 (2007), nr. 1, pp. 55-59

abstract In a model experiment (anaerobiosis) with full saturation of soil samples with water and their incubation at 5, 10 and 20°C during 0-60 days, nitrates(V) concentration in soil solution, Eh and pH in soil sediment were determined. For the investigations 12 samples from loess soils representing surface-humus horizons were taken from various parts of 4 eroded slopes in a small river catchment near Lublin, Poland. Differentiation in nitrates concentrations in the range of 0-1.563 mg dm-3 was found, depending on the temperature and time of soil sample incubation, and also on the place of sampling along the catchment and on the slope.

keywords nitrates(V), Eh, pH, loess soils, anaerobic conditions

Instytut Agrofizyki PAN	e-mail: sekretariat@ipan.lublin.pl
ul. Do <b>ś</b> wiadczalna 4	tel.: +48817445061
20-290 Lublin	fax.: +48817445067