

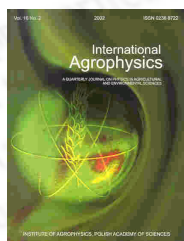
International Agrophysics
Polish Journal of Soil Science
Acta Agrophysica
Instytut Agrofizyki

International Agrophysics

General information

Issues

Search



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](#)

The effect of soil re-oxidation on wheat (*Triticum aestivum* L.) defense system

(get PDF )

Bennicelli R.¹, Stępniewska Z.¹, Balakhnina T.I.², Stępniewski W.³, Żuchowski J.¹

¹ Institute of Agrophysics, Polish Academy of Sciences, Doświadczalna 4, P.O. Box 201, 20-290 Lublin 27, Poland

² Institute of Soil Science and Photosynthesis, Russian Academy of Sciences, 142-292, Pushchino, Russia

³ Technical University of Lublin, Department of Environment Protection and Engineering, Nabystrzycka 40, 20-618 Lublin, Poland

vol. 13 (1999), nr. 3, pp. 309-314

abstract Responses of superoxide dismutase (SOD) activity, malonic di-aldehyde (MDA) level and pigments (chlorophyll, carotenoids) content were evaluated in roots and leaf tissues of wheat plants (Roma; CZR 1334) which were grown in soil (Eutric Cambisol) pre-exposed to anoxia by flooding, during return of oxic conditions in the root zone.

keywords soil aeration, oxygen stress, *Triticum aestivum* L., superoxide dismutase, malonic dialdehyde, pigments, redox potential, oxygen diffusion rate

Instytut Agrofizyki PAN
ul. Doświadczalna 4
20-290 Lublin

e-mail: sekretariat@ipan.lublin.pl
tel.: +48817445061
fax.: +48817445067