

# Soil Use and Management

## Agriculture, Phosphorus, Eutrophication

Volume 23 Supplement 1  
September 2007

### Contents

#### Preface

- 1 P. J. A. WITHERS & P. M. HAYGARTH  
Agriculture, phosphorus and eutrophication: A European perspective
- 5 B. ULÉN, M. BECHMANN, J. FÖLSTER, H. P. JARVIE & H. TUNNEY  
Agriculture as a phosphorus source for eutrophication in the north-west European countries, Norway, Sweden, United Kingdom and Ireland: a review
- 16 W. J. CHARDON & O. F. SCHOUMANS  
Soil texture effects on the transport of phosphorus from agricultural land in river deltas of Northern Belgium, The Netherlands and North-West Germany
- 25 J. TORRENT, E. BARBERIS & F. GIL-SOTRES  
Agriculture as a source of phosphorus for eutrophication in southern Europe
- 36 P. CSATHÓ, I. SISÁK, L. RADIMSZKY, S. LUSHAJ, H. SPIEGEL, M. T. NIKOLOVA, N. NIKOLOV, P. ČERMÁK, J. KLIR, A. ASTOVER, A. KARKLINS, S. LAZAUSKAS, J. KOPIŃSKI, C. HERA, E. DUMITRU, M. ČUVARDIĆ, D. BOGDANOVIĆ, S. TORMA, M. LESKOŠEK & S. KRISTENKO  
Agriculture as a source of phosphorus causing eutrophication in Central and Eastern Europe
- 57 P. J. A. WITHERS, R. A. HODGKINSON, E. BARBERIS, M. PRESTA, H. HARTIKAINEN, J. QUINTON, N. MILLER, I. SISAK, P. STRAUSS & A. MENTLER  
An environmental soil test to estimate the intrinsic risk of sediment and phosphorus mobilization from European soils
- 71 P. J. BUTLER & P. M. HAYGARTH  
Effects of tillage and reseeded on phosphorus transfers from grassland
- 82 J. UUSI-KÄMPPIÄ, L. JAUHAINEN & A. HUUSKONEN  
Phosphorus and nitrogen losses to surface waters from a forested feedlot for bulls in Finland
- 92 R. A. HODGKINSON & P. J. A. WITHERS  
Sourcing, transport and control of phosphorus loss in two English headwater catchments
- 104 B. KRONVANG, N. VAGSTAD, H. BEHRENDT, J. BØGESTRAND & S. E. LARSEN  
Phosphorus losses at the catchment scale within Europe: an overview
- 117 A. L. COLLINS, J. STRÖMQVIST, P. S. DAVISON & E. I. LORD  
Appraisal of phosphorus and sediment transfer in three pilot areas identified for the catchment sensitive farming initiative in England: application of the prototype PSYCHIC model
- 133 A. C. EDWARDS & P. J. A. WITHERS  
Linking phosphorus sources to impacts in different types of water body
- 144 P. STRAUSS, A. LEONE, M. N. RIPA, N. TURPIN, J.-M. LESCOT & R. LAPLANA  
Using critical source areas for targeting cost-effective best management practices to mitigate phosphorus and sediment transfer at the watershed scale
- 154 M. SCHÄRER, C. STAMM, T. VOLLMER, E. FROSSARD, A. OBERSON, H. FLÜHLER & S. SINAJ  
Reducing phosphorus losses from over-fertilized grassland soils proves difficult in the short term
- 165 P. N. OWENS, J. H. DUZANT, L. K. DEEKS, G. A. WOOD, R. P. C. MORGAN & A. J. COLLINS  
Evaluation of contrasting buffer features within an agricultural landscape for reducing sediment and sediment-associated phosphorus delivery to surface waters
- 176 P. J. JOHNES, R. FOY, D. BUTTERFIELD & P. M. HAYGARTH  
Land use scenarios for England and Wales: evaluation of management options to support 'good ecological status' in surface freshwaters
- 195 R. H. FOY  
Variation in the reactive phosphorus concentrations in rivers of northwest Europe with respect to their potential to cause eutrophication