

STRAW RESIDUE MANAGEMENT FOR AUTUMN-SOWN CEREALS GROWN ON A CLAY SOIL, 1979-1987

C2 - Non-edited contributions to conferences

Christian, D. G., Bacon, E. T. G., Jenkyn, J. F., Glen, D. M. and Gutteridge, R. J. 1988. Straw residue management for autumn-sown cereals grown on a clay soil, 1979-1987. *Tillage and traffic in crop production. 11th International Conference. International Soil Tillage Research Organization, Edinburgh, 1988. Edinburgh : Scottish Centre for Agricultural Engineering.* pp. 607-611

Authors Christian, D. G., Bacon, E. T. G., Jenkyn, J. F., Glen, D. M. and Gutteridge, R. J.

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RELATED OUTPUTS



Effects of break crops, and of wheat volunteers growing in break crops or in set-aside or conservation covers, all following crops of winter wheat, on the development of take-all (*Gaeumannomyces graminis* var. *tritici*) in succeeding crops of winter wheat

A - Papers appearing in refereed journals

Jenkyn, J. F., Gutteridge, R. J. and White, Robin P. 2014. *Effects of break crops, and of wheat volunteers growing in break crops or in set-aside or conservation covers, all following crops of winter wheat, on the development of take-all (*Gaeumannomyces graminis* var. *tritici*) in succeeding crops of winter wheat. Annals of Applied Biology - AAB. 165 (3), pp. 340-363. <https://doi.org/10.1111/aab.12139>*



Identifying variation in resistance to the take-all fungus, *Gaeumannomyces graminis* var. *tritici*, between different ancestral and modern wheat species

A - Papers appearing in refereed journals

Mcmillan, V. E., Gutteridge, R. J. and Hammond-Kosack, K. E. 2014. *Identifying variation in resistance to the take-all fungus, *Gaeumannomyces graminis* var. *tritici*, between different ancestral and modern wheat species. BMC Plant Biology. 14, p. 212. <https://doi.org/10.1186/s12870-014-0212-8>*

Confidential report to Syngenta, January 2012

D1 - Technical reports: non-confidential

Mcmillan, V. E., Hammond-Kosack, K. E. and Gutteridge, R. J. 2012. *Confidential report to Syngenta, January 2012.*

Effects of take-all (*Gaeumannomyces graminis* var. *tritici*) on crop N uptake and residual mineral N in soil at harvest of winter wheat

A - Papers appearing in refereed journals

Macdonald, A. J. and Gutteridge, R. J. 2012. Effects of take-all (*Gaeumannomyces graminis* var. *tritici*) on crop N uptake and residual mineral N in soil at harvest of winter wheat. *Plant and Soil*. 350, pp. 253-260. <https://doi.org/10.1007/s11104-011-0900-1>



A new approach to reduce the risk of Take-all disease

G - Articles in popular magazines and other technical publications

McMillan, V. E., Hammond-Kosack, K. E., Kanyuka, K. and Gutteridge, R. J. 2011. A new approach to reduce the risk of Take-all disease. *RRA Newsletter*. April, pp. 1-2.



Evidence that wheat cultivars differ in their ability to build up inoculum of the take-all fungus, *Gaeumannomyces graminis* var. *tritici*, under a first wheat crop

A - Papers appearing in refereed journals

McMillan, V. E., Hammond-Kosack, K. E. and Gutteridge, R. J. 2011. Evidence that wheat cultivars differ in their ability to build up inoculum of the take-all fungus, *Gaeumannomyces graminis* var. *tritici*, under a first wheat crop. *Plant Pathology*. 60 (2), pp. 200-206. <https://doi.org/10.1111/j.1365-3059.2010.02375.x>

Confidential report to Syngenta

D2 - Technical reports: confidential

Gutteridge, R. J. 2011. Confidential report to Syngenta.



Preparations for war; a postscript to Harold Gough's reminiscences of Rothamsted

G - Articles in popular magazines and other technical publications

Jenkyn, J. F. 2010. Preparations for war; a postscript to Harold Gough's reminiscences of Rothamsted. *AAB News*. 71 (Autumn/Winter), p. 5.

Nitrogen requirements of biomass crops

C1 - Edited contributions to conferences/learned societies

Riche, A. B., Goulding, K. W. T., Yates, N. E., Shield, I. F. and Christian, D. G. 2010. Nitrogen requirements of biomass crops. *Water and Nitrogen Use Efficiency in Plants and Crops. Aspects of Applied Biology 105 Association of Applied Biologists (AAB) Wellesbourne Warwick*. pp. 83-88

Effects of crop debris and cultivations on the development of eyespot of wheat caused by *Oculimacula* spp.

A - Papers appearing in refereed journals

Jenkyn, J. F., Gutteridge, R. J., Bateman, G. L. and Jalaluddin, M. 2010. Effects of crop debris and cultivations on the development of eyespot of wheat caused by *Oculimacula* spp. *Annals of Applied Biology - AAB*. 156 (3), pp. 387-399. <https://doi.org/10.1111/j.1744-7348.2010.00396.x>

Confidential report to Bayer CropScience: spring-applied fungicides and take-all: field trial 2008/09

D1 - Technical reports: non-confidential

Gutteridge, R. J. 2009. Confidential report to Bayer CropScience: spring-applied fungicides and take-all: field trial 2008/09.

Confidential report to Syngenta: spring-applied fungicides and take-all field trial 2008/09

D1 - Technical reports: non-confidential

Gutteridge, R. J. 2009. Confidential report to Syngenta: spring-applied fungicides and take-all field trial 2008/09.

Estimation of ramet production from *Miscanthus x giganteus* rhizome of different ages

A - Papers appearing in refereed journals

Christian, D. G., Yates, N. E. and Riche, A. B. 2009. Estimation of ramet production from *Miscanthus x giganteus* rhizome of different ages. *Industrial Crops and Products*. 30, pp. 176-178. <https://doi.org/10.1016/j.indcrop.2009.02.007>

Performance of 15 different *Miscanthus* species and genotypes over 11 years

C1 - Edited contributions to conferences/learned societies

Riche, A. B., Yates, N. E. and Christian, D. G. 2008. Performance of 15 different *Miscanthus* species and genotypes over 11 years. *Biomass and Energy Crops III. Aspects of Applied Biology 90*. Association of Applied Biologists (AAB) Wellesbourne Warwick . pp. 207-212

Triticum monococcum, an ancient relative of wheat, is a rich source of resistance to septoria tritici blotch disease

G - Articles in popular magazines and other technical publications

Jing, H-C., Gutteridge, R. J. and Hammond-Kosack, K. E. 2008. *Triticum monococcum*, an ancient relative of wheat, is a rich source of resistance to septoria tritici blotch disease. *RRA Newsletter*. 27, pp. 3-4.



Phenotypic and genetic analysis of the *Triticum monococcum*-*Mycosphaerella graminicola* interaction

A - Papers appearing in refereed journals

Jing, H-C., Lovell, D. J., Gutteridge, R. J., Jenk, D., Korniyukhin, D., Mitrofanova, O., Kema, G. H. J. and Hammond-Kosack, K. E. 2008. Phenotypic and genetic analysis of the *Triticum monococcum*-*Mycosphaerella graminicola* interaction. *New Phytologist*. 179, pp. 1121-1132. <https://doi.org/10.1111/j.1469-8137.2008.02526.x>



Take-all and the Wheat Genetic Improvement Network (WGIN)

G - Articles in popular magazines and other technical publications

Gutteridge, R. J. and Hammond-Kosack, K. E. 2008. Take-all and the Wheat Genetic Improvement Network (WGIN). *RRA Newsletter*. 27, pp. 1-2.



Assessment of the A.E. Watkins wheat collection in 2008 for resistance to foliar, stem base and root diseases. Objectives 2 and 5

G - Articles in popular magazines and other technical publications

Gutteridge, R. J. and Hammond-Kosack, K. E. 2008. Assessment of the A.E. Watkins wheat collection in 2008 for resistance to foliar, stem base and root diseases. Objectives 2 and 5. *WGIN Stakeholders' Newsletter*. October, pp. 1-4.

Growth, yield and mineral content of *Miscanthus x giganteus* grown as a biofuel for 14 successive harvests

A - Papers appearing in refereed journals

Christian, D. G., Riche, A. B. and Yates, N. E. 2008. Growth, yield and mineral content of *Miscanthus x giganteus* grown as a biofuel for 14 successive harvests. *Industrial Crops and Products*. 28, pp. 320-327. <https://doi.org/10.1016/j.indcrop.2008.02.009>

A - Papers appearing in refereed journals

Freeman, J., Ward, E., Gutteridge, R. J. and Bateman, G. L. 2005. Methods for studying population structure, including sensitivity to the fungicide silthiofam, of the cereal take-all fungus, *Gaeumannomyces graminis* var. *tritici*. *Plant Pathology*. 54 (5), pp. 686-698. <https://doi.org/10.1111/j.1365-3059.2005.01252.x>

Fungal-plant interactions that influence the suppression of take-all disease in wheat-field soil

C2 - Non-edited contributions to conferences

Gutteridge, R. J. and Bateman, G. L. 2005. Fungal-plant interactions that influence the suppression of take-all disease in wheat-field soil. Abstracts Association of Independent Crop Consultants' Meeting, Harpenden, 20 September 2005 .

Survival and multiplication of *Gaeumannomyces graminis* var. *tritici* (the wheat take-all fungus) and related fungi on different wild and cultivated grasses

A - Papers appearing in refereed journals

Gutteridge, R. J., Zhang, J-P., Jenkyn, J. F. and Bateman, G. L. 2005. Survival and multiplication of *Gaeumannomyces graminis* var. *tritici* (the wheat take-all fungus) and related fungi on different wild and cultivated grasses. *Applied Soil Ecology*. 29, pp. 143-154.

Pot experiments to test seed treatment fungicides against take-all disease of wheat. Confidential report to Syngenta

D1 - Technical reports: non-confidential

Bateman, G. L. and Gutteridge, R. J. 2005. Pot experiments to test seed treatment fungicides against take-all disease of wheat. Confidential report to Syngenta.

Development of *Oculimacula yallundae* and *O. acuformis* (eyespot) on leaf sheaths of winter wheat in the UK in relation to thermal time

A - Papers appearing in refereed journals

Wan, A. M., Bock, C. H., Fitt, B. D. L., Harvey, J. L. and Jenkyn, J. F. 2005. Development of *Oculimacula yallundae* and *O. acuformis* (eyespot) on leaf sheaths of winter wheat in the UK in relation to thermal time. *Plant Pathology*. 54 (2), pp. 144-155. <https://doi.org/10.1111/j.1365-3059.2005.01165.x>

Wheat rhizosphere interactions and natural suppression of take-all disease: effects of grass weeds and wheat cultivar on inoculum and disease

C1 - Edited contributions to conferences/learned societies

Bateman, G. L., Gutteridge, R. J. and Jenkyn, J. F. 2005. Wheat rhizosphere interactions and natural suppression of take-all disease: effects of grass weeds and wheat cultivar on inoculum and disease. *Roots and the Soil Environment II. Aspects of Applied Biology* 73 . pp. 155-162

Establishing *Miscanthus sinensis* from seed using conventional sowing methods

A - Papers appearing in refereed journals

Christian, D. G., Yates, N. E. and Riche, A. B. 2005. Establishing *Miscanthus sinensis* from seed using conventional sowing methods. *Industrial Crops and Products*. 21, pp. 109-111. <https://doi.org/10.1016/j.indcrop.2004.01.004>

Take-all and grain yields in sequences of winter wheat crops testing fluquinconazole seed treatment applied in different combinations of years

A - Papers appearing in refereed journals

Bateman, G. L., Gutteridge, R. J. and Jenkyn, J. F. 2004. Take-all and grain yields in sequences of winter wheat crops testing fluquinconazole seed treatment applied in different combinations of years. *Annals of Applied Biology - AAB*. 145 (3), pp. 317-330. <https://doi.org/10.1111/j.1744-7348.2004.tb00389.x>

The hydrological impacts of energy crop production in the UK. (Report by the Centre for Ecology and Hydrology for the Department of Trade and Industry B/CR/000783/00/00)

D1 - Technical reports: non-confidential

Finch, J. W., Hall, R. L., Rosier, P. T. W., Clark, D. B., Stratford, C., Davies, H. N., Marsh, T. J., Roberts, J. M., Riche, A. B. and Christian, D. G. 2004. The hydrological impacts of energy crop production in the UK. (Report by the Centre for Ecology and Hydrology for the Department of Trade and Industry B/CR/000783/00/00).

Effects of cultivation method and crop debris on wheat stem-base diseases and take-all

C1 - Edited contributions to conferences/learned societies

Jenkyn, J. F., Gutteridge, R. J. and Bateman, G. L. 2004. Effects of cultivation method and crop debris on wheat stem-base diseases and take-all. *Proceedings HGCA Conference on Managing Soil and Roots for Profitable Production, Oxford, 10-11 March 2004* . Home Grown Cereals Authority (HGCA) London. pp. 15.1-15.11

Interactions between cropping systems and soil-borne cereal pathogens (Final project report for DEFRA project CE0525)

D1 - Technical reports: non-confidential

Jenkyn, J. F. 2003. *Interactions between cropping systems and soil-borne cereal pathogens (Final project report for DEFRA project CE0525)*.

Effects of sowing date and volunteers on the infectivity of soil infested with *Gaeumannomyces graminis* var. *tritici* and on take-all disease in successive crops of winter wheat

A - Papers appearing in refereed journals

Gutteridge, R. J. and Hornby, D. 2003. *Effects of sowing date and volunteers on the infectivity of soil infested with *Gaeumannomyces graminis* var. *tritici* and on take-all disease in successive crops of winter wheat. Annals of Applied Biology - AAB. 143 (3), pp. 275-282. <https://doi.org/10.1111/j.1744-7348.2003.tb00295.x>*

Optimising the benefits of fluquinconazole seed treatment in sequences of winter wheat crops

C1 - Edited contributions to conferences/learned societies

Bateman, G. L., Jenkyn, J. F. and Gutteridge, R. J. 2003. *Optimising the benefits of fluquinconazole seed treatment in sequences of winter wheat crops. Proceedings BCPC International Congress - Crop Science and Technology, Glasgow, 10-12 November 2003 . pp. 979-984*



Environment and harvest time affects the combustion qualities of *Miscanthus* genotypes

A - Papers appearing in refereed journals

Lewandowski, I., Clifton-Brown, J. C., Andersson, B., Basch, G., Christian, D. G., Jorgensen, U., Jones, M. B., Riche, A. B., Schwarz, K. U., Tayebi, K. and Teixeira, F. 2003. *Environment and harvest time affects the combustion qualities of *Miscanthus* genotypes. Agronomy Journal. 95, pp. 1274-1280.*

Strategies for fungicidal control of take-all. (H-GCA Project Report No. 309)

D1 - Technical reports: non-confidential

Bateman, G. L., Freeman, J., Gutteridge, R. J., Jenkyn, J. F. and Ward, E. 2003. *Strategies for fungicidal control of take-all. (H-GCA Project Report No. 309). Home Grown Cereals Authority (HGCA) London.*

Development of eyespot on winter wheat in the UK II: infection and lesion development on stems in relation to thermal time

C2 - Non-edited contributions to conferences

Bock, C. H., Wan, A., Fitt, B. D. L., Jenkyn, J. F., Harvey, J. L. and Goulds, A. 2003. *Development of eyespot on winter wheat in the UK II: infection and lesion development on stems in relation to thermal time.*

Development of eyespot on winter wheat in the UK I: penetration and infection of leaf sheaths in relation to thermal time

C2 - Non-edited contributions to conferences

Wan, A., Bock, C. H., Fitt, B. D. L., Jenkyn, J. F., Harvey, J. L. and Goulds, A. 2003. *Development of eyespot on winter wheat in the UK I: penetration and infection of leaf sheaths in relation to thermal time.*

Variation in the effects of take-all disease on grain yield and quality of winter cereals in field experiments

A - Papers appearing in refereed journals

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Interactions between cropping systems and soil-borne cereal pathogens (Project CE0525)(Scientific report for DEFRA Review of Cereal and Oilseed Disease Epidemiology)

D1 - Technical reports: non-confidential

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Interactions between cropping systems and soil-borne cereal pathogens (Annual/interim report for DEFRA project CE0525 2001-2002)

D1 - Technical reports: non-confidential

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Effects of azoxystrobin on wheat take-all (H-GCA Project Report 285)

D1 - Technical reports: non-confidential

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Some problems in the design and analysis of field experiments subject to interplot interference

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Dyke, G. V., Todd, A. D. and Jenkyn, J. F. 2002. *Some problems in the design and analysis of field experiments subject to interplot interference*. *The Journal of Agricultural Science*. 139 (3), pp. 295-305. <https://doi.org/10.1017/S0021859602002630>

Phosphate losses through field drains in a heavy cultivated soil

C2 - Non-edited contributions to conferences

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The yield and composition of switchgrass and coastal panic grass grown as a biofuel in Southern England

A - Papers appearing in refereed journals

Christian, D. G., Riche, A. B. and Yates, N. E. 2002. *The yield and composition of switchgrass and coastal panic grass grown as a biofuel in Southern England*. *Bioresource Technology*. 83, pp. 115-124.

Changes in populations of the eyespot fungi *Tapesia yellundae* and *T. acuformis* under different fungicide regimes in successive crops of winter wheat, 1984-2000

A - Papers appearing in refereed journals

Bierman, S. M., Fitt, B. D. L., Van Den Bosch, F., Bateman, G. L., Jenkyn, J. F. and Welham, S. J. 2002. *Changes in populations of the eyespot fungi *Tapesia yellundae* and *T. acuformis* under different fungicide regimes in successive crops of winter wheat, 1984-2000*. *Plant Pathology*. 51 (2), pp. 191-201. <https://doi.org/10.1046/j.1365-3059.2002.00673.x>

Laboratory and field testing of fungicides for control of ergot in wheat and rye (HGCA Project Report No. 254)

D1 - Technical reports: non-confidential

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The effect of delayed harvest on the yield and nutrient composition of reed canary grass (*Phalaris arundinacea*)

C1 - Edited contributions to conferences/learned societies

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Interactions between cropping systems and soil-borne cereal pathogens (Annual/interim report for MAFF project CE0525 2000-2001)

D1 - Technical reports: non-confidential

Jenkyn, J. F. 2001. *Interactions between cropping systems and soil-borne cereal pathogens (Annual/interim report for MAFF project CE0525 2000-2001)*.

Harvest time and quality of different *Miscanthus* genotypes grown at five sites between Sweden and Portugal

C1 - Edited contributions to conferences/learned societies

Lewandowski, I., Clifton-Brown, J., Jorgensen, U., Schwarz, K. U., Bonderup-Kjeldsen, J., Christian, D. G., Riche, A. B., Tayebi, K., Basch, G., Teixeira, F. and Andersson, B. 2001. *Harvest time and quality of different *Miscanthus* genotypes grown at five sites between Sweden and Portugal*. *Proceedings 1st World Conference on Biomass for Energy and Industry, Seville, 5-9 June 2000* . London, James & James. pp. 286-289

Switchgrass variety choice in Europe

C1 - Edited contributions to conferences/learned societies

Elbersen, H. W., Christian, D. G., Bacher, W., Alexopoulou, E., Pignatelli, V. and Van Den Berg, D. 2001. *Switchgrass variety choice in Europe*. *Proceedings 1st World Conference on Biomass for Energy and Industry, Seville, 5-9 June 2000* .London, James & James. pp. 202-205

Crop development and yield of different *Miscanthus* genotypes grown at five sites distributed between

Sweden and Portugal

C1 - Edited contributions to conferences/learned societies

Clifton-Brown, J. C., Lewandowski, I., Jorgensen, U., Christian, D. G., Riche, A. B., Tayebi, K., Basch, G., Schwarz, K. U., Bonderup-Kjeldsen, J. and Andersson, B. 2001. Crop development and yield of different Miscanthus genotypes grown at five sites distributed between Sweden and Portugal. Proceedings 1st World Conference on Biomass for Energy and Industry, Seville, 5-9 June 2000 . London, James & James. pp. 210-213

Performance of 15 Miscanthus genotypes at five sites in Europe

A - Papers appearing in refereed journals

Clifton-Brown, J. C., Lewandowski, I., Andersson, B., Basch, G., Christian, D. G., Kjeldsen, J. B., Jorgensen, U., Mortensen, J. V., Riche, A. B., Schwarz, K-U., Tayebi, K. and Teixeira, F. 2001. Performance of 15 Miscanthus genotypes at five sites in Europe. Agronomy Journal. 93, pp. 1013-1019.

First report of Rhizoctonia cerealis causing sharp eyespot in Panicum virgatum in the UK

A - Papers appearing in refereed journals

Etheridge, J. V., Davey, L. and Christian, D. G. 2001. First report of Rhizoctonia cerealis causing sharp eyespot in Panicum virgatum in the UK. Plant Pathology. 50 (6), p. 807. <https://doi.org/10.1046/j.1365-3059.2001.00630.x>

The yield, composition and production costs for seven varieties of switch grass and one panic grass grown as a biofuel

C1 - Edited contributions to conferences/learned societies

Christian, D. G., Riche, A. B. and Yates, N. E. 2001. The yield, composition and production costs for seven varieties of switch grass and one panic grass grown as a biofuel. Biomass and Energy Crops II. Aspects of Applied Biology 65 .pp. 199-204

Estimates of rhizome weight of Miscanthus with time and rooting depth compared to switchgrass

C1 - Edited contributions to conferences/learned societies

Riche, A. B. and Christian, D. G. 2001. Estimates of rhizome weight of Miscanthus with time and rooting depth compared to switchgrass. Biomass and Energy Crops II. Aspects of Applied Biology 65 .pp. 147-152

Rainfall interception by mature Miscanthus grass in SE England

C1 - Edited contributions to conferences/learned societies

Riche, A. B. and Christian, D. G. 2001. Rainfall interception by mature Miscanthus grass in SE England Biomass and Energy Crops II. Aspects of Applied Biology 65 . pp. 143-146

Biofuel crops: their potential contribution to decreased fossil carbon emissions and additional environmental benefits

C1 - Edited contributions to conferences/learned societies

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Perennial rhizomatous grasses overview (EU internal, non-confidential report)

D1 - Technical reports: non-confidential

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Renewable energy and sustainable agriculture. Draft report of a workshop on perennial energy grasses. Brussels, Friday 20th October 2000. (EU internal, non-confidential report)

D1 - Technical reports: non-confidential

Christian, D. G. 2001. Renewable energy and sustainable agriculture. Draft report of a workshop on perennial energy grasses. Brussels, Friday 20th October 2000. (EU internal, non-confidential report).

Biology and control of stem-base diseases of cereals in the UK

A - Papers appearing in refereed journals

Bateman, G. L. and Jenkyn, J. F. 2001. Biology and control of stem-base diseases of cereals in the UK Pesticide Outlook. 12, pp. 103-106.

First report of Rhizoctonia cerealis causing sharp eyespot in Panicum virgatum in the UK

A - Papers appearing in refereed journals

Etheridge, J. V., Davey, L. and Christian, D. G. 2001. First report of Rhizoctonia cerealis causing sharp eyespot in Panicum virgatum in the UK. New Disease Reports. 3, p. 17.

Effects of fluquinconazole seed treatment on take-all and yield of winter wheat, and its exploitation in cropping systems

C1 - Edited contributions to conferences/learned societies

Jenkyn, J. F., Gutteridge, R. J. and Bateman, G. L. 2001. *Effects of fluquinconazole seed treatment on take-all and yield of winter wheat, and its exploitation in cropping systems. Seed Treatment: Challenges and Opportunities. British Crop Protection Council Symposium Proceedings No. 76 . British Crop Protection Council (BCPC). pp. 91-98*

Evaluating grasses as a long-term energy resource. ETSU B/CR/00651/REP; DTI/Pub URN 01/780

D1 - Technical reports: non-confidential

Christian, D. G. and Riche, A. B. 2001. *Evaluating grasses as a long-term energy resource. ETSU B/CR/00651/REP; DTI/Pub URN 01/780.*

Changes in soil mineral nitrogen during and after 3-year and 5-year set-aside and nitrate leaching losses after ploughing out the 5-year plant covers in the UK

A - Papers appearing in refereed journals

Chalmers, A. G., Bacon, E. T. G. and Clarke, J. H. 2001. *Changes in soil mineral nitrogen during and after 3-year and 5-year set-aside and nitrate leaching losses after ploughing out the 5-year plant covers in the UK. Plant and Soil. 228, pp. 157-177.*

Effects of incorporating different amounts of straw on growth, diseases and yield of consecutive crops of winter wheat grown on contrasting soil types

A - Papers appearing in refereed journals

Jenkyn, J. F., Christian, D. G., Bacon, E. T. G., Gutteridge, R. J. and Todd, A. D. 2001. *Effects of incorporating different amounts of straw on growth, diseases and yield of consecutive crops of winter wheat grown on contrasting soil types. The Journal of Agricultural Science. 136, pp. 1-14.*

Switch-on to grass

C1 - Edited contributions to conferences/learned societies

Christian, D. G. 2000. *Switch-on to grass. British Association for the Advancement of Science Conference Shaping the Future Together, September 2000 .*

The effect of three or five years of set-aside on the husbandry and grain yield of subsequent cereal crops in the UK

A - Papers appearing in refereed journals

Smith, J. M., Cook, S. K., Mills, A. R., Bacon, E. T. G. and Clarke, J. H. 2000. *The effect of three or five years of set-aside on the husbandry and grain yield of subsequent cereal crops in the UK. Plant and Soil. 225, pp. 279-297.*

Effects of foliar sprays of azoxystrobin on take-all in wheat

A - Papers appearing in refereed journals

Jenkyn, J. F., Bateman, G. L., Gutteridge, R. J. and Edwards, S. G. 2000. *Effects of foliar sprays of azoxystrobin on take-all in wheat. Annals of Applied Biology - AAB. 137 (2), pp. 99-106. <https://doi.org/10.1111/j.1744-7348.2000.tb00041.x>*

Fungicides for the control of ergot in cereal crops

C1 - Edited contributions to conferences/learned societies

Evans, V. J., Jenkyn, J. F., Gladders, P. and Mantle, P. G. 2000. *Fungicides for the control of ergot in cereal crops. Proceedings Brighton Crop Protection Conference - Pests and Diseases, 2000 .pp. 511-514*

Controlling take-all in sequences of winter cereal crops using fluquinconazole seed treatment

C1 - Edited contributions to conferences/learned societies

Bateman, G. L., Jenkyn, J. F., Dawson, W. A. J. M. and Gutteridge, R. J. 2000. *Controlling take-all in sequences of winter cereal crops using fluquinconazole seed treatment. Proceedings Brighton Crop Protection Conference - Pests and Diseases, 2000 . pp. 829-834*

Towards better understanding and management of cereal stem-base diseases

C1 - Edited contributions to conferences/learned societies

Bateman, G. L. and Jenkyn, J. F. 2000. *Towards better understanding and management of cereal stem-base diseases. Proceedings Brighton Crop Protection Conference - Pests and Diseases, 2000 .pp. 119-126*

Phosphate losses through field drains in a heavy cultivated soil

C2 - Non-edited contributions to conferences

Addiscott, T. M., Brockie, D., Catt, J. A., Christian, D. G., Harris, G. L., Howse, K. R., Mirza, N. A. and Pepper, T. J. 2000. *Phosphate losses through field drains in a heavy cultivated soil. Abstracts British Society of Soil Science Conference Eurosoil 2000, Reading, 4-6 September 2000 .*

Evaluating grasses for their potential as biomass energy crops

G - Articles in popular magazines and other technical publications

Christian, D. G. 2000. *Evaluating grasses for their potential as biomass energy crops. ARIA newsletter. 2000, pp. 18-23.*

Assessment of tillage strategies to decrease nitrate leaching in the Brimstone Farm Experiment, Oxfordshire, UK

A - Papers appearing in refereed journals

Catt, J. A., Howse, K. R., Christian, D. G., Lane, P. W., Harris, G. L. and Goss, M. J. 2000. Assessment of tillage strategies to decrease nitrate leaching in the Brimstone Farm Experiment, Oxfordshire, UK. *Soil & Tillage Research*. 53 (3-4), pp. 185-200. [https://doi.org/10.1016/S0167-1987\(99\)00105-1](https://doi.org/10.1016/S0167-1987(99)00105-1)

Phosphate losses through field drains in a heavy cultivated soil

A - Papers appearing in refereed journals

Addiscott, T. M., Brockie, D., Catt, J. A., Christian, D. G., Harris, G. L., Howse, K. R., Mirza, N. A. and Pepper, T. J. 2000. Phosphate losses through field drains in a heavy cultivated soil. *Journal of Environmental Quality*. 29 (2), pp. 522-532. <https://doi.org/10.2134/jeq2000.00472425002900020021x>

Evaluation of some herbaceous grasses as biomass crops in southern England

C1 - Edited contributions to conferences/learned societies

Christian, D. G., Riche, A. B. and Yates, N. E. 1999. Evaluation of some herbaceous grasses as biomass crops in southern England. Kontturi, M., Pithan, K., Topi-Hulmi, M., Sankari, H., Sahramaa, M., Partala, A., Pahkala, K., Christiansen, J. and Mela, T. (ed.) *Proceedings Alternative Crops for Sustainable Agriculture: Research Progress COST 814, Turku, Finland, 13-15 June 1999*. European Commission, Luxembourg. pp. 58-69

Switchgrass (*Panicum virgatum* L.) varieties in Europe

C1 - Edited contributions to conferences/learned societies

Elbersen, H. W., De Klerk-Engels, B. and Christian, D. G. 1999. Switchgrass (*Panicum virgatum* L.) varieties in Europe. *Proceedings Conference on Energy and Agriculture towards the Third Millennium, Athens, June 1999*. pp. 92-98

Monitoring the growth and yield of crops grown as biofuels (ETSU B/W2/00548/11/REP)

D1 - Technical reports: non-confidential

Christian, D. G., Riche, A. B. and Yates, N. E. 1999. Monitoring the growth and yield of crops grown as biofuels (ETSU B/W2/00548/11/REP). DTI, London.

'Observations of Weather' The Weather Diary of Sir John Wittewronge of Rothamsted 1684-89 (Hertfordshire Records Publications, Vol. 15)

G - Articles in popular magazines and other technical publications

Williams, M. H., Stevenson, J. H., Jenkyn, J. F., Prew, R. D. and Roach, W. 1999. 'Observations of Weather' The Weather Diary of Sir John Wittewronge of Rothamsted 1684-89 (Hertfordshire Records Publications, Vol. 15).

Establishing fuel specifications of non-wood biomass crops (ETSU B/U1/00612/REP)

D1 - Technical reports: non-confidential

Christian, D. G. and Riche, A. B. 1999. Establishing fuel specifications of non-wood biomass crops (ETSU B/U1/00612/REP). DTI, London.

Interactions of straw disposal methods and direct drilling or cultivations on winter wheat (*Triticum aestivum*) grown on a clay soil

A - Papers appearing in refereed journals

Christian, D. G., Bacon, E. T. G., Brockie, D., Glen, D., Gutteridge, R. J. and Jenkyn, J. F. 1999. Interactions of straw disposal methods and direct drilling or cultivations on winter wheat (*Triticum aestivum*) grown on a clay soil. *Journal of Agricultural Engineering Research*. 73 (3), pp. 297-309. <https://doi.org/10.1006/jaer.1999.0423>

Nitrate leaching: modifying the loss from mineralized organic matter

A - Papers appearing in refereed journals

Goss, M. J., Howse, K. R., Christian, D. G., Catt, J. A. and Pepper, T. J. 1998. Nitrate leaching: modifying the loss from mineralized organic matter. *European Journal of Soil Science*. 49 (4), pp. 649-659. <https://doi.org/10.1046/j.1365-2389.1998.4940649.x>

Seed treatment trials 1998 (Confidential report to AgrEvo)

D1 - Technical reports: non-confidential

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Take-all disease of cereals. A regional perspective

E - Books edited/written by staff member, alone/with others

Hornby, D., Bateman, G. L., Gutteridge, R. J., Lucas, P., Osbourn, A. E., Ward, E. and Yarham, D. J. 1998. Take-all disease of cereals. A regional perspective. CABI International, Wallingford, Oxon (CABI).

Exploit that break

G - Articles in popular magazines and other technical publications

Gutteridge, R. J. and Jenkyn, J. F. 1998. *Exploit that break*. *Crops*. 16(11), p. 64.

Growing switchgrass for energy and fibre in Europe

C2 - Non-edited contributions to conferences

Elbersen, H. W., Christian, D. G., El Bassam, N. E. and De Klerk-Engels, B. 1998. *Growing switchgrass for energy and fibre in Europe*.

A comparison of management regimes for one-year rotational set-aside within a sequence of winter wheat crops, and of growing wheat without interruption. 1. Effects on soil mineral nitrogen, grain yield and quality

A - Papers appearing in refereed journals

Bacon, E. T. G., Hewitt, M. V. and Shepherd, C. E. 1998. *A comparison of management regimes for one-year rotational set-aside within a sequence of winter wheat crops, and of growing wheat without interruption. 1. Effects on soil mineral nitrogen, grain yield and quality*. *The Journal of Agricultural Science*. 130, pp. 377-388.

A comparison of management regimes for one-year rotational set-aside within a sequence of winter wheat crops, and of growing wheat without interruption. 2. Effects on vegetation and weed control

A - Papers appearing in refereed journals

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Obituary: 1921-97: John Malcolm ('Jim') Hirst, FRS

G - Articles in popular magazines and other technical publications

Plumb, R. T. and Jenkyn, J. F. 1998. *Obituary: 1921-97: John Malcolm ('Jim') Hirst, FRS*. *Plant Pathology*. 47, p. 543.

Nutrient requirement and cycling in energy crops

C1 - Edited contributions to conferences/learned societies

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Nitrate leaching losses under Miscanthus grass planted on a silty clay loam soil

A - Papers appearing in refereed journals

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A comparison of management regimes for one-year rotational set-aside within a sequence of winter wheat crops, and of growing wheat without interruption. 3. Effects on diseases

A - Papers appearing in refereed journals

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Strategies to decrease nitrate leaching in the Brimstone Farm Experiment, Oxfordshire, UK, 1988-1993: the effect of winter cover crops and unfertilised grass leys

A - Papers appearing in refereed journals

Catt, J. A., Howse, K. R., Christian, D. G., Lane, P. W., Harris, G. L. and Goss, M. J. 1998. *Strategies to decrease nitrate leaching in the Brimstone Farm Experiment, Oxfordshire, UK, 1988-1993: the effect of winter cover crops and unfertilised grass leys*. *Plant and Soil*. 203 (1), pp. 57-69. <https://doi.org/10.1023/A:1004389426718>

Strategies to decrease nitrate leaching in the Brimstone Farm Experiment, Oxfordshire, UK, 1988-93: the effect of straw incorporation

A - Papers appearing in refereed journals

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Switchgrass (*Panicum virgatum* L.)

D1 - Technical reports: non-confidential

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D1 - Technical reports: non-confidential

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Effects of method of straw disposal and depth of cultivation on populations of *Fusarium* spp. in soil and on brown foot rot in continuous winter wheat

A - Papers appearing in refereed journals

Bateman, G. L., Murray, G., Gutteridge, R. J. and Coskun, H. 1998. *Effects of method of straw disposal and depth of cultivation on populations of *Fusarium* spp. in soil and on brown foot rot in continuous winter wheat*. *Annals of Applied Biology* - AAB. 132 (1), pp. 35-47. <https://doi.org/10.1111/j.1744-7348.1998.tb05183.x>

The establishment of cover crops by reduced cultivation, direct drilling and pre-harvest sowing and the effect on the yield of the following crop

C1 - Edited contributions to conferences/learned societies

Christian, D. G. and Yates, N. E. 1997. *The establishment of cover crops by reduced cultivation, direct drilling and pre-harvest sowing and the effect on the yield of the following crop*. Tebrugge, F. and Bohrsen, A. (ed.) *Experiences with the Application of No-tillage Crop Production in the West European Countries: Proceedings of 4th EC Workshop*, Boigneville, 12-14 May 1997. *Wissenschaftlicher Fachverlag Dr Fleck, Langgoms*. pp. 5-15

The effect of take-all (*Gaeumannomyces graminis* var *tritici*) disease of wheat on residual mineral N in arable soils

C2 - Non-edited contributions to conferences

Macdonald, A. J., Gutteridge, R. J. and Bradbury, N. J. 1997. *The effect of take-all (*Gaeumannomyces graminis* var *tritici*) disease of wheat on residual mineral N in arable soils*. *Abstracts 1st European Conference on Precision Agriculture, Warwick, 8-10 September 1997*.

Uptake of nitrogen by *Miscanthus*

C1 - Edited contributions to conferences/learned societies

Christian, D. G. and Riche, A. B. 1997. *Uptake of nitrogen by *Miscanthus**. Biewinga, E. E. and vanderBijl, G. (ed.) *Proceedings Conference on the Environmental Impact of Biomass for Energy, Noordwijkerhout, 4-5 November 1996*. Centre for Agriculture and Environment, Utrecht. pp. 71-72

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C1 - Edited contributions to conferences/learned societies

Christian, D. G., Riche, A. B. and Yates, N. E. 1997. *Nitrate leaching under *Miscanthus* grass*. Biewinga, E. E. and vanderBijl, G. (ed.) *Proceedings Conference on the Environmental Impact of Biomass for Energy, Noordwijkerhout, 4-5 November 1996*. Centre for Agriculture and Environment, Utrecht. pp. 69-70

A study of grain dormancy and viability in spring barley

A - Papers appearing in refereed journals

Carreck, N. L. and Christian, D. G. 1997. *A study of grain dormancy and viability in spring barley* *European Journal of Agronomy*. 6, pp. 155-161.

Comparisons of isolates of the take-all fungus, *Gaeumannomyces graminis* var. *tritici*, from different cereal sequences using DNA probes and non-molecular methods

A - Papers appearing in refereed journals

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The agronomy of some herbaceous crops grown for energy in Southern England

C1 - Edited contributions to conferences/learned societies

Christian, D. G., Bullard, M. J. and Wilkins, C. 1997. *The agronomy of some herbaceous crops grown for energy in Southern England*. *Biomass and Energy Crops. Aspects of Applied Biology* 49 .pp. 41-51

The recovery of 15N-labelled fertilizer applied to *Miscanthus x giganteus*

A - Papers appearing in refereed journals

Christian, D. G., Poulton, P. R., Riche, A. B. and Yates, N. E. 1997. *The recovery of 15N-labelled fertilizer applied to *Miscanthus x giganteus**. *Biomass & Bioenergy*. 12 (1), pp. 21-24. [https://doi.org/10.1016/S0961-9534\(96\)00060-8](https://doi.org/10.1016/S0961-9534(96)00060-8)

Nutrient demand and translocation processes of *Miscanthus x giganteus*

C1 - Edited contributions to conferences/learned societies

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Strategies to control volunteer cereals in cereal rotations

C1 - Edited contributions to conferences/learned societies

Christian, D. G. and Carreck, N. L. 1996. *Strategies to control volunteer cereals in cereal rotations*. Tebrugge, F. and Bohrnson, A. (ed.) *Proceedings 3rd EC Workshop on Experience with the Applicability of No-Tillage Crop Production in the West European Countries, Euora, 1-2 April 1996*. Wissenschaftlicher Fachverlag Dr Fleck, Langgöns. pp. 31-41

Straw incorporation - rotational ploughing for grass weed control

C1 - Edited contributions to conferences/learned societies

Turley, D. B., Bacon, E. T. G., Shepherd, C. E., Peters, N. C. B., Potyka, I., Glen, D. M., Dampney, P. M. R. and Johnson, P. N. 1996. *Straw incorporation - rotational ploughing for grass weed control*. *Rotations and Cropping Systems. Aspects of Applied Biology* 47 . pp. 257-264

Plant genotype, micronutrient fertilization and take-all infection influence bacterial populations in the rhizosphere of wheat

A - Papers appearing in refereed journals

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<https://doi.org/10.1007/BF00011442>

Occurrence of severe take-all in winter wheat after many years of growing spring barley, and effects of soil phosphate

C1 - Edited contributions to conferences/learned societies

Gutteridge, R. J., Jenkyn, J. F. and Poulton, P. R. 1996. *Occurrence of severe take-all in winter wheat after many years of growing spring barley, and effects of soil phosphate*. *Rotations and Cropping Systems. Aspects of Applied Biology* 47 .pp. 453-458

Incidence of eyespot and selection of W-type and R-type of *Pseudocercospora herpotrichoides* in sequences of different cereal species

C1 - Edited contributions to conferences/learned societies

Bateman, G. L. and Gutteridge, R. J. 1996. *Incidence of eyespot and selection of W-type and R-type of *Pseudocercospora herpotrichoides* in sequences of different cereal species*. *Rotations and Cropping Systems. Aspects of Applied Biology* 47 . pp. 437-440

Mineralization of cover crop N: its contribution to subsequent crop N uptake and losses

C1 - Edited contributions to conferences/learned societies

Macdonald, A. J., Poulton, P. R., Christian, D. G. and Howe, M. T. 1996. *Mineralization of cover crop N: its contribution to subsequent crop N uptake and losses*. *Proceedings 2nd EC Concerted Action on Cover Crops (CA 2108)*, Gumpenstein, Austria, 4-7 November 1996 .

Effects of wheat crop debris on the sporulation and survival of *Pseudocercospora herpotrichoides*

A - Papers appearing in refereed journals

Jalaluddin, M. and Jenkyn, J. F. 1996. *Effects of wheat crop debris on the sporulation and survival of *Pseudocercospora herpotrichoides**. *Plant Pathology*. 45 (6), pp. 1052-1064. <https://doi.org/10.1046/j.1365-3059.1996.d01-194.x>

Effects on wheat diseases of three and five year set-aside covers

C1 - Edited contributions to conferences/learned societies

Jones, D. R., Froment, M. A., Jenkyn, J. F. and Gutteridge, R. J. 1996. *Effects on wheat diseases of three and five year set-aside covers*. *Rotations and Cropping Systems. Aspects of Applied Biology* 47 .pp. 441-444

Effects of cultivating one-year rotational set-aside at different times on take-all disease of winter wheat

C1 - Edited contributions to conferences/learned societies

Jenkyn, J. F., Gutteridge, R. J., Gladders, P. and Yarham, D. J. 1996. *Effects of cultivating one-year rotational set-aside at different times on take-all disease of winter wheat*. *Rotations and Cropping Systems. Aspects of Applied Biology* 47 .pp. 449-452

Effects of inoculum sources on the accuracy and precision of experiments testing different times of applying fungicides to control powdery mildew (*Erysiphe graminis* f. sp. *hordei*) on spring barley

A - Papers appearing in refereed journals

Jenkyn, J. F., Todd, A. D., Bainbridge, A. and Dyke, G. V. 1996. *Effects of inoculum sources on the accuracy and precision of experiments testing different times of applying fungicides to control powdery mildew (*Erysiphe graminis* f. sp. *hordei*) on spring barley*. *The Journal of Agricultural Science*. 126, pp. 259-275.

Evaluating grasses as a biomass resource for energy - some preliminary results

C1 - Edited contributions to conferences/learned societies

Christian, D. G. 1995. *Evaluating grasses as a biomass resource for energy - some preliminary results.*

Straw incorporation by different tillage systems on heavy clay soils in southern England

C1 - Edited contributions to conferences/learned societies

Christian, D. G. and Bacon, E. T. G. 1995. *Straw incorporation by different tillage systems on heavy clay soils in southern England.* Tebrugge, F. (ed.) *Proceedings 2nd EC Workshop on Experience with the Applicability of No-Tillage Crop Production in the West European Countries, Silsoe, 15-17 May 1995*. Wissenschaftlicher Fachverlag Dr Fleck, Langgöns. pp. 101-110

The natural biological control phenomenon of take-all decline in different sequences of cereals

B - Book chapters etc edited externally

Hornby, D. and Gutteridge, R. J. 1995. *The natural biological control phenomenon of take-all decline in different sequences of cereals.* in: Manka, M. (ed.) *Environmental biotic factors in integrated plant disease control* Polish Phytopathological Society, Poznan. pp. 53-60

Effects of sowing date and vernalisation on the growth of winter barley and its resistance to powdery mildew (*Erysiphe graminis* f.sp. *hordei*)

A - Papers appearing in refereed journals

White, N. and Jenkyn, J. F. 1995. *Effects of sowing date and vernalisation on the growth of winter barley and its resistance to powdery mildew (*Erysiphe graminis* f.sp. *hordei*).* *Annals of Applied Biology - AAB.* 126 (2), pp. 269-283.

<https://doi.org/10.1111/j.1744-7348.1995.tb05365.x>

Inter-plot interference and nearest-neighbour analysis of field experiments

A - Papers appearing in refereed journals

Ainsley, A. E., Dyke, G. V. and Jenkyn, J. F. 1995. *Inter-plot interference and nearest-neighbour analysis of field experiments.* *The Journal of Agricultural Science.* 125 (1), pp. 1-9. <https://doi.org/10.1017/S002185960007444X>

Mineralization of cover crop N: its contribution to subsequent crop N uptake and losses

C1 - Edited contributions to conferences/learned societies

Macdonald, A. J., Poulton, P. R., Christian, D. G. and Howe, M. T. 1995. *Mineralization of cover crop N: its contribution to subsequent crop N uptake and losses.* *Proceedings 1st EC Concerted Action on Cover Crops (CA 2108), Wageningen, May 1995*.

Effects of cover crops on soil N transformations and losses from arable land

C2 - Non-edited contributions to conferences

Macdonald, A. J., Poulton, P. R., Christian, D. G. and Howe, M. T. 1995. *Effects of cover crops on soil N transformations and losses from arable land.* *Proceedings of the ARIA Nitrate Workshop, Rothamsted, 25 January 1995*.

Effects of incorporating or burning straw, and of different cultivation systems, on winter wheat grown on two soil types, 1985-91

A - Papers appearing in refereed journals

Prew, R. D., Ashby, J. E., Bacon, E. T. G., Christian, D. G., Gutteridge, R. J., Jenkyn, J. F., Powell, W. and Todd, A. D. 1995. *Effects of incorporating or burning straw, and of different cultivation systems, on winter wheat grown on two soil types, 1985-91.* *The Journal of Agricultural Science.* 124, pp. 173-194.

Effects of incorporating straw, using different cultivation systems, and of burning it, on diseases of winter barley

A - Papers appearing in refereed journals

Jenkyn, J. F., Gutteridge, R. J. and Todd, A. D. 1995. *Effects of incorporating straw, using different cultivation systems, and of burning it, on diseases of winter barley.* *The Journal of Agricultural Science.* 124, pp. 195-204.

Sensitivity (stability) analysis of multiple variety trials, with special reference to data expressed as proportions or percentages

A - Papers appearing in refereed journals

Dyke, G. V., Lane, P. W. and Jenkyn, J. F. 1995. *Sensitivity (stability) analysis of multiple variety trials, with special reference to data expressed as proportions or percentages.* *Experimental Agriculture.* 31, pp. 75-87.

Different cereal sequences to manage the natural biological control phenomenon of take-all decline

C2 - Non-edited contributions to conferences

Hornby, D. and Gutteridge, R. J. 1994. *Different cereal sequences to manage the natural biological control phenomenon of take-all decline.* *Abstracts 3rd EFPP Conference on Environmental Biotic Factors in Integrated Plant Disease Control, Poznan, 5th-9th September 1994*. pp. 28

Effects of cover crops on soil N transformations and losses from arable land

C2 - Non-edited contributions to conferences

Macdonald, A. J., Poulton, P. R., Christian, D. G. and Howe, M. T. 1994. *Effects of cover crops on soil N transformations and losses from arable land. Abstracts 8th Nitrogen Workshop, University of Ghent, 5-8 September 1994* .

Impact of set-aside management strategies on the soil seedbank and weed flora at Woburn

C1 - Edited contributions to conferences/learned societies

Lawson, H. M., Wright, G. Mcn., Bacon, E. T. G. and Yeoman, D. P. 1994. *Impact of set-aside management strategies on the soil seedbank and weed flora at Woburn. Arable Farming under CAP Reform. Aspects of Applied Biology 40 .pp. 453-460*

Quantifying the yield of perennial grasses grown as a biofuel for energy generation

A - Papers appearing in refereed journals

Christian, D. G. 1994. *Quantifying the yield of perennial grasses grown as a biofuel for energy generation. Renewable Energy. 5, pp. 762-766.*

First report of barley yellow dwarf luteovirus on Miscanthus in the United Kingdom

A - Papers appearing in refereed journals

Christian, D. G., Lamptey, J. N. L., Forde, S. M. D. and Plumb, R. T. 1994. *First report of barley yellow dwarf luteovirus on Miscanthus in the United Kingdom. European Journal of Plant Pathology. 100, pp. 167-170.*

The effect of ploughing, direct drilling and minimal cultivation on drained and undrained land on yield and nitrogen uptake of crops grown on clay soil, 1979-1992

C1 - Edited contributions to conferences/learned societies

Christian, D. G., Bacon, E. T. G., Howse, K. R., Catt, J. A., Brockie, D. and Harris, G. L. 1994. *The effect of ploughing, direct drilling and minimal cultivation on drained and undrained land on yield and nitrogen uptake of crops grown on clay soil, 1979-1992. Schjonning, P., Madsen, K. B., Mikkelsen, S. A. and Jensen, H. E. (ed.) Soil Tillage for Crop Production and Protection of the Environment: Proceedings 13th International Conference of the International Soil Tillage Research Organization, Aalborg, July 1994* .

Straw disposal and cereal diseases

B - Book chapters etc edited externally

Jenkyn, J. F., Gutteridge, R. J. and Jalaluddin, M. 1994. *Straw disposal and cereal diseases. in: Blakeman, J. P. and Williamson, B. (ed.) Ecology of plant pathogens CABI International, Wallingford, Oxon (CABI). pp. 285-300*

Effects of cover crops on soil N transformations and losses from arable land

C2 - Non-edited contributions to conferences

Macdonald, A. J., Poulton, P. R., Christian, D. G. and Howe, M. T. 1993. *Effects of cover crops on soil N transformations and losses from arable land. Abstracts AFRC Meeting on Nitrogen Metabolism in Plants and Soil, Silsoe College, December 1993* .

Reduced cultivation and direct drilling for cereals in Great Britain

B - Book chapters etc edited externally

Christian, D. G. and Ball, B. C. 1993. *Reduced cultivation and direct drilling for cereals in Great Britain. in: Carter, M. R. (ed.) Conservation tillage in temperate agroecosystems Lewis Publishers, Boca Raton, Florida. pp. 117-140*

Take-all in autumn-sown wheat, barley, triticale and rye grown with high and low inputs

A - Papers appearing in refereed journals

Gutteridge, R. J., Hornby, D., Hollins, T, W and Prew, R. D. 1993. *Take-all in autumn-sown wheat, barley, triticale and rye grown with high and low inputs. Plant Pathology. 42 (3), pp. 425-431. <https://doi.org/10.1111/j.1365-3059.1993.tb01521.x>*

Comparison of take-all in different cereals in monoculture and in cereal rotations

C2 - Non-edited contributions to conferences

Hornby, D. and Gutteridge, R. J. 1993. *Comparison of take-all in different cereals in monoculture and in cereal rotations. Abstracts 6th International Congress of Plant Pathology, Montreal, 28 July-6 August 1993 .pp. 265*

The effect of the previous crop on the growth, nitrogen uptake and yield of winter barley intended for malting

A - Papers appearing in refereed journals

Carreck, N. L. and Christian, D. G. 1993. *The effect of the previous crop on the growth, nitrogen uptake and yield of winter barley intended for malting. Journal of the Science of Food and Agriculture - jsfa.62 (2), pp. 137-145. <https://doi.org/10.1002/jsfa.2740620206>*

New uses for old crops

C1 - Edited contributions to conferences/learned societies

Christian, D. G. 1993. New uses for old crops. Summary Notes Natural History Museum Schools Conference on Human Use of Plants, London, June 1993 .

Miscanthus - fuel crop for the future?

G - Articles in popular magazines and other technical publications

Christian, D. G. 1993. Miscanthus - fuel crop for the future? AFRC News. July 1993, p. 7.

Losses of nitrate-nitrogen in water draining from under autumn-sown crops established by direct drilling or mouldboard ploughing

A - Papers appearing in refereed journals

Goss, M. J., Howse, K. R., Lane, P. W., Christian, D. G. and Harris, G. L. 1993. Losses of nitrate-nitrogen in water draining from under autumn-sown crops established by direct drilling or mouldboard ploughing. Journal of Soil Science. 44 (1), pp. 35-48.

The effect of reduced cultivation, ploughing and herbicides on the occurrence of volunteer cereal grains in winter wheat and barley

C1 - Edited contributions to conferences/learned societies

Christian, D. G. 1993. The effect of reduced cultivation, ploughing and herbicides on the occurrence of volunteer cereal grains in winter wheat and barley. Volunteer Crops as Weeds. Aspects of Applied Biology .

Effects of seven factors on the growth and yield of winter barley grown as a third consecutive take-all susceptible crop and of growing the barley after oats or a fallow

A - Papers appearing in refereed journals

Jenkyn, J. F., Carter, N., Darby, R. J., Gutteridge, R. J., Mullen, L. A., Plumb, R. T., Ross, G. J. S., Todd, A. D., Widdowson, F. V. and Wood, D. W. 1992. Effects of seven factors on the growth and yield of winter barley grown as a third consecutive take-all susceptible crop and of growing the barley after oats or a fallow. The Journal of Agricultural Science. 119, pp. 303-333.

Evaluation of drainage, cultivation and crop management on the leaching of nitrate under arable crops on a clay soil

C2 - Non-edited contributions to conferences

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Pesticide application and deposition - their importance to pesticide leaching to surface water

C1 - Edited contributions to conferences/learned societies

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Nitrogen uptake by cover crops

C1 - Edited contributions to conferences/learned societies

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Effect of cultivations and herbicides on the occurrence of volunteer cereals. Final report of a 4-year grant, beginning April 1988 (HGCA Project 0086/1/87)

D1 - Technical reports: non-confidential

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The effect of cultivation and plant establishment on nitrogen conservation on set-aside land

C1 - Edited contributions to conferences/learned societies

Hewitt, M. V., Webster, C. P. and Bacon, E. T. G. 1992. The effect of cultivation and plant establishment on nitrogen conservation on set-aside land. Set-aside. British Crop Protection Council Monograph.

The effectiveness of winter cover crops in minimising nitrogen leaching loss

C1 - Edited contributions to conferences/learned societies

Webster, C. P., Macdonald, A. J., Poulton, P. R. and Christian, D. G. 1992. The effectiveness of winter cover crops in minimising nitrogen leaching loss. Scaife, A. (ed.) Proceedings Second Congress of the European Society for Agronomy, Warwick University, 23-28 August 1992. European Society for Agronomy, Wellesbourne. pp. 380-381

Strategies to reduce nitrate leaching by crop rotation, minimal cultivation and straw incorporation in the

Brimstone Farm Experiment, Oxfordshire

C1 - Edited contributions to conferences/learned societies

Catt, J. A., Christian, D. G., Goss, M. J., Harris, G. L. and Howse, K. R. 1992. Strategies to reduce nitrate leaching by crop rotation, minimal cultivation and straw incorporation in the Brimstone Farm Experiment, Oxfordshire. Nitrate and Farming Systems. Aspects of Applied Biology .

Effects of sowing winter barley on different dates in autumn on the severity of take-all (*Gaeumannomyces graminis* var. *tritici*) in those and the subsequent crops

A - Papers appearing in refereed journals

*Jenkyn, J. F., Gutteridge, R. J. and Todd, A. D. 1992. Effects of sowing winter barley on different dates in autumn on the severity of take-all (*Gaeumannomyces graminis* var. *tritici*) in those and the subsequent crops. The Journal of Agricultural Science. 119, pp. 19-25.*

N uptake by barley related to malting quality

D1 - Technical reports: non-confidential

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Fungal pathogens of grain lupins 1986-1991

C1 - Edited contributions to conferences/learned societies

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The effects of straw disposal and depth of cultivation on the growth, nutrient uptake and yield of winter wheat on a clay and a silt soil

A - Papers appearing in refereed journals

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<https://doi.org/10.1111/j.1475-2743.1991.tb00877.x>

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A - Papers appearing in refereed journals

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Effects of fungicides, applied in autumn, and a growth regulator, applied in spring, on the growth and yield of winter barley grown on contrasting soil types

A - Papers appearing in refereed journals

Jenkyn, J. F., Gutteridge, R. J. and Todd, A. D. 1991. Effects of fungicides, applied in autumn, and a growth regulator, applied in spring, on the growth and yield of winter barley grown on contrasting soil types. The Journal of Agricultural Science. 117, pp. 287-297.

Crop yield and uptake of nitrogen

C1 - Edited contributions to conferences/learned societies

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Evaluation of 'Seamac 600' applied to winter barley

C2 - Non-edited contributions to conferences

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A - Papers appearing in refereed journals

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Agronomic aspects of straw incorporation

G - Articles in popular magazines and other technical publications

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C2 - Non-edited contributions to conferences

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C1 - Edited contributions to conferences/learned societies

Prew, R. D., Cussans, G. W., Glen, D. M. and Jenkyn, J. F. 1990. *Agronomic aspects of straw incorporation*. pp. 39-45

Growing barley for malting - a review (HGCA Project 0025/1/87)

D1 - Technical reports: non-confidential

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Effects of take-all on some aspects of grain quality of winter wheat

C1 - Edited contributions to conferences/learned societies

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C1 - Edited contributions to conferences/learned societies

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A long-term comparison of ploughing, tine cultivation and direct drilling on the growth and yield of winter cereals and oilseed rape on clayey and silty soils

A - Papers appearing in refereed journals

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Experiments in England and France on fertilisers, fungicides and agronomic practices to decrease take-all.

C1 - Edited contributions to conferences/learned societies

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A - Papers appearing in refereed journals

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<https://doi.org/10.1111/j.1744-7348.1990.tb06642.x>

The dynamics of nitrogen accumulation in barley grain and malting quality.

G - Articles in popular magazines and other technical publications

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Growing barley for malting - a review.

B - Book chapters etc edited externally

Carreck, N. J. and Christian, D. G. 1989. *Growing barley for malting - a review*. in:

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A - Papers appearing in refereed journals

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A - Papers appearing in refereed journals

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B - Book chapters etc edited externally

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Effects of treatments to perennial ryegrass on the development of Septoria spp. in a subsequent crop of winter wheat.

A - Papers appearing in refereed journals

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Effects of straw incorporation and cultivations on cereal diseases.

C1 - Edited contributions to conferences/learned societies

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The cultivation of clay soil.

C2 - Non-edited contributions to conferences

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C2 - Non-edited contributions to conferences

Hornby, D. and Gutteridge, R. J. 1988. Known and supposed factors affecting take-all in winter wheat. *Abstracts 5th International Congress of Plant Pathology, Kyoto, 1988, 191*

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A - Papers appearing in refereed journals

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C2 - Non-edited contributions to conferences

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C2 - Non-edited contributions to conferences

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The effect of depth of straw incorporation on the growth and yield of winter wheat on a clay and a silt loam soil.

C2 - Non-edited contributions to conferences

Christian, D. G., Bacon, E. T. G., Miller, D. P. and Nash, C. 1988. The effect of depth of straw incorporation on the growth and yield of winter wheat on a clay and a silt loam soil. *Tillage and traffic in crop production. 11th International Conference. International Soil Tillage Research Organization, Edinburgh, 1988. Edinburgh : Scottish Centre for Agricultural Engineering*. pp. 613-617

A comparison of tine cultivation and ploughing with two methods of straw disposal on the growth, nutrient uptake and yield of winter wheat grown on a clay soil.

A - Papers appearing in refereed journals

Christian, D. G. and Bacon, E. T. G. 1988. A comparison of tine cultivation and ploughing with two methods of straw disposal on the growth, nutrient uptake and yield of winter wheat grown on a clay soil. *Soil Use and Management*. 4 (2), pp. 51-57. <https://doi.org/10.1111/j.1475-2743.1988.tb00736.x>

Comparison of the effects of spring applications of ammonium chloride and other nitrogen fertilizers on take-all in winter wheat.

A - Papers appearing in refereed journals

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The growth and yield of winter wheat following ten years of continuous ploughing, shallow-tine

cultivation or direct drilling on a non-calcareous clay soil.

A - Papers appearing in refereed journals

Ayling, S. M., Bacon, E. T. G., Christian, D. G. and Goss, M. J. 1987. *The growth and yield of winter wheat following ten years of continuous ploughing, shallow-tine cultivation or direct drilling on a non-calcareous clay soil. The Journal of Agricultural Science. 108, pp. 335-340.*

Compaction of a silt loam by wheeled agricultural vehicles. II. Effects on growth and yield of direct-drilled winter wheat.

A - Papers appearing in refereed journals

Graham, J. P., Blackwell, P. S., Armstrong, J. V., Christian, D. G., Howse, K. R., Dawson, C. J. and Butler, A. R. 1986. *Compaction of a silt loam by wheeled agricultural vehicles. II. Effects on growth and yield of direct- drilled winter wheat. Soil & Tillage Research. 7, pp. 189-203.*

Straw incorporation by different tillage systems the effect on growth and yield of winter oats.

A - Papers appearing in refereed journals

Christian, D. G. and Miller, D. P. 1986. *Straw incorporation by different tillage systems the effect on growth and yield of winter oats. Soil & Tillage Research. 8, pp. 239-252.*

A Study of mole drainage with simplified cultivation for autumn-sown crops on a clay soil. 4. A comparison of direct drilling and mouldboard ploughing on drained and undrained land on root and shoot growth, nutrient uptake and yield.

A - Papers appearing in refereed journals

Cannell, R. Q., Christian, D. G. and Henderson, F. K. G. 1986. *A Study of mole drainage with simplified cultivation for autumn-sown crops on a clay soil. 4. A comparison of direct drilling and mouldboard ploughing on drained and undrained land on root and shoot growth, nutrient uptake and yield. Soil & Tillage Research. 7, pp. 251-272.*

The effects of sowing date and other factors on growth, yield and nitrogen uptake, and on the incidence of pests and diseases, of winter barley at Rothamsted from 1981 to 1983.

A - Papers appearing in refereed journals

Widdowson, F. V., Darby, R. J., Dewar, A. M., Jenkyn, J. F., Kerry, B. R., Lawlor, D. W., Plumb, R. T., Ross, G. J. S., Scott, G. C., Todd, A. D. and Wood, D. W. 1986. *The effects of sowing date and other factors on growth, yield and nitrogen uptake, and on the incidence of pests and diseases, of winter barley at Rothamsted from 1981 to 1983. The Journal of Agricultural Science. 106, pp. 551-574. <https://doi.org/10.1017/S0021859600063437>*

Results from experiments on winter barley measuring the effects of amount and timing of nitrogen and some other factors on the yield and nitrogen content of the grain

A - Papers appearing in refereed journals

Penny, A., Widdowson, F. V. and Jenkyn, J. F. 1986. *Results from experiments on winter barley measuring the effects of amount and timing of nitrogen and some other factors on the yield and nitrogen content of the grain. The Journal of Agricultural Science. 106, pp. 537-549.*

Take-all distribution and soil type on Chalky Boulder clay.

A - Papers appearing in refereed journals

Catt, J. A., Gutteridge, R. J. and Slope, D. B. 1986. *Take-all distribution and soil type on Chalky Boulder clay. The Journal of Agricultural Science. 106, pp. 61-66.*

Tests of amounts and times of application of nitrogen and of sequential sprays of aphicide and fungicides on winter wheat, following either beans or wheat, and the effects of take-all (*Gaeumannomyces graminis* var. *tritici*), on two varieties at Saxmundham, Suffolk 1980-3

A - Papers appearing in refereed journals

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Interference between plots in experiments with plant pathogens

C1 - Edited contributions to conferences/learned societies

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A study of mole drainage with simplified cultivation for autumn-sown crops on a clay soil 3 Agronomy, root and shoot growth of winter-wheat 1978-80

A - Papers appearing in refereed journals

Ellis, F. B., Christian, D. G., Bragg, P. L., Henderson, F. K. G., Prew, R. D. and Cannell, R. Q. 1984. A study of mole drainage with simplified cultivation for autumn-sown crops on a clay soil 3 *Agronomy, root and shoot growth of winter-wheat 1978-80. The Journal of Agricultural Science.* 102 (JUN), pp. 583-594. <https://doi.org/10.1017/s002185960004212x>



Experiments to examine the significance of ammonia evolution from barley seedlings infected with the powdery mildew fungus, *Erysiphe graminis* f.sp. hordei

A - Papers appearing in refereed journals

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Biological effectiveness of electrostatically charged rotary atomisers. II. Trials with cereals, 1982

A - Papers appearing in refereed journals

Arnold, A. J., Cayley, G. R., Dunne, Y., Etheridge, P., Griffiths, D. C., Jenkyn, J. F., Phillips, F. T., Pye, B. J., Scott, G. C. and Woodcock, C. M. 1984. Biological effectiveness of electrostatically charged rotary atomisers. II. Trials with cereals, 1982. *Annals of Applied Biology - AAB.* 105 (2), pp. 361-367. <https://doi.org/10.1111/j.1744-7348.1984.tb03060.x>

Effects of powdery mildew on grain filling in spring barley in contrasting environments

A - Papers appearing in refereed journals

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Effects of barley powdery mildew on grain filling in contrasting environments

C1 - Edited contributions to conferences/learned societies

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Experiments with solid and liquid N-fertilizers and fungicides on winter wheat at Saxmundham, Suffolk, 1976-9

A - Papers appearing in refereed journals

Penny, A., Widdowson, F. V. and Jenkyn, J. F. 1983. Experiments with solid and liquid N-fertilizers and fungicides on winter wheat at Saxmundham, Suffolk, 1976-9. *The Journal of Agricultural Science.* 100 (1), pp. 163-173. <https://doi.org/10.1017/s0021859600032573>

Effects of nitrogen fertilizer and tridemorph on mildew, growth and yield of spring barley 1975-7

A - Papers appearing in refereed journals

Jenkyn, J. F., Finney, M. E. and Dyke, G. V. 1983. Effects of nitrogen fertilizer and tridemorph on mildew, growth and yield of spring barley 1975-7. *The Journal of Agricultural Science.* 101 (3), pp. 517-546. <https://doi.org/10.1017/s0021859600038557>

Effects of fungicides and insecticides applied to spring barley sown on different dates in 1976-79

A - Papers appearing in refereed journals

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Effects of fungicide movement between plots in field experiments

A - Papers appearing in refereed journals

Jenkyn, J. F., Dyke, G. V. and Todd, A. D. 1983. Effects of fungicide movement between plots in field experiments *Plant Pathology.* 32 (3), pp. 311-324. <https://doi.org/10.1111/j.1365-3059.1983.tb02839.x>

Results from factorial experiments testing amounts and times of granular N-fertilizer, late sprays of liquid N-fertilizer and fungicides to control mildew and brown rust on two varieties of spring barley at Saxmundham, Suffolk 1975-8

A - Papers appearing in refereed journals

Widdowson, F. V., Jenkyn, J. F. and Penny, A. 1982. Results from factorial experiments testing amounts and times of granular N-fertilizer, late sprays of liquid N-fertilizer and fungicides to control mildew and brown rust on two varieties of spring barley at Saxmundham, Suffolk 1975-8. *The Journal of Agricultural Science.* 99 (2), pp. 377-390.

Fungicides, fertilizers and sowing date

B - Book chapters etc edited externally

Jenkyn, J. F. and Finney, M. E. 1981. *Fungicides, fertilizers and sowing date*. in: Jenkyn, J. F. and Plumb, R. T. (ed.) *Strategies for the control of cereal disease Oxford Blackwell Publishing*. pp. 179-188

The influence of cultural-factors and mildew on yield of winter barley

A - Papers appearing in refereed journals

Bainbridge, A., Finney, M. E. and Jenkyn, J. F. 1980. *The influence of cultural-factors and mildew on yield of winter barley*. *The Journal of Agricultural Science*. 94 (APR), pp. 389-397. <https://doi.org/10.1017/s0021859600029002>

Take-all, *Gaeumannomyces graminis* var. *tritici*, and yield of wheat grown after ley and arable rotations in relation to the occurrence of *Phialophora radiculicola* var. *graminicola*

A - Papers appearing in refereed journals

Slope, D. B., Prew, R. D., Gutteridge, R. J. and Etheridge, J. V. 1979. *Take-all, *Gaeumannomyces graminis* var. *tritici*, and yield of wheat grown after ley and arable rotations in relation to the occurrence of *Phialophora radiculicola* var. *graminicola**. *The Journal of Agricultural Science*. 93 (OCT), pp. 377-389. <https://doi.org/10.1017/s0021859600038065>

Investigation into inter-plot interactions, in experiments with mildew on barley, using balanced designs

A - Papers appearing in refereed journals

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Field evaluation of pesticides: the changing scene

C1 - Edited contributions to conferences/learned societies

Jenkyn, J. F. and Griffiths, D. C. 1978. *Field evaluation of pesticides: the changing scene* 9th British Insecticide and Fungicide Conference. Hotel Metropole, Brighton, UK 21 Nov 1977 British Crop Protection Council (BCPC).

Spring top-dressings of 'Nitro-Chalk' and late sprays of a liquid N-fertilizer and a broad spectrum fungicide for consecutive crops of winter wheat at Saxmundham, Suffolk

A - Papers appearing in refereed journals

Penny, A., Widdowson, F. V. and Jenkyn, J. F. 1978. *Spring top-dressings of 'Nitro-Chalk' and late sprays of a liquid N-fertilizer and a broad spectrum fungicide for consecutive crops of winter wheat at Saxmundham, Suffolk*. *The Journal of Agricultural Science*. 90 (3), pp. 509-516. <https://doi.org/10.1017/s0021859600056021>

Occurrence of *phialophora-radicicola* var *graminicola* and *gaeumannomyces-graminis* var *tritici* on roots of wheat in field crops

A - Papers appearing in refereed journals

Slope, D. B., Salt, G. A., Broom, E. W. and Gutteridge, R. J. 1978. *Occurrence of *phialophora-radicicola* var *graminicola* and *gaeumannomyces-graminis* var *tritici* on roots of wheat in field crops*. *Annals of Applied Biology - AAB*. 88 (2), pp. 239-246. <https://doi.org/10.1111/j.1744-7348.1978.tb00701.x>

Effects of pesticides on a perennial ryegrass sward

A - Papers appearing in refereed journals

Plumb, R. T., Jenkyn, J. F. and Broom, E. W. 1978. *Effects of pesticides on a perennial ryegrass sward* *Plant Pathology*. 27 (4), pp. 151-159. <https://doi.org/10.1111/j.1365-3059.1978.tb01107.x>

Effects of chemical treatments for mildew control at different times on growth and yield of spring barley

A - Papers appearing in refereed journals

Jenkyn, J. F. 1978. *Effects of chemical treatments for mildew control at different times on growth and yield of spring barley*. *Annals of Applied Biology - AAB*. 88 (3), pp. 369-376. <https://doi.org/10.1111/j.1744-7348.1978.tb00727.x>

Effect of inoculating soils with *phialophora-radicicola* var *graminicola* on take-all disease of wheat

A - Papers appearing in refereed journals

Gutteridge, R. J. and Slope, D. B. 1978. *Effect of inoculating soils with *phialophora-radicicola* var *graminicola* on take-all disease of wheat*. *Plant Pathology*. 27 (3), pp. 131-135. <https://doi.org/10.1111/j.1365-3059.1978.tb01097.x>

Nitrogen and leaf diseases of spring barley

C1 - Edited contributions to conferences/learned societies

Jenkyn, J. F. 1977. *Nitrogen and leaf diseases of spring barley*. *Proceedings of the 12th Colloquium of the International Potash Institute held in Izmir/Turkey 1976*. Izmir, Turkey International Potash Institute.

Observations on the origins of Septoria nodorum infection of winter wheat

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