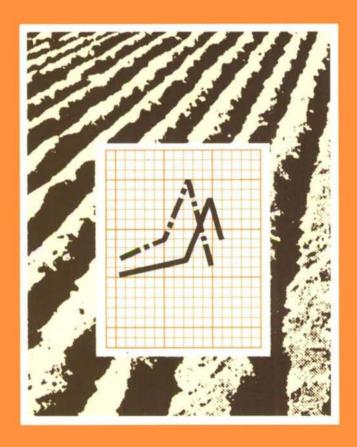
The Journal of Agricultural Science



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In Reference list:

Dabney, S. M., Breitenbeck, G. A., Griffin, J. L. & Hoff, B. J. (1989). Subterranean clover cover crop used to increase rice yield. *Agronomy Journal* 81, 483-487.

FIRMAN, D. M. (1987). Leaf growth and senescence of the potato. PhD thesis, University of Cambridge.

Jones, L. (1990). White clover understorey as a supply of nitrogen to cereals. In *Proceedings of the 13th General Meeting of the European Grassland Federation, Volume I* (Eds N. Gáborčik, V. Krajčovič & M. Zimkova), pp. 154–158. Banksá Bystrica, Czechoslovakia: Grassland Research Institute.

KIRBY, E. J. M. & APPLEYARD, M. (1984). Cereal development and its relation to crop management. In *Cereal Production* (Ed. E. J. Gallagher), pp. 161-173. London: Butterworths.

SAXENA, M. C. & SINGH, K. B. (Eds) (1987). The Chickpea. Wallingford: CAB International.

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