

AGRICULTURE

A Bibliographical Guide

E. A. R. BUSH, B.A., A.L.A.

Deputy Librarian

Ministry of Agriculture, Fisheries and Food

Volume 1

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Macdonald and Jones
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Trowbridge & Esher

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THE MACDONALD BIBLIOGRAPHICAL GUIDES

A Note by the Series Editors

THE publication in 1961 of *Electronics - a bibliographical guide* was in the nature of an experimental venture in that it broke fresh ground in presenting a new type of technical literature guide with regard to presentation, to critical and evaluative assessment of the matter cited, and to international coverage.

It was not the intention to produce a comprehensive or exhaustive bibliography of the subject, but rather, by summarizing the literature over a number of years, to provide a means of effectively supplementing both the older established abstracts, journals and the newer "current awareness" publications. Our conception, too, was that it would be of particular value in providing an enquirer with a key reference from which to start a survey of a highly specialized subject field. Additionally, the developments in the science could be traced chronologically.

From the reception accorded to the first volume published it seems that these aims have been generally achieved. As a result the publishers felt justified in launching a series of guides in a variety of subject fields with ourselves as editors. The series is now known as the *Macdonald Bibliographical Guides*.

Each of the guides follows the pattern set by the initial volume. The first section of the guide lists reference works and information sources. The remaining specialized sections list the significant books, reports, papers and bibliographies published in the field; the works cited are selected both for their intrinsic merit and for their value as reference sources. The subject field covered by the series are those in which no comprehensive literature evaluation has yet been published.

We have been able to commission for these volumes authors who are expert bibliographers and who are highly competent in their respective fields.

It is fitting that the task of compiling this work on Agriculture has been undertaken by Mr. Bush. As a librarian of long experience in this particular field, he is pre-eminently qualified for the task. We are confident that his painstaking effort will prove to be a highly effective contribution to the documentation of Agriculture.

C. K. MOORE
K. J. SPENCER

FOREWORD

By Professor A. N. Duckham

This is an important and potentially very useful book. Over the next 30–40 years the world's population will double. Fisheries, the use of fossils, fuels, for example protein from oil, and more efficient food processing, food storage, and fewer wastages due to over (or under) nutrition will have important parts to play in the struggle to feed this doubled population. But the main burden will fall on agriculture.

How successful agriculture proves in this key role for mankind will depend, to a major extent, on the rapidity of its capacity to absorb and use new scientific findings and to adapt current practices to changing conditions. Both such absorption and such adaption will, in turn, depend on the rapid availability — to research workers, extension men, commercial firms and government administrators — of sources of information on their particular problems. This book, which is essentially a bibliography of bibliographies, should save them a great deal of time in getting at the published information on their problems and, perhaps equally important, indicating areas where published knowledge is negligible and where, therefore, they will have to find out the answer (if any) by themselves. It is obviously a reference book that should be in every library — governmental, academic, commercial, or public — where workers from agriculture and its ancillary industries are likely to need to know who has published bibliographies about what. Many private individuals with agricultural interests or responsibilities will also welcome it amongst the reference books in their personal libraries.

The logic behind the classification and the organisation of the contents (which cover the years 1958–1971) is set out in the Preface on page ix. The contents themselves are listed on page x whilst there is an alphabetical subject index at page 1369.

PREFACE

Agriculture, as those who have anything to do with it well know, is not a single subject but a whole conglomeration which includes aspects of the social, the physical, the biological, the mechanical and the applied sciences — even aspects of linguistics, as will be seen from the Contents list, are not absent.

This fact accounts for the length of this work with its many sections and extensive indexes and also means that choice of entries was of necessity highly selective.

This information is presented in a three column format and in chronological order within the section, as employed in other works in the Macdonald Bibliographical Guides.

The work which aims to draw the attention of librarians, information and research workers to the existence of essential reference, "book" and periodical material, covers the period 1958 to 1971,

with some earlier entries included to ensure the presence of important basic material and later "stop press" items put in after initial compilation. The arrangement of sections is based fundamentally on the Universal Decimal Classification.

Finally I should like to express my thanks to Mr. F. C. Hirst, F.L.A., Chief Librarian of the Ministry of Agriculture, Fisheries and Food, whose kind permission to use the stock of the library without formality made this work possible, and to those librarians, friends and family members who rallied round with information and help with copy assembly and proof-reading.

E. A. R. Bush
Deputy Librarian
Ministry of Agriculture, Fisheries and Food

PERIODICALS CITED AND THEIR ABBREVIATIONS

The abbreviations used throughout this bibliography are based on those given in the *World List of Scientific Periodicals*.

Abbreviation	Complete Title	Country of Publication
A.D.A.S. q. Rev.	A.D.A.S. Quarterly Review	U.K.
A.I. Dig.	A.I. Digest	U.S.A.
A. Rev. Ent.	Annual Review of Entomology	U.S.A.
A. Rev. Microbiol.	Annual Review of Microbiology	U.S.A.
A. Rev. Phytopath.	Annual Review of Phytopathology	U.S.A.
A. Rev. Pl. Physiol.	Annual Review of Plant Physiology	U.S.A.
Abstrgmt. Pat. Specif.	Abstracts of Patent Specifications	U.K.
Abstr. Ent.	Abstracts of Entomology	U.S.A.
Abstr. Mycol.	Abstracts of Mycology	U.S.A.
Abstr.rec.publ.Mater.	Abstracts of Recent Published Material on Soil and	U.S.A.
Soil Wat. Conserv.	Water Conservation.	
Abstr. Rom. tech. Lit.	Abstracts of Romanian Technical Literature	Rumania
Acta Agric. Scand.	Acta Agriculturae Scandinavica	Sweden
Acta agrobot.	Acta Agrobotanica	Poland
Acta agron.	Acta Agronomica	Colombia
Acta bot. Neerl.	Acta Botanica Neerlandica	Holland
Acta ent. Sin.	Acta Entomologica Sinica	U.S.A.
Acta Horticulturæ	Acta Horticulturæ, Technical Communications of ISHS.	Holland
	International Society for Horticultural Science	
Acta microbiol. Pol.	Acta Microbiologica Polonica	Poland
Acta parasit. Pol.	Acta Parasitologica Polonica	Poland
Acta phytopathol.	Acta Phytopathologica, Academiae Scientiarum	Hungary
	Hungaricae	
Acta vet. Hung.	Acta Veterinaria Academiae Scientiarum Hungaricae	Hungary
Adv. Acarol.	Advances in Acarology	U.S.A.
Adv. Agron.	Advances in Agronomy	U.S.A.
Adv. appl. Microbiol.	Advances in Applied Microbiology	U.S.A.
Adv. bot. Res.	Advances in Botanical Research	U.K.
Adv. ecol. Res.	Advances in Ecological Research	U.S.A.
Adv. Genet.	Advances in Genetics	U.S.A.
Adv. Insect Physiol.	Advances in Insect Physiology	U.K.
Adv. Parasit.	Advances in Parasitology	U.K.
Adv. Pest Cont. Res.	Advances in Pest Control Research	U.S.A.
Adv. Protein Chem.	Advances in Protein Chemistry	U.S.A.
Adv. reprod. Physiol.	Advances in Reproductive Physiology	U.K.
Adv. Virus Res.	Advances in Virus Research	U.S.A.
Advis. Leaf. Minist. Agric.	Advisory Leaflets, Ministry of Agriculture, Fisheries	U.K.
Fish Food	and Food	
Advng Front. Pl. Sci.	Advancing Frontiers of Plant Sciences	India
Advnt Sci. Lond.	Advancement of Science	U.K.
Agra Europe	Agra Europe	U.K.
Agri Dig.	Agri Digest	Belgium
Agric. Asp. Comm. Mkt.	Agricultural Aspects of the Common Market	Holland
Agric. Aviat.	Agricultural Aviation	Holland
Agric. biol. Chem.	Agricultural and Biological Chemistry	Japan
Agric. Chem.	Agricultural Chemicals	U.S.A.
Agric. Econ. Res.	Agricultural Economics Research	U.S.A.
Agric. Engng, St. Joseph, Mich.	Agricultural Engineering	U.S.A.
Agric. Finance Rev.	Agricultural Finance Review	U.S.A.
Agric. Gaz. N.S.W.	Agricultural Gazette of New South Wales	Australia

Agric. Hist.	Agricultural History	U.S.A.
Agric. Hist. Rev.	Agricultural History Review	U.K.
Agric. Inst. Rev.	Agricultural Institute Review	Canada
Agric. Lit. Czech.	Agricultural Literature of Czechoslovakia	Czechoslovakia
Agric. Mach. J.	Agricultural Machinery Journal	U.K.
Agric. Merch.	Agricultural Merchant	U.K.
Agric. Meteorol.	Agricultural Meteorology	U.S.A.
Agric. Mktng.	Agricultural Marketing	Holland
Agric. Policy. Rev.	Agricultural Policy Review	U.S.A.
Agric. Prog.	Agricultural Progress	U.S.A.
Agric. Res. Rev., Cairo	Agricultural Research Review	U.K.
Agric. Res., Wash.	Agricultural Research	Egypt
Agric. Sci. Rev.	Agricultural Science Review	U.S.A.
Agric. Situ. India	Agricultural Situation in India	U.S.A.
Agric. vet. Chem.	Agricultural and Veterinary Chemicals and Agricultural Engineering	India
Agricoltura, Roma	Agricoltura — Attualità Italiane e Straniere	U.K.
Agricoltura, Louvain	Agricoltura	Italy
Agriculture Abroad	Agriculture Abroad	Belgium
Agriculture Checklist	Agriculture Checklist	Canada
Agriculture, Lond.	Agriculture	India
Agriculture North. Ire.	Agriculture in Northern Ireland	U.K.
Agriculture Pakist.	Agriculture Pakistan	Northern Ireland
Agrochimica	Agrochimica	Pakistan
Agrokhimiya	Agrokhimiya	Italy
Agron. J.	Agronomy Journal	U.S.S.R.
Agronomia trop.	Agronomia Tropical	U.S.A.
Air Pollut. Abstr.	Air Pollution Abstracts	Venezuela
Alimentaz. anim.	Alimentazione Animale	U.K.
All. Deutsch. Imkerztg	Allgemeine Deutsche Imkerzeitung	Italy
Am. J. agric. Econ.	American Journal of Agricultural Economics	Germany
Am. J. Bot.	American Journal of Botany	U.S.A.
Am. Potato J.	American Potato Journal	U.S.A.
Am. Potato Yb.	American Potato Year-book	U.S.A.
Anal. Inst. Cerc. Vitic.	Analele Institutului de Cercetări pentru Viticultură și Vinificație.	U.S.A.
Vinif.	Vinificație.	Rumania
Analyt. Abstr.	Analytical Abstracts	U.K.
Anim. Behav.	Animal Behaviour	U.K.
Anim. Breed. Abstr.	Animal Breeding Abstracts	U.K.
Anim. Hlth.	Animal Health	U.K.
Anim. Hlth Yb.	Animal Health Yearbook (F.A.O.)	U.K.
Anim. Prod.	Animal Production	Italy
Ann. appl. Biol.	Annals of Applied Biology	U.K.
Ann. Bot.	Annals of Botany	U.K.
Annls. Agric. Fenn.	Annales Agriculturae Fenniae	Finland
Annls. Bot. Fenn.	Annales Botanici Fennici	Finland
Annls. Gembloux	Annales de Gembloux	Belgium
Annls. Inst. phytopath.	Annales de l'Institut Phytopathologique Benaki	Greece
Benaki		
Annls Phytopathol.	Annales de Phytopathologie	France
Annls Soc. ent. Fr.	Annales de la Société Entomologique de France	France
Annls Zool. Ecol. anim.	Annales de Zoologie, Ecologie Animale	France
Annls Zool. Fenn.	Annales Zoologici Fennici	Finland
Annuaire Agric. Ital.	Annuario dell' Agricoltura Italiana	Italy
Antonie van Leeuwenhoek	Antonie van Leeuwenhoek	Holland

Apic. Abstr.	Apicultural Abstracts	U.K.
Apidologie	Apidologie	France
Appl. Microbiol.	Applied Microbiology	U.S.A.
Arab. Fmr	Arable Farmer	U.K.
Araneta J. Agric.	Araneta Journal of Agriculture	Philippines
Arboric. fruit.	Arboriculture Fruitière	France
Arch. Forstw.	Archiv für Forstwesen	Germany
Arch. Gartenb.	Archiv für Gartenbau	Germany
Arch. Geflügelz. Kleintierk.	Archiv für Geflügelzucht und Kleintierkunde	Germany
Arch. ges. Virusforsch.	Archiv für die Gesamte Virusforschung	Austria
Arch. Landtech.	Archiv für Landtechnik	Germany
Arkans. Fm Res.	Arkansas Farm Research	U.S.A.
Artic. Agric. Econ.	Articles on Agricultural Economics	U.K.
Aslib Booklist	Aslib Booklist	U.K.
Ass. Agric. J.	Association of Agriculture Journal	U.K.
Auk	Auk	U.S.A.
Aust. J. agric. Res.	Australian Journal of Agricultural Research	Australia
Aust. J. biol. Sci.	Australian Journal of Biological Sciences	Australia
Aust. J. Bot.	Australian Journal of Botany	Australia
Aust. J. exper. Agric.	Australian Journal of Experimental Agriculture and	Australia
Anim. Husb.	Animal Husbandry	
Aust. J. Soil Res.	Australian Journal of Soil Research	Australia
Aust. J. Zool.	Australian Journal of Zoology	Australia
Avian Dis.	Avian Diseases	U.S.A.
Avicoltura	Avicoltura	Italy
B.A.S.I.C.	B.A.S.I.C. (Biological Abstracts Information Dissemination Service)	U.S.A.
Baileya	Baileya	U.S.A.
Baum. Prax.	Baumschul Praxis	Germany
Bee Craft	Bee Craft	U.K.
Bee Wld	Bee World	U.K.
Beef Sheep Fmg	Beef and Sheep Farming	U.K.
Beekeep. Bull.	Beekeepers' Bulletin	Australia
Behaviour	Behaviour: an International Journal of Comparative Ethology	Holland
Belg. lait.	La Belgique laitière	Belgium
Ber. Oha. Inst. landw. Biol.	Berichte des O'hara Instituts für Landwirtschaftliche Biologie Okayama Universität	Japan
Bett. Fruit bett. Veg.	Better Fruit, Better Vegetables	U.S.A.
Betteravier fr.	Betteravier français	France
Biatas	Biatas	Eire
Biblfia agric. Latinoam.	Bibliografia Agricola Latinoamericana	Costa Rica
Biblfia argent. Agron. Vet	Bibliografia Argentina de Agronomía y Veterinaria	Argentina
Biblfia Hist. Rer. rust. Int.	Bibliographia Historiae Rerum Rusticarum Internationalis	Hungary
Biblfie agric. cour. Roum.	Bibliographie Agricole Courante Roumaine	Rumania
Biblfie Pflschutzzit.	Bibliographie der Pflanzenschutz Literatur	Germany
Biblfy Agric., Wash.	Bibliography of Agriculture	U.S.A.
Biblfy Helminth	Bibliography of Helminthology	U.K.
Biblfy Index Geol.	Bibliography and Index of Geology exclusive of North America	U.S.A.
Biblfy Irrig.	Bibliography on Irrigation, Drainage, River Training and Flood Control.	India
Biblfy Reproduc.	Bibliography of Reproduction	U.K.

Biblyphy system. Mycol.	Bibliography of Systematic Mycology	U.K.
Big Frm Mgmt	Big Farm Management	U.K.
Bi-m. Rev. scient. Publs.	Bi-monthly Review of Scientific Publications Polish Academy of Sciences.	Poland
Pol. Acad. Sci.		
Biochem. J.	Biochemical Journal	U.K.
Biokemia	Biokemia	U.S.A.
Biol. Abstr.	Biological Abstracts	U.S.A.
Biol. agric. Index	Biological and Agricultural Index	U.S.A.
Biol. Chem. Vyz. Zvir	Biologizace a Chemizace Výživy Zvirat	Czechoslovakia
Biol. Conserv.	Biological Conservation	U.K.
Biol. Index	Biological Index	U.S.A.
Biol. J. Linn. Soc.	Biological Journal of the Linnean Society	U.K.
Biol. Reproduc.	Biology of Reproduction	U.K.
Biol. Rev.	Biological Reviews of the Cambridge Philosophical Society	U.K.
Biology hum. Affairs	Biology and Human Affairs	U.K.
Biometrics	Biometrics	U.S.A.
BioScience	BioScience	U.S.A.
Birds	Birds	U.K.
Bodenkultur	Die Bodenkultur	Austria
Bol. biblico agric. Madrid	Boletin Bibliografico Agricola	Spain
Bol. Biblico Agric.	Boletin Bibliografico Agricola	Costa Rica
Turrialba		
Bol. biblico Esc. nac.	Boletin Bibliografico de la Escuela Nacional de Ciencias Biologicas	Mexico
Cien. biol.		
Bol. genet. Inst. Fitotec.	Boletin Genetico Instituto de Fitotecnica, Castelar	Argentina
Castelar		
Bol. tec. Est. exp., Paysandu	Boletin Tecnico Estacion Experimental "Dr. Mario A. Cassinoni"	Uruguay
Boron Agric.	Baron in Agriculture: a Quarterly Bulletin of Abstracts	U.K.
Bot. Abstr.	Botanical Abstracts	U.S.A.
Bot. J. Linn. Soc.	Botanical Journal of the Linnean Society	U.K.
Bot. Rev.	Botanical Review	U.S.A.
Br. Bee J.	British Bee Journal	U.K.
Br. Fmr Stk Breed.	British Farmer and Stockbreeder	U.K.
Br. Insectic. Fungic. Conf.	British Insecticide and Fungicide Conference	U.K.
Br. J. Nutr.	British Journal of Nutrition	U.K.
Br. Pat. Abstr.	British Patents Abstracts	U.K.
Br. Poult. Sci.	British Poultry Science	U.K.
Br. Sug Beet Rev.	British Sugar Beet Review	U.K.
Br. Tractors Fm Mach.	British Tractors and Farm Machinery	U.K.
Br. vet. J.	British Veterinary Journal	U.K.
Broomhall's Corn Trade News.	Broomhall's Corn Trade News	U.K.
Broomhall's Corn Trade Yb.	Broomhall's Corn Trade yearbook	U.K.
Bull. bibliquique C.N.E.E.M.A.	Bulletin bibliographique, Centre National d'Etudes et d'Experimentation de Machinisme Agricole	France
Bull. Br. Mus. Nat. Hist.	Bulletin of the British Museum (Natural History)	U.K.
Bull. Br. mycol Soc.	Bulletin of the British Mycological Society	U.K.
Bull. ent. Res.	Bulletin of Entomological Research	U.K.
Bull. envir. Contam. Toxic.	Bulletin of Environmental Contamination and Toxicology	U.S.A.
Bull. Inf. C.N.E.E.M.A.	Bulletin d'Information Centre National d'Etudes et d'Experimentation de Machinisme Agricole	France

Bull. Inf. Inst. Belge Amélior. Bett.	Bulletin d'Information. Institut Belge pour l'Amélioration de la Betterave	Belgium
Bull. land. Inform. Mitglied. R.G.W.	Bulletin der Landwirtschaftlichen Informationszentren der Mitgliederstaaten des R.G.W.	Czechoslovakia
Bull. Rech. agro. Gembloux	Bulletin des Recherches Agronomiques de Gembloux	Belgium
Bull. sci. Yougosl.- Section A	Bulletin Scientifique. Section A. Sciences Naturelles, Techniques et Médicales	Yugoslavia
Bull. sig. 18 Sci. Agric. Paris	Bulletin Signalétique 18. Sciences Agricoles	France
Bull. sig. Vers.	Bulletin Signalétique	France
C.R. Acad. Sci. agric. Bulg.	Comptes Rendus de l'Académie des Sciences Agricoles en Bulgarie	Bulgaria
C.S.I.R.O. Wildl. Res.	C.S.I.R.O. Wildlife Research	Australia
C.T.I.F.L. Doc.	C.T.I.F.L. Documents	France
Cacao, Turrialba	Cacao	Costa Rica
Café, Lima	Café	Peru
California Agric.	Californian Agriculture	U.S.A.
California Fish Game	California Fish and Game	U.S.A.
Can. Agric.	Canada Agriculture	Canada
Can. agric. Engng.	Canadian Agricultural Engineering	Canada
Can. Florist	Canadian Florist — Greenhouse and Nursery	Canada
Can. Fm Econ.	Canadian Farm Economics	Canada
Can. Insect. Pest Rev.	Canadian Insect Pest Review	Canada
Can. J. Agric. Econ.	Canadian Journal of Agricultural Economics	Canada
Can. J. Anim. Sci.	Canadian Journal of Animal Science	Canada
Can. J. Biochem.	Canadian Journal of Biochemistry	Canada
Can. J. Biochem. Physiol.	Canadian Journal of Biochemistry and Physiology	Canada
Can. J. Microbiol.	Canadian Journal of Microbiology	Canada
Can. J. Pl. Sci.	Canadian Journal of Plant Science	Canada
Can. J. Soil Sci.	Canadian Journal of Soil Science	Canada
Can. Pat. Off. Rec.	Canadian Patent Office Record	Canada
Can. Wool Grow. Sheep Breed.	Canadian Wool Grower and Sheep Breeder	Canada
Cent. Pat. Index	Central Patents Index	U.K.
Cereal Chem.	Cereal Chemistry	U.S.A.
Cereal Sci. Today	Cereal Science Today	U.S.A.
Ceres, Lond.	Ceres	U.K.
Ceres, Rome	Ceres F.A.O. Review	Italy
Ceylon Cocon. Plrs. Rev.	Ceylon Coconut Planters Review	Ceylon
Ceylon Cocon. Q.	Ceylon Coconut Quarterly	Ceylon
Chart. Surv.	Chartered Surveyor	U.K.
Chem. Abstr. — Biochem. Sect.	Chemical Abstracts — Biochemical Section	U.S.A.
Chemurg. Dig.	Chemurgic Digest	U.S.A.
Chemy Ind.	Chemistry and Industry	U.K.
Chron. Hortic.	Chronica Horticulturae	Holland
Clemson Univ. agric. Res.	Clemson University Agricultural Research	U.S.A.
Clinica vet., Milano	La Clinica Veterinaria	Italy
Cocoa Statist.	Cocoa Statistics	Italy
Cocon. Situ.	Coconut Situation	Italy
Colo. Flow. Grow. Ass. Bull.	Colorado Flower Growers Association Bulletin	U.S.A.
Comm. Grow.	Commercial Grower	U.K.
Commonwealth phytopath. News	Commonwealth Phytopathological News	U.K.
Commun. Soil Sci. Pl. Analysis	Communications in Soil Science and Plant Analysis	U.S.A.

Comp. Biochem. Physiol.	Comparative Biochemistry and Physiology	U.K.
Compost Sci.	Compost Science	U.S.A.
Coniglicoltura	Coniglicoltura	Italy
Construc. rur. Bull. doc.	Constructions rurales Bulletin Documentaire	France
Contemp. Agric.	Contemporary Agriculture	Yugoslavia
Contr. Boyce Thompson Inst.	Contributions from the Boyce Thompson Institute	U.S.A.
Pl. Res.		
Co-op. econ. Insect Rep.	Co-operative Economic Insect Report	U.S.A.
Cott. Grow. Rev.	Cotton Growing Review	U.K.
Countryman, Idbury	Countryman	U.K.
Crop. Sci.	Crop Science	U.S.A.
Crops Soils	Crops and Soils	U.S.A.
Ctry Guide	Country Guide — the Farm Magazine	Canada
Curr. Cont. Agric. Food vet. Sci.	Current Contents Agricultural, Food and Veterinary Sciences	U.S.A.
Curr. Cont. Life Sci.	Current Contents Life Sciences	U.S.A.
Curr. Iod. Lit.	Current Iodine Literature	U.K.
Currs. mod. Biol.	Currents in Modern Biology	Holland
Daffodil Tulip Yb.	Daffodil and Tulip Year Book	U.K.
Dairy Fmr, Ipswich	Dairy Farmer and Dairy—Beef Produced	U.K.
Dairy Prod., Lond.	Dairy Produce	U.K.
Dairy Sci. Abstr.	Dairy Science Abstracts	U.K.
Dairyfmg Dig.	Dairyfarming Digest	Australia
Dansk bot. Ark.	Dansk Botanisk Arkiv	Denmark
Descrn. path. Fungi. Bact.	Description of Pathogenic Fungi and Bacteria	U.K.
Descrn. Pl. Viruses	Descriptions of Plant Viruses	U.K.
Diss. Abstr.	Dissertation Abstracts	U.S.A.
Distrib. Maps Insect Pest.	Distribution Maps of Insect Pests	U.K.
Distrib. Maps Pl. Dis.	Distribution Maps of Plant Diseases	U.K.
Doane's agric. Rep.	Doane's Agricultural Report	U.S.A.
Doc. E. Europ. agric. Lit.	Documentation East-European Agricultural Literature	Holland
Doc. teh.	Documentare Tehnica	Rumania
E. Afr. agric. For. J.	East African Agricultural and Forestry Journal	Kenya
Ecol. Monogr.	Ecological Monographs	U.S.A.
Ecologist	Ecologist	U.K.
Ecology	Ecology	U.S.A.
Electronic Industr.	Electronic Industries and Tele-Tech	U.S.A.
Emp. Cott. Grow. Rev.	Empire Cotton Growing Review	U.K.
Endeavour	Endeavour	U.K.
Engng Res. Dev. Agric.	Engineering Research and Development in Agriculture	Canada
Ent. Abstr.	Entomology Abstracts	U.K.
Entomologia exp. appl.	Entomologia Experimentalis et Applicata	Holland
Entomologists' Gaz.	Entomologists' Gazette	U.K.
Entomologists' mon. Mag.	Entomologists' Monthly Magazine	U.K.
Equine vet. J.	Equine Veterinary Journal	U.K.
Esso Fmr	Esso Farmer	U.K.
Euphytica	Euphytica	Holland
Eur. J. Biochem.	European Journal of Biochemistry	Germany
Eur. Potato J.	European Potato Journal	Holland
Evolution, Lawrence, Kans	Evolution: International Journal of Organic Evolution	U.S.A.
Expl. Agric.	Experimental Agriculture	U.K.
Expl. Hort.	Experimental Horticulture	U.K.
Expl. Hush.	Experimental Husbandry	U.K.

Ext. Serv. Rev. U.S. Dep. Agric.	Extension Service Review U.S. Department of Agriculture	U.S.A.
F.A.O. Commod. Bull. Ser.	F.A.O. Commodity Bulletin Series	Italy
F.A.O. Commod. Rev.	F.A.O. Commodity Review	Italy
F.A.O. Doc.	F.A.O. Documentation	Italy
F.A.O. Doc. Curr. Ind.	F.A.O. Documentation Current Index	Italy
F.A.O. Rev.	F.A.O. Review	Italy
F.E.B.S. Letters	F.E.B.S. Letters	Holland
Farmbuildings	Farmbuildings	U.K.
Farmer, Kingston, Jam.	Farmer	Jamaica
Fd Res. Inst. Stud. Stanford Univ.	Food Research Institute Studies Stanford University	U.S.A.
Feed For.	Feed Forum	U.K.
Feedstuffs	Feedstuffs	U.S.A.
Fertil. Abstr.	Fertilizer Abstracts	U.S.A.
Fertil. Feed. Pestic. J.	Fertiliser Feed and Pesticide Journal	U.K.
Fertil. Int.	Fertilizer International	U.K.
Fertil. News	Fertiliser News	India
Fertil. Sol.	Fertilizer Solutions	U.S.A.
Fisons agric. tech. Inf.	Fisons Agricultural Technical Information	U.K.
Fisons Fertil. agric. News	Fisons Fertiliser and Agricultural News	U.K.
Fixed Equip. Fm Leaf.	Fixed Equipment on the Farm Leaflets	U.K.
Fld Crop Abstr.	Field Crop Abstracts	U.K.
Fld Stud.	Field Studies	U.K.
Fm Bldgs. Ass. J.	Farm Buildings Association Journal	U.K.
Fm Bldgs. Dig.	Farm Buildings Digest	U.K.
Fm Business	Farm Business	U.K.
Fm Chemicals	Farm Chemicals	U.S.A.
Fm Ctry	Farm and Country	U.K.
Fm Economist, Oxford	Farm Economist	U.K.
Fm Engng. Industry	Farm Engineering Industry	U.K.
Fm Inc. Costs. Man.	Farm Incomes Cost and Management	U.K.
Fm Inc. Engl. Wales	Farm Incomes in England and Wales	U.K.
Fm Index	Farm Index	U.S.A.
Fm Mach. Des. Engng	Farm Machine Design Engineering	U.K.
Fm Mgmt	Farm Management	U.K.
Fm Mgmt Notes Asia Far East	Farm Management Notes for Asia and the Far East	Thailand
Fm Mgmt Notes Univ. Nott.	Farm Management Notes University of Nottingham	U.K.
Fm Res. News	Department of Agricultural Economics	Eire
Fmg News	Farm Research News	U.K.
Fmg Pract.	Farming News	U.K.
Fmg S. Afr.	Farming Practice	U.K.
Fmg Wld.	Farming in South Africa	South Africa
Fmr & Stk. Breed.	Farming World	U.K.
Fmr & Stk. Breed. Yb.	Farmer and Stock Breeder	U.K.
Fmr's Dig., Fort Atkinson	Farmer and Stock-Breeder Yearbook and Desk Diary	U.K.
Fmr's Wkly, Bloemfontein	Farmer's Digest	U.S.A.
Fmr's Weekly, Lond.	Farmer's Weekly	South Africa
Folia biol., Praha	Farmer's Weekly	U.K.
Food Sci. Tech. Abstr.	Folia Biologica	Czechoslovakia
Foot Mouth Dis. Bull.	Food Science and Technology Abstracts	U.K.
For. Abstr.	Foot and Mouth Disease Bulletin	U.K.
Forage Notes	Forestry Abstracts	U.K.
	Forage Notes	Canada

Foreign Agric.	Foreign Agriculture	U.S.A.
Forest Sci.	Forest Science	U.S.A.
Forthcoming int. scient. tech. Conf.	Forthcoming International Scientific and Technical Conferences	U.K.
Fortschr. Landw.	Der Fortschrittliche Landwirt	Austria
Front. Pl. Sci.	Frontiers of Plant Science	U.S.A.
Fruit Annual	Fruit Annual	U.K.
Fruit Flow. Veg. Trades J.	Fruit, Flower and Vegetable Trades Journal	U.K.
Fruit, Lond.	Fruit (Commonwealth Secretariat)	U.K.
Fruit Prod.	Fruit and Produce	New Zealand
Fruit Trade J. Yb. Diary	Fruit Trade Journal Year Book and Diary	U.K.
Fruit Veg. Crop Pros.	Fruit and Vegetable Crop Prospects	France
Frutticoltura	Frutticoltura	Italy
Ga. agric. Res.	Georgia Agricultural Research	U.S.A.
Gdnrs' Chron.	Gardeners' Chronicle	U.K.
Genet. Abstr.	Genetics Abstracts	U.K.
Genet. agrar.	Genetica Agraria	Italy
Genet. Pol.	Genetica Polonica	Poland
Genet. Res.	Genetical Research	U.K.
Genet. Selekt.	Genetika i Seleksiya	Bulgaria
Genetica	Genetica	Holland
Genetics, Princeton	Genetics	U.S.A.
Genio rur.	Genio Rurale	Italy
Geocom Bull.	Geocom Bulletin	U.K.
Geoderma	Geoderma	Holland
Geoscience Documn	Geoscience Documentation	U.K.
Geotitles Wkly	Geotitles Weekly	U.K.
Germ Pat. Abstr.	German Patents Abstracts	U.K.
Gesunde Pfl.	Gesunde Pflanzen	Germany
Ghana J. agric. Sci.	Ghana Journal of Agricultural Science	Ghana
Gids Groent. Fruit Glas.	Gids voor Groenteen Fruitteelt onder Glas	Holland
Gld. agric. Journalists Yb.	Guild of Agricultural Journalists Yearbook	U.K.
Grain Bull.	Grain Bulletin	U.K.
Grain Crops	Grain Crops	U.K.
Grower	Grower	U.K.
Grower Ann. (and Res. Dig.)	Grower Annual (and Research Digest)	U.K.
Grower Talks	Grower Talks	U.S.A.
Grundförbättring	Grundförbättring	Sweden
Hawaii Fm. Sci.	Hawaii Farm Science	U.S.A.
Helminth. Abstr.	Helminthological Abstracts	U.K.
Herb. Abstr.	Herbage Abstracts	U.K.
Herbivaria	Herbivaria	U.K.
Heredity, Lond.	Heredity	U.K.
Highlts. agric. Res.	Highlights of Agricultural Research	U.S.A.
Hilgardia	Hilgardia	U.S.A.
Hlth. Asp. Pestic. Abstr. Bull.	Health Aspects of Pesticides Abstract Bulletin	U.S.A.
Hopf. Rdsch.	Hopfen Rundschau	Germany
Hormel Fmr	Hormel Farmer	U.S.A.
Hort. Abstr.	Horticultural Abstracts	U.K.
Hort. Res.	Horticultural Research	U.K.
Hort. Sci.	Hort. Science	U.S.A.
Horticulture, Boston	Horticulture	U.S.A.
Hung. agric. Rev.	Hungarian Agricultural Review	Hungary

I.I.R.B.	I.I.R.B.	Belgium
I.U.C.N. Bull.	I.U.C.N. Bulletin	Switzerland
Ikon. Sel. Stopan.	Ikonomika na Selskoto Stopanstvo	Bulgaria
Illinois Res.	Illinois Research	U.S.A.
Impl. Tract.	Implement and Tractor	U.S.A.
Ind. Fibres	Industrial Fibres	U.K.
Index Conf. Proc. N.L.L.	Index of Conference Proceedings Received by the N.L.L.	U.K.
Index Fungi	Index of Fungi	U.K.
Index Res. M.L.C.	Index of Research supported by M.L.C. (Meat and Livestock Commission)	U.K.
Indian Fmg.	Indian Farming	India
Indian Hort.	Indian Horticulture	India
Indian J. agric. Econ.	Indian Journal of Agricultural Economics	India
Indian J. agric. Sci.	Indian Journal of Agricultural Science	India
Indian J. expl. Biol.	Indian Journal of Experimental Biology	India
Indian J. vet. Sci.	Indian Journal of Veterinary Science and Animal Husbandry	India
Int. Abstr. biol. Sci.	International Abstracts of Biological Sciences	U.K.
Int. Ass.	International Associations	Belgium
Int. Fruit Wld.	International Fruit World	Switzerland
Int. J. agr. Aff.	International Journal of Agrarian Affairs.	U.K.
Int. J. Bioclim. Biomet.	International Journal of Bioclimatology and Biometeorology	Holland
Int. J. Biomet.	International Journal of Biometeorology	Holland
Int. J. Fm Bldg Res.	International Journal of Farm Building Research	U.K.
Int. J. syst. Bact.	International Journal of Systematic Bacteriology	U.S.A.
Int. Pest Control	International Pest Control	U.K.
Int. Rev. For. Res.	International Review of Forestry Research	U.S.A.
Int. Rice Commn. Newsl.	International Rice Commission Newsletter	Thailand
Int. Sug. J.	International Sugar Journal	U.K.
Inten. Agric.	Intensive Agriculture	India
Iowa Fm Sci.	Iowa Farm Science	U.S.A.
Ir. J. agric. Econ. rur. Sociol.	Irish Journal of Agricultural Economics and Rural Sociology	Eire
Ir. J. agric. Res.	Irish Journal of Agricultural Research	Eire
Irindoc. Sci. soc. Sci. Abstr. Bull.	Irindoc Science and Social Science Abstract Bulletin	Iran
Irrigazione	L'Irrigazione	Italy
Isotopes Rayon Agric.	Isotopes, Rayonnements, Agriculture Bulletin Bibliographique Mensuel	France
Israel J. Bot.	Israel Journal of Botany	Israel
Israel J. Zool.	Israel Journal of Zoology	Israel
Italia Agric.	L'Italia Agricola	Italy
J. agric. Econ.	Journal of Agricultural Economics	U.K.
J. agric. Fd Chem.	Journal of Agricultural and Food Chemistry	U.S.A.
J. agric. Engng. Res.	Journal of Agricultural Engineering Research	U.K.
J. Agric. S. Aust.	Journal of Agriculture South Australia	Australia
J. agric. Sci. Camb.	Journal of Agricultural Science	U.K.
J. Agric. Univ. P. Rico	Journal of Agriculture. University of Puerto Rico	Puerto Rico
J. Agric. Vict. Dep. Agric.	Journal of Agriculture. Victorian Department of Agriculture.	Australia
J. Agric. West. Aust.	Journal of Agriculture Western Australia	Australia
J. Am. Soc. hort. Sci.	Journal of the American Society for Horticultural Science	U.S.A.

J. Am. Soc. Sug. Beet Technol.	Journal of the American Society of Sugar Beet Technologists	U.S.A.
J. Anim. Ecol.	Journal of Animal Ecology	U.K.
J. Anim. Sci.	Journal of Animal Science	U.S.A.
J. apicult. Res.	Journal of Apicultural Research	U.K.
J. appl. Bact.	Journal of Applied Bacteriology	U.K.
J. appl. Ecol.	Journal of Applied Ecology	U.K.
J. Ass. Green Crop Driers	Journal of the Association of Green Crop Driers	U.K.
J. Ass. off. analyt. Chem.	Journal of the Association of Official Analytical Chemists	U.S.A.
J. Aust. Inst. Agric.	Journal of the Australian Institute of Agriculture	Australia
J. Bot. U.A.R.	Journal of Botany of the United Arab Republic	United Arab Republic
J. Br., Dairy Fmrs' Ass.	Journal of the Royal Association of British Dairy Farmers	U.K.
J. Br. Grassld Soc.	Journal of the British Grassland Society	U.K.
J. chem. Docum.	Journal of Chemical Documentation	U.S.A.
J. Dairy Res.	Journal of Dairy Research	U.K.
J. Dairy Sci.	Journal of Dairy Science	U.S.A.
J. Dep. Agric. Repub. Ire.	Journal of the Department of Agriculture and Fisheries Republic of Ireland	Eire
J. Ecol.	Journal of Ecology	U.K.
J. econ. Ent.	Journal of Economic Entomology	U.S.A.
J. econ. Lit.	Journal of Economic Lit.	U.S.A.
J. Ent. A. Gen.	Journal of Entomology. A General	U.K.
J. Ent. B. Taxonomy	Journal of Entomology. B Taxonomy	U.K.
J. exp. Biol.	Journal of Experimental Biology	U.K.
J. exp. Bot.	Journal of Experimental Botany	U.K.
J. Fm Econ.	Journal of Farm Economics	U.S.A.
J. Fmrs' Club	Journal of the Farmers' Club	U.K.
J. For. Commn	Journal of the Forestry Commission	U.K.
J. gen. appl. Microbiol. Tokyo	Journal of General and Applied Microbiology	Japan
J. gen. Microbiol.	Journal of General Microbiology	U.K.
J. gen. Virol.	Journal of General Virology	U.K.
J. Genet	Journal of Genetics	India
J. Helminth.	Journal of Helminthology	U.K.
J. hort. Sci.	Journal of Horticultural Science	U.K.
J. Hist. Biol.	Journal of the History of Biology	U.S.A.
J. Hyg., Camb.	Journal of Hygiene	U.K.
J. Insect Path.	Journal of Insect Pathology	U.S.A.
J. Insect Physiol.	Journal of Insect Physiology	U.K.
J. invert. Path.	Journal of Invertebrate Pathology	U.S.A.
J. King's Coll. agric. Soc. Newcastle	Journal of King's College Agricultural Society	U.K.
J. Milk Fd Technol.	Journal of Milk and Food Technology	U.S.A.
J. natn. Inst. agric. Bot.	Journal of the National Institute of Agricultural Botany	U.K.
J. Nema.	Journal of Nematology	U.S.A.
J. Proc. Instn agric. Engrs	Journal and Proceedings of the Institution of Agricultural Engineers	U.K.
J. Reprod. Fert.	Journal of Reproduction and Fertility	U.K.
J. Roy. Soc. Arts	Journal of the Royal Society for the Encouragement of the Arts	U.K.
J. Sci. Fd Agric.	Journal of the Science of Food and Agriculture	U.K.
J. Soc. Dairy Technol.	Journal of the Society of Dairy Technology	U.K.
J. Soil Ass.	Journal of the Soil Association	U.K.
J. Soil Conserv. Serv.	Journal of the Soil Conservation Service	Australia

J. Soil Sci.	Journal of Soil Science	U.K.
J. Univ. Newcastle upon Tyne agric. Soc.	Journal of the University of Newcastle upon Tyne Agricultural Society	U.K.
Jl. R. Agric. Soc.	Journal of the Royal Agricultural Society of England	U.K.
Jl. R. hort. Soc.	Journal of the Royal Horticultural Society	U.K.
Jl. R. statist. Soc.	Journal of the Royal Statistical Society	U.K.
Kew Bull.	Kew Bulletin	U.K.
Key Turk. Sci-Agric.	Key to Turkish Science—Agriculture	Turkey
Key Turk. Sci-Vet. Anim. Sci.	Key to Turkish Science—Veterinary and Animal Sciences	Turkey
Kniž. Dokument. Zpravodaj	Knižní a Dokumentační Zpravodaj. (Library and Documentation Bulletin)	Czechoslovakia
Kühn Archiv	Kühn Archiv	Germany
Land Econ.	Land Economics	U.S.A.
Land Ref. Land Settlement Coop.	Land Reform Land Settlement and Cooperatives	Italy
Landw. Bauwesen	Landwirtschaftliches Bauwesen	Germany
Landw. Inf. Öst. Prod. Zent.	Landwirtschaftliche Informationen des Österreichischen Produktivitäts-Zentrums	Austria
Landw. Zentbl.	Landwirtschaftliches Zentralblatt	Germany
Lantbr—Högs. Annlr.	Lantbrukshögskolans Annaler	Sweden
Lily Yb., Lond.	Lily Yearbook	U.K.
List Bks U.S.S.R., N.L.L.	List of Books received from the U.S.S.R. and Translated Books	U.K.
Livest. Nutr. Inf.	Livestock Nutrition Information	U.K.
Lond. Corn Circ.	London Corn Circular	U.K.
M.G.A. Bull.	M.G.A. Bulletin	U.K.
Maataloust. Aikakausk.	Maataloustieteellinen Aikakauskirja	Finland
Macch. Mot. agric.	Macchine & Motori Agricoli	Italy
Malays. agric. J.	Malaysian Agricultural Journal	Malaya
Mallee hort. Dig.	Mallee Horticultural Digest	Australia
Manx J. Agric.	Manx Journal of Agriculture	Isle of Man
Mb. Öst. Landw.	Monatsberichte über die Österreichische Landwirtschaft	Austria
Meat Dairy Prod. Bull.	Meat and Dairy Produce Bulletin	U.K.
Meat Livestk Comm. Intl. Abstr.	Meat and Livestock Commission Economic Information Service International Abstracts	U.K.
Meat, London	Meat (Commonwealth Secretariat)	U.K.
Mechaniz. agrar.	Mechanization Agraria	Spain
Mechaniz. Leaflet	Mechanization Leaflets for Farmers and Growers	U.K.
Meded. Fac. Landbwet. Rijksuniv. Gent	Mededelingen van de Faculteit Landbouwwetenschappen Rijksuniversiteit Gent	Belgium
Meded. LandbHoogesch. Opzoekstns. Gent.	Mededelingen van de Landbouwhogeschool en de Opzoekingsstations van de Staat te Gent	Belgium
Meded. LandbHoogesch. Wageningen	Mededelingen Landbouwhogeschool Wageningen	Holland
Meded. Rijksfac. Landbwet. Gent.	Mededelingen van de Rijksfaculteit Landbouwwetenschappen te Gent	Belgium
Mediterranea	Mediterranea	France
Melanderia	Melanderia	U.S.A.
Meld. Norg. Landbr. Høisk.	Meldinger fra Norges Landbrukshøgskole	Norway
Memoirs ent. Soc. Quebec	Memoirs of the Entomological Society of Quebec	Canada
Met. geostrophys. Abstr.	Meteorological and Geostrophysical Abstracts	U.S.A.