AGENCY FOR INTERNATIONAL DEVELOPMENT
WASHINGTON, D. C. 20523

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Provides a worldwide listing of research literature on chickpea, an increasingly important grain legume. The 3146 titles comprise research years 1930-1974 as well as all traceable earlier literature. The research listed covers 22 languages; all titles are presented in the English translation only. The citations are prefaced with a comple list of the periodical abbreviations used in the bibliography, along wi the language and country of publication. Citations are classified by general field (i.e., taxonomy, physiology, genetics). A more complete subject index is also provided, as are author and geographic indexes.

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CHICKPEA BIBLIOGRAPHY

1930 TO 1974

CHICKPEA BIBLIOGRAPHY

1930 TO 1974

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PLANT BREEDER (CHICKPEA)

AND

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1977

Preface

With an increased emphasis on research on the important grain legume crop of chickpea, there is a need for a comprehensive listing of chickpea literature. Bibliographies prepared by the ICAR (1960), Regional Pulse Improvement Project of USDA (1966-1970), and L.J.G. van der Maesen (1972) have been the basic resource works on chickpea; this effort was undertaken to update the available bibliographic works and to provide wider coverage of the world literature.

Assistance was obtained from the U.S.D.A. Library, Commonwealth Bureau of Plant Breeding, Indian Agricultural Research Institute, Publications and Information Directorate (Wealth of India Section), Council of Scientific and Industrial Research (New Delhi), and the ICRISAT Library in compiling and checking the references. This bibliography covers the years 1930 - 1974. Also included is all traceable literature prior to this period.

The coverage includes 22 languages. Foreign titles are presented only in the English translation. Where titles are of common knowledge in a particular field, the original language was kept in order to avoid confusion, for example some taxonomical works in Latin. A complete list of all languages used has been given at the end. A list of periodical abbreviations along with language and country of publication precedes the bibliography for identification of periodicals used in the citations. The World List of Scientific Periodicals, Fourth Edition, Butterworths, London, was used extensively while preparing the periodical abbreviations.

The table of contents lists the classifications of the entries. Numbering is consecutive beginning with entry 1. Author, subject, and geographic indexes provide a convenient approach to the entries. Scientific names are used for weeds, insects and diseases; there are cross references with common names, wherever possible.

Grateful acknowledgement is made to Drs. R.W. Cummings and L.D. Swindale, Director (retired) and Director respectively, Dr.J.S. Kanwar, Associate Director, Dr. J.M. Green, Leader, Pulse Improvement Program, and Mr. G.D. Bengtson, Editor. We are thankful to the concerned Librarians for assistance in the preparation of this bibliography. The authors are also grateful to Messrs D.S. Sarma and S.V.K. Parthasarathy for assistance in sorting out some references and preparing indexes and to Mr. A.J. Rama Rao for typing the manuscript.

K.B. Singh
L.J.G. van der Maesen

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List of Abbreviations

Abstr. Bulgar. Sci. Lit. (Bulgaria)
Abstracts of Bulgarian Scientific Literature

Abstr. in Phytopathology (U.S.A.)
Abstracts in Phytopathology

Abstr. Pap. Agric. For. Sect., Pakistan Sci. Conf. (Pakistan)
Abstracts, Papers of the Agriculture & Forest Section, Pakistan Science Conference

Acad. Agric. Sci., Coimbatore (India)
Academy of Agricultural Science, Coimbatore

Acad. Rep. Populare Romine, Studii Cercetari Biochim. (Romania)
Academia Republicii Populare Romine, Institutul de Biochemie, Studii si Cercetari de Biochimie

Acad. Sci. Hung. (Hungary)
Academia Scientiarum Hungariae

Acad. Sci. (Paris) C.R. Ser. D. (France)
Académie des Sciences (Paris) Comptes Rendus Série D.

Acta Biochim. Biophys.
Acta Biochimica et Biophysica

Acta Biol. Iugosl. Genetika. (Yugoslavia)
Acta Biologica Iugoslavica Genetica

Acta Hort. Petrop. (U.S.S.R.)
Acta Horto Petropolitani

Acta Inst. bot. Acad. Sci. URSS. (U.S.S.R.)
Acta Instituti botanici Academia Scientiarum URSS.

Acta Phytotaxon. Geobot. (Japan)
Acta Phytotaxonomica et Geobotanica

Acta Phytother. (Netherlands)
Acta Phytotherapeutica

Actas Trabajos Congr. Peruano Quim.,3°, 1949 (Peru)
Actas y Trabajos del Congreso Peruano de Quimica, 3°, 1949

Adm. Rep. Dir. Agric., Ceylon
Administration Report, Director of Agriculture, Ceylon

Advan. Virus Res. (U.S.A.)
Advances in Virus Research

Afinidad (Spain)
Afinidad

Ager, Madr. (Spain)
Ager, Madrid

Agr. Biol. Chem. (Japan)
Agricultural and Biological Chemistry

Agr. Exp. Sta. La Molina, Lima, Peru
Agricultural Experiment Station La Molina, Lima, Peru

Agr. Gaz. N.S. Wales (Australia)
Agricultural Gazette of New South Wales

Agr. Inform. Punjab Agr. Univ. (India)
Agricultural Information Punjab Agricultural University

Agr. J. (India)
Agricultural Journal

Agr. Res. Ind. Counc. Agr. Res. (India)
Agricultural Research, Indian Council of Agricultural Research

Agr. Res. Inst., Pusa. (India)
Agricultural Research Institute, Pusa

Agr. Res. J. Kerala (India)
Agricultural Research Journal, Kerala

Agr. Res. Rep.
Agricultural Research Report

Agr. Ser.
Agricultural Series

Agr. Situat. India
Agricultural Situation in India

Agr. tec. (Chile)
Agricultura tecnica

Agr. Téc. Mex. (Mexico)
Agricultura Tecnica en Mexico

Agra Univ. J. Res. Sci. (India)
Agra University Journal of Research Science

Agric. Anim. Husb., India
Agriculture and Animal Husbandry, India

Agric. Anim. Husb. Uttar Pradesh. (India)
Agriculture and Animal Husbandry, Uttar Pradesh

Agric. Ganad. (Chile)
Agricultura y Ganaderia

Agric. India, Bot. Ser. (India)
Agriculture in India, Botanical Series

Agric. Lve-Stk. India
Agriculture and Livestock in India

Agric. Pakistan
Agriculture, Pakistan

Agricultura (Spain)
Agricultura

Agrociencia (Mexico)
Agrociencia

Agrokhimiya (U.S.S.R.)
Agrokhimiya

Agron. Abstr. Madison (U.S.A.)
Agronomy Abstracts, Madison

Agron. J. (U.S.A.)
Agronomy Journal

Agron. Lusit. (Portugal)
Agronomia Lusitania

Agronomia, Habana (Cuba)
Agronomia, Habana

Agronomico, Sao Paulo (Brazil)
Agronomico, Sao Paulo

AICRPP (India)
All India Coordinated Research Project on Pulses

Akad. Sel'sk-khoz. Nauki
Akademia Sel'skokhozyaistvennaya Nauki

Allahabad Fmr (India)
Allahabad Farmer

Am. J. Bot.
American Journal of Botany

Am. J. Clin. Nutr.
American Journal of Clinical Nutrition

Am. Phytopathol. Soc. Monogr.
American Phytopathological Society Monograph

An. Acad. Bras. Cienc. (Brazil)
Anais da Academia Brasileira de Ciencias

An. Bromatol. (Madrid) (Spain)
Anales de Bromatologia (Madrid)

An. Edafol. Fisiol. veg. (Spain)
Anales de Edafologia y Fisiologia vegetal

An. Inst. Bot. A.J. Cavanilles (Spain)
Anales del Instituto Botanico A.J. Cavanilles

An. Inst. Nac. Invest. Agron., Madr. (Spain)
Anales Instituto Nacional de Investigaciones Agronomicas., Madrid

Anal. Inst. Cerc. agron. (Romania)
Analele Institutului de Cercetari agronomice Academia Republicii Populare Romine

Anal. Inst. Cerc. agron. Ser. nova (Romania)
Analele Institutului de Cercetari agronomice Academia Republicii Populare Romine Series nova

Anal. Situacion Agric. Sinaloa (Mexico)
Anales Situacion Agricultural Sinaloa

Anales Fac. Farm. Bio-Quim., Univ. nac. Mayor San Marcos (Peru)
Anales de la Facultad de Farmacia y Bio-Quimica, Universidad nacional Mayor de San Marcos

Anales Fac. Quim. Farm., Univ. Chile
Anales de la Facultad de Quimica y Farmacia, Universidad de Chile

Anales Real Soc. Españ. Fis. Quim. (Madrid) (Spain)
Anales de la Real Sociedad Espanola de Fisica y Quimica (Madrid)

Anales Soc. españ. Fis. Quim. (Spain)
Anales de la Sociedade espanola de Fisica y Quimica

Andhra Agric. J. (India)
Andhra Agricultural Journal

Ankara Nukleer Araştirma Merkezi Teknik Rapor (Turkey)
Ankara Nukleer Araştirma Merkezi Teknik Rapor

Ankara Univ. Ziraat Fak. Bitki Yet. Kürsüsü (Turkey)
Ankara Universitesi, Ziraat Fakültesi, Bitki Yetiştirme ve Islahi Kürsüsü

Ann. Agric. Sci. (Cairo) (Egypt)
Annals of Agricultural Science (Cairo)

Ann. Appl. Biol. (U.K.)
Annals of Applied Biology

Ann. Arid Zone (India)
Annals of Arid Zone

Ann. Biochem.
Annals of Biochemistry

Ann. Biochem. exp Med. (India)
Annals of Biochemistry and Experimental Medicine

Ann. Bot. (Lond.) (U.K.)
Annals of Botany (London)

Ann. Chim. Applicata (Italy)
Annali di Chimica Applicata

Ann. Ecole natl. Agr. Alger(Algeria)
Annales de l'Ecole Nationale d'Agriculture d'Alger

Ann.Entomol. Soc. Am. (U.S.A.)
Annals of the Entomological Society of America

Ann. Fac. Agrar. Univ. Bari (Italy)
Annali della Facolta di Agraria, Universita di Bari

Ann. Fac. Agrar. Univ. Perugia (Italy)
Annali della Facolta d'Agraria della Universita degli Studi Perugia

Ann. Fals. (France)
Annales des Falsifications

Ann. Inst. Agric. (Algeria)
Annales de l'Institut Agricole

Ann. Inst. Pasteur, Suppl.
Annales de l'Institut Pasteur, Supplement

Ann. Inst. Phytopathol. Benaki (Greece)
Annales de l'Institut Phytopathologique. Benaki

Ann. Naturhist. Museums Wien. (Vienna)(Austria)
Annalen des Naturhistorischen Museums in Wien (Vienna)

Ann. Nutr. Aliment. (France)
Annales de la Nutrition et de l'alimentation

Ann. Rep. Indian Coun. Agric. Res. (India)
Annual Report, Indian Council of Agricultural Research

Ann. Sci. Nat. Bot. Biol. Veg. (France)
Annales des Sciences Naturelles Botanique et Biologie Végétale

Ann. Sci. Univ. Besançon, Bot. (France)
Annales Scientifiques de l'Université de Besançon, Botanique

Ann. Sper. Agrar. (Italy)
Annali della Sperimentazione Agraria

Ann. Stn. Chim-Agrar. Sper. Roma, Ser. III Pubbl. (Italy)
Annali della Stazione Chimico-Agraria Sperimentale di Roma, Series III Pubblicazione

Anniv. Vol., R. bot. Gadn. Calcutta (India)
Anniversary Volume, Royal Botanic Garden Calcutta

Annu. Int. Statist. agric. (Italy)
Annuaire Internationale des Statistiques agricoles, Rome

Annu. Rev. Phytopathol. (U.S.A.)
Annual Review of Phytopathology

Annu. Rev. Plant Physiol. (U.S.A.)
Annual Review of Plant Physiology

Annual Rep. U.P. Agri. Univ. (India)
Annual Report, Uttar Pradesh Agricultural University

Annual Rep. Ayub Agric. Res. Inst. (Pakistan)
Annual Report, Ayub Agricultural Research Institute

Arch. Biochem. (U.S.A.)
Archives of Biochemistry

Arch. Biochem. Biophys. (U.S.A.)
Archives of Biochemistry and Biophysics

Arch. Int. Pharmacodyn. Ther.
Archives Internationales de Pharmacodynamie et de Therapie

Arch. Latinoamer. Nutr.
Archivos Latinoamericanas de Nutricion

Arch. Mikrobiol. (West Germany)
Archiv für Mikrobiologie

Arkiv Bot. Stockh. andra Ser. (Sweden)
Arkiv för Botanik, Stockholm, andra Serie

Atti Accad. Ligure Sci. Lett. (Italy)
Atti dell' Accademia Ligure di Scienze e Lettere

Atti accad. Lincei (Italy)
Atti dell' Accademia Lincei

Chickpea Bibliography

Avan. Aliment. Mejora. Anim. (Spain)
Avances en Alimentacion y Mejoramiento Animal

Banaras Hindu Univ. J. Scient. Res. (India)
Banaras Hindu University Journal of Scientific Research

Beih. Bot. Centr.bl. (Germany)
Beihefte zum Botanischen Centralblatt

Beih. bot. Zbl. (Germany)
Beihefte zum Botanischen Zentralblatt

Bengal Dept Agric. (India)
Bengal Department of Agriculture

Bihar agric. Coll. Mag. (India)
Bihar Agricultural College Magazine

Biochem. Biophys. Res. Commun. (U.S.A.)
Biochemical and Biophysical Research Communications

Biochem. J. (U.K.)
Biochemical Journal

Biochem. Rev. (Bangalore) (India)
Biochemical Reviews (Bangalore)

Biochem. Z. (W. Germany)
Biochemische Zeitschrift

Biochim. Biophys. Acta (Netherlands)
Biochimica et Biophysica Acta

Biofizika (U.S.S.R.)
Biofizika

Biokhimiya (U.S.S.R.)
Biokhimiya

Biol. Nauki (Mosc.) (U.S.S.R.)
Biologicheskii Nauki (Moscow)
Cited interchangeably with Nauchnye Doklady Vysshei Shkoly Biologicheskii Nauki

Biol. Plant. (Prague) (Czechoslovakia)
Biologia Plantarum (Prague)

Biol. Rundsch. (Germany)
Biologischer Rundschau

Biol. Sci., Tokyo (Japan)
Biological Science, Tokyo

Biol. Zh. Arm. (U.S.S.R.)
Biologicheskii Zhurnal Armenii
Continues Izvestiya Akademii Nauk Armyanskoi SSR Biologicheskii Nauki

Biologica
Biologica

Biol. osn. oroshaem. zeml. Moskwa. (U.S.S.R.)
Biologicheski osnovy oroshaemogo zemledeliya, Moskwa

Biotechnol. Bioengng. (U.S.A.)
Biotechnology and Bioengineering
Continues Journal of Biochemical and Microbiological Technology and Engineering

Bitki Koruma Bul. (Turkey)
Bitki Koruma Bulteni

Boiss. Diagn. Ser.
Boissier, Diagnoses Série

Bol. Agr. Dept. Prod. Vegetal, Secretar. Agr., Ind., Com. Trabalho, Estado Minas Gerais (Brazil)
Boletim de Agricultura, Departamento de Producao Vegetal, Secretaria da Agricultura, Industria, Comercio e Trabalho, Estado de Minas Gerais

Bol. Ind. anim. (Brazil)
Boletim de Industria animal

Bol. Inst. nac. Invest. agron. (Madrid) (Spain)
Boletin del Instituto nacional de Investigaciones agronomicas (Madrid)

Bol. R. Soc. Esp. Hist. Nat. Secc. Biol. (Spain)
Boletin de la Real Sociedad Española de Historia Natural Sección Biologica

Bol. Soc. bot. Mex.
Boletin de la Sociedad Botanica de Mexico

Bol. Soc. Quim. Peru
Boletin de la Sociedad Quimica del Peru

Boll. R. Staz. Pat. veg. N.S. (Italy)
Bolletino della Reale Stazione di Patologia vegetale Nova Seria

Boll. Soc. ital. Biol. sper. (Italy)
Bollettino della Societa Italiana di Biologia Sperimentale

Boll. staz. Patol. veg. Roma (Italy)
Bolletino della Stazione di Patologia vegetale di Roma

Boln mens. Dir. gen. Econ. (rural) agric., Mex.
Boletin mensual de la Direccion general de economia (rural) agricola, Mexico

Boln Patol. veg. Ent. agric. Madrid (Spain)
Boletin de Patologia Vegetal y Entomologia agricola, Madrid

Boln Secr. Agr. y Desarrollo Mexico
Boletin de la Secretaria de Agricultura y Desarrollo Mexico

Boln Soc. esp. Hist. Farm. (Spain)
Boletin de la Sociedad española de Historia de la Farmacia

Bombay Univ. J. (India)
Bombay University Journal

Bonplandia (Germany)
Bonplandia

Bonplandia (Corrientes) (Argentina)
Bonplandia (Corrientes)

Bot. Gaz. (U.S.A.)
Botanical Gazette

Bot. J. Linn. Soc. (U.K.)
Botanical Journal of the Linnean Society
Continues Journal of the Linnean Society of Botany, London

Bot. Mag. Tokyo (Japan)
Botanical Magazine, Tokyo (Shokubutsugaku Zasshi)

Bot. Tidsskr. (Denmark)
Botanisk Tidsskrift

Botan. Zh. (U.S.S.R.)
Botanicheskii Zhurnal

Botanica (Delhi) (India)
Botanica (Delhi)

Brit. J. Nutr. (U.K.)
British Journal of Nutrition

Brit. Med. J. (U.K.)
British Medical Journal

Broteria
Broteria, Lisboa

Bucharest Inst. Agron. N. Balcescu Lucr. Stiint. Ser.
Bucharest Institutul Agronomica Nicolae Balcescu Lucrari Stiintifice Serie

Bull.,Agric. Res. Inst., Pusa (India)
Bulletin, Agricultural Research Institute, Pusa

Bull., All-Union Inst. Pl. Industr.
Bulletin, All-Union Institute of Plant Industry

Bull. Appl. Bot. Genet. Pl. Breed. (U.S.S.R.)
Bulletin of Applied Botany, Genetics and Plant Breeding. Leningrad USSR = Trudi po prikladnoi Botanike, Genetike i Selektsii

Bull. Appl. Bot. Pl. Breed.
Bulletin of Applied Botany and Plant Breeding

Bull. bot. Soc. Bengal (India)
Bulletin of the Botanical Society of Bengal

Bull. Calcutta Sch. trop. Med. (India)
Bulletin of the Calcutta School of Tropical Medicine

Bull. Central Food Technol. Res. Inst., Mysore (India)
Bulletin of the Central Food Technological Research Institute, Mysore
Changed to Food Science (Mysore)

Bull. Deccan Coll. Res. Inst. (India)
Bulletin of the Deccan College Research Institute

Bull. Grain Technol. (India)
Bulletin of Grain Technology

Bull. Herb. Boiss. Ser.
Bulletin de l'Herbier Boissier Série

Bull. Imp. Bur. Pl. Genet. Herb.
Bulletin Imperial Bureau of Plant Genetics, Herbage

Bull. Indian Inst. Hyg. Publ. Hlth (India)
Bulletin of the Indian Institute of Hygiene and Public Health

Bull. int. Soc. Trop. Ecol. (India)
Bulletin of the International Society for Tropical Ecology
Continued as Tropical Ecology

Bull. Natn. Inst. Sci. India
Bulletin of the National Institute of Sciences of India

Bull. Scéances Inst. Roy. Colon. Belge (Belgium)
Bulletin des Scéances de l'Institute Royale Coloniale Belge

Bull. Soc. Agricrs. Rabat (Morocco)
Bulletin de la Société des Agriculteurs Rabat

Bull. Soc. Bot. Bulgarie, Sofia (Bulgaria)
Bulletin de la Société botanique de Bulgarie, Sofia

Bull. Soc. Bot. Fr. (France)
Bulletin de la Société Botanique de France

Bull. Soc. Bot. Fr., Mémoires (France)
Bulletin de la Société Botanique de France, Mémoires

Bull. Soc. Chim. Biol. (France)
Bulletin de la Société de Chimie Biologique

Bull. Soc. Entomol. Egypte (Egypt)
Bulletin de la Societe Entomologique d'Egypte

Bull. Soc. Hist. Nat. Afr. Nord (Algeria)
Bulletin de la Société d'Histoire Naturelle de l'Afrique du Nord

Bull. Soc. Imp. nat. Moscow (U.S.S.R.)
Bulletin de la Société Imperiale Naturelle, Moscow

Bull. Soc. sci. Hyg. aliment. (France)
Bulletin de la Societe Scientifique d'Hygiene Alimentaire et d'Alimentation Rationnelle de l'Homme

Bull. Torrey Bot. Club. (U.S.A.)
Bulletin of the Torrey Botanical Club

Bull. Univ. As. Centr. (U.S.S.R.)
Bulletin de l'Université de l'Assi Centrale, Tashkent

Byull. glavn. bot. Sada (U.S.S.R.)
Byulleten Glavnogo Botanicheskogo Sada

Byull. Vses. Inst. Rastenievod. (U.S.S.R.)
Byulleten Vsesoyuznogo Instituta Rastenievodstva

Byull. vses. Nauch-issled Inst. Kukur
Byulleten Vsesoyuznogo Nauchno-issledovatel'ski Institut Kukur

Cah. Rech. Agron. (Morocco)
Cahiers de la Recherche Agronomique

Calif. Agric. (U.S.A.)
California Agriculture

Campesino, Santiago (Chile)
Campesino, Santiago

Can. Inst. Food Sci. Technol. J.
Canadian Institute of Food Science and Technology Journal
Continues Canadian Institute of Food Technology Journal

Can. J. Biochem. Physiol.
Canadian Journal of Biochemistry and Physiology
Continues Canadian Journal of Medical Sciences; Continued in parts as Canadian Journal of Biochemistry and Canadian Journal of Physiology and Pharmacology

Can. J. Bot.
Canadian Journal of Botany

Can. J. Genet. Cytol.
Canadian Journal of Genetics and Cytology

Candollea (Switzerland)
Candollea

Caryologia (Italy)
Caryologia

Cent. Int. Agric. Trop. Ser. Semin. EE (Mexico)
Centro International de Agricultura Tropical Series Seminars EE Colombia

Central Food Technol. Res. Inst.,Mysore (India)
Central Food Technological Research Institute, Mysore

Central News Agency, S. Africa
Central News Agency, South Africa

Cereal Chem. (U.S.A.)
Cereal Chemistry

Cereal Sci. Today (U.S.A.)
Cereal Science Today
Continued as Cereals Foods World

Chem. Commun.
Chemical Communications

Chem. Ind. (London) (U.K.)
Chemistry and Industry (London)

CIAS - Culiacán, Sinaloa (Mexico)
Centro de Investigaciones Agronomicas de Sinaloa

CIAT (Colombia)
Centro Internacional de Agricultura Tropical

Cienc. Nat. (Quito) (Equador)
Ciencia y Naturaleza (Quito)

Ciencia (Mex.)
Ciencia (Mexico)

Ciftci. Brosürü (Turkey)
Ciftciye Brosürü

Commerce
Commerce

Commonw. Bur. Anim. Nutr. Tech. Commun. (U.K.)
Commonwealth Bureau of Animal Nutrition Technical Communication

Commonw. Mycol. Inst. (U.K.)
Commonwealth Mycological Institute

Commonw. Agr. Bur. (Gt. Brit.)
Commonwealth Agricultural Bureaux (Great Britain)

Compt. rend. Acad. Agr. France
Comptes Rendus des Seances de l'Academie d'Agriculture de France

C.r. hebd. Séanc. Acad. Sci. Paris (France)
Comptes Rendus Hebdomadaires des Séances de l'Academie des Sciences, Paris

C.r. Seances Mens.Soc. Sci. Nat. Phys. Maroc (Morocco)
Comptes Rendus des Seances Mensuelles de la Societe des Sciences Naturelles et Physiques du Maroc
Suspended publication

C.r. Soc. Fr. Physio - Veg.
Comptes Rendus de la Société Française de Physiologie Végétale

Crop Sci. (U.S.A.)
Crop Science

C.S.I.R. (India)
Council of Scientific and Industrial Research

C.S.I.R.O. Plant Introduction Review (Australia)
Commonwealth Scientific and Industrial Research Organization Plant Introduction Review

Cult. Mod.
Cultivador Moderno

Curr. Sci. (India)
Current Science

Curtis'Bot. Mag. (U.K.)
Curtis' Botanical Magazine

Cyprus Agric. Res. Inst. Misc. Publ. (Cyprus)
Cyprus Agricultural Research Institute Miscellaneous Publications

Cytologia (Tokyo) (Japan)
Cytologia (Tokyo)

Dacca Univ. Stud. (Bangladesh)
Dacca University Studies

Danske Vid. Selsk., Biol. Skrift. (Denmark)
Danske Videnskabernes Selskab, Biologiske Skrifter

Desert Inst. Bull., A R E
Desert Institute Bulletin, Arab Republic Egypt

Dhulia Coll. Agric. Mag. (India)
Dhulia College of Agriculture Magazine

Diss. Abstr. (U.S.A.)
Dissertation Abstracts

Dokl. Akad. Nauki azerb. SSR. (U.S.S.R.)
Doklady Akademii Nauki azerbaidzhanskoi SSR

Dokl. Akad. Nauki SSSR Ser. Biol. (U.S.S.R.)
Doklady Akademii Nauki SSSR Seriya Biologiya

Dokl. Biochem. (English Translation Dokl. Akad. Nauki SSSR Ser. Biokhim.)(U.S.)
Doklady Biochemistry (English Translation of Doklady Akademii Nauki SSSR Seriya Biokhimiya)
Continues Doklady Akademii Nauki SSSR Biochemistry Section (English Translation)

Dokl. Bot. Sci. (Engl. Transl. Dokl. Akad Nauki SSSR Ser. Bot.) (U.S.)
Doklady Botanical Sciences (English Translation of Doklady Akademii Nauki SSSR Seriya Botanica)
Continues Doklady Akademii Nauki SSSR Botanical Sciences Section (English Translation)

Dokl. Vses. Akad. Sel'sk-khoz. Nauki(U.S.S.R.)
Doklady Vsesoyuznoi Akademii Sel'sk-khozyaistvennykh Nauki imeni V.I. Lenina

Dopov. Akad. Nauki Ukr. RSR (U.S.S.R.)
Dopovidi Akademii Nauki Ukrains'koi RSR
Continued in parts as Dopovidi Akademiyi Nauki Ukrayins'koyi RSR Seriya B Veolohiya Veofizika Khimiya Ta Biolohiya

E. Afr. Agric. J. (Kenya)
The East African Agricultural Journal
Continued as East African Agricultural Journal of Kenya Tanganyika Uganda and Zanzibar

East Afr. Agric. For. J. (Kenya)
East African Agricultural and Forestry Journal
Continues East African Agricultural Journal of Kenya Tanganyika Uganda and Zanzibar

Econ. Bot. (U.S.A.)
Economic Botany

Econ. Res. Serv. Foreign USDA
Economic Research Service Foreign USDA

Ege Univ. Zir. Fak. Yay. (Turkey)
Ege Universitesi Ziraat Fakültesi Yayinlari - Izmir

Egypt. Pharm. Bull. (U.A.R.)
Egyptian Pharmaceutical Bulletin of the Pharmaceutical Society of Egypt and The Syndicate of Pharmacists, U.A.R.

Emp. J. Exp. Agric. (U.K.)
Empire Journal of Experimental Agriculture, Oxford
Superseded by Experimental Agriculture

Engl. Bot. Jahb.
Engler, Botanische Jahrbücher

Ent. Newslett.
Entomology Newsletter

Ent. Ser. Bull.
Entomology Series Bulletin

Ento. Soc. India
Entomological Society of India

Entomol. Obozr. (U.S.S.R.)
Entomologicheskoe Obozrenie

Entomol. Rev. (Engl. Transl. Entomol. Obozr.) (U.S.A.)
Entomological Review (English Translation of Entomologicheskoe Obozrenie)

Entomologie Phytopath. appl.
Entomologie et Phytopathologie appliquées

Enzymol. Acta Biocatal. (Netherlands)
Enzymologia Acta Biocatalytica

Euphytica (Netherlands)
Euphytica

Eur. J. Biochem. (West Germany)
European Journal of Biochemistry
Supersedes Biochemische Zeitschrift

Excerpta bot. (E. Germany)
Excerpta botanica

Exp. Agric. (U.K.)
Experimental Agriculture
Supersedes Empire Journal of Experimental Agriculture

Experientiae (vicosa Minas Gerais) (Brazil)
Experientiae (vicosa Minas Gerais)

F.A.O. Agric. Stud. (Italy)
Food & Agriculture Organization Agricultural Studies

F.A.O. Nutr. Mtg. Rep. Ser.(Switzerland)
Food and Agriculture Organization Nutrition Meetings Report Series

F.A.O. Nutr. Stud.
Food and Agriculture Organization Nutritional Studies

F.A.O. Plant Prot. Bull. (Italy)
Food and Agriculture Organization Plant Protection Bulletin

F.A.O. Prod. Yb. Rome (Italy)
Food and Agriculture Organization Production Year book, Rome

F.A.O. Rome (Italy)
Food and Agriculture Organization, Rome

Farmer (India)
Farmer

Farm J.
Farm Journal

Fd. Fmg. (India)
Food and Farming

FEBS Lett. (Netherlands)
Federation of European Biochemical Societies Letters

FEBS Proc. Meet. (U.S.A.)
Federation of European Biochemical Societies Proceedings of the Meeting

Feddes Repert. (East Germany)
Feddes Repertorium

Federal Register (U.S.A.)
Federal Register

Fert. News (India)
Fertilizer News

Fertilizer Assoc. India
Fertilizer Association India

Fiziol. Biokhim. kul't Rast. (U.S.S.R.)
Fiziologiya I Biokhimiya Kul'Turnykh Rastenii

Fiziol. Rast. (Mosc.) (U.S.S.R.)
Fiziologiya Rastenii (Moscow)

Fiziologia Mikroorganizmov(U.S.S.R.)
Fiziologia Mikroorganizmov

Flora (Jena) (East Germany)
Flora (Jena)

Folia Microbiol. (Prague) (Czechoslovakia)
Folia Microbiologica (Prague)
Continues Ceskoslovenska Mikrobiologie

Folleto Misc. Inst. Nac. Investig. Agric. Mexico
Folleto Miscellaneo del Instituto Nacional de Investigaciones Agronomicas Mexico

Food Agric. Council Pakistan
Food and Agriculture Council, Pakistan

Food Res. (U.S.A.)
Food Research
Continued as Journal of Food Science

Food Sci. (India)
Food Science

Food Technol. (Chicago) (U.S.A.)
Food Technology (Chicago)

Foreign Agr. (U.S.A.)
Foreign Agriculture

Gazz. Chim. Ital. (Italy)
Gazzetta Chimica Italiana

Geobios (China)
Geobiologia

God. sof. Univ., Sofia (Bulgaria)
Godishnik na Sofiiskiya Universitet, Sofia

Grasas Aceites (Sevilla) (Spain)
Grasas y Aceites (Sevilla)

Hassadeh (Israel)
Hassadeh

Hemera Zoa (Indonesia)
Hemera Zoa
Suspended Publication

Herb. Abstr. (U.K.)
Herbage Abstracts

Heredity (U.K.)
Heredity, London

Hilgardia (U.S.A.)
Hilgardia

I.A.R.I.
Indian Agricultural Research Institute

I.C.A.R.
Indian Council of Agricultural Research

I.C.A.R. Agric. Yb.
Indian Council of Agricultural Research
Agricultural Yearbook

I.C.A.R. Res. Ser.
Indian Council of Agricultural Research
Research Series
Ceased publication

I.C.A.R. Rev. Ser. Bull.
Indian Council of Agricultural Research
Review Series Bulletin

ICRISAT (India)
International Crops Research Institute for the Semi-Arid Tropics

Imperial agric. Res. Inst. Bull. (India)
Imperial Agricultural Research Institute
Bulletin

Ind. Eng. Chem. (U.S.A.)
Industrial and Engineering Chemistry

Indian Acad. Sci.
Indian Academy of Science

Indian agri. J.
Indian Agricultural Journal

Indian Agric.
Indian Agriculturist

Indian Coco. Comt. Bull.
Indian Coconut Committee Bulletin

Indian Cotton Grow. Rev.
Indian Cotton Growing Review

Indian Coun. med. Res. Tech. Rep. Sci. Adv. Bd., New Delhi
Indian Council of Medical Research. Technical Report of the Scientific Advisory Board, New Delhi

Indian Farmacist
Indian Farmacist

Indian Fmg.
Indian Farming

Indian Fmg. Suppl.
Indian Farming, Supplement

Indian J. Agri.
Indian Journal of Agriculture

Indian J. agric. Res.
Indian Journal of Agricultural Research
Continues Indian Journal of Science and Industry Section A Agricultural and Animal Sciences

Indian J. agric. Sci.
Indian Journal of Agricultural Sciences

Indian J. Agron.
Indian Journal of Agronomy

Indian J. Anim. Sci.
Indian Journal of Animal Sciences

Indian J. appl. Chem.
Indian Journal of applied Chemistry

Indian J. Biochem.
Indian Journal of Biochemistry
Continued as Indian Journal of Biochemistry & Biophysics

Indian J. Biochem. Biophys.
Indian Journal of Biochemistry & Biophysics
Continues Indian Journal of Biochemistry

Indian J. Chem.
Indian Journal of Chemistry

Indian J. Dairy Sci.
Indian Journal of Dairy Science

Indian J. Entomol.
Indian Journal of Entomology

Indian J. exp. Biol.
Indian Journal of Experimental Biology
Supersedes in part Journal of Scientific and Industrial Research (India) Section C Biological Sciences

Indian J. Genet.
Indian Journal of Genetics and Plant Breeding

Indian J. Genet. Pl. Breed.
Indian Journal of Genetics and Plant Breeding

Indian J. Hered.
Indian Journal of Heredity

Indian J. Hort.
Indian Journal of Horticulture

Indian J. med. Res.
Indian Journal of Medical Research

Indian J. Microbiol.
Indian Journal of Microbiology

Indian J. Mycol. Plant Pathol.
Indian Journal of Mycology and Plant Pathology

Indian J. Mycol. Res.
Indian Journal of Mycological Research
Ceased publication

Indian J. Nutr. Diet.
Indian Journal of Nutrition and Dietetics
Continues Journal of Nutrition and Dietetics, India

Indian J. Pathol. Bacteriol.
Indian Journal of Pathology and Bacteriology

Indian J. Pediatr.
Indian Journal of Pediatrics

Indian J. Pharm.
Indian Journal of Pharmacy

Indian J. Physiol. all. Sci.
Indian Journal of Physiology and Allied Sciences

Indian J. Plant Physiol.
Indian Journal of Plant Physiology

Indian J. Poult. Sci.
Indian Journal of Poultry Science

Indian J. Sci. Ind.
Indian Journal of Science and Industry

Indian J. Soil Sci.
Indian Journal of Soil Science

Indian J. vet. Sci.
Indian Journal of Veterinary Science

Indian Oilseeds J.
Indian Oilseeds Journal

Indian Pharmacist
Indian Pharmacist

Indian Phytopathol.
Indian Phytopathology

Indian Sci. Cong. (Agric.)
Indian Science Congress (Agriculture)

Indian Sci. Cong. Assoc. Proc.
Indian Science Congress Association Proceedings

Indian Vet. J.
Indian Veterinary Journal

Informe, Esta. expl. Agr. "La Molina" (Peru)
Informe, Estacion Experimental Agricola de "La Molina"

Inst. Agric. Res. (Addis) (Ethiopia)
Institute of Agricultural Research (Addis)

Inst. Agric. Sci., Kanpur (India)
Institute of Agricultural Sciences, Kanpur

Inst. Developm. Econ. Karachi (Pakistan)
Institute of Developmental Economy, Karachi

Int. agric. Collab. Ser. (U.S.A.)
International Agricultural Collaboration Series

Int. At. Energy Agency, Vienna (Austria)
International Atomic Energy Agency, Vienna

Int. Bull. Pl. Prot., Rome (Italy)
International Bulletin of Plant Protection, Rome

Intensive Agric.
Intensive Agriculture

Invest. Prog. Agric. (Chile)
Investigacion y Progreso Agricola

Iran J. Plant Pathol.
Iran Journal of Plant Pathology

Israel Congr. Pl. Pathol.
Israel Congress of Plant Pathology

Israel J. Agric. Res.
Israel Journal of Agricultural Research

Israel J. Bot.
Israel Journal of Botany

Ital. Agric. (Italy)
Italia Agricola

Izv. Akad. Nauki arm. SSR. Biol. Nauki (U.S.S.R.)
Izvestiya Akademii Nauki Armyanskoi SSR. Biologicheskie Nauki

Izv. Akad. Nauki Mold. SSR. Ser. Biol. Khim. Nauki (U.S.S.R.)
Izvestiya Akademii Nauki Moldavskoi SSR. Seriya Biologicheskikh I Khimcheskikh Nauki
Continues in Part Izvestiya Akademii Nauki Moldavskoi SSR.

Izv. Akad. Nauki Tadzh. SSR. Otd. Biol. Nauki (U.S.S.R.)
Izvestiya Akademii Nauki Tadzhikskoi SSR. Otdelenie Biologicheskikh Nauki

Izv. Inst. Khranene, Bulg. Akad. Nauki
Izvestiya Institut Khranene, Bulgarii Akademii Nauki

Izv. Sel'sk-khoz. Nauki (U.S.S.R.)
Izvestiya, Sel'sk-khozyaistvennye Nauki

Izv. Timiryazev. Sel'sk-khoz. Akad.(U.S.S.R.)
Izvestiya Timiryazevskoi Sel'sk-khozyaistvennoi Akademii

J. Agr. Chem. (Taiwan)
Journal of Agricultural Chemistry

J. agr. Sci. Camb. (U.K.)
Journal of Agricultural Science, Cambridge

J. agric. Food Chem. (U.S.A.)
Journal of Agricultural and Food Chemistry

J. agric. Res. (Pakistan)
Journal of Agricultural Research

J. Agric. Trop. Bot. Appl. (France)
Journal d'Agriculture Tropicale et de Botanique Appliquée

J. Am. Diet. Assoc.
Journal of the American Dietetic Association

J. Am. Soc. Agron.
Journal of American Society of Agronomy

J. appl. Sci. (India)
Journal of Applied Sciences

J. Asiatic Soc. Bengal (India)
Journal of Asiatic Society of Bengal

J. Assam Sci. Soc. (India)
Journal of Assam Science Society

J. Assoc. offic. agr. Chemists (U.S.A.)
Journal of the Association of Official Agricultural Chemists

J. Assoc. Physns. India
Journal of the Association of Physicians, India

J. Bihar bot. Soc. (India)
Journal of the Bihar Botanical Society

J. Biol. Chem. (U.S.A.)
Journal of Biological Chemistry

J. Bombay nat. Hist. Soc. (India)
Journal of the Bombay natural History Society

J. Chem. U.A.R. (Egypt)
Journal of Chemistry of the U.A.R.
Formerly Egyptian Journal of Chemistry

J. econ. Entomol. (U.K.)
Journal of Economic Entomology

J. Egypt. med. Assoc. (Egypt)
Journal of the Egyptian Medican Association

J. exp. Bot. (England)
Journal of Experimental Botany

J. Food Sci. (U.S.A.)
Journal of Food Science

J. Food Sci. Technol. (India)
Journal of Food Science and Technology

J. Hered. (U.S.A.)
Journal of Heredity

J. Indian bot. Soc.
Journal of the Indian Botanical Society

J. Indian Chem. Soc.
Journal of the Indian Chemical Society

J. Indian Chem. Soc. Industr. Edn.
Journal of the Indian Chemical Society, Industry Edition

J. Indian Inst. Sci.
Journal of Indian Institute of Science

J. Indian med. Assoc.
Journal of the Indian Medical Association

J. Indian Soc. Soil Sci.
Journal of the Indian Society of Soil Science

J. Inst. Chem., Calcutta (India)
Journal of the Institute of Chemistry, Calcutta

J. Linn. Bot. Soc. (U.K.)
Journal of the Linnean Botanical Society

J. Microbiol. U.A.R. (Egypt)
Journal of Microbiology, U.A.R.

J. Nutr. (U.S.A.)
Journal of Nutrition

J. Nutr. Diet. (India)
Journal of Nutrition and Dietetics
Continued as Indian Journal of Nutrition and Dietetics

J. Org. Chem. (U.S.A.)
Journal of Organic Chemistry

J. Pharm. Pharmacol.
Journal of Pharmacy and Pharmacology

J. Postgrad. Sch. (India)
Journal of the Postgraduate School

J. Proc. Instn. Chemists, India
Journal and Proceedings of the Institution of Chemists, India
Formerly Proceedings of the Institution of Chemists

J. Res.,APAU (India)
Journal of Research, Andhra Pradesh Agricultural University, Hyderabad

J. Res., Haryana Agric. Univ. (India)
Journal of Research, Haryana Agricultural University

J. Res., Punjab Agric. Univ. (India)
Journal of Research, Punjab Agricultural University

J. Roy. Tech. Coll. Glasgow (U.K.)
Journal of Royal Technical College, Glasgow

J. Sci. Food Agric. (U.K.)
Journal of the Science of Food and Agriculture

J. Sci. ind. Res. (India)
Journal of Scientific and Industrial Research
Continues Journal of Scientific and Industrial Research (India) Section A General

J. Sci. Res. (Indonesia)
Journal of Scientific Research
Ceased publication

J. Sci. Res. Banaras Hindu Univ. (India)
Journal of Scientific Research of the Banaras Hindu University

J. Soil Conserv. Serv. N S W (Australia)
Journal of Soil Conservation Service of New South Wales

J. Stored Prod. Res. (U.K.)
Journal of Stored Products Research

J. Theor. Biol. (U.K.)
Journal of Theoretical Biology

J. Trop. Pediatr. Environ. Child Hlth. (U.K.)
Journal of Tropical Pediatrics and Child Health
Continues Journal of Tropical Pediatrics

J. Uk. Univ., Ujjain (India)
Journal of the Utkal University, Ujjain

J. Univ. Bombay (India)
Journal of the University of Bombay

J. Univ. Poona, Sci. Technol. (India)
Journal of the University of Poona, Science and Technology

Jap. agric. Res. Quart.(JARQ)
Japan Agricultural Research Quarterly

JNKVV Res. J. (India)
Jawaharlal Nehru Krishi Viswa Vidyalaya Research Journal

Kanpur agric. Coll. J. (India)
Kanpur Agricultural College Journal

Karaj Agr. Coll. (Iran)
Karaj Agricultural College

Kew Bull. Add. Ser. (U.K.)
Kew Bulletin(Additional Series)

Khadi Gramodyog (India)
Khadi Gramodyog

Khim. Sel'sk-khoz. (U.S.S.R.)
Khimiya v Sel'skokhozyaistvo

Kolkhoz. Proizv. (U.S.S.R.)
Kolkhoznoe Proizvodstvo

Labdev (India)
Labdev

Labdev J. Sci. Tech. (India)
Labdev Journal of Science and Technology

Lenin Acad. Agric. Sci. Inst. Pl. Ind. (U.S.S.R.)
Lenin Academy of Agricultural Sciences and Institute of Plant Industry

Lloydia (CINCI.) (U.S.A.)
Lloydia (CINCINNATI)

Lucr. Ses. Stiint. Inst. agron. Nicolae Balcescu (Romania)
Lucrari Sesiunii Stiintifice Institutului Agronomicè Nicolae Balcescu

Madras Agric. Dept. Yb. (India)
Madras Agricultural Department Yearbook

Madras agric. J. (India)
Madras Agricultural Journal

Madras agric. J. (Suppl.) (India)
Madras Agricultural Journal (Supplement)

Magazine, N.M. College of Agri. Navasari (India)
Magazine N.M. College of Agriculture Navasari

Mahatma Phule Agric. Univ. Res. J. (India)
Mahatma Phule Agricultural University Research Journal

Mazogazdasag (Hungary)
Mazogazdasag

Melhoramento (Spain)
Melhoramento

Mem. Congr. Cient. mex., IV Centenario Univ. Mex. 1953 (Mexico)
Memorias del Congreso Cientifico Mexicano, IV Centenario de la Universidad de Mexico 1953

Mem. Dep. Agric., India
Memoirs of the Department of Agriculture, India

Mem. Dep. Agric. India Bot. Ser.
Memoirs of the Department of Agriculture in India, Botanical Series

Mem. Dep. Agric. India Chem. Ser.
Memoirs of the Department of Agriculture in India, Chemical Series

Mem. Fac. Agric. Hokkaido Univ. (Japan)
Memoirs of the Faculty of Agriculture Hokkaido University

Mexico Secr. Agric. Ganad.
Mexico Secretaria de Agricultura y Ganaderia

Mikol. Fitopatol. (U.S.S.R.)
Mikologiya I Fitopatologiya

Mikrobiologiya (U.S.S.R.)
Mikrobiologiya

Min. Agric. Forestry, Tokyo (Japan)
Ministry of Agriculture and Forestry, Tokyo

Min. Agric. nat. Domains, Sofia (Bulgaria)
Ministry of Agriculture and National Domains, Sofia

Min. Econ. Camp. Prod. Agric.
Ministeria de Economia Campesina y Productivo Agricultural

Minist. Agr. y Trab.
Ministeria de Agricultura y Trabajo

Misc. Papers Landbouwhogeschool, Wageningen (Netherlands)
Miscellaneous Papers, Landbouwhogeschool, Wageningen

Mitt. biol. Bundesanst. Land-Forstwirtsch. Berl-Dahlem (West Germany)
Mitteilungen der Biologischer Bundesanstalt für Land- Und Forstwirtschaft, Berlin - Dahlem

Mitt. Bot. Staatssamml. Muench. (West Germany)
Mitteilungen der Botanischen Staatssammlung München

Mosc. Univ. Biol. Sci. Bull. (U.S.S.R.)
Moscow University, Biological Sciences Bulletin

Mycol. Pap. Common. Myc. Inst., Kew (U.K.)
Mycological Papers, Commonwealth Mycological Institute, Kew

Mycologia (U.S.A.)
Mycologia

Mycopathol. Mycol. Appl. (Netherlands)
Mycopathologia et Mycologia Applicata
Reverted to original title

Mysore agric. Cal. Yb. (India)
Mysore Agricultural Calender Yearbook

Mysore agric. J. (India)
Mysore Agricultural Journal
Ceased publication

Mysore Cent. Food Technol. Res. Inst. (India)
Mysore Central Food Technological Research Institute

Mysore J. Agric. Sci. (India)
Mysore Journal of Agricultural Sciences

Nachrbl. Dtsch. Pflschdienst. (Germany)
Nachrichtenblatt für den Deutschen Pflanzenschützdienst

Nagpur agric. coll. Mag. (India)
Nagpur Agricultural College Magazine

Nat. Index Agric. Fld. Expts. (India)
National Index of Agricultural Field Experiments

Natl. Acad. Sci. (India)
National Academy of Sciences

National Academy J. Sciences
National Academy Journal of Sciences

Nature (U.K.)
Nature

Naturforschung
Naturforschung

Naturwissenschaften (West Germany)
Naturwissenschaften

Nauch. Dokl. Vyssh. Shk. Biol. Nauki (U.S.S.R)
Nauchnye Doklady Vysshei Shkoly Biologicheskie Nauki

Nauch. Tr., Vissh Selskostop. Inst. "Georgi Dimitrov", Agron. Fak. (Sofia) (Bulgaria)
Nauchni Trudove, Vissh Selskostopanski Institut "Georgi Dimitrov", Agronomicheski Fakultet (Sofia)

Nauchni Trud. Vissh selskostop. Inst. Vasil Kolarov. (Bulgaria)
Nauchni Trudove Vissh Selskostopanski Institut' Vasil Kolarov, Plovdiv

Nauki Pered. Opyt Sel'sk-khoz. (U.S.S.R.)
Nauki Peredovoi Opyt v Sel'skokhozyaistvo

Nematologica (Netherlands)
Nematologica

Neth. J. Pl. Pathol.
Netherlands Journal of Plant Pathology

New Phytol. (U.K.)
New Phytologist

Norg. Landbrhoisk. Arsmeld. (Norway)
Norges Landbrukshoiskoles Arsmelding

Nova Hedwigia (West Germany)
Nova Hedwigia

Novit. Syst. Plant. vasc. (U.S.S.R.)
Novitates Systematicae Plantarum vascularium, Leningrad

Nutr. Rep. Int. (U.S.A.)
Nutrition Reports International

Nutritional Studies, F.A.O. (Italy)
Nutritional Studies, Food and Agriculture Organization

Oesterr. Bot. Zeitschr. (Austria)
Oesterreichische Botanische Zeitschrift
Continued as Plant Systematics and Evolution

Okla. Agr. Exp. Sta. Progr. Rep. (U.S.A.)
Oklahoma Agricultural Experiment Station Progress Report

PAG Bull. (U.S.A.)
Protein Association Group Bulletin

Pak. J. Biochem.
Pakistan Journal of Biochemistry

Pak. J. Biol. Agr. Sci.
Pakistan Journal of Biological and Agricultural Sciences

Pak. J. Bot.
Pakistan Journal of Botany

Pak. J. Res.
Pakistan Journal of Research

Pak. J. Sci.
Pakistan Journal of Science

Pak. J. Sci. Res.
Pakistan Journal of Scientific Research

Palest. J. Bot. (Israel)
Palestine Journal of Botany
Continued as Israel Journal of Botany

Palest. J. Bot. Rehovot Ser. (Israel)
Palestine Journal of Botany, Rehovot Series

Pamph. Dep. Agric. Tanganyika
Pamphlet, Department of Agriculture, Tanganyika

Pest Technol. (U.K.)
Pest Technology

Pesticides (Bombay) (India)
Pesticides (Bombay)

Pharmaceutist
Pharmaceutist

Photosynthetica (Prague) (Czekhoslovakia)
Photosynthetics (Prague)

Physiol. Biochem. Cult. Plants (Engl. Transl. Fiziol. Biokhim. Kul't.)
Physiology & Biochemistry of Cultivated Plants
Ceased publication

Physiol. Plant. (Scandinavia)
Physiologia Plantarum

Physiol. Veg. (France)
Physiologie Vegétale

Physis, (B. Aires) (Argentina)
Physis, Revista de la Sociedad Argentina de Ciencias naturales (Buenos Aires)

Phytochemistry (Oxf.) (U.K.)
Phytochemistry (Oxford)

Phytomorphology (India)
Phytomorphology

Phytopathol. Mediterr. (Italy)
Phytopathologia Mediterranea
Suspended publication

Phytopathol. Z. (W. Germany)
Phytopathologische Zeitschrift

Phytopathology (U.S.A.)
Phytopathology

Pl. Prot. Bull. FAO, Rome (Italy)
Plant Protection Bulletin, Food & Agriculture Organization, Rome

Pl. Prot. Bull., New Delhi (India)
Plant Protection Bulletin, New Delhi

Pl. Sci. Lit. (U.S.A.)
Plant Science Literature

Pl. Soil (Netherlands)
Plant and Soil

Plant Biochem. J. (India)
Plant Biochemical Journal

Plant Breeding Abstracts (U.K.)
Plant Breeding Abstracts

Plant Cell Physiol. (Tokyo) (Japan)
Plant Cell Physiology (Tokyo)

Plant Dis. Rep. (U.S.A.)
Plant Disease Reporter

Plant Foods Hum. Nutr. (U.S.A.)
Plant Foods for Human Nutrition
Continued as Qualitas Plantarum Plant Foods for Human Nutrition

Plant Genet. Resour. Newsl. (Italy)
Plant Genetic Resources Newsletter, Food and Agriculture Organization, Rome

Plant Physiol. (Bethesda) (U.S.A.)
Plant Physiology (Bethesda)

Plant Prot. (U.S.S.R.)
Plant Protection

Planta (Berl.) (W. Germany)
Planta, Archiv für Wissenschaftliche Botanik (Berlin)

Planta Med. (Germany)
Planta Medica

Poona agr. Coll. Mag. (India)
Poona Agricultural College Magazine

Poult. Sci. (U.S.A.)
Poultry Science

Prelim. Rep. Rehovot natn. Univ. Inst. Agron. (Israel)
Preliminary Report, Rehovot National University, Institute of Agronomy

Preslia (Prague) (Czechoslovakia)
Preslia (Prague)

Presse méd.
La Presse Médicale

Prikl. Biokhim. Mikrobiol. (U.S.S.R.)
Prikladnaya Biokhimiya I Mikrobiologiya

Priroda (Mosc.) (U.S.S.R.)
Priroda (Moscow)

P.R. J. Publ. Hlth. Trop. Med.
Puerto Rico Journal of Public Health and Tropical Medicine

Proc. Acad. Sci. U.S.S.R. Biochem. Sect.
Proceeding of the Academy of Sciences U.S.S.R. Biochemistry Section

Proc. Amer. Soc. Hort. Sci.
Proceedings of the American Society for Horticultural Science
Continued as Journal of the American Society for Horticultural Science

Proc. Amer. Soc. Soil. Sci.
Proceedings of the American Society for Soil Science

Proc. Bihar Acad. Agric. Sci. (India)
Proceedings of the Bihar Academy of Agricultural Sciences

Proc. Bihar Acad. Sci.
Proceedings of the Bihar Academy of Sciences

Proc. Indian Natl. Sci. Acad.
Proceedings of the Indian National Science Academy

Proc. Indian Sci. Congr.
Proceedings of the Indian Science Congress

Proc. Indian Sci. Congr. Assoc.
Proceedings of the Indian Science Congress Association

Proc. Int. Conf. Plant Growth Subst.
Proceedings of the International Conference on Plant Growth Substance

Proc. Int. Seed Test. Assoc. (Netherlands)
Proceedings of the International Seed Testing Association

Proc. Iraqi sci. Soc. (Iraq)
Proceedings of the Iraqi Scientific Societies
Ceased publication

Proc. Meeting of Crops and Soils Wing, Board Agric. Anim. Husb. (India)
Proceedings of the Meeting of Crops and Soils Wing, Board of Agriculture and Animal Husbandry

Proc. Natl. Acad. Sci. India
Proceedings of the National Academy of Sciences

Proc. Nutr. Soc. (U.K.)
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Proc. Pak. Sci. Conf.
Proceedings of the Pakistan Science Conference

Proc. 5th Pak. Sci. Cong.
Proceedings of the 5th Pakistan Science Congress

Proc. R. Soc. (U.K.)
Proceedings of the Royal Society

Proc. Second Ento. meet. (India)
Proceedings of the Second Entomologists' Meeting

Proc. Second SABRAO, New Delhi (India)
Proceedings of the Second Society for the Advancement of the Breeding Researches in Asia and Oceania, New Delhi

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Prog. Farming (India)
Progressive Farming

Progreso Agric. Vitic. (Italy)
Progreso agricultura e Viticultura

Punjab Agr. Univ. J. Res. (India)
Punjab Agricultural University Journal of Research

Punjab Farmer (India)
Punjab Farmer

Puratattva (India)
Puratattva

Quaderni nutriz. (Italy)
Quaderni nutrizione

Rasayanam (India)
Rasayanam

Rasteniev'd Nauki (Bulgaria)
Rasteniev'dni Nauki

Recent Advan. Phytochem.
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Referat. Zh. (U.S.S.R.)
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Rep. Dep. Agric. Madras (India)
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Rep. Dep. Agric. Punjab (India)
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Rep. Dep. Agric. Tanganyika
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Rep. Indian Coun. agric. Res.
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Rep. Inst. Agric. Res. Ethiopia
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Rep. operations Dept. Agr., Punjab (India)
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Res. Ind. (India)
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Res. J. Mahatma Phule Agric. Univ. (India)
Research Journal, Mahatma Phule Agricultural University

Res. Rep. Sci., Agric. Jerusalem
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Rev. Agric. Afr. N. Alger
Revue d'Agriculture de l'Afrique du Nord, Alger

Rev. Agric. Vitic. Afr. N.
Revue d'Agriculture et Viticulture de l'Afrique du Nord

Rev. Asoc. Argentina Dietol.
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Rev. Asoc. Bioquim. Arg. (Argentina)
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Revista clinica Española

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Revue Générale Botanique

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Revista Mexicana de Produccion Animal

Rev. Nutr. Annual (Madrid) (Spain)
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Rev. Path. Veg.
Revue de Pathologie Vegetale

Rev. Pathol. veg. Ento. Agric. Fr. (France)
Revue de Pathologie Vegetale et d'Entomologie Agricole de France

Rev. Peru. Entomol. Agric. (Peru)
Revista Peruana de Entomologia Agricola
Continued as Revista Peruana de Entomologia

Rev. R. Acad. cienc. exactas fis. nat. Madr. (Spain)
Revista de la Real Academia de Ciencias exactas, fisicas y naturales de Madrid

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Revista de Sociedade rural brasileira

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Revue de Botanique Appliquee et d'Agriculture Tropicale

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Revue de Cytologie et de Biologie vegetales

Revue fr. Ent.
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Ric. Sci. (Italy)
Ricerca Scientifica

Riv. fruttic. (Italy)
Rivista de frutticultura

Riv. Patol. Veg. (Italy)
Rivista di Patologia Vegetale, Padova

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Riz et Riziculture et Cultures Vivrieres Tropicales

S. African J. Med. Sci.
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S. Indian Hort.
South Indian Horticulture

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Sad i Ogorod

Sb. Nauch. Tr., Erevan. Arm. Gos. Pedagog. Inst., Khim. (U.S.S.R.)
Sbornik Nauchnii Trudy, Erevan Armenski Gosudarstva Pedagogia Institut, Khimya

Sb. nauch. Tr. Nauchnoissled. Inst. Zemled. Armyan SSR. (U.S.S.R.)
Sbornik nauchnii Trudy Nauchnoissledvennoi Institut Zemledelie Armyan SSR

Sb. Nauch. Trud. Biol. Med. (Bulgaria)
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Sb. Trud. Aspir. molod. nauch. Sotr.
Sbornik Trudov Aspirantov i Molodykh Nauchnykh Sotrudnikov

Sci. Agric. (U.S.A.)
Science in Agriculture
Continues Science for the Farmer

Sci. Cult. (India)
Science and Culture

Sci. Rep. (India)
Science Reporter

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Scientific Reports of the Agricultural Research Institute, Pusa

Sci. Rep. Imp. agr. Res. Inst., New Delhi (India)
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Scientific Reports of the Indian Agricultural Research Institute

Sci. Res. (Bangladesh)
Scientific Research

Sci. Technol. (U.S.A.)
Science and Technology
Continues International Science and Technology
Suspended publication

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Science

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Supersedes Agrobiologiya

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Sel'skoekhozyaistvo Kazakhstana

Sel'sk-khoz. Kirg. (U.S.S.R.)
Sel'skoekhozyaistvo Kirgizii

Sel'sk-khoz. Kult. (U.S.S.R.)
Sel'skokhozyaistvennaya Kultura

Sel'sk-khoz. Povolzh'ya. (U.S.S.R.)
Sel'skoekhozyaistvo povolzh'ya

Soil Biol. Biochem. (U.K.)
Soil Biology and Biochemistry

Soil Sci.
Soil Science

Sots. Sel'sk-khoz. (U.S.S.R.)
Sotsialisticheskoe Sel'skoe khozyaistvo

Sots. Zern. Khoz. (U.S.S.R.)
Sotsialisticheskoe Zernovoe Khozyaistvo

Sov. Plant Physiol. (Engl. Transl. Fiziol. Rast.) (U.S.A.)
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Spec. Rep. Ser. med. Res. Coun. (U.K.)
Special Report Series, Medical Research Council

Staerke (Germany)
Staerke

Standard (Turkey)
Standard

Statist. Yb.
Statistical Yearbook

Staz. Chim.-agr. Sper., Tonino, Italy
Stazione Chimica-agraria Sperimentale, Tonino Italia

Staz. sper. agrar. ital.
Stazione Sperimentale agraria Italiana

Studi Sassar. (Italy)
Studi Sassaresi

Suelo argent. (Argentina)
Suelo argentina

Surco, Madr. (Spain)
Surco, Madrid

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Sveklovodstvo

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Symposium on Human Nutrition and Health in Near East, Proceedings 4th

Tabulae Biol. (Netherlands)
Tabulae Biologicae
Ceased publication

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Technical Bulletin, Bureau of Agricultural Information, Lucknow

Tech. Bull. Cyprus Dep. Agric. (Cyprus)
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Terre Maroc. (Morocco)
Terre Marocaine

Tetrahedron Lett. (U.K.)
Tetrahedron Letters

Theor. Appl. Genet. (W. Germany)
Theoretical And Applied Genetics

Tijdschr. Plantenziekten (Netherlands)
Tijdschrift voor Plantenziekten

Tr. azerb. nauchno-issled.Inst. (U.S.S.R.)
Trudy Azerbaidzhanskii Nauchno-Issledovatel'skii Institut

Tr. Erevan. Zootekh.-Vet. Inst. (U.S.S.R.)
Trudy Erevanskogo Zootekhniki-Veterinarnogo Instituta

Tr. gl. bot. Sada (U.S.S.R.)
Trudy Glavnogo botanicheskogo Sada
Ceased publication

Tr. Kishinev. Sel'sk-khoz. Inst. (U.S.S.R.)
Trudy Kishinevskogo Sel'skokhozyaistvennogo Instituta imeni M.V. Frunze

Tr. Moskw. glav. Bot. Sada (U.S.S.R.)
Trudy Moskovkogo glavnogo Botanicheskii Sada

Tr. pokhim. Prirodn. Soedin., Kishinevsk. Gos. Univ. (U.S.S.R.)
Trudy pokhimii Prirodnykh Soedinenii, Kishinevskii Gosudarstvennyi Universitet

Tr. Prikl. Bot. Genet. Selek. (U.S.S.R.)
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Tr. Tashkent. Sel'sk-khoz. Inst. (U.S.S.R.)
Trudy Tashkentskogo Sel'skokhozyaistvennogo Instituta

Tr. Tifliskogo Bot. Sada (U.S.S.R.)
Trudy Tiflishogo Botanicheskii Sada

Tr. vses. Inst. Zashch. Rast. (U.S.S.R.)
Trudy Vsesoyuznogo instituta Zashchity rastenii

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Transactions of the Bose Research Institute, Calcutta

Trans. Br. Mycol. Soc. (U.K.)
Transactions of the British Mycological Society, London

Trans. Linn. Soc. London (U.K.)
Transactions of the Linnaean Society of London

Trans. Proc. bot. Soc. Edinb. (U.K.)
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Trav. Soc. bulg. Scient. nat. (Bulgaria)
Travaux de la Société bulgare des Sciences naturelles

Trop. Agric. (Colombo) (Sri Lanka)
Tropical Agriculturist (Colombo)

Trop. Agric., (Trin.) (West Indies)
Tropical Agriculture (Trinidad)

Trop. Ecol. (India)
Tropical Ecology

Uch. Zap. sarat. Gos. Univ. (U.S.S.R.)
Uchenye Zapiski Saratovskogo Gosudarstvennogo Universiteta imeni N.G. Chernyshevskogo

Uch. Zap., Tiraspol. Gos. Pedagog. Inst. (U.S.S.R.)
Uchenye Zapiski, Tiraspol'skii Gosudarstvennyi Pedagogicheskii Institut imeni T.G. Shevchenko

Univ. Udaipur Res. Stud. (India)
University of Udaipur Research Studies

USDA Tech. Bull.
United States Department of Agriculture, Technical Bulletin

U.S. Dep. Agric. Bull.
United States Department of Agriculture, Bulletin

U.S. Dep. Agric. Foreign Agric. Rep.
United States Department of Agriculture, Foreign Agriculture Bulletin

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U.S.S.R. Agric. Biol.
Union of Soviet Socialist Republics Agricultural Biology

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Uzbekskii Biologicheskii Zhurnal

Vestn. Akad. Med. Nauki SSSR (U.S.S.R.)
Vestnik Akademii Meditsinskikh Nauki SSSR

Vestn. Mosk. Univ. Biol. Pochvoved. (U.S.S.R.)
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Vestn. Sel'sk-khoz. Nauki (Mosc.) (U.S.S.R.)
Vestnik Sel'skokhozyaistvennoi Nauki (Moscow)

Vida Agric. (Peru)
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Vses. Akad. Sel'sk-khoz. Nauki V. I. Lenina Dokl.
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West Pakistan Journal of Agricultural Research

WHO Tech. Rep. Ser. (Switzerland)
World Health Organization Technical Report Series

Wis. Agric. Exp. Stn. Bull. (U.S.A.)
Wisconsin Agricultural Experiment Station Bulletin

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Z. Nahr.- Genussm. (West Germany)
Zeitschrift für Untersuchung der Nahrungs- und Genussmittel, Berlin

Z. Naturforsch. (Germany)
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Z. Naturforsch. Teil. B. (West Germany)
Zeitschrift für Naturforschung Teil B.

Z. Parasitenkd. (West Germany)
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Z. Pflkrankh.Pflpath.Pflschutz. (West Germany)
Zeitschrift für Pflanzenkrankheiten Pflanzenpathologie und Pflanzenschutz

Z. Pflphysiol. (West Germany)
Zeitschrift für Pflanzenphysiologie

Zap. Voronezh. Sel'sk-khoz. Inst. (U.S.S.R.)
Zapiski voronezhskogo sel'skokhozyaistvennogo Instituta

Zashch Rast. (Mosc.) (U.S.S.R.)
Zashchita rastenii (Moscow)
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Zashch. Rast. Vred. Bolezn. (U.S.S.R.)
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Experiment to study the effect of the application of lime to the gram crop at Govt Seed & Demonstration Farm, Sindewahi. Nat. Index Agric. Fld Expts Maharashtra. 8-1:1948-53, 535. IARS, ICAR, Delhi. 1962. 1692

INST AGRIC RES STAT MAHARASHTRA
Expts (3 yrs) to study the direct effect (3 levels) of P_2O_5 on gram and its residual effect on paddy at the Agric. Res. Stn Vadagaon. Nat. Index Agric. Fld Expts Maharashtra. 8-1:1948-53, 536-537. IARS, ICAR, Delhi. 1962. 1693

INST AGRIC RES STAT MAHARASHTRA
Expts to study the effect of gram grown with & without P on the succeeding cereal crop of paddy at the Agric. Res. Stn Kopergaon. Nat. Index Agric. Fld Expts Maharashtra. 8-2:1954-59, 38. IARS, ICAR, Delhi. 1965. 1694

INST AGRIC RES STAT MAHARASHTRA
Expts to study the effect of gram raised with & without P on the succeeding cereal crop of paddy at Grass Res. Stn Kosbad. Nat. Index Agric. Fld Expts Maharashtra. 8-2:1954-59, 39. IARS, ICAR, Delhi. 1965. 1695

INST AGRIC RES STAT MAHARASHTRA
Expts to study the residual effect of gram raised with & without P on the succeeding wheat crop at the Agric. Res. Stn Mohol. Nat. Index Agric. Fld Expts Maharashtra. 8-2:1954-59, 203. IARS, ICAR, Delhi. 1965. 1696

INST AGRIC RES STAT MAHARASHTRA
Expts (2 yrs) to study the effect of leguminous crops (gram) grown with & without P on wheat crop at Govt Expt Farm Tharsa. Nat. Index Agric. Fld Expts Maharashtra. 8-2:1954-59, 234-235. IARS, ICAR, Delhi. 1965. 1697

INST AGRIC RES STAT MAHARASHTRA
Expts to study the effect of gram grown with & without P on the succeeding cereal crop of jowar at the Agric. Res. Stn Mohol. Nat. Index Agric. Fld Expts Maharashtra. 8-2:1954-59, 355. IARS, ICAR, Delhi. 1965. 1698

INST AGRIC RES STAT MAHARASHTRA
Expts (5 yrs) to compare the efficiency of organic & inorganic manures on gram at Agric. Res. Stn Badnapur. Nat. Index Agric. Fld Expts Maharashtra. 8-2.1954-59, 534-537. IARS, ICAR, Delhi 1965. 1699

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Expt to study the effect of P on gram & its residual effect on the succeeding crop paddy at the Agric. Res. Stn Kopergaon. Nat. Index Agric. Fld Expts Maharashtra. 8-2:1954-59, 537-538. IARS, ICAR, Delhi. 1965. 1700

INST AGRIC RES STAT MAHARASHTRA
Expt to study the effect of P on gram & its residual effect on the succeeding wheat crop at Agric. Res. Stn Mohol. Nat. Index Agric. Fld Expts Maharashtra. 8-2:1954-59, 538. IARS, ICAR, Delhi. 1965. 1701

INST AGRIC RES STAT MAHARASHTRA
Expts to study the effect of P on gram & its residual effect on the succeeding crop of jowar at the Agric. Res. Stn Mohol. Nat. Index Agric. Fld Expts Maharashtra. 8-2:1954-59, 539. IARS, ICAR, Delhi. 1965. 1702

INST AGRIC RES STAT MAHARASHTRA
Expt to find out the optimum doses of N, P & K for gram at Agric. Res. Stn Niphad. Nat. Index Agric. Fld Expts Maharashtra. 8-2:1954-59, 539-540. IARS, ICAR, Delhi. 1965. 1703

INST AGRIC RES STAT MAHARASHTRA
Expts to study the effect of N in combination with P (in three levels of each) on gram at the Govt Exptl Farm, Nagpur. Nat. Index Agric. Fld Expts Maharashtra. 8-2: 1954-59, 540. IARS, ICAR, Delhi.1965. 1704

INST AGRIC RES STAT MAHARASHTRA
Expts (2 yrs) to study the residual effect of different manures applied to the previous crop on the yield of succeeding gram crop at the Agric. Coll. Farm Poona. Nat. Index Agric. Fld Expts Maharashtra. 8-2: 1954-59, 540-541. IARS, ICAR, Delhi. 1965. 1705

INST AGRIC RES STAT MAHARASHTRA
Expts to study the effect of $ZnSO_4$ (three levels) on gram at the Agric. Res. Stn Sholapur. Nat. Index Agric. Fld Expts Maharashtra. 8-2:1954-59, 542. IARS, ICAR, Delhi. 1965. 1706

INST AGRIC RES STAT MAHARASHTRA
Expts to study the residual effect of organic & inorganic manures (N 3 levels, P & FYM at 2 levels) along with spacing 9 x 12") on gram at the Agric. Res. Stn Kopergaon. Nat. Index Agric. Fld Expts Maharashtra. 8-2:1954-59, 552-553. IARS, ICAR, Delhi. 1965. 1707

INST AGRIC RES STAT MAHARASHTRA
Expts (3 yrs) to find out the most economic spacing 12 & 15", seed rate (30 & 40 lbs/ac) and manurial dose (2 levels of NPK) for gram at the Agric. Res. Stn Mohol. Nat. Index Agric. Fld Expts Maharashtra. 8-2:1954-59, 553-555. IARS, ICAR, Delhi. 1965. 1708

INST AGRIC RES STAT MAHARASHTRA
Expts to find out the optimum seed rate and manurial (NPK) dose for gram (*Cicer arietinum*) at the Agric. Res. Stn Karjat. Nat. Index Agric. Fld Expts Maharashtra. 8-2: 1954-59, 849-850. IARS, ICAR, Delhi. 1965. 1709

INST AGRIC RES STAT MYSORE
Expts (2 yrs) to study the effect of gram grown with 4 levels of P or without on the succeeding cereal crop, wheat at the Agric. Res. Stn Bijapur. Nat. Index Agric. Fld Expts Mysore. 9-1:1948-53, 151. IARS, ICAR, Delhi. 1962. 1710

INST AGRIC RES STAT MYSORE
Expt to determine the NPK requirement of gram so as to obtain maximum yield at the Agric. Res. Stn Dharwar. Nat. Index Agric. Fld Expts Mysore. 9-1:1948-53, 400. IARS, ICAR, Delhi. 1962. 1711

INST AGRIC RES STAT MYSORE
Expts (4 yrs) to study the effect of micro nutrients (Zn, Mg, Cu, Na & Bo) on gram crop at the Agric. Res. Stn Bailhongal. Nat. Index Agric. Fld Expts Mysore. 9-2: 1954-59, 445-447. IARS, ICAR, Delhi. 1965. 1712

INST AGRIC RES STAT MYSORE
Expts (3 yrs) to determine the N, P & K requirements of gram at the Agric. Res. Stn Dharwar. Nat. Index Agric. Fld Expts Mysore. 9-2:1954-59, 447-449. IARS, ICAR, Delhi. 1965. 1713

INST AGRIC RES STAT MYSORE
Expts (4 yrs) to study the residual effect of gypsum & FYM on gram at the Agric. Res. Stn Kaladgi. Nat. Index Agric. Fld Expts Mysore. 9-2:1954-59, 449-451. IARS, ICAR, Delhi. 1965. 1714

INST AGRIC RES STAT MYSORE
Expts in the cultivators fields to compare the responses of leguminous crops to alternative sources & levels of phosphate in Belgaum. Nat. Index Agric. Fld Expts Mysore. 9-2:1954-59, 463. IARS, ICAR, Delhi. 1965. 1715

INST AGRIC RES STAT MYSORE
Expts in the cultivators fields to compare the response of gram to alternative sources and levels of phosphate in North Kanara. Nat. Index Agric. Fld Expts Mysore. 9-2:1954-59, 463-464. IARS, ICAR, Delhi. 1965. 1716

INST AGRIC RES STAT ORISSA
Expts to study the effect of direct application of phosphate (40 & 80 lbs P_2O_5/ac) on a legume (gram, pea) verses direct effect of N (15 & 30 lbs/ac) to the succeeding rice crop at the M.A.E. Farm, Barapalli. Nat. Index Agric. Fld Expts Orissa. 10-2: 1954-59, 43. IARS, ICAR, Delhi. 1965. 1717

INST AGRIC RES STAT ORISSA
Studies to compare the response of gram to alternate sources (Dicalcium/Super) & levels (30 & 60 lbs/ac) of P (in Simple Fertilizer Trials) in cultivators fields Mayurbhanj. Nat. Index Agric. Fld Expts Orissa. 10-2:1954-59, 165. IARS, ICAR, Delhi. 1965. 1718

INST AGRIC RES STAT PUNJAB
Expts to study the effect of application of super (50, 75 & 100 lbs P_2O_5/ac) to gram crop at the Agric. Res. Stn Ferozepur. Nat. Index Agric. Fld Expts Punjab. 11-1: 1948-53, 237. IARS, ICAR, Delhi. 1962.1719

INST AGRIC RES STAT PUNJAB
Expts to find suitable manurial treatments (25 lbs P_2O_5 or equal composted/uncomposted bonem al with or without 25 lbs N/ac) for gram at the Agric. Res. Stn Rohtak. Nat. Index Agric. Fld Expts Punjab. 11-1:1948-53, 238-239. IARS, ICAR. Delhi. 1962. 1720

INST AGRIC RES STAT PUNJAB
Expts to find the best manure (with or without N 24 & P 25 lbs/ac along/in combination) at the Agric. Res. Stn Rohtak, for Kabuli gram. Nat. Index Agric. Fld Expts Punjab. 11-1:1948-53, 239. IARS, ICAR, Delhi. 1962. 1721

INST AGRIC RES STAT PUNJAB
Expts to study the effect of N fertilizers (Amm. sulphate 123 & 164 lbs/ac) on the yield of gram at the Agric. Farm Rohtak. Nat. Index Agric. Fld Expts Punjab. 11-1: 1948-53, 239. IARS, ICAR, Delhi. 1962. 1722

INST AGRIC RES STAT PUNJAB
Expts to study the effect of P_2O_5 (50, 75 & 100 lbs/ac) on Kabuli gram at the Agric. Res. Stn Rohtak. Nat. Index Agric. Fld Expts Punjab. 11-1:1948-53, 240. IARS, ICAR, Delhi. 1962. 1723

INST AGRIC RES STAT PUNJAB
Expts to study the effect of application of P_2O_5 (50 lbs/ac) in combination with N (50 & 100 lbs/ac) applied to the previous crops (gram, guar, etc.) on the succeeding cotton at the Cott. Res. Stn Abohar. Nat. Index Agric. Fld Expts Punjab. 11-1: 1948-53, 375-376. IARS, ICAR, Delhi. 1962. 1724

INST AGRIC RES STAT PUNJAB
Expts to study the effect of application of P_2O_5 (50 lbs/ac) in combination with N (50 & 100 lbs/ac) applied to previous crop (gram, guar, etc.) on the succeeding cotton at the Cott. Res. Stn Jullundur. Nat. Index Agric. Fld Expts Punjab. 11-1: 1948-53, 396. IARS, ICAR, Delhi. 1962. 1725

INST AGRIC RES STAT PUNJAB
Studies to compare the effect of Amm. sulphate (20 lbs N/ac) and superphosphate (50 lbs/ac) and their combinations/and without on the yield of gram at the Distt. Demonst. Farm Ambala. Nat. Index Agric. Fld Expts Punjab. 11-2:1954-59, 237. IARS, ICAR, Delhi. 1965. 1726

INST AGRIC RES STAT PUNJAB
Expts to study the effect of superphosphate (50, 75 & 100 lbs/ac) on gram crop at the Agric. Exptl Farm Ferozepur. Nat. Index Agric. Fld Expts Punjab. 11-2:1954-59, 237-238. IARS, ICAR, Delhi. 1965. 1727

INST AGRIC RES STAT PUNJAB
Expts to study the effect of N, P & K each at 25 lbs/ac (& their combinations)/and without on gram at the Soil Res. Substn Rohtak. Nat. Index Agric. Fld Expts Punjab. 11-2.1954-59, 238. IARS, ICAR, Delhi. 1965. 1728

INST AGRIC RES STAT PUNJAB
Expts to study the effect of N (25) & P (25 & 50 lbs/ac) and their combinations on gram at the Soil Res. Substn Rohtak. Nat. Index Agric. Fld Expts. Punjab. 11-2:1954-59, 238-239. IARS, ICAR, Delhi. 1965. 1729

INST AGRIC RES STAT PUNJAB
Expts (2 yrs) to study the effect of (3 different sources of) N (at 25 lbs/ac) & P (25 & 50 lbs P_2O_5/ac) and their combinations on gram crop at the Soil Res. Substn Rohtak. Nat. Index Agric. Fld Expts Punjab. 11-2:1954-59, 239-240. IARS, ICAR, Delhi. 1965. 1730

INST AGRIC RES STAT PUNJAB
Expts (2 yrs) to study the effect of N, P & K (15, 30 & 30 lbs/ac respectively) and their combinations on the yield of gram at the Soil Res. Substn Rohtak. Nat. Index Agric. Fld Expts Punjab. 11-2:1954-59, 240-241. IARS, ICAR, Delhi. 1965. 1731

INST AGRIC RES STAT PUNJAB
Expts to study the effect of P (50, 75 & 100 P_2O_5/ac) on gram at the Millet Breeding Substn Rohtak. Nat. Index Agric. Fld Expts Punjab. 11-2:1954-59, 241. IARS, ICAR, Delhi. 1965. 1732

INST AGRIC RES STAT PUNJAB
Studies (2 yrs) (in the Simple Fertilizer Trials) to compare the response of gram to alternative sources (Dicalcium & Super) and levels (30 & 60 lbs P_2O_5/ac) in the cultivators fields in Ambala. Nat. Index Agric. Fld Expts Punjab. 11-2:1954-59, 241-242. IARS, ICAR, Delhi. 1965. 1733

INST AGRIC RES STAT PUNJAB
2 yrs study (in the Simple Fertilizer Trials) to compare the response of gram to alternative sources (Dical/super) and levels (30 & 60 lbs P_2O_5/ac) in the cultivators fields, Ferozepur. Nat. Index Agric. Fld Expts Punjab. 11-2:1954-59, 242-243. IARS, ICAR, Delhi. 1965. 1734

INST AGRIC RES STAT PUNJAB
2 yrs study (in the Simple Fertilizer Trials) to compare the response of gram to alternative sources (Dicamcium/Super) & levels of P (30 & 60 lbs P_2O_5/ac) in the cultivators fields, Hissar. Nat. Index Agric. Fld Expts Punjab. 11-2:1954-59, 243. IARS, ICAR, Delhi. 1965. 1735

INST AGRIC RES STAT PUNJAB
2 yrs tudy (in the Simple Fertilizer Trials) to compare the response of gram to alternative sources (Dicalcium/Super) & levels of P (30 & 60 lbs P_2O_5/ac) in the cultivators fields, Hoshiarpur. Nat. Index Agric. Fld Expts Punjab. 11-2·1954-59, 244. IARS, ICAR, Delhi. 1965. 1736

INST AGRIC RES STAT PUNJAB
Expts (2-4 yrs) to study (in the Simple Fertilizer Trials) to compare the response of gram to alternative sources (Dicalcium/Super) & levels of P (30 & 60 lbs P_2O_5/ac) in the cultivators fields, Ludhiana, Karnal, Jullundur, Patiala & Sangrur. Nat. Index Agric. Fld Expts Punjab. 11-2:1954-59, 245-247. IARS, ICAR, Delhi. 1965. 1737

INST AGRIC RES STAT RAJASTHAN
Expt to study the effect of catalysts (Fe, sulpha, Pot. permanganate etc.) with & without farm yard manure (2 tons/ac) on germination, growth & yield of gram at the Govt Farm Bassi. Nat. Index Agric. Fld Expts Rajasthan. 12-1:1948-53, 75-76. IARS, ICAR, Delhi. 1962. 1738

INST AGRIC RES STAT RAJASTHAN
Expt to study the effect of different trace elements (Fe, sulphate, Amm. molybdate, Zinc sulphate & Borax in different doses on gram at the Govt Farm, Kotah. Nat. Index Agric. Fld Expts Rajasthan. 12-1:1948-53, 76-77. IARS, ICAR, Delhi. 1962. 1739

INST AGRIC RES STAT RAJASTHAN
Expt to study the effect of a catalyst with & without (2 tons/ac) farm yard manure on germination, growth & yield of gram at the Govt Farm Kotah. Nat. Index Agric. Fld Expts Rajasthan. 12-1:1948-53, 77. IARS, ICAR, Delhi. 1962. 1740

INST AGRIC RES STAT RAJASTHAN
Expt to find out the effect of different doses of P (20 & 40 lbs P_2O_5/ac) on gram at Govt Farm Bassi. Nat. Index Agric. Fld Expts Rajasthan. 12-3.1954-59, 174-175. IARS, ICAR, Delhi. 1965. 1741

INST AGRIC RES STAT RAJASTHAN
Expts (4 yrs) to study the effect of catalyst Fe sulphate, Pot permanganate with & without (2 tons of) farmyard manure on the yield of gram at the Govt Farm, Bassi. Nat. Index Agric. Fld Expts Rajasthan. 12-2·1954-59, 175-177. IARS, ICAR, Delhi. 1965. 1742

INST AGRIC RES STAT RAJASTHAN
Expts (2 yrs) to study the effect of trace elements (Borax, $FeSO_4$) at the rate of 10 & 20 lbs/ac on the yield of gram at the Agric. Res. Stn Kotah. Nat. Index Agric. Fld Expts Rajasthan. 12-2:1954-59, 177-178. IARS, ICAR, Delhi. 1965. 1743

INST AGRIC RES STAT RAJASTHAN
Expts (2 yrs) to study the effect of different levels of N P K (20/20 & 40/20) on the yield of gram at the Agric. Res. Stn Sriganganagar. Nat. Index Agric. Fld Expts Rajasthan. 12-2:1954-59, 179-180. IARS, ICAR, Delhi. 1965. 1744

INST AGRIC RES STAT RAJASTHAN
Expt to study the effect of different trace elements ($FeSO_4$, $ZnSO_4$, $MgSO_4$ & Borax at the rate of 10 & 15 lbs/ac) on the yield of gram at the Agric. Res. Stn Sriganganagar. Nat. Index Agric. Fld Expts Rajasthan. 12-2:1954-59, 180. IARS, ICAR, Delhi. 1965. 1745

INST AGRIC RES STAT RAJASTHAN
Expt to study the effect of different trace elements ($FeSO_4$, $CuSO_4$, $ZnSO_4$, $MgSO_4$ & Borax at 10 & 15 lbs/ac) on the yield of gram at the Agric. Res.Stn Sriganganagar. Nat. Index Agric. Fld Expts Rajasthan. 12-2:1954-59, 180. IARS, ICAR, Delhi. 1965. 1746

INST AGRIC RES STAT RAJASTHAN
Expt (2 yrs) to compare the response of gram to alternative (Dical/Super) sources & levels (30/60 lbs P_2O_5/ac) of P in the cultivators fields, in Simple Fertilizer Trials Banswara. Nat. Index Agric. Fld Expts Rajasthan. 12-2:1954-59, 181-183. IARS, ICAR, Delhi. 1965. 1747

INST AGRIC RES STAT RAJASTHAN
Expts to compare the response of gram to different (30 & 60 lbs P_2O_5/ac) levels of phosphate, in the cultivators fields, Kotah. Nat. Index Agric. Fld Expts Rajasthan. 12-2:1954-59, 181. IARS, ICAR, Delhi. 1965. 1748

INST AGRIC RES STAT RAJASTHAN
Expt (2 yrs) to compare the response of legumes, gram to alternate (Dical/super) sources and levels (30/60) of P in the Simple Fertilizer Trials in the cultivators fields, Kotah. Nat. Index Agric. Fld Expts Rajasthan. 12-2:1954-59, 182-183. IARS, ICAR, Delhi. 1965. 1749

INST AGRIC RES STAT RAJASTHAN
Expts (2 yrs) to compare the response of gram to alternate (Dical/super) sources & levels (30/60 lbs P_2O_5/ac) of P in the Simple Fertilizer Trials in the cultivators fields, Sriganganagar. Nat. Index Agric. Fld Expts Rajasthan. 12-2:1954-59, 182 & 184. IARS, ICAR, Delhi. 1965. 1750

INST AGRIC RES STAT RAJASTHAN
Expt to compare the response of gram to alternative sources (Dical/super) and level (30/60 lbs P_2O_5/ac) of P in the Simple Fertilizer Trials in the cultivators fields Pali. Nat. Index Agric. Fld Expts Rajasthan. 12-2 1954-59, 183-184. IARS, ICAR, Delhi. 1965. 1751

INST AGRIC RES STAT UTTAR PRADESH
Expts to study the effect of N,P,K & Ca on the yield of gram at the Crop Physiol. Res. Stn Lucknow. Nat. Index Agric. Fld Expts U.P. 13-1:1948-53, 613. IARS, ICAR, Delhi. 1962. 1752

INST AGRIC RES STAT UTTAR PRADESH
Expt to find the proper fertilizer schedule for gram by the application of 60 lbs P_2O_5/ac (placed below 3-4" in the furrow) at the Res. Farm Orai. Nat. Index Agric. Fld Expts U.P. 13-1:1948-53, 614-615. IARS, ICAR, Delhi. 1962. 1753

INST AGRIC RES STAT UTTAR PRADESH
Expt (3 yrs) to formulate proper fertilizer schedule in important soil types for gram (with 25 & 50 lbs P_2O_5/ac) applied deep behind iron plough in furrows at the Res. Farm Kichha. Nat. Index Agric. Fld Expts U.P. 13-1:1948-53, 615 & 618-619. IARS, ICAR, Delhi. 1962. 1754

INST AGRIC RES STAT UTTAR PRADESH
Expts (2 yrs) to study the effect on cotton yield when taken after winter crops (gram, pea etc. with 30 lbs P_2O_5/ac applied or not) at Cott. Res. Stn Raya. Nat. Index Agric. Fld Expts U.P. 13-1:1948-53, 1091-1093. IARS, ICAR, Delhi. 1962. 1755

INST AGRIC RES STAT UTTAR PRADESH
Expt to study the effect of different forms (Super & Kotka) & levels (40 & 80 lbs P_2O_5/ac) of P on the yield of gram at the Inst. Crop Physiol. Lucknow. Nat. Index Agric. Fld Expts U.P. 13-2:Book 1, 1954-59, 892-893. IARS, ICAR, Delhi. 1965. 1756

INST AGRIC RES STAT UTTAR PRADESH
Expts to study the effect of different levels of P (40 & 80 lbs P_2O_5/ac) and Calcium (30 & 60 lbs CaO as Gupsum) applied alone and in combination on the yield of gram at the Crop Physiol. Inst. Lucknow. Nat. Index Agric. Fld Expts U.P. 13-2: Book 1, 1954-59, 893. IARS, ICAR, Delhi. 1965. 1757

INST AGRIC RES STAT UTTAR PRADESH
Expt to study the effect of levels 3, 6 & 9 lbs/ac and method (placement/surface application) of Ammonium molybdate on the yield of gram at the Crop Physiol. Inst. Lucknow. Nat. Index Agric. Fld Expts U.P. 13-2:Book 1, 1954-59, 893-894. IARS, ICAR, Delhi. 1965. 1758

INST AGRIC RES STAT UTTAR PRADESH
Expt to study the residual effect of different levels of N (40, 60 & 80 lbs/ac) applied to the preceding paddy crop on the yield of gram at the Reg. Res. Stn Meerut. Nat. Index Agric. Fld Expts U.P. 13-2: Book 1, 1954-59, 894-895. IARS, ICAR, Delhi. 1965. 1759

INST AGRIC RES STAT UTTAR PRADESH
Expt to study the effect of inorganic manures/trace elements (CaO, Mo, S, Bo, P) on the yield of gram at the Reg. Res. Stn Meerut. Nat. Index Agric. Fld Expts U.P. 13-2:Book 1, 1954-59, 895. IARS, ICAR, Delhi. 1965. 1760

INST AGRIC RES STAT UTTAR PRADESH
Expt to study the residual effect of different levels (15 & 30 lbs/ac) and sources (Amm. phos/Nitro phos/Super) of P applied to the preceding paddy crop on the yield of gram at the Res. Farm, Pura. Nat. Index Agric. Fld Expts U.P. 13-2:Book 1, 1954-59, 895-896. IARS, ICAR, Delhi. 1965. 1761

INST AGRIC RES STAT UTTAR PRADESH
Expt to study the residual effect of different levels of P (20 & 40 lbs P_2O_5/ac) and sources/levels of N (as urea/Amm. sulphate, 20 & 40 lbs/ac) applied to preceding paddy crop on the yield of gram at the Res. Farm, Pura. Nat. Index Agric. Fld Expts U.P. 13-2:Book 1, 1954-59, 896. IARS, ICAR, Delhi. 1965. 1762

INST AGRIC RES STAT UTTAR PRADESH
Expts (2 yrs) to study the effect of different doses of P alone (30, 60 lbs P_2O_5/ac) & in combination with N (as Amm.Phos.) on gram in the cultivators fields, Rath (Hamirpur). Nat. Index Agric. Fld Expts U.P. 13-2:Book 2, 1954-59, 897. IARS, ICAR, Delhi. 1965. 1763

INST AGRIC RES STAT UTTAR PRADESH
Expt to study the effect of different doses of P (30 & 60 lbs P_2O_5/ac) through different sources (super/bonemeal) on the yield of gram in the cultivators fields, Rath (Hamirpur). Nat. Index Agric. Fld Expts U.P. 13-2:Book 2, 1954-59, 897-898. IARS, ICAR, Delhi. 1965. 1764

INST AGRIC RES STAT UTTAR PRADESH
Expts to study the effect of different levels of P (30 & 50 lbs P_2O_5/ac) on the yield of gram in the cultivators fields, Zamania (Ghazipur). Nat. Index Agric. Fld Expts U.P. 13-2:Book 2, 1954-59, 898. IARS, ICAR, Delhi. 1965. 1765

INST AGRIC RES STAT UTTAR PRADESH
Expts to draw out suitable fertilizer (P with 30 & 60 lbs P_2O_5/ac in furrow) schedule in agriculturally important soil types for gram in the cultivators fields, Mohamadabad, (Ghazipur). Nat. Index Agric. Fld Expts U.P. 13-2:Book 2, 1954-59, 899. IARS, ICAR, Delhi. 1965. 1766

INST AGRIC RES STAT UTTAR PRADESH
Expt to compare the response of leguminous crop gram to alternative levels of Phosphate (30 & 60 lbs/ac) in the cultivators fields, Aligarh Nat. Index Agric. Fld Expts U.P. 13-2:Book 2, 1954-59, 899-900. IARS, ICAR, Delhi. 1965. 1767

INST AGRIC RES STAT UTTAR PRADESH
Expts to compare the response of legume, gram to levels of 30 & 60 lbs P_2O_5/ac in the cultivators fields, Fatehpur. Nat. Index Agric. Fld Expts U.P. 13-2:Book 2, 1954-59, 900. IARS, ICAR, Delhi. 1965. 1768

INST AGRIC RES STAT UTTAR PRADESH
Expts to compare (2 yrs) in seven locations the response of legume gram to levels of P (30 & 60 lbs P_2O_5/ac) in cultivators fields Farrukhabad, Kanpur, Laksmipur, Lucknow, Moradabad, Muzafarnagar & Pilibhit. Nat. Index Agric. Fld Expts U.P. 13-2:Book 2, 1954-59, 900-904. IARS, ICAR, Delhi. 1965. 1769

INST AGRIC RES STAT UTTAR PRADESH
Expts to compare the response of legumes, grams, to levels of P (30 & 60 lbs P_2O_5/ac) in the cultivators fields, Rae Bareilly. Nat. Index Agric. Fld Expts U.P. 13-2: Book 2, 1954-59, 904. IARS, ICAR, Delhi. 1965. 1770

INST AGRIC RES STAT UTTAR PRADESH
Expts (2 yrs) to compare the response of legumes gram to levels of P (30 & 60 lbs P_2O_5/ac) in the cultivators fields Rampur. Nat. Index Agric. Fld Expts U.P. 13-2: Book 2, 1954-59, 904-905. IARS, ICAR, Delhi. 1965. 1771

INST AGRIC RES STAT UTTAR PRADESH
Expt to compare response of legumes, gram to levels of P (30 & 60 lbs P_2O_5/ac) in the cultivators fields, Varanasi. Nat. Index Agric. Fld Expts U.P. 13-2:Book 2, 1954-59, 905. IARS, ICAR, Delhi. 1965. 1772

INST AGRIC RES STAT UTTAR PRADESH
Expt to study the effect of different levels of P (30, 60 & 90 lbs P_2O_5/ac) placed in furrows 3-6" deep on 3 different varieties of gram at the Instl Res. Farm B.R. Coll. Bichpuri, Agra. Nat. Index Agric. Fld Expts U.P. 13-2:Book 2, 1954-59, 905-906. IARS, ICAR, Delhi. 1965. 1773

INST AGRIC RES STAT UTTAR PRADESH
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Language Abbreviations

(Use with Subject and Geographic Indexes)

The following language abbreviations have been used with the numbers in the Subject and Geographic indexes and show the language of the original text of the references. English abbreviation has been avoided to save space.

Ar	Armenian
Bu	Bulgarian
Cz	Czech
Du	Dutch
E	English
Fa	Farsi
Fr	French
Ge	German
Gr	Greek
He	Hebrew
Hi	Hindi
Hu	Hungarian
In	Indonesian
It	Italian
La	Latin
Po	Portuguese
Rm	Rumanian
Rs	Russian
Sc	Serbo-Croatian
Sp	Spanish
Tu	Turkish