

# CHICKPEA BIBLIOGRAPHY

1930 TO 1974

K.B. SINGH  
AND  
L.J.G. VAN DER MAESEN



ICRISAT

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**1930 TO 1974**

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**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 Biochimie, Studii si Cercetari de Biochimie
- Acad. Sci. Hung. (Hungary)  
Academia Scientiarum Hungariae
- Acad. Sci. (Paris) C.R. Ser. D. (France)  
Academie des Sciences (Paris) Comptes Rendus Serie 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. Tec. 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

Chickpea Bibliography

- 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 Investiga-  
ciones Agronomicas., Madrid
- Anal. Inst. Cerc, agron. (Romania)  
Analele Institutului de Cercetari agrono-  
mice Academia Republicii Populare Romine
- Anal. Inst. Cerc, agron. Ser. nova (Romania)  
Analele Institutului de Cercetari agrono-  
mice 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 Farma-  
cia, Universidad de Chile
- Anales Real Soc. Espan. Fis. Quim. (Madrid)  
(Spain)  
Anales de la Real Sociedad Espanola de  
Fisica y Quimica (Madrid)
- Anales Soc. espan. Fis. Quim. (Spain)  
Anales de la Sociedade espanola de Fisica  
y Quimica
- Andhra Agric. J. (India)  
Andhra Agricultural Journal
- Ankara Nukleer Arastirma Merkezi Teknik  
Rapor (Turkey)  
Ankara Nukleer Arastirma Merkezi Teknik  
Rapor
- Ankara Univ. Ziraat Fak. Bitki Yet. Kursusil  
(Turkey)  
Ankara Universitesi, Ziraat Fakultesi,  
Bitki Yetistirme ve Islahi Kursusu
- 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 Uni-  
versita 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'alimenta-  
tion
- Ann. Rep. Indian Coun. Agric. Res. (India)  
Annual Report, Indian Council of Agricul-  
tural Research
- Ann. Sci. Nat. Bot. Biol. Veg. (France)  
Annales des Sciences Naturelles Botanique  
et Biologie Vegetale
- Ann. Sci. Univ. Besancon, Bot. (France)  
Annales Scientifiques de l'Unlversite de  
Besancon, Botanique
- Ann. Sper. Agrar. (Italy)  
Annali della Sperimentazione Agraria
- Ann. Stn. Chim-Agrar. Sper. Roma, Ser. III  
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Sperimentale di Roma, Series III Pubbl-  
cazione
- Anniv. Vol., R. bot. Gadn. Calcutta (India)  
Anniversary Volume, Royal Botanic Garden  
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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 fur Mikrobiologie
- Arkiv Bot. Stockh. andra Ser. (Sweden)  
Arkiv for 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

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- 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 Armyan-  
skoi SSR Biologicheskii Nauki
- Biologica  
Biologica
- Biol. osn. oroshaem. zeml. Moskva. (U.S.S.R.)  
Biologicheskii osnovy oroshaemogo zemlede-  
liya, Moskva
- Biotechnol. Bioengng. (U.S.A.)  
Biotechnology and Bioengineering  
Continues Journal of Biochemical and  
Microbiological Technology and Engineering
- Bitki Koruma BuI. (Turkey)  
Bitki Koruma Bulteni
- Boiss. Diagn. Ser.  
Boissier, Diagnoses Serie
- Bol. Agr. Dept. Prod. Vegetal, Secretar. Agr.,  
Ind., Com. Trabalho, Estado Minas Gerais  
(Brazil)  
Boletim de Agricultura, Departamento de  
Producao Vegetal, Secretaria da Agri-  
cultura, 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 Investi-  
gaciones agronomicas (Madrid)
- Bol. R. Soc. Esp. Hist. Nat. Secc. Biol.  
(Spain)  
Boletin de la Real Sociedad Espanola 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 espanola de Historia de la Farmacia
- Bombay Univ. J. (India)  
Bombay University Journal
- Bonplandia (Germany)  
Bonplandia
- Bonplandia (Corrientes) (Argentina)  
Bonplandia (Corrientes)
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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. PI. Industr.  
Bulletin, All-Union Institute of Plant Industry
- Bull. Appl. Bot. Genet. PI. Breed. (U.S.S.R.)  
Bulletin of Applied Botany, Genetics and Plant Breeding. Leningrad USSR = Trudi po prikladnoi Botanike, Genetike i Selektzii
- 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 Serie
- Bull. Imp. Bur. PI. 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. Sceances Inst. Roy. Colon. Beige (Belgium)  
Bulletin des Sciences de l'Institute Royale Coloniale Beige

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- Bull. Soc. Agricrs. Rabat (Morocco)  
Bulletin de la Societe des Agriculteurs  
Rabat
- Bull. Soc. Bot. Bulgarie, Sofia (Bulgaria)  
Bulletin de la Societe botanique de  
Bulgarie, Sofia
- Bull. Soc. Bot. Fr. (France)  
Bulletin de la Societe Botanique de France
- Bull. Soc. Bot. Fr., Memoires (France)  
Bulletin de la Societe Botanique de France,  
Memoires
- Bull. Soc. Chim. Biol. (France)  
Bulletin de la Societe 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 Societe d'Histoire Naturelle  
de l'Afrique du Nord
- Bull. Soc. Imp. nat. Moscow (U.S.S.R.)  
Bulletin de la Societe 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'Universite de l'Assi  
Centrale, Tashkent
- Byull. glavn. bot. Sada (U.S.S.R.)  
Byulleten Glavnogo Botanicheskogo Sada
- Byull. Vses. Inst. Rasteniévod. (U.S.S.R.)  
Byulleten Vsesoyuznogo Instituta  
Rastenlevodstva
- Byull. vses. Nauch-issled Inst. Kukur  
Byulleten Vsesoyuznogo Nauchno-issledova-  
tel'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 Internacional de Agricultura  
Tropical Series Seminars EE Colombia
- Central Food Technol. Res. Inst., Mysore  
(India)  
Central Food Technological Research Insti-  
tute, 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 - Cullacan, Sinaloa (Mexico)  
Centro de Investigaciones Agronomicas de  
Sinaloa
- CIAT (Colombia)  
Centro Internacional de Agricultura Tropical

- Cienc. Nat. (Quito) (Ecuador)  
Ciencia y Naturaleza (Quito)
- Ciencia (Mex.)  
Ciencia (Mexico)
- Ciftci. Brosurll (Turkey)  
Ciftciye Brosurll
- 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. Seanc. Acad. Sci. Paris (France)  
Comptes Rendus Hebdomadaires des Seances 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 Societe Francaise de Physiologie Vegetale
- 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
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INST AGRIC RES STAT MAHARASHTRA

Expts (5 yrs) to study the effect of a leguminous crop, gram grown with (3 levels) P<sub>2</sub>O<sub>5</sub> or without, on the succeeding cereal crop of paddy at the Agric. Res. Stn Kopergaon. Nat. Index Agric. Fid Expts Maharashtra. 8-1:1948-53, 73-77. IARS, ICAR, Delhi. 1962. 1680

INST AGRIC RES STAT MAHARASHTRA

Expts (4 yrs) to study the effect of a leguminous crop, gram grown with P<sub>2</sub>O<sub>5</sub> (at 3 levels) or without, on the succeeding cereal crop, wheat, at the Agric. Res. Stn Mohol. Nat. Index Agric. Fid Expts Maharashtra. 8-1:1948-53, 226-229. IARS, ICAR, Delhi. 1962. 1682

INST AGRIC RES STAT MAHARASHTRA

Expts (4 yrs) to study the effect of gram, raised with P<sub>2</sub>O<sub>5</sub> (at 3 levels) or without, on the succeeding cereal crop, jowar at the Agric. Res. Stn Mohol. Nat. Index Agric. Fid Expts Maharashtra. 8-1:1948-53, 346-349. IARS, ICAR, Delhi. 1962. 1683

INST AGRIC RES STAT MAHARASHTRA

Expts (5 yrs) to study the effect of gram raised with P<sub>2</sub>O<sub>5</sub> (at 3 levels) or without on the succeeding cereal crop, bajra, (*Pennisetwn typhoides*) at the Agric. Res. Stn Niphad. Nat. Index Agric. Fid Expts Maharashtra. 8-1:1948-53, 480-483. IARS, ICAR, Delhi. 1962. 1684

INST AGRIC RES STAT MAHARASHTRA

Expts to study the effect of different doses (10 & 20 lbs/ac) of ZnSO<sub>4</sub> on gram at the Agr. Res. Stn Chas. Nat. Index Agric. Fid Expts Maharashtra. 8-1:1948-53, 516-517. IARS, ICAR, Delhi. 1962. 1685

INST AGRIC RES STAT MAHARASHTRA

Expts (6 yrs) to study the effect of a legume crop gram grown with P<sub>2</sub>O<sub>5</sub> (at 3 levels) and without on the succeeding cereal crop, paddy, at the Agric. Res. Stn Kopergaon. Nat. Index Agric. Fid Expts Maharashtra. 8-1:1948-53, 517-521. IARS, ICAR, Delhi. 1962. 1686

INST AGRIC RES STAT MAHARASHTRA

Expts (6 yrs) to study the effect of gram, grown with P<sub>2</sub>O<sub>5</sub> (at 3 levels) or without on the succeeding cereal crop, jowar, at the Agric. Res. Stn Mohol. Nat. Index Agric. Fid Expts Maharashtra. 8-1:1948-53, 521-525. IARS, ICAR, Delhi. 1962. 1687

INST AGRIC RES STAT MAHARASHTRA

Expts (5 yrs) to study the effect of gram, grown with P<sub>2</sub>O<sub>5</sub> (at 3 levels) or without on the succeeding cereal crop, wheat, at the Agric. Res. Stn Mohol. Nat. Index Agric. Fid Expts Maharashtra. 8-1:1948-53, 525-528. IARS, ICAR, Delhi. 1962. 1688

## INST AGRIC RES STAT MAHARASHTRA

Expts (6 yrs) to study the effect of a legume gram grown with  $P_2O_5$  (at 3 levels) or without on the succeeding cereal crop, bajra (*Pennisetum typhoides*) at the Agric. Res. Stn Niphad. Nat. Index Agric. FID Expts Maharashtra. 8-1:1948-53, 529-532. IARS, ICAR, Delhi. 1962. 1689

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## 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. FID 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. FID Expts Maharashtra. 8-2:1954-59, 534-537. IARS, ICAR, Delhi. 1965. 1699

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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. FId Expts Punjab. 11-1:1948-53, 239. IARS, ICAR, Delhi. 1962. 1721

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## INST AGRIC RES STAT PUNJAB

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## INST AGRIC RES STAT UTTAR PRADESH

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## 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

