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The Literature of Arthropods Associated with Soybeans

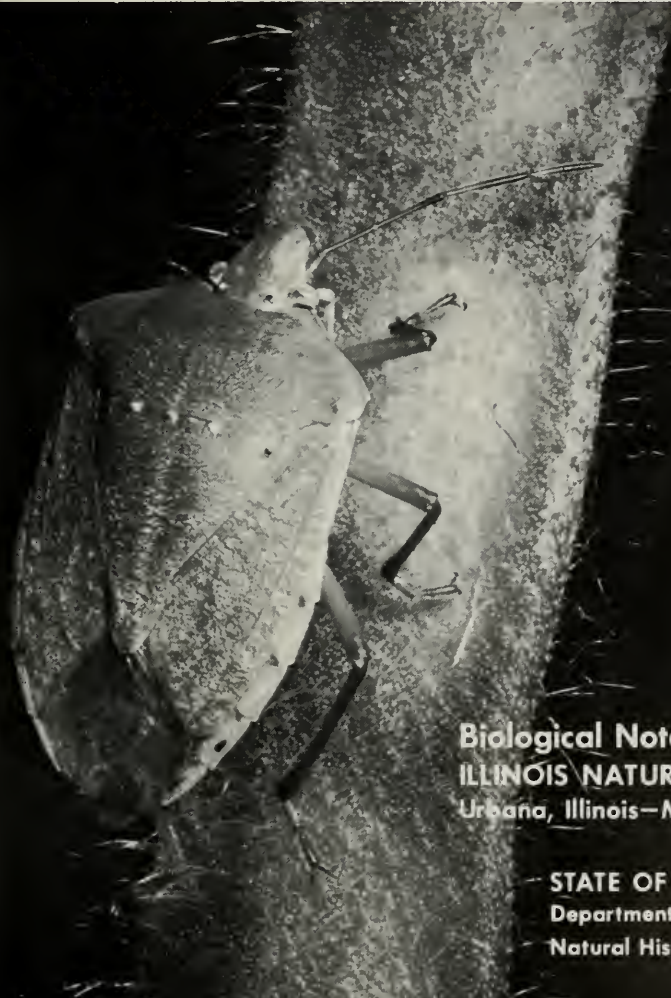
II. A BIBLIOGRAPHY OF THE

SOUTHERN GREEN STINK BUG

Nezara viridula (Linneaus)

(Hemiptera: Pentatomidae)

N. B. DeWitt • G. L. Godfrey



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Distribution of Southern Green Stink Bug

Nezara viridula



Map courtesy of Commonwealth Agricultural Bureaux

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II. A BIBLIOGRAPHY OF THE SOUTHERN GREEN STINK BUG,

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THIS BIBLIOGRAPHY ON *Nezara viridula* (L.) (Hemiptera: Pentatomidae) is the second in a series contributing to the knowledge of the biology and control of arthropods on soybeans. In philosophy and scope the literature coverage in this bibliography is similar to that explained by Nichols and Kogan¹ in their publication on the Mexican bean beetle. This bibliography, like the one on the Mexican bean beetle, is not limited to papers dealing with the southern green stink bug on soybeans. Relatively few of the listed references are concerned specifically with soybeans. As for the previous bibliography in this series, the interest of the references will go beyond the scope of soybean entomology.

The titles in the present list were obtained from standard reference sources and cross references. The bibliography is as complete as possible with no deliberate screening. A few of the references have not been specifically searched, due to the inter-library loan service at the University of Illinois being unable to obtain the references in question. These references are designated with an asterisk (*), denoting that the authors have not seen them. A few of these are not fully cited but have been retained.

References to reports in the USDA *Cooperative Economic Insect Report*, USDA *Insect Pest Survey Bulletin*, and Canadian *Insect Pest Review* were not included, for their indexes are very complete. Interested researchers are urged to consult them for information pertaining to southern green stink bug distribution and damage.

The references are numbered and tabulated by subject and periods of publication (see pages 18 and 19), a decade being the smallest period considered. A reference can appear more than once in the subject index. This procedure was used to make the cross referencing for the index as complete as possible.

Abbreviations of periodicals used in this publication appear in full in a listing at the end of the paper.

There are phytophagous species of stink bugs (Pentatomidae) that feed on soybeans in almost every major soybean producing region in the world. Based on a cosmopolitan distribution and the degree of feeding damage, one

of the most serious species in *N. viridula* (L.), commonly called the southern green stink bug in the United States. The species presumably originated in southern Asia and subsequently spread to the New World. The first New World record for the species is from the West Indies, according to Fabricius (1798), who called it *Cimex spirans*. Other early records are from Jamaica, St. Domingo, and Venezuela (Amyot 1845). Sagra (1857) later recorded it from Cuba. Distant's (1880) localities include Costa Rica and the southern United States, including Texas. The records suggest a somewhat rapid means of dispersal. Wind might be one primary means. Distant (1880) stated that the species was blown on board ship more than 100 miles southwest of Madagascar.

The stink bug feeds on the pods and developing grain, causing pitting of seed, and lowers market value and quality of grain harvests. Its selection of host is not restricted to soybeans or legumes in general. Hoffman (1935) revealed that *N. viridula* is known to feed on three families of monocots and 29 families of dicots with preferences for the Gramineae and Leguminosae, respectively. Perhaps it is this euryphytophagous behavior that has complicated efforts to develop satisfactory control programs for the pest.

The nomenclatorial history of the name *Nezara viridula* (L.) is somewhat exhaustive considering the number of synonyms involved. Those wishing a systematic account of this should consult Freeman's (1940) paper. It should suffice here to say that the frequently encountered names of "smaragdula," "torquata," and "aurantiaca" refer to three distinct color varieties, but have no taxonomic standing.

We are grateful to Mr. K. S. Park for translating several of the articles written in Japanese. Drs. Richard Froeschner and M. Kogan, Miss Martha P. Nichols, and Messrs. J. R. DeWitt and D. W. Webb provided suggestions and assistance during the compilation of the bibliographic entries. Mrs. J. Jansen typed the final copy of the bibliography.

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TABLE OF REFERENCES BY SUBJECT AND PERIOD OF PUBLICATION

| SUBJECT \ YEAR | PRIOR TO 1800 | 1800-1849 | 1850-1899 | 1900-1909 | 1910's | 1920's |
|--|---|--|---|---|--|--|
| TAXONOMY | 146,147,148,149, 150,183,184,322, 323,504,540 | 8,9,98,134, 151,175,211,212, 305,414,437,438, 589,617 | 111,123,155,176, 192,232,303,311, 344,381,433,439, 456,461,469,489, 490,491,492,493, 515,542 | 124,125,126,233, 235,293,294,341, 524 | 40,158,420,507, 527,628 | 49,141,213,416, 462 |
| DISTRIBUTION | 146,147,148,149, 150,183,322,323, 540 | 8,151,175,211, 212,305,437,589 | 111,123,155,176, 231,232,311,433, 456,461,469,489, 490,491,492,493, 514 | 124,126,235,294, 341,524,525,526 | 16,17,39,158, 165,245,257,331, 337,494,507,527, 628 | 49,141,182,213, 345,382,385,495, 611 |
| LIFE HISTORY | | | | 341 | 17,257,331,450, 549 | 22,131,132,182, 241,295,390,505, 557,597 |
| ECOLOGY | | | | | 4,254,257 | 132 |
| GENETICS | | | | | 599,600 | 400 |
| MORPHOLOGY & PHYSIOLOGY | | 134 | 466 | | 76,257 | 132,258 |
| ECONOMIC ROLE & DAMAGE | | | 13,238,303 | 339,341 | 4,15,16,18,35, 36,37,84,112, 158,165,216,242, 243,245,257,331, 377,409,445,511, 544,545,546,547, 548,549,590,619, 620 | 5,19,20,21,119, 120,131,132,135, 182,236,240,244, 252,253,295,296, 302,359,360,378, 382,389,390,391, 398,415,458,460, 462,481,484,496, 512,518,529,530, 531,553,554,556, 561,562,583,584, 585,586,587,592, 596,598,608,611 |
| HOST SELECTION & FEEDING BEHAVIOR | | | 14,34,238,303, 351,442 | 126,339,341 | 17,35,37,77,101, 112,158,165,242, 243,254,256,257, 337,409,420,550 | 119,120,131,132, 177,182,236,240, 241,295,398,417, 436,460,474,483, 496,512,552,553, 556,557,559,560, 561,582,592,597, 607,609 |
| DISEASE TRANSMISSION | | | | | 15,406,407,408, 409,511,580,581, 620 | 120,187,296,398, 475,481,495,512, 521,598,609 |
| TOXICOLOGY | | | | | | |
| CHEMICAL CONTROL | | | | 339 | 165,257,543,544 | 22,131,132,135, 390,460,484,556, 596 |
| BIOLOGICAL-CUL- TURAL-MECHAN- ICAL CONTROL | | | | 308,339 | 4,17,18,201,242, 243,257,331,544, 545,546,547,549, 550,551,580,619, 620 | 19,22,119,132, 133,166,182,236, 240,252,295,355, 359,360,390,392, 481,496,498,553, 554,555,556,557, 558,559,560,561, 562,582,584,592, 596,597,598,608, 621 |

| 1930's | 1940's | 1950's | 1960's | 1970's | SOYBEAN |
|---|--|--|--|-----------------|---|
| 170,508,532, 6 | 162,482,539 | 52,79,161,204, 239,298,304,459, 517,618 | 78 | 629 | |
| 72,73,88, 1,342,356,395, 1,532,626 | 162,189,313,317, 412,427,539,595 | 42,79,83,93, 136,146,217,298, 304,309,310,358, 517 | 75,78,115,199, 270,276,285,291, 366,411,418,446, 624 | 93,275,428,629 | |
| 53,259,356, 1,374,379,393, 1,396,404,434, 1,577,578, 1,627 | 106,107,143,164, 189,312,380,421, 472,488 | 52,92,108,170, 181,204,298,397, 517,607 | 78,97,140,222, 223,260,263,264, 265,266,267,268, 269,270,271,272, 273,276,277,279, 280,282,284,285, 287,288,289,291, 362,367,372,388, 399,446,501 | 274,275 | 362,388 |
| 259,355 | 81,472 | 52,108,178,204 | 2,97,115,185, 186,222,223,224, 225,227,228,229, 250,260,263,264, 265,266,267,268, 269,270,273,276, 277,279,280,281, 282,283,284,285, 286,287,288,289, 290,291,367,386, 387,399,411 | 274,275,591 | |
| | | 239,335,506 | 291,624 | 274,275 | |
| 1,332,333,334, 2 | 28,162 | 52,197,204,298, 353,419,459,517 | 50,78,97,156, 157,179,180,185, 186,191,264,282, 285,291,292,352, 446,624 | 274,275,591 | |
| 1,23,24,26,51, 58,60,63,64, 73,87,130, 8,139,152,160, 3,188,190,198, 0,202,210,215, 6,219,259,307, 9,383,396,404, 3,476,485,502, 2,532,533,534, 5,536,564,565, 7,612,626,627 | 29,30,45,55, 80,82,102,103, 106,107,127,128, 164,167,171,189, 194,313,315,316, 317,318,319,320, 324,325,326,327, 343,376,380,421, 422,444,454,472, 473,477,480,486, 488,538,541,572, 575,578 | 38,52,68,83, 89,91,92,108, 121,136,137,144, 145,161,172,181, 193,195,196,251, 261,262,328,354, 413,423,432,435, 443,449,451,487, 517,605,606,615 | 1,2,78,97,113,115, 140,173, 199,263,276,361, 362,363,366,369, 371,372,388,418, 424,425,457,465, 499,501,510,537, 616 | 275,330 | 113,173,262,330, 361,362,363,388, 510 |
| 7,24,25,26, 54,56,57, 62,63,64,71, 73,87,130, 9,152,160,188, 8,202,218,219, 0,230,259,347, 6,373,374,375, 9,396,470,519, 2,533,563,626, 7 | 28,44,80,82, 86,102,103,106, 107,142,167,189, 317,321,327,380, 421,454,472,473, 480,486,497,538, 572,573,574,594 | 38,41,42,52, 83,89,91,100, 108,121,136,137, 144,145,181,261, 298,309,349,358, 397,431,435,443, 449,451,487,517, 606,607 | 3,43,75,78, 97,114,140,199, 269,270,271,278, 279,284,285,291, 361,362,363,366, 399,418,446,447, 465,500,501,537, 616 | 274,275,330,610 | 330,361,362,363, |
| 1,160,190,210, 1,346,470,588 | 214,306,327 | 42,117,178,262, 348,405,615,625 | 2,173,499,616 | 330 | 173,262,330 |
| | | | 370 | | |
| 1,24,57,58, 0,138,395,485, 2,535,570,627 | 11,30,31,32,55, 65,74,85,95, 103,106,107,128, 129,153,154,169, 203,207,208,209, 247,248,249,327, 343,350,376,412, 421,441,448,473, 477,480,486,509, 576,579,613,614, 622 | 38,68,121,136, 137,144,145,170, 174,181,193,251, 262,328,336,449, 451,487,605,606, 607,615 | 1,140,173,272, 362,363,364,366, 370,372,388,411, 424,425,499,501, 513,616 | | 173,362,363,388, 513 |
| 7,26,27,47, 6,57,59,60,61, 2,63,64,71,72, 3,104,105,159, 98,210,237,255, 59,374,379,383, 84,303,394,395, 96,401,402,403, 04,430,434,470, 23,532,536,563, 64,565,566,567, 68,569,570,577, 78,612 | 10,29,55,65,66, 67,80,81,90,95, 96,106,107,118, 127,205,206,312, 313,314,315,316, 317,319,320,321, 325,327,380,412, 421,422,426,472, 477,478,479,480, 486,488,503,538, 541,543,572,573, 574,576 | 42,52,92,108, 109,122,144,145, 170,178,181,328, 397,410,413,423, 431,449,487,607 | 97,110,112,114, 115,116,140,168, 222,224,226,228, 229,268,269,270, 271,272,276,278, 279,285,290,291, 340,366,368,387, 399,411,418,424, 425,440,446,463, 464,520,601,602, 604 | 275 | |

PERIODICAL ABBREVIATIONS

- Acta Soc. Sci. Fenn. Acta Societatis Scientiarum Fennicae (Helsingforsia).
- Acta Zool. Lilloana. Acta Zoologica Lilloana.
- Agr. Gaz. N. S. W. Agricultural Gazette of New South Wales.
- Agr. Inform. Agricultural Information.
- Agr. J. Egypt. Agricultural Journal of Egypt.
- Agr. J. Fiji. Agricultural Journal of Fiji.
- Agr. News (Barbados). Agricultural News (Barbados).
- Agr. Sci. Rev. Agricultural Science Review.
- Agron. Colon. (Paris). L'Agronomie Coloniale (Paris).
- Agron. Trop. (Maracay). Agronomia Tropical (Maracay).
- Agron. Trop. (Venezuela). L'Agronomie Tropicale (Venezuela).
- Ala. Agr. Exp. Sta. Annu. Rep. Alabama Agricultural Experiment Station Annual Report.
- Alm. Agr. Bras. (São Paulo). Almanaque Agrícola Brasileiro (São Paulo).
- Amer. Assoc. Advan. Sci. Publ. Ser. American Association for the Advancement of Sciences Publication Series (Washington, D. C.).
- Amer. Nut. J. American Nut Journal.
- Anim. Behav. Animal Behaviour.
- Ann. Hist. Natur. Mus. Nat. Hung. Annales Historico-Naturales Musei Nationalis Hungarici (Budapest).
- Ann. Soc. Entomol. Belg. Annales de la Société Entomologique de Belgique.
- Ann. Soc. Entomol. Fr. Annales de la Société Entomologique de France.
- Ann. Soc. Linn. Lyon (Paris). Annales de la Société Linnéenne de Lyon (Paris).
- Ann. Fac. Agr. Univ. Pisa, New Ser. Annali della Facoltà di Agraria. Università di Pisa. New Series.
- Ann. Entomol. Soc. Amer. Annals of the Entomological Society of America.
- Ann. Mag. Natur. Hist. Annals and Magazine of Natural History.
- Ann. S. Afr. Mus. Annals of the South African Museum.
- Ann. Univ. Stellenbosch. Annals of the University of Stellenbosch.
- Annu. Bull. Agr. Dep. Nigeria. Annual Bulletin of the Agricultural Department, Nigeria.
- Annu. Rep. Commonw. Sci. Ind. Res. Org. (Australia). Annual Report of the Commonwealth Scientific and Industrial Research Organization (Australia).
- Annu. Rep. Coun. Sci. Ind. Res. (Australia). Annual Report of the Council for Scientific and Industrial Research (Australia).
- Antigua Rep. Agr. Dep. Antigua Report of the Agricultural Department (Barbados).
- Appl. Entomol. Zool. Applied Entomology and Zoology.
- Araneta J. Agr. Araneta Journal of Agriculture.
- Arch. Biochem. Biophys. Archives of Biochemistry and Biophysics.
- Arch. Zool. Ital. (Torino). Archivio Zoologico Italiana (Torino).
- Argentina Minist. Agr. Circ. Argentina Ministerio de Agricultura Circular.
- Arkansas Agr. Exp. Sta. Bull. Arkansas Agricultural Experiment Station Bulletin.
- Arkansas Farm Res. Arkansas Farm Research.
- Asoc. Latinoamer. Entomol. Publ. (Bogotá). Asociación Latinoamericana de Entomología Publicación (Bogotá).
- Aust. J. Biol. Sci. Australian Journal of Biological Science.
- Aust. J. Zool. Australian Journal of Zoology.
- Aust. Zool. Australian Zoologist.
- Barbados Dep. Agr. Rep. Barbados Department of Agriculture Report.
- Biol. Vestn. (Ljubljana). Biološki Vestnik (Ljubljana).
- Bol. Tec. Inst. Agron. Est. São Paulo. Boletim Técnico Instituto Agronômico do Estado de São Paulo (Campinas).
- Bol. Tec. Inst. Agron. Sul. Boletim Técnico do Instituto Agronômico do Sul.
- Bol. Patol. Veg. Entomol. Agr. Boletín de Patología Vegetal y Entomología Agrícola (Madrid).
- Bol. Soc. Entomol. Espan. Boletín de la Sociedad Entomológica de España.
- Boll. Entomol. Agr. Patol. Veg. (Padova, Gennaio). Bollettino di Entomologia Agraria Patologia Vegetale (Padova, Gennaio).
- Boll. Lab. Zool. Generale Agr. (Portici). Bollettino di Laboratorio di Zoologia Generale e Agraria (Portici).
- Boll. Soc. Entomol. Ital. (Genova). Bollettino della Società Entomologica Italiana (Genova).
- Bragantia. Bragantia. Boletim Técnico do Instituto Agronômico do Estado de São Paulo.
- Bull. Agr. Congo Belge. Bulletin Agricole du Congo Belge (Brussels).
- Bull. Amer. Mus. Natur. Hist. Bulletin of the American Museum of Natural History.
- Bull. Buffalo Soc. Natur. Sci. Bulletin of the Buffalo Society of Natural Sciences.
- Bull. Entomol. Res. Bulletin of Entomological Research.
- Bull. Kochi Inst. Agr. Forest Sci. Bulletin of the Kochi Institute of Agriculture and Forest Science.
- Bull. Miyazaki Coll. Agr. Forest. (Miyazaki). Bulletin of the Miyazaki College of Agriculture and Forestry (Miyazaki).
- Bull. Nat. Inst. Agr. Sci. Ser. C. (Plant Pathol. Entomol.) (Tokyo). Bulletin of the National Institute of Agricultural Sciences. Series C. (Plant Pathology and Entomology) (Tokyo).
- Bull. Soc. Fouad I. Entomol. Bulletin de la Société Fouad I^{er} d'Entomologie.
- Bull. Soc. Roy. Entomol. Égypte. Bulletin de la Société Royale Entomologique d'Égypte.
- Bull. Torrey Bot. Club. Bulletin of the Torrey Botanical Club.
- Burma Entomol. Dep. Rep. Entomol. Burma Entomology Department Report of the Entomologist.
- Calif. Bur. Entomol. Plant Quar. Memo. California Bureau of Entomology and Plant Quarantine Memo.
- Can. Entomol. Canadian Entomologist.
- Cawnpore Agr. Sta. Rep. (Allahabad). Cawnpore Agricultural Station Report (Allahabad).
- Ceylon Dep. Agr. Adm. Rep. Ceylon Department of Agriculture Administration Report.
- Ceylon J. Sci. Biol. Sci. Ceylon Journal of Science. Biological Science.
- Citrus Ind. Citrus Industry.
- Citrus Mag. Citrus Magazine.
- Coimbatore Adm. Rep. Govt. Entomol. Coimbatore Administration Report of the Government Entomologist.
- Colon. Off. Rep. Misc. Ser. (London). Colonial Office Reports. Miscellaneous Series. Colonial Office (London).
- C. R. Séances Acad. Sci. (Paris). Comptes Rendus des Séances de L'Académie de Sciences (Paris).
- Coop. Econ. Insect Rep. Cooperative Economic Insect Report.
- Denschr. Med. Naturw. Ges. Jena. Denkschriften der Medicinisch-Naturwissenschaftlichen Gesellschaft zu Jena (Jena).
- Dep. Agr. Straits Settlements and Federated Malay States Sci. Ser. Department of Agriculture Straits Settlements and Federated Malay States. Science Series.
- Egypt Minist. Agr. Tech. Sci. Serv. Bull. Egypt Ministry of Agriculture Technical and Scientific Service Bulletin.
- Empire Cotton Grow. Corp. Progr. Rep. Exp. Sta. Empire Cotton Growing Corporation Progress Reports from Experiment Stations.
- Empire Cotton Grow. Rev. Empire Cotton Growing Review.
- Empire Mktg. Bd. Bull. Empire Marketing Board Publications.
- Entomol. Amer. Entomologica Americana.
- Entomol. Mem. Agr. Dep. India. Entomological Memiors of the Agricultural Department, India.
- Entomol. News. Entomological News.
- Entomol. Soc. Queensland Minut. Meet. Entomological Society of Queensland Minutes of Meeting.
- Entomol. Mon. Mag. Entomologists' Monthly Magazine.

- Extra-Rep. Agr. Exp. Sta. Formosa (Taihoku). Extra-Report of the Agricultural Experiment Station of Formosa (Taihoku).
- Facts Sug. Facts about Sugar.
- Fac. Agron. Montevideo Bol. Facultad de Agronomía de Montevideo Boletín.
- Farming S. Afr. Farming in South Africa.
- Fed. Malay States Dep. Agr. Annu. Rep. Federated Malay States Department of Agriculture Annual Report.
- Field Mus. Natur. Hist. Publ. Zool. Ser. Field Museum of Natural History. Zoological Series.
- Fla. Agr. Exp. Sta. Annu. Rep. Florida Agricultural Experiment Station Annual Report.
- Fla. Agr. Exp. Sta. Bull. Florida Agricultural Experiment Station Bulletin.
- Fla. Agr. Exp. Sta. Circ. Florida Agricultural Experiment Station Circular.
- Fla. Agr. Exp. Sta. Ext. Serv. Bull. Florida Agricultural Experiment Station Extension Service Bulletin.
- Fla. Agr. Exp. Sta. Press Bull. Florida Agricultural Experiment Station Press Bulletin.
- Fla. Bugg. Florida Buggist.
- Fla. Entomol. Florida Entomologist.
- Fla. Grower. Florida Grower.
- Fla. State Plant Bd. Quart. Bull. Florida State Plant Board Quarterly Bulletin.
- Formosan Govt. Agr. Exp. Sta. Publ. Formosan Government Agricultural Experiment Station Publication.
- Ga. Agr. Exp. Sta. Bull. Georgia Agricultural Experiment Station Bulletin.
- Ga. Coastal Plain Exp. Sta. Bull. Georgia Coastal Plain Experiment Station Bulletin.
- Ga. State Bd. Entomol. Bull. Georgia State Board of Entomology Bulletin.
- Grenada Rep. Agr. Dep. Grenada Report of the Agricultural Department (Trinidad).
- Gulf Cst. Citrus Exch. Educ. Bull. Gulf Coast Citrus Exchange Educational Bulletin.
- Hawaii Farm Sci. Hawaii Farm Science.
- Hawaii Sugar Plant. Assoc. Exp. Sta. Rep. Hawaii Sugar Planters Association Experiment Station Report.
- Hawaii. Plant. Rec. Hawaiian Planters Record.
- Iheringia (Zool.). Iheringia (Zoologia).
- Indian Mus. Notes. Indian Museum Notes.
- Inform. Fitopatol. (Bologna). Informatore Fitopatologico (Bologna).
- Insect Pest Surv. Bull. Insect Pest Survey Bulletin.
- XI Int. Kongr. Entomol. Vien. Eleventh Internationaler Kongress für Entomologie Vien.
- Iraq Dep. Agr. Adm. Rep. Iraq Department of Agriculture Administration Report.
- Ital. Agr. L'Italia Agricola (Piacenza).
- Jamaica Dep. Agr. Annu. Rep. (Kingston). Jamaica Department of Agriculture Annual Report (Kingston).
- Jamaica Gaz. Suppl. (Kingston). Jamaica Gazette Supplement (Kingston).
- Jap. J. Appl. Entomol. Zool. Japanese Journal of Applied Entomology and Zoology.
- Jap. J. Ecol. Japanese Journal of Ecology.
- J. Assoc. Soc. Bengal. Journal of the Association Society of Bengal.
- J. Aust. Inst. Agr. Sci. Journal of the Australian Institute of Agricultural Science.
- J. Bombay Natur. Hist. Soc. Journal of the Bombay Natural History Society.
- J. Coun. Sci. Ind. Res. (Australia). Journal of Council for Scientific and Industrial Research (Australia).
- J. Dep. Agr. S. Aust. Journal of the Department of Agriculture of South Australia.
- J. Dep. Agr. West. Aust. Journal of the Department of Agriculture of Western Australia.
- J. Econ. Entomol. Journal of Economic Entomology.
- J. Fed. Malay States Mus. Journal of the Federated Malay States Museums (Kuala Lumpur).
- J. Ga. Entomol. Soc. Journal of the Georgia Entomological Society.
- J. Insect Physiol. Journal of Insect Physiology.
- J. Microsc. (Paris). Journal of Microscopy (Paris).
- J. Morphol. Journal of Morphology.
- J. Mysore Agr. Exp. Union (Bangalore). Journal of the Mysore Agricultural and Experimental Union (Bangalore).
- Kansai Byochungai Kenkyukai-Ho. Kansai Byochungai Kenkyukai-Ho (Proceedings of the Kansai Plant Protection).
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