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The Protection of Soybeans, January 1980-November 1984

Citations from Agricola Concerning Diseases and Other Environmental Considerations

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The Protection of Soybeans, January 1980-November 1984

Citations from Agricola Concerning Diseases and Other Environmental Considerations

Compiled by
Charles N. Bebee
National Agricultural Library

Bibliographies and Literature
of Agriculture Number 38

United States Department of Agriculture
National Agricultural Library
Beltsville, Maryland 20705

and

United States Environmental Protection Agency
Office of Pesticide Programs
Washington, D.C. 20460

August 1985

FOREWORD

This is the second volume in a series of commodity-oriented environmental bibliographies resulting from a memorandum of understanding between the United States Department of Agriculture, National Agricultural Library (USDA-NAL), and the Environmental Protection Agency, Office of Pesticide Programs (EPA-OPP).

This close working relationship between the two agencies will produce a series of bibliographies which will be useful to EPA in the regulation of pesticides, as well as to any researcher in the field of plant or commodity protection. The broad scope of information contained in this series will benefit USDA, EPA, and the agricultural community as a whole.

The sources referenced in these bibliographies include the majority of the latest available information from United States publications involving commodity protection throughout the growing and processing stages for each agricultural commodity.

We welcome the opportunity to join this cooperative effort between USDA and EPA in support of the national agricultural community.

JOSEPH H. HOWARD, Director
National Agricultural Library

STEVEN SCHATZOW, Director
Office of Pesticide Programs

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INTRODUCTION

The citations in this bibliography are selected from works by U.S. authors on all aspects of the protection of soybeans from diseases, insects, nematodes, chemicals, or other environmental conditions which affect the yield and quality of this commodity. All citations are derived from AGRICOLA (AGRICultural OnLine Access), the master bibliographic database compiled by the National Agricultural Library for its 1.8-million-volume collection.

This is the second bibliography in a series jointly sponsored by the National Agricultural Library, United States Department of Agriculture (USDA-NAL), and the Office of Pesticides Programs, Environmental Protection Agency (EPA-OPP). Additional volumes planned in the immediate future will concern protection of cotton, wheat, grain sorghum, rice, peanuts, and tobacco.

Entries in the bibliography are subdivided into a series of subject headings used in the table of contents of the Bibliography of Agriculture and in the National Agricultural Library Catalog. Each citation appears under the subject heading assigned to the particular item. A complete author index is also included in the publication.

The Office of Pesticide Programs, EPA, has furnished technical assistance to the compiler through members of a commodity-oriented environmental data team which included:

Charles D. Reese
H. Irving Brigham
Bernard Schneider, PhD.
Richard Petrie

Any comments or questions may be forwarded to the compiler:

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EPA BIBLIOGRAPHY

RESEARCH

0001

Detection of soybean mosaic virus in seed by solid-phase radioimmunoassay. .
Bryant, G.R. Hill, J.H.; Bailey, T.B.;
Tachibana, H.; Durand, D.P.; Benner, H.I. St. Paul, American Phytopathological Society. Plant disease. Aug 1982. v. 66 (8). p. 693-695. 15 ref. (NAL Call No.: 1.9 P69P).

METEOROLOGY AND CLIMATOLOGY

0002

Analysis of yield decline in soybeans planted at nonoptimal planting dates, Baton Rouge, 1981 Planting Date Study.

Board, J.E. Baton Rouge, La., The Department. Report of projects - Louisiana Agricultural Experiment Station, Department of Agronomy. 1982. 1982. p. 107-111. (NAL Call No.: 100 L936).

0003

Comparison of meteorological and standardized timings of fungicide applications for soybean disease control (Glycine max, system based on rainfall frequency, Alabama).

Backman, P.A. Crawford, M.A.; Hammond, J.M. St. Paul, American Phytopathological Society. Plant disease. Jan 1984. v. 68 (1). p. 44-46. Includes references. (NAL Call No.: 1.9 P69P).

0004

Drought and insects: bad news for beans (Soybeans).

McPherson, R.M. Allen, W.A. San Francisco, California Farmer Publishing Co. Agrichemical age. Apr 1981. v. 25 (4). p. 16, 18, 42. ill. (NAL Call No.: 381 AG85).

0005

Effect of field weathering on the viability and vigor of soybean seed.

TeKrony, D.M. Egli, D.B.; Phillips, A.D. Madison, Wis., American Society of Agronomy. Agronomy journal. Sept/Oct 1980. v. 72 (5). p. 749-753. ill. Bibliography p. 752-753. (NAL Call No.: 4 AM34P).

0006

The effects of temperature on longevity and vitality of soybean seeds (Storage).

Bailey, Z.E. Ames, Iowa, The Service. Soybean genetics newsletter - United States, Agricultural Research Service. Apr 1982. v. 9. p. 109-111. ill. (NAL Call No.: aSB205.S7S6).

0007

Environmental sensitivity of acetylene reduction activity in prediction of N (nitrogen) fixation in soybeans (relationship between effects of water stress and temperature).

Raper, C.D. Jr. CR. Patterson, R.P. Madison, Wis., American Society of Agronomy. Agronomy journal. Sept/Oct 1980. v. 72 (5). p. 717-719. ill. 13 ref. (NAL Call No.: 4 AM34P).

0008

Influence of water stress on the diurnal exchange of mass and energy between the atmosphere and a soybean canopy (Glycine max, Nebraska).

Baldocchi, D.D. AGJDA. Verma, S.B.; Rosenberg, N.J.; Blad, B.L.; Garay, A. Madison: American Society of Agronomy. Agronomy journal. May/June 1983. v. 75 (3). p. 543-548. ill. Includes references. (NAL Call No.: 4 AM34P).

0009

Relationship between weather and soybean seed infection by *Phomopsis* sp. (Glycine max).

TeKrony, D.M. PHYTA. Egli, D.B.; Stuckey, R.E.; Balles, J. St. Paul: American Phytopathological Society. Phytopathology. June 1983. v. 73 (6). p. 914-918. Includes references. (NAL Call No.: 464.8 P56).

HISTORY

0010

The role of the Northern Regional Research Center in the development of quality control procedures for fats and oils (Soybeans, flax, history, U.S. Department of Agriculture, Agricultural Research Service, Illinois). List, G.R. Champaign, Ill. : The Society. Journal of the American Oil Chemists' Society. June 1984. v. 61 (6). p. 1017-1022. Includes references. (NAL Call No.: 307.8 J82).

0011

Use of imported natural enemies against insect pests of soybean (Biological control, prospects for future introductions, USA, includes history of importations). Jones, W.A. Jr.SCSBA. Young, S.Y.; Shepard, M.; Whitcomb, W.H. Mississippi State : Mississippi Agricultural and Forestry Experiment Station. Southern cooperative series bulletin. June 1983. Regional Research Project S-74. June 1983. (285). p. 63-77. Includes references. (NAL Call No.: 100 G29S0).

U.S. EXTENSION SERVICES

0012

Nematode advirosoy programs--status and prospects (Wheat, soybeans, economic crops, United States).

Barker, K.R. Imbriani, J.L. St. Paul, Minn. : American Phytopathological Society. Plant disease. Aug 1984. v. 68 (8). p. 735-741. ill. Includes 18 references. (NAL Call No.: 1.9 P69P).

0013

Selected factors in the adoption of a recommended farm practice / by Billy A. Dick.

Dick, Billy A. 1968. Extension Repository Collection ~Typescript ~"A project in agricultural extension education submitted to the College of Agriculture, University of Georgia, in partial fulfillment of the requirements for course credit in Agricultural Extension 921.". ix, 35 leaves ; 29 cm. Bibliography: leaves (30)-31. (NAL Call No.: S544.3.G4D5).

LEGISLATION

0014

The farm pesticide industry.

Eichers, T.R. Washington, D.C., The Department.
Extract: The primary objective of this study is to analyze the nature of the pesticide industry by smaller component markets (submarkets) and evaluate its structure, conduct, and performance. The study also examines some of the implications of pesticide regulations on the pesticide industry and on farm pesticide use. Agricultural economic report - United States Dept. of Agriculture. Sept 1980. Sept 1980. (461). 24 p. 39 ref. (NAL Call No.: A281.9 AGBA).

ECONOMICS

0015

The contribution of herbicides and other technologies to soybean production in the Corn Belt Region, 1965 to 1979.

Schroder, D. Headley, J.C.; Finley, R.M. Columbia, Missouri, The Department. Extract: This report attempts to identify the contributions of technology and weather to soybean yield variation for the period 1965 to 1979 in the Corn Belt Region. Technology variables included were genetic improvement, herbicides, and row-width. A pooled cross-sectional time-series data base was used to estimate regression parameters for herbicides and other variables. A marginal private benefit/cost return of \$2.3 per dollar of herbicide cost was estimated for additional land treated with herbicides. Paper - University of Missouri-Columbia, Dept. of Agricultural Economics. (1981?). (1981?). (1981-33). 25 p. 35 ref. (NAL Call No.: 917437(AGE)).

0016

Economic analysis of alternative controls of the soybean cyst nematode in Southern Illinois.

Reis, R.P. Noel, G.R.; Swanson, E.R. Urbana, Ill., The Department. Extract: In this report we illustrate the economic logic of analyzing various control methods for soybean cyst nematode. They are: soybean variety, crop sequence, use of a nematicide, and fertilization. Unfortunately there was no single experimental data base which had considered all of these control methods and the potential interactions among them. Consequently it was necessary to synthesize from various sources a set of soybean yield data reflecting the yield consequences of the various control measures. Illinois agricultural economics staff paper, series E, agricultural economics - Dept. of Agricultural Economics, University of Illinois. Dec 1981. Dec 1981. (81 E-203). 17 p. 12 ref. (NAL Call No.: 916937(AGE)).

0017

Economic analysis of the impact of registration cancellation of 1,2-dibromo-3-chloropropane (DBCP).

Schmidt, K.M. Swanson, E.R. Urbana, Ill., The Department. Extract: Three methods were used to evaluate the impact of cancellation of the registration of DBCP as a nematicide on the 1,830,000 acres of soybeans treated with DBCP in 1977. The first two methods specified use patterns for substitutes and also made specific assumptions about the relative efficacy of the nematicides. Economic impact estimates were made without ethylene dibromide (EDB) as an alternative and with EDB as an alternative. Illinois agricultural economics staff paper, series E, agricultural economics - Dept. of Agricultural Economics, University of Illinois. Apr 1981. Apr 1981. (81 E-161). 51 p. 51 ref. (NAL Call No.: 916937(AGE)).

0018

Economic benefits of breeding host plant resistance: a simulation approach.

Zavaleta, L.R. Kogan, M. Fargo : North Dakota State University. Extract: Economic benefits to be obtained from breeding resistance in soybean host plants are explored and measured for two modalities of antibiosis. Varieties with lower levels of mortality were found to be most useful in the presence of low insect populations. For medium populations, effective control was obtained only for varieties with high mortality levels. The effects of delays in the rate of development of the insects were comparable to some of the effects obtained with induced mortality. North Central journal of agricultural economics. Jan 1984. v. 6 (1). p. 17-27. Includes 17 references. (NAL Call No.: HD1773.A3N6).

0019

The farm pesticide industry.

Eichers, T.R. Washington, D.C., The Department. Extract: The primary objective of this study is to analyze the nature of the pesticide industry by smaller component markets (submarkets) and evaluate its structure, conduct, and performance. The study also examines some of the implications of pesticide regulations on the pesticide industry and on farm pesticide use. Agricultural economic report - United States Dept. of Agriculture. Sept 1980. Sept 1980. (461). 24 p. 39 ref. (NAL Call No.: A281.9 AG8A).

0020

Preliminary benefit analysis of captan for seed treatment of corn, small grains and soybeans.

Grube, A.H. Urbana, Ill. : The Department. Extract: This report is a preliminary benefit analysis of the fungicide captan used as a seed treatment on corn, soybeans, sorghum, wheat, barley, oats and rye. This analysis is intended as input to the risk/benefit decision by the Administrator of EPA as to the continued registration of captan under the Federal Insecticide, Fungicide, and Rodenticide Act. Illinois agricultural economics staff paper, series E agricultural economics - University of Illinois, Department of Agricultural Economics. Oct 1982. Oct 1982. (E-238). 201 p. Includes 325 references. (NAL Call No.: 916937(AGE)).

0021

Preliminary benefit analysis of PCNB for seed treatment on small grains and soybeans (pentachloronitrobenzene).

Grube, A.H. Urbana, Ill., The Department. Extract: This report is an economic impact analysis of the use of PCNB (pentachloronitrobenzene) as a seed treatment for small grains and soybeans. The information presented in this report corresponds to a specification of requirements for an economic

impact analysis that appeared in the Federal Register, Vol. 41, No. 102 (Appendix IB) on May 25, 1976. The Notice requires that the preliminary analysis identify the major and minor uses of the pesticide, estimate the quantities utilized, identify the registered alternatives and their availability, determine the change in pesticide costs associated with the use of alternatives, and evaluate the regulatory impact upon crop production and retail prices. This analysis focuses on the uses of PCNB as a seed treatment on soybeans, wheat, barley, oats and sorghum in terms of active ingredients applied per year. Illinois agricultural economics staff paper, series E, agricultural economics - Dept. of Agricultural Economics, University of Illinois. Apr 1981. Apr 1981. (81 E-160). 109 p. Bibliography p. 92-105. (NAL Call No.: 916937(AGE)).

No.: 916937(AGE)).

0022

Severity of infestation of the soybean cyst nematode (*Heterodera glycines* Ichinohe) in Louisiana (*Glycine max*, yield losses, economic impact).

Bachiredy, V.R. Baton Rouge : The University. Research bulletin - Southern University. July 25, 1982. v. 4 (1). p. 30-42. maps. Includes references. (NAL Call No.: S539.5.R42).

0023

Soybean herbicides: recommendations, use surveys and treatment costs.

Park, J.K. Nafziger, E.D.; Swanson, E.R. Urbana, Ill., The Department. Illinois agricultural economics staff paper, series E agricultural economics - Dept. of Agricultural Economics, University of Illinois. July 1981. Predominantly tables. July 1981. (81 E-181). 93 p. 43 ref. (NAL Call No.: 916937(AGE)).

0024

Soybean insecticides: recommendations, use surveys and treatment costs.

Park, J.K. Nafziger, E.D.; Swanson, E.R. Urbana, Ill., The Department. Illinois agricultural economics staff paper, series E agricultural economics - Dept. of Agricultural Economics, University of Illinois. July 1981. July 1981. (81 E-182). 48 p. 51 ref. (NAL Call No.: 916937(AGE)).

0025

Soybean nematocides/fungicides: recommendations, use surveys and treatment costs.

Park, J.K. Nafziger, E.D.; Swanson, E.R. Urbana, Ill., The Department. Illinois agricultural economics staff paper, series E agricultural economics - Dept. of Agricultural Economics, University of Illinois. July 1981. July 1981. (81 E-183). 35 p. 53 ref. (NAL Call

ECONOMICS OF AGRIC. PRODUCTION

0026

The contribution of herbicides and other technologies to soybean production in the Corn Belt Region, 1965 to 1979.

Schroder, D. Headley, J.C.; Finley, R.M.
Columbia, Missouri, The Department. Extract:
This report attempts to identify the contributions of technology and weather to soybean yield variation for the period 1965 to 1979 in the Corn Belt Region. Technology variables included were genetic improvement, herbicides, and row-width. A pooled cross-sectional time-series data base was used to estimate regression parameters for herbicides and other variables. A marginal private benefit/cost return of \$2.3 per dollar of herbicide cost was estimated for additional land treated with herbicides. Paper - University of Missouri-Columbia, Dept. of Agricultural Economics. (1981?). (1981?). (1981-33). 25 p. 35 ref. (NAL Call No.: 917437(AGE)).

0027

Modeling soybean growth for crop management (Irrigation and pest management decisions, SOYGRO).

Wilkerson, G.G.TAAEA. Jones, J.W.; Boote, K.J.; Ingram, K.T.; Mishoe, J.W. St. Joseph : The Society. Transactions of the ASAE - American Society of Agricultural Engineers. Jan/Feb 1983. v. 26 (1). p. 63-73. ill. Includes references. (NAL Call No.: 290.9 AM32T).

FARM ORGANIZATION AND MANAGEMENT

0028

Application of a simulative approach to evaluating alternative methods for the control of agricultural pests.

Reichelderfer, K.H. Bender, F.E. Lexington, Ky., American Agricultural Economics Association. Extract: A microanalytic simulation model of the interrelationships among Mexican bean beetle pest populations, populations of wasps that are parasites of the pest, chemical control inputs, and soybean yield is presented. Points from output response surfaces obtained through simulations of alternative biological and chemical pest control strategies are utilized in conjunction with cost data to construct benefit-cost ratios for each intraseasonal control option studied. Comparison of ratios indicates that biological of the pest is, by benefit-cost criteria and from both private and social perspectives, a competitive alternative to chemical control. American journal of agricultural economics. May 1979. v. 61 (2). p. 258-267. 19 ref. (NAL Call No.: 280.8 J822).

0029

Cost effectiveness of postemergence glyphosate and sethoxydim to johnsongrass in soybeans and cotton (Sorghum halepense, herbicides).

Derting, C.W. SWSPB. Sandberg, C.L.; Whatley, T.L.; Wu, C.H. Champaign : The Society. Proceedings - Southern Weed Science Society. 1983. 1983. (36th). p. 21-25. Includes references. (NAL Call No.: 79.9 S08).

0030

Economic benefits from the use of nonchemical means of pest management: a simulation approach.

Zavaleta, L.R. Kogan, M. Urbana, Ill. : The Department. Extract: The scope of this paper is to analyze the potential economic benefits that can be derived from the development and use of nonchemical methods of control. Its focus will be placed in the soybean crop and its interaction with an insect pest, the bean leaf beetle, *Cerotoma trifurcata* (Coleoptera: Chrysomelidae). Illinois agricultural economics staff paper, series E agricultural economics - University of Illinois, Department of Agricultural Economics. Sept 1982. Sept 1982. (E-233). 17 p. Includes 21 references. (NAL Call No.: 916937(AGE)).

0031

An economic engineering study of commercial grain storage in South Carolina (Corn, wheat, soybeans, costs and returns).

Shedd, D.T. SCAEA. Miller, S.E. Clemson : The Station. Bulletin - South Carolina Agricultural Experiment Station. July 1983. July 1983. (649). 18 p. Includes references. (NAL Call No.: 100 S08 (1)).

0032

An economic evaluation of weed control methods used in combination with crop rotation: a stochastic dominance approach.

Zacharias, T.P. Grube, A.H. Fargo : North Dakota State University. Extract: Experimental results from a 10-year herbicide use and crop rotation study provided the data for an analysis of weed control cropping systems. Stochastic dominance was used to rank the various systems. Results indicate that regardless of weed control method a rotation of two years corn and one year soybeans was the most preferred. Systems which substituted cultivation for herbicide use were least preferred. Successively altering herbicides on an annual basis as compared to applying a single major herbicide was found to increase both net returns and risk and would be preferred only by growers who were mildly risk preferring. North Central journal of agricultural economics. Jan 1984. v. 6 (1). p. 113-120. Includes 9 references. (NAL Call No.: HD1773.A3N6).

0033

Economic feasibility of a biological control technology using a parasitic wasp, *pediobius foveolatus*, to manage Mexican bean beetle on soybeans.

Reichelderfer, K.H. Washington, D.C., The Service. Agricultural economic report - United States Dept. of Agriculture, Economics, Statistics, and Cooperatives Service. Aug 1979. Aug 1979. (430). 20 p. 9 ref. (NAL Call No.: A281.9 AG8A).

0034

Economic impact of registration of ethylene dibromide (EDB) for use on soybeans.

Schmidt, K.M. Swanson, E.R. Urbana, Ill., The Department. Extract: Estimates of the economic impact of federal registration of EDB for use as a nematicide on soybeans were developed for two scenarios. Scenario I assumes that EDB is limited to soybean acreage presently treated with other fumigant nematicides. This limit was removed in Scenario II to allow EDB to be substituted for both fumigants and systemic nematicides. The total welfare impact in terms of changes in producers' rents plus consumers' surplus was estimated with a simulation model (AGSIM). These impacts were measured by the present value of an infinite series of future changes resulting from the registration of EDB. Estimated present value of the total welfare gains from the Section 24(c) exemptions is about 700 million dollars with approximately an additional one percent gain from a nation-wide registration. Illinois agricultural economics staff paper, series E agricultural economics - Dept. of Agricultural Economics, University of Illinois. Apr 1981. Apr 1981. (82 E-218). 87 p. Bibliography p. 69-87. (NAL Call No.: 916937(AGE)).

(FARM ORGANIZATION AND MANAGEMENT)

0035

Economic losses due to weeds in soybeans in the Northeastern United States in 1977.

Parochetti, J.V. Beltsville, Md. Proceedings of the ... annual meeting Northeastern Weed Science Society. 1979. v. 33. p. 44-47. ill. (NAL Call No.: 79.9 N814).

0036

An economic threshold model for weeds in soybeans (Glycine max) (Herbicide application).

Marra, M.C. WEESA. Carlson, G.A. Champaign : Weed Science Society of America. Weed science. Sept 1983. v. 31 (5). p. 604-609. ill. Includes references. (NAL Call No.: 79.8 W41).

0037

Farm efficiency and insect infestation forecasts: the case of soybeans in Illinois.

Moffitt, L.J. Farnsworth, R.L.; Zavaleta, L.R.; Kogan, M. Washington, D.C. : The Service. Extract: A preposterior decision model and a scouting model are used to estimate the economic benefits of an area-wide soybean insect prediction system in Illinois. Results suggest forecast reliabilities of the insect prediction system must exceed 90 percent accuracy before grower profits increase and acres scouted by consultants decrease. Insecticide use, however, can increase or decrease over a range of forecast reliabilities because of the shift from insect consultants to an area-wide public supported insect prediction system. If risk averse behavior is assumed, growers will likely apply more insecticides and hence reduce forecast prediction benefits. ERS staff report - United States Dept. of Agriculture, Economic Research Service. Oct 1982. Available from NTIS, order no. PB83-128728. Oct 1982. (AGES821013). 31 p. Includes 15 references. (NAL Call No.: 916762(AGE)).

0038

Impact of reduction in use of dibromochloropropane (DBCP) on 1979 soybean yields.

Park, J. Schmidt, K.; Swanson, E.R. Urbana, Ill., The Department. Illinois agricultural economics staff paper, series E agricultural economics - Dept. of Agricultural Economics, University of Illinois. Mar 1981. Mar 1981. (81 E-158). 25 p. (NAL Call No.: 916937(AGE)).

0039

Impacts of pesticide withdrawal on a typical Indiana farm: an economic analysis.

Cashman, C.M. Martin, M.A.; McCarl, B.A. West Lafayette, The Station. Extract: This bulletin analyzes the short-run, farm-level economic impacts of possible Environmental Protection

Agency bans on the use of selected corn and soybean pesticides commonly used in Indiana and elsewhere in the Corn Belt. Station bulletin - Dept. of Agricultural Economics, Agricultural Experiment Station, Purdue University. Sept 1980. Sept 1980. (291). 119 p. 19 ref. (NAL Call No.: HD1775.I6I5).

0040

Income and risk associated with various pest management levels, tillage systems, and crop rotations: an analysis of experimental data. Zavaleta, L.R. Eleveld, B.; Kogan, M.; Wax, L.; Kuhlman, D.; Lim, S.M. Urbana, Ill. : The Department. Extract: Budgets for producing and protecting corn and soybean crops were generated for three cropping systems using three levels of pest management and two tillage practices. The corn-soybean rotation produced higher yields and higher net returns than either the continuous corn or soybean cropping system, and it generally had the lowest risk for any of the tillage systems at each management level. Neither conventional nor reduced tillage appeared to dominate; neither did high, medium, or low chemical input dominate. AERR - University of Illinois, Department of Agricultural Economics. Apr 1984. Apr 1984. (191). 19 p. Includes 10 references. (NAL Call No.: 281.9 IL62).

0041

Indiana farm-level impacts of possible Environmental Protection Agency bans on selected soybean insecticides.

Cashman, C.M. Martin, M.A.; McCarl, B.A. Lexington, Ky., Southern Agricultural Economics Assoc. Extract: The primary purpose of our study was to determine the economic impacts of a possible ban by the Environmental Protection Agency on selected soybean insecticides used by some farmers in Indiana who face periodic soybean yield losses due to insect damage. A 600-acre Indiana corn-soybean farm was analyzed by means of a linear programming model. The economic impacts of possible bans on soybean insecticides were measured in terms of changes in per-acre yields, production costs, farm income, per-acre profits, machinery and labor use, and timeliness of field operations. Yield and related information on alternative soybean insecticides was derived from test plot data. Southern journal of agricultural economics. Dec 1980. v. 12 (2). p. 147-152. 8 ref. (NAL Call No.: HD101.S6).

0042

Pest management in experimental soybean cropping systems: a preliminary economic and risk analysis.

Zavaleta, L.R. Eleveld, B.; Starr, V.B.; Kogan, M.; Wax, L.; Helm, C.; Lim, S.M.; Kuhlman, D. Urbana, Ill. : The Department. Extract: Crop production-protection budgets for soybean were generated for three levels of pest management

and two tillage practices. For the data analyzed, results indicated that high levels of pest management always resulted in a less risky alternative. Conversely, reduced tillage practices tended to increase the variability in yields and returns. Illinois agricultural economics staff paper, series E agricultural economics - University of Illinois, Department of Agricultural Economics. Apr 1983. Apr 1983. (E-253). 26 p. Includes 5 references. (NAL Call No.: 916937(AGE)).

0043

Socio-economic factors relating to the IFA (Imported Fire Ant) and its management (Solenopsis, pests of livestock, fruits, vegetables, hay, soybeans, agricultural losses).

Headley, J.C. Aspelin, A.; Adams, C.T.; Brooks, T.; Brown, R.E. (Washington, D.C.?) : U.S. Dept. of Agriculture, APHIS, 1982. Proceedings of the Symposium on the Imported Fire Ant, June 7-10, 1982, Atlanta American Hotel, Atlanta, Georgia / editor S.L. Battenfield. p. 41-50.5. Includes references. (NAL Call No.: SB945.F53559 1982).

0044

The value of plant resistance to soybean cyst nematodes; a case study of Forrest soybeans.

Bradley, E.B. Duffy, M. Washington, D.C. : The Service. Extract: The use of pest resistant varieties is an important method of preventing crop losses. The past performance of the Forrest soybean variety that is resistant to the soybean cyst nematode is studied. Results indicate that yield loss prevented by use of the Forrest variety accounted for approximately \$401 million (constant 1980 dollars) compared to about a \$1 million cost of developing the variety. ERS staff report - United States Dept. of Agriculture, Economic Research Service. Oct. 1982. Available from NTIS, order no. PB83-149849. Oct 1982. (AGES820929). 42 p. Includes 18 references. (NAL Call No.: 916762(AGE)).

DISTRIBUTION AND MARKETING

0045

The economic position of the United States and Louisiana in the world market for soybeans and the future outlook.

Varela, J. Corty, F. Baton Rouge, La., The Station. Extract: The outlook for soybean exports depends upon a complexity of factors affecting the supply-demand relationships in the world market. On the supply side, one must consider land areas available for production in the various soybean producing countries as well as agricultural policies with associated incentives, subsidies, and controls. On the demand side, one considers competitive products and their relative prices in the world market, also the purchasing power of consumers in the importing nations, size of the consuming sectors, including numbers of animal units, and foreign currency exchange relationships between importing and exporting nations. This publication evaluates the various factors impacting upon the soybean export market and makes projections to the year 1985. D.A.E. research report - Dept. of Agricultural Economics and Agribusiness, Louisiana Agricultural Experiment Station. Jan 1981. Jan 1981. (577). 70 p. Includes ref. (NAL Call No.: 100 L935).

0046

FEEDSIM description and computer program documentation.

Holland, F.D. Meekhof, R.L. West Lafayette, The Station. Extract: FEEDSIM.MOD14 is a stochastic simulation model of the corn-soybean market specifically designed to analyze agricultural commodity program alternatives. It incorporates estimated annual production and demand relationships for corn and soybeans, and current price and income support, reserve, and production control programs for these crops. Station bulletin - Dept. of Agricultural Economics, Agricultural Experiment Station, Purdue University. Mar 1979. Mar 1979. (221). 89 p. (NAL Call No.: HD1775.I6I5).

GRADING, STANDARDS, LABELLING

0047

Dissipation of ^{14}C (carbon isotope) N-nitroso-di-N-propylamine (herbicide) from field soil and residue determinations in field-grown soybeans.
Berard, D.F. Rainey, D.P. New York, Springer.
Bulletin of environmental contamination and toxicology. Sept 1979. v. 23 (1/2). p. 141-144.
ill. 4 ref. (NAL Call No.: RA1270.P35A1).

0048

Distribution of chlorinated pesticides in soybeans, soybean oil, and its by-products during processing (Effectiveness of processing steps on the removal of residues).
Chaudry, M.M. Nelson, A.I. Champaign, Ill.
Journal American Oil Chemists' Society. Dec 1978. v. 55 (12). p. 851-853. ill. 12 ref. (NAL Call No.: 307.8 J82).

PLANT SCIENCE

0049

The value of plant resistance to soybean cyst nematodes; a case study of Forrest soybeans.
Bradley, E.B. Duffy, M. Washington, D.C. : The Service. Extract: The use of pest resistant varieties is an important method of preventing crop losses. The past performance of the Forrest soybean variety that is resistant to the soybean cyst nematode is studied. Results indicate that yield loss prevented by use of the Forrest variety accounted for approximately \$401 million (constant 1980 dollars) compared to about a \$1 million cost of developing the variety. ERS staff report - United States Dept. of Agriculture, Economic Research Service. Oct 1982. Available from NTIS, order no. PB83-149849. Oct 1982. (AGES820929). 42 p. Includes 18 references. (NAL Call No.: 916762(AGE)).

PLANT PRODUCTION - GENERAL

0050

Annual progress report - 1980 : Northern Research Center, Clarion- Webster Research Center / Iowa State University of Science and Technology.

1981. This publication contains researched information on planting dates verses plant population, breeding, cold tolerance and Zn, S, K fertilization for corn. Soybean information on brown stem rot and bacterial tan spot is provided. Additional topics include herbicide evaluation, small grain tests, and vegetable garden demonstrations. Document available from: Iowa State Univ., Publications Distribution, Printing & Publications Bldg., Ames, Iowa 50011. 24 p. : ill. (NAL Call No.: Not available at NAL.). (NAL Call No.: ORC 80-14,22).

0051

Centennial, a new soybean variety with nematode resistance (Yields).

Dunphy, E.J. Brim, C.A. Raleigh, N.C., The Service. AG. North Carolina State University. Agricultural Extension Service. July 1979. July 1979. (174). 4 p. ill. (NAL Call No.: S544.3.N6N62).

0052

Crop production - soybean project, leader's guide.

Benson, Garren. 1974. Detailed plans for three meetings to help leaders help 4-H'ers to build project-related skills and knowledge. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for: Leader. Learning experience: Knowledge, skills, practices; Decision making. 7 p. : ill. (NAL Call No.: S533.F6618). (NAL Call No.: 4H-381-E).

0053

Herbicide to aid soybean (and sunflower) dry down (Paraquat, chemical harvest aids).

San Francisco, California Farmer. Agrichemical age. Sept/Oct 1979. v. 23 (8). p. 32-33, 49. ill. (NAL Call No.: 381 AG85).

0054

Seedbed tillage and herbicide influence on soybean (Glycine max) weed control and yield.

Kapusta, G. Champaign, Ill., Weed Science Society of America. Weed science. Sept 1979. v. 27 (5). p. 520-526. ill. 10 ref. (NAL Call No.: 79.8 W41).

0055

Soybean desiccation by paraquat, glyphosate, and ametryn (Herbicides) to accelerate harvest. Whigham, D.K. Stoller, E.W. Madison. Agronomy journal American Society of Agronomy. July/Aug 1979. v. 71 (4). p. 630-633. ill. 4 ref. (NAL Call No.: 4 AM34P).

0056

Soybean desiccation with paraquat, glyphosate, and ametryn (to hasten soybean maturity to allow early seed harvest).

Stoller, E.W. Whigham, D.K. Champaign, Ill., The Conference. Proceedings ... annual meeting. North Central Weed Control Conference. 1978. v. 33. p. 68-69. (NAL Call No.: 79.9 N81).

0057

Soybean handbook (Includes culture, pests and diseases, processing, cost and return planning).

Manhattan, Kan., The Service. C. Kansas State University. Cooperative Extension Service. May 1978. May 1978. (449). 24 p. ill. (NAL Call No.: 275.29 K13EX).

0058

The Soybean project.

Swearingen, Marvin. Hankins, B. J. June 1978. Manual covers Divisions I-IV and Advanced and gives sixteen activities such as seed germination, conducting a herbicide survey, determining harvest losses, and cooking with soybeans. 39 p. : ill. (NAL Call No.: S533.F6616). (NAL Call No.: 4-H 209).

0059

Soybean response to selected rice herbicides (Leaf injury, yield reduction).

Eastin, E.F. Madison, Crop Science Society of America. Crop science. Nov/Dec 1978. v. 18 (6). p. 967-968. ill. 3 ref. (NAL Call No.: 64.8 C883).

0060

Soybean-wheat cropping systems : evaluation of planting methods, varieties, row spacings, and weed control / Charles R. Graves ... (et al.).

Graves, Charles R. Knoxville University of Tennessee, Agricultural Experiment Station 1980. Cover title. 42 p. : ill. ; 23 cm. -. (NAL Call No.: 100 T255 (1) (no.) 597).

(PLANT PRODUCTION - GENERAL)

0061

Soybeans (Glycine max) as a rescue crop following cyanazine and procyazine application.
Brewer, P.E. Slife, F.W. Champaign, Ill., Weed Science Society of America. Weed science. May 1979. v. 27 (3). p. 263-266. ill. 11 ref. (NAL Call No.: 79.8 W41).

0062

0 (zero)-till soybean culture (in cornstalks and in wheat stubble, varieties, herbicides).
McKibben, G.E. Urbana-Champaign, Ill., Illinois Agricultural Experiment Station. DSAC.Dixon Springs Agricultural Center. Jan 1979. Jan 1979. (7). p. 61-70. ill. 1 ref. (NAL Call No.: S1.D5).

PLANT PRODUCTION - HORTICULTURAL CROPS

0063

Fungicides for control of foliar, pod, and stem diseases of soybeans / H. J. Walters.

Walters, H. J. Fayetteville Agricultural Experiment Station, University of Arkansas
1980. Issued Feb. 1980. 31 p. : ill., map. -.
Bibliography: p. 15. (NAL Call No.: 100 Ar42R no.250).

0064

Germination techniques and metribuzin bioassay for large-seeded crops (Soybean, corn, cowpeas, herbicide).

Singh, M.P.FSHA. Phatak, S.C.; Glaze, N.C. Lake Alfred : The Society. Proceedings of the ... annual meeting - Florida State Horticultural Society. 1982. v. 95. p. 336-339. ill. Includes references. (NAL Call No.: 81 F66).

0065

Soybeans.

Helsel, Zane R. Document available from:
Michigan State University, Bulletin Office,
P.O.Box 231, East Lansing, Michigan 48824 1981.
Discusses soil and climatic requirements;
variety; seed selection; land preparation;
fertilizer needs; planting practices; weed,
insect, nematode, and disease control;
harvesting; and storage. 1 sheet : ill. (NAL
Call No.: Document available from source.)(NAL
Call No.: EB E-1528).

0066

Weed pest management in soybean presented by Virginia Tech Extension ; (author, James R. Martin ; editor, S.U. Fleischer).

Martin, James R. Fleischer, S. J. (Blacksburg, Va.) Virginia Polytechnic Institute and State University (1981?). Pesticide Applicator Training Collection. 66 slides : col. + 1 sound cassette (13:30 mins.) + 1 script. (NAL Call No.: Slide no.26).

PLANT PRODUCTION - FIELD CROPS

0067

Agronomic performance of soybeans with differing levels of iron deficiency chlorosis on calcareous soil (Nutritional disorders). Froehlich, D.M. Fehr, W.R. Madison, Wis., Crop Science Society of America. Crop science. May/June 1981. v. 21 (3). p. 438-441. 8 ref. (NAL Call No.: 64.8 C883).

0068

Analysis of yield decline in soybeans planted at nonoptimal planting dates, Baton Rouge, 1981 Planting Date Study. Board, J.E. Baton Rouge, La., The Department. Report of projects - Louisiana Agricultural Experiment Station, Department of Agronomy. 1982. 1982. p. 107-111. (NAL Call No.: 100 L936).

0069

Annual progress report - 1980 : Northern Research Center, Clarion- Webster Research Center / Iowa State University of Science and Technology. 1981. This publication contains researched information on planting dates verses plant population, breeding, cold tolerance and Zn, S, K fertilization for corn. Soybean information on brown stem rot and bacterial tan spot is provided. Additional topics include herbicide evaluation, small grain tests, and vegetable garden demonstrations. Document available from: Iowa State Univ., Publications Distribution, Printing & Publications Bldg., Ames, Iowa 50011. 24 p. : ill. (NAL Call No.: Not available at NAL.). (NAL Call No.: ORC 80-14,22).

0070

Annual progress report-1980 / Iowa State University. Document available from: Iowa State University, Publications Distribution, Printing & Publications Bldg., Ames, Iowa 50011 1981. This publication discusses the research center experiments on tilling methods, time of planting corn, S and Zn fertilizers, fuel and time requirements for tillage system, organic and chemical farming, soybean bacterial tan spot loss, and pasture nutrient losses. Herbicide evaluation and crop variety tests are included. 19 p. : ill. (NAL Call No.: Document available from source.). (NAL Call No.: ORC 80-13).

0071

Balloonvine : biology and control in soybeans / (Eddie R. Jolley ... et.). Jolley, Eddie R. (Auburn) Alabama Agricultural Experiment Station, Auburn University 1983. Cover title ~"March 1983.". 35 p. : col. ill. : 23 cm. -. (NAL Call No.: 100 AL1S (1) no.547).

0072

Carabid beetles in soybean agroecosystems (Harpalus pensylvanicus). House, G.U. All, J.N. College Park, Md., Entomological Society of America. Environmental entomology. Apr 1981. v. 10 (2). p. 194-196. 111. 11 ref. (NAL Call No.: QL461.E532).

0073

Competition of jimsonweed with soybean (Datura stramonium, Glycine max, weeds, control, herbicide). Kirkpatrick, B.L. AGUOA. Wax, L.M.; Stoller, E.W. Madison : American Society of Agronomy. Agronomy journal. Sept/Oct 1983. v. 75 (5). p. 833-836. 111. Includes references. (NAL Call No.: 4 AM34P).

0074

Competition of three malvaceous weed species in soybeans, (Glycine max (L.) Merr.) / by Benny Joe Eaton. Eaton, Benny Joe, 1943. 1971. Thesis (Ph.D.)--Kansas State University, 1971. Photocopy. Ann Arbor, Mich. : University Microfilms, 1971. v, 68 leaves : 21 cm. Bibliography: leaves 54-56. (NAL Call No.: DISS 71-26,607).

0075

Control of volunteer corn in soybeans, 1979 (Illinois). McKibben, G.E. Urbana-Champaign, Ill., Illinois Agricultural Experiment Station. DSAC - Dixon Springs Agricultural Center. Jan 1980. Jan 1980. (8). p. 61-62. (NAL Call No.: S1.D5).

0076

Cotton-soybean rotation for reniform nematode control (Rotylenchulus reniformis, resistant cultivars, cultivars, Louisiana). Williams, C.LAXBA. Gilman, D.F.; Jones, J.E.; Birchfield, W. Baton Rouge : The Station. Bulletin - Louisiana Agricultural Experiment Station. Jan 1983. Jan 1983. (741). 22 p. Includes references. (NAL Call No.: 100 L93 (1)).

0077

Crop production as related to irrigation for several crops at different locations: Soybean evapotranspiration and yield response to growth stage water deficits (Glycine max, irrigation timing, stress, Colorado). Hanks, R.J. Danielson, R.E.; Pruitt, W.O.; Martin, P.E. Logan : The Station. Research report - Utah Agricultural Experiment Station. 1982. 1982. (65). p. 344-367. 111. 11 ref. (NAL

Call No.: S1.U7).

Forestry Experiment Station. Aug 1981. v. 44
(8). p. 1-2. ill. (NAL Call No.: 100 M69MI).

0078

Crop rotation vs. monoculture. I. Insect control (Pests of maize, cotton, rice, soybeans, sorghum).

Barnes, G. Madison, Wis., American Society of Agronomy. Crops and soils magazine. Jan 1980. v. 32 (4). p. 15-17. ill. (NAL Call No.: 6 W55).

0079

Double cropping winter wheat and soybeans in Indiana.

Swearingin, Marvin L. Bauman, Thomas T.; Robbins, Paul R.; Edwards, Richard.; Doster, D. Howard.; Parsons, Samuel D. 1979. This publication extensively covers double cropping winter wheat and soybeans in Indiana. The contents of the article covers an overview of double cropping in Indiana. Management suggestions for no-till double cropping, profit potential of double cropping wheat and soybean, weed control in double cropping, insect control, along with harvesting and drying high moisture wheat. Document available from: Mailing Room, Ag. Administration Bldg., Purdue University, West Lafayette, IN 47907. 22 p. : ill. (NAL Call No.: ID-96).

0080

Early planting of soybeans in cyst-infested soil and the effects on the size and number of nodules (Nematodes, rhizobium, inhibition).

Pacumbaba, R.P. Sapra, V.T. Normal : The School. Annual research report - School of Agriculture. Environmental Science and Home Economics. Alabama Agricultural and Mechanical University. 1983. 1983. (12th). p. 91-94. ill. Includes references. (NAL Call No.: S537.A2A34).

0081

Effect of green stink bug (Acrosternum hilare) damage on soybean seed quality before and after storage.

Miner, F.D. AR. Dumas, B.A. Fayetteville, Ark., The Station. Bulletin - Agricultural Experiment Station, University of Arkansas. Apr 1980. Apr 1980. (844). 19 p. 16 ref. (NAL Call No.: 100 AR42).

0082

The effect of late-season application of benomyl (Benlate) (fungicide) on yield and quality of soybeans.

Sciumbato, G.L. Andrews, C.H.; Davis, R.G. Mississippi State, The Station. MAFES research highlights - Mississippi Agricultural &

0083

Effect of nematocides and application methods on sting nematode (Belonolaimus longicaudatus) control, root nodulation, and yield of soybeans.

Rhoades, H.L. n.p., The Society. Proceedings - Soil and Crop Science Society of Florida. 1980. v. 39. p. 90-92. 8 ref. (NAL Call No.: 56.9 S032).

0084

Effect of plant protectant additives used with metribuzin on soybean production and weed control.

Griffin, J.L. Harger, T.R.; Habetz, R.J. Crowley. Annual progress report Louisiana. Rice Experiment Station. 1980. 1980. (72nd). p. 363-364. (NAL Call No.: 100 L93 (3)).

0085

Effect of the soybean cyst nematode upon soybean production under different management systems (Continuous cropping of resistant or susceptible soybean varieties, Mississippi).

Hartwig, E.E. RRMSD. Buehring, N.; Young, L.D. Mississippi State : The Station. Research report - Mississippi Agricultural and Forestry Experiment Station. Aug 1982. v. 7 (9). 4 p. (NAL Call No.: S79.E37).

0086

Effects of cultivars and cultural practices on Sclerotinia stem rot of soybean (Sclerotinia sclerotiorum, Whetzelinia sclerotiorum, Glycine max, Wisconsin).

Grau, C.R. Radke, V.L. St. Paul, American Phytopathological Society. Plant disease. Jan 1984. v. 68 (1). p. 56-58. Includes references. (NAL Call No.: 1.9 P69P).

0087

Effects of plant and row spacing on dryland soybean yield and water-use efficiency (Glycine max, water stress).

Alessi, J. Power, J.F. Madison, Wis., American Society of Agronomy. Agronomy journal. Sept/Oct 1982. v. 74 (5). p. 851-854. ill. 18 ref. (NAL Call No.: 4 AM34P).

(PLANT PRODUCTION - FIELD CROPS)

0088

Effects of row-spacing, weed control treatment and cultivar on the competitive ability of soybeans.

Bundick, E.L. Regehr, D.L. Beltsville, Md., The Society. Proceedings - annual meeting of the Northeastern Weed Science Society. Northeastern Weed Science Society. p. 95. p. 95. (NAL Call No.: 79.9 N814).

0089

Effects of weeds on the diversity and abundance of insects in soybeans.

Shelton, M.D. EVETB. Edwards, C.R. College Park : Entomological Society of America. Environmental entomology. Apr 1983. v. 12 (2). p. 296-298. Includes references. (NAL Call No.: QL461.E532).

0090

Emergence and yield of fungicide-treated soybean seed differing in quality (Glycine max, control of soil-borne fungi, Phomopsis, cultivars, Iowa).

Wall, M.T. AGJDA. McGee, D.C.; Burris, J.S. Madison : American Society of Agronomy. Agronomy journal. Nov/Dec 1983. v. 75 (6). p. 969-973. Includes references. (NAL Call No.: 4 AM34P).

0091

Evaluating hail-damaged soybeans.

Hardman, L.L. MN. Hicks, D.R. St. Paul, Minn., The Service. Extension bulletin - Agricultural Extension Service, University of Minnesota. 1980. 1980. (455). 16 p. ill. (NAL Call No.: 275.29 M66S).

0092

Factors affecting the reaction of soybeans to *Phytophthora megasperma* var. *sojae* in hydroponic culture (Glycine max).

Keeling, B.L. Madison, Wis., Crop Science Society of America. Crop science. Mar/Apr 1982. v. 22 (2). p. 325-327. Includes 4 ref. (NAL Call No.: 64.8 C883).

0093

Fertilizer reduces yield loss from weather stress (Corn, soybeans, research in Ohio).

Johnson, J. BCPFA. Atlanta : Potash & Phosphate Institute. Better crops with plant food. Summer 1983. v. 67. p. 6-7. (NAL Call No.: 6 B46).

0094

Forage production and weed control in a double-cropping program (Avena sativa, Zea mays, Glycine max, Sorghum bicolor, Wisconsin). Okoli, P.S.O. Drolsom, P.N.; Scholl, J.M. Madison, Wis. : American Society of Agronomy. Agronomy journal. May/June 1984. v. 76 (3). p. 363-366. Includes references. (NAL Call No.: 4 AM34P).

0095

Herbicide field trials on field crops, 1980 (Cotton, soybeans, yields).

Frans, R. McClelland, M.; Terhune, E. Fayetteville, Ark., The Station. Mimeograph series - Arkansas, Agricultural Experiment Station. Apr 1981. (288). 62 p. (NAL Call No.: 100 AR42M).

0096

Herbicides for soybeans planted in conventional seedbeds, 1979 (Illinois).

McKibben, G.E. Urbana-Champaign, Ill., Illinois Agricultural Experiment Station. DSAC - Dixon Springs Agricultural Center. Jan 1980. Jan 1980. (8). p. 77-84. (NAL Call No.: S1.D5).

0097

Herbicides for 0-till corn in soybean stubble, 1979 (No-tillage systems, Illinois).

McKibben, G.E. Urbana-Champaign, Ill., Illinois Agricultural Experiment Station. DSAC - Dixon Springs Agricultural Center. Jan 1980. Jan 1980. (8). p. 57-60. Includes 1 ref. (NAL Call No.: S1.D5).

0098

How to handle herbicide damage (Atrazine, seeding rates, soybeans).

Watkins, R. Hardwick, C. St. Louis, Mo., American Soybean Association. Soybean digest. May/June 1981. v. 41 (7). p. 60-61. ill. (NAL Call No.: 60.38 S09).

0099

Identification and evaluation of soil chemical and physical properties limiting root development in Louisiana soils (Soybeans, wheat, minimum tillage, yields).

Dabney, S.M. Baton Rouge : The Department. Report of projects - Louisiana Agricultural Experiment Station, Department of Agronomy. 1982. 1982. p. 290-299. ill. (NAL Call No.: 100 L936).

0100

Impact of ozone on soybean yield (Air pollution).

Kress, L.W. JEVQA. Miller, J.E. Madison : American Society of Agronomy. Journal of environmental quality. Apr/June 1983. v. 12 (2). p. 276-281. Includes references. (NAL Call No.: QH540.J6).

0101

Improving the field production environment for soybeans (Cultivation practices, application of fertilizers, crop protection from weeds, insects and diseases).

Lam-Sanchez, A. Champaign, Ill., The Society. Journal of the American Oil Chemists' Society. Mar 1981. v. 58 (3). p. 128-130. Includes 15 ref. (NAL Call No.: 307.8 J82).

0102

Incidence of arthropod predators in different soybean cropping systems (Nabis spp., Geocoris spp., Orius spp., beneficial insects, Virginia).

McPherson, R.M. Smith, J.C.; Allen, W.A. College Park, Md., Entomological Society of America. Environmental entomology. June 15, 1982. v. 11 (3). p. 685-689. ill. Includes 8 ref. (NAL Call No.: QL461.E532).

0103

Increased soybean seeding overcomes herbicide effects.

Pierce, R. Washington, D.C., The Administration. Agricultural research - United States Dept. of Agriculture, Science and Education Administration. June 1981. v. 29 (12). p. 15. ill. (NAL Call No.: 1.98 AG84).

0104

Influence of brown stem rot and cropping history on soybean performance (Phialophora gregata, Fungi).

Kennedy, B.W. Lambert, J.W. St. Paul, Minn., American Phytopathological Society. Plant disease. Nov 1981. v. 65 (11). p. 896-897. 8 ref. (NAL Call No.: 1.9 P69P).

0105

Insect resistance factor in soybean PI's 229358 and 227687 demonstrated by grafting (Glycine max, plant introduction, Lepidoptera, Noctuidae, Heliothis zea).

Lambert, L. Kilen, T.C. Madison : Crop Science Society of America. Crop science. Jan/Feb 1984. v. 24 (1). p. 163-165. Includes references. (NAL Call No.: 64.8 C883).

0106

An integrated approach to red rice control (a preliminary report) (Weed control in soybean-rice rotation systems and in continuous-cropped rice, Louisiana).

Griffin, J.L. Regan, R.P.; Dunand, R.T.; Baker, J.B.; Cohn, M.A. Crowley : The Station. Annual progress report - Louisiana, Rice Experiment Station. 1982. 1982. (74th). p. 376. (NAL Call No.: 100 L93 (3)).

0107

Johnsongrass (Sorghum halepense) control in soybeans (Glycine max) with metriflufen).

Rogers, N.K. Talbert, R.E.; Oliver, L.R. Champaign, Ill., Weed Science Society of America. Weed science. May 1981. v. 29 (3). p. 291-296. 12 ref. (NAL Call No.: 79.8 W41).

0108

Joint action of sulfur dioxide and nitrogen dioxide on foliar injury and stomatal behavior in soybean.

Amundson, R.G. Weinstein, L.H. Madison, Wis., American Society of Agronomy. Journal of environmental quality. Apr/June 1981. v. 10 (2). p. 204-206. ill. 12 ref. (NAL Call No.: QH540.J6).

0109

Mixtures of soybean cultivars to minimize yield loss caused by iron-deficiency chlorosis.

Trimble, M.W. CRPSA. Fehr, W.R. Madison : Crop Science Society of America. Crop science. July/Aug 1982. v. 23 (4). p. 691-694. Includes references. (NAL Call No.: 64.8 C883).

0110

Modeling soybean growth for crop management (Irrigation and pest management decisions, SOYGR0).

Wilkerson, G.G. TAAEA. Jones, J.W.; Boote, K.J.; Ingram, K.T.; Mishoe, J.W. St. Joseph : The Society. Transactions of the ASAE - American Society of Agricultural Engineers. Jan/Feb 1983. v. 26 (1). p. 63-73. ill. Includes references. (NAL Call No.: 290.9 AM32T).

0111

Natural enemies of arthropod pests in soybean / H.N. Pitre, editor.

Pitre, H. N. (Clemson, S.C.?) South Carolina Agricultural Experiment Station 1983. Regional research project S-74 ~"June 1983.". v. 90 p. : ill. ; 28 cm. -. Includes bibliographies. (NAL Call No.: 100 G29So no.285).

(PLANT PRODUCTION - FIELD CROPS)

0112

New machine paves way for three trip crop (Herbicides, cotton, soybeans).

Garner, T.H. Memphis, Tenn., Meister. Cotton. International edition. 1981. 1981. p. 70, 72. ill. (NAL Call No.: 72.8 C8214I).

0113

No-till soybeans without herbicides (Iowa).

Thompson, D. Thompson, S. Emmaus, Pa., Rodale Press. The New farm. Sept/Oct 1982. v. 4 (6). p. 22-25. (NAL Call No.: S1.N32).

0114

Optimal control of crop-pest interactions: a simulation approach (Soybean and insect growth models).

Tucker, T.E. Zavaleta, L.R.; Liebman, J.S. Pittsburgh : School of Engineering, University of Pittsburgh. Annual Pittsburgh Conference on Modeling and Simulation. 1983. v. 14 (pt.1/2). p. 181-186. ill. Includes references. (NAL Call No.: TA343.P5).

0115

Oxidants and acid precipitation: a method for identifying and modeling effects on United States soybean yield.

Medeiros, W.H. Moskowitz, P.D.; Coveney, E.A.; Thode, H.C. Jr. Pittsburgh, Pa. : Air Pollution Control Association. Proceedings ... APCA annual meeting. 1983. v. 1 (76th). p. 83-2.4/1-83-2.4/9. Includes references. (NAL Call No.: TD881.A56).

0116

Paraquat as a harvest aid for soybeans.

Wilson, H.P. VA. Norfolk, Va., The Service. The Vegetable growers news - Virginia Polytechnic Institute and State University, Cooperative Extension Service. Sept 1980. v. 35 (3). p. 1. (NAL Call No.: 275.28 V52).

0117

Potash and foliar fungicides team-up to increase yields (Tennessee soybean research).

Atlanta : Potash & Phosphate Institute. Better crops with plant food. Spring 1983. v. 67. p. 22-23. ill. (NAL Call No.: 6 B46).

0118

Preemergence herbicides and cultivation for soybeans (Glycine max) (Weed control).

Gebhardt, M.R. Champaign, Ill., Weed Science Society of America. Weed science. Mar 1981. v. 29 (2). p. 165-168. 7 ref. (NAL Call No.: 79.8 W41).

0119

Premature flowering in soybean yield reductions at nonoptimal planting dates as influenced by temperature and photoperiod (Cultivar comparisons, daylengths, includes field studies in Louisiana).

Board, J.E. Hall, W. Madison, Wis. : American Society of Agronomy. Agronomy journal. July/Aug 1984. v. 76 (4). p. 700-704. ill. Includes references. (NAL Call No.: 4 AM34P).

0120

The relationship of soil solution chemistry to iron chlorosis and yield of soybeans on high lime soils (Variety comparisons, Minnesota).

Bloom, P.R.MXMRA. Inskeep, W.P. St. Paul : The Station. Miscellaneous publication - University of Minnesota, Agricultural Experiment Station. 1983. 1983. (2 rev.). p. 213-215. (NAL Call No.: S1.M52).

0121

Response of peanut, corn, tobacco, and soybean to *Criconeimella ornata* (Nematode, yields).

Barker, K.R.JONEB. Schmitt, D.P.; Campos, V.P. Ames : Society of Nematologists. Journal of nematology. Oct 1982. v. 14 (4). p. 576-581. Includes references. (NAL Call No.: QL391.N4J62).

0122

Response of soybeans to flood irrigation (a preliminary report) (Water stress, yield effects, Louisiana).

Griffin, J.L. Habetz, R.J.; Regan, R.P. Crowley : The Station. Annual progress report - Louisiana, Rice Experiment Station. 1982. 1982. (74th). p. 350-358. ill. Includes references. (NAL Call No.: 100 L93 (3)).

0123

Seed quality of soybean maturity groups as affected by planting dates in north Florida (Glycine max, fungal infection).

Shokes, F.M. Herzog, D.C.; Wright, D.L. (S.I.) : The Society. Proceedings - Soil and Crop Science Society of Florida. 1983. v. 42. p. 117-122. ill. Includes references. (NAL Call No.: 56.9 S032).

0124

Soil and water management in soybean production systems (Conservation tillage, erosion control, double-cropping, no-till, strip-cropping).
Buntley, G.U. Atlanta, Potash & Phosphate Institute. Better crops with plant food. Summer 1982. v. 66. p. 3-5. (NAL Call No.: 6 B46).

0125

Soybean diseases and insects.
(Kentucky) University of Kentucky, Cooperative Extension Service 1982. Pesticide Applicator Training collection. 80 slides : col. + 2 sound cassettes (31 min.) + 1 script. (NAL Call No.: Slide no.18).

0126

Soybean integrated pest management for insects presented by Virginia Tech Extension ;
(authors, Robert M. McPherson, William A. Allen).
McPherson, Robert M. Allen, William A.; (William Albert); 1939. (Blacksburg, Va.) Virginia Polytechnic Institute and State University (1981?). Pesticide Applicator Training Collection. 71 slides : col. + 1 sound cassette (20 mins.) + 1 script. (NAL Call No.: Slide no.30).

0127

Soybean yields and nematode control.
Baldwin, R.E. Norfolk, Va., The Service. The Vegetable growers news - Virginia Polytechnic Institute and State University, Cooperative Extension Service. May 1981. v. 35 (11). p. 2-3. (NAL Call No.: 275.28 V52).

0128

Stability of soybean harvest index (within cultivars, Drought stress effects, interplant competition, Florida, New York).
Spaeth, S.C. Randall, H.C.; Sinclair, T.R.; Vendeland, J.S. Madison, Wis. : American Society of Agronomy. Agronomy journal. May/June 1984. v. 76 (3). p. 482-486. ill. Includes references. (NAL Call No.: 4 AM34P).

0129

A study of soybeans and rhizobia tolerance to low phosphorus - high aluminum in acid soils (Cultivars).
Taylor, R.W. Patel, S. Normal : The School. Annual research report - School of Agriculture. Environmental Science and Home Economics. Alabama Agricultural and Mechanical University. 1983. 1983. (12th). p. 113-120. ill. Includes references. (NAL Call No.: S537.A2A34).

0130

Use of nitrogen stress to demonstrate the effect of yield limiting factors on the yield response of soybean to narrow row systems (Glycine max, solid seeding, Ohio).
Cooper, R.L. Jeffers, D.L. Madison : American Society of Agronomy. Agronomy journal. Mar/Apr 1984. v. 76 (2). p. 257-259. Includes references. (NAL Call No.: 4 AM34P).

0131

Volunteer corn control (Weed corn in soybeans, crop rotation systems, glyphosate, Minnesota).
Pierce, R. Washington, D.C., The Service. Agricultural research - United States Agricultural Research Service. Nov 1981. v. 30 (5). p. 7. ill. (NAL Call No.: 1.98 AG84).

0132

Weed-control evaluations in no-till soybeans (Glycine max) double-cropped with rye (Secale cereale) (Georgia).
Banks, P.A. GARRA. Kvien, J.S. Athens : The Stations. Research report - University of Georgia, College of Agriculture, Experiment Stations. July 1983. July 1983. (431). 6 p. Includes references. (NAL Call No.: S51.E22).

0133

Weed control experiments in soybeans.
Leasure, J.K. Carbondale, Ill., Southern Illinois University. AG review Southern Illinois University. School of Agriculture. 1981. 1981. p. PLSS54-PLSS60. (NAL Call No.: S537.S556).

0134

Weed control in soybeans.
Wax, L.M. ISSODB. Slife, F.W. Urbana : International Agricultural Publications, College of Agriculture, University of Illinois. INTSOY International Soybean Program series. July 1983. July 1983. (25). p. 143-145. (NAL Call No.: TX558.S715).

0135

Yield reduction from defoliation of irrigated and non-irrigated soybeans (Drought stress).
Caviness, C.E. Thomas, J.D. Madison, Wis., American Society of Agronomy. Agronomy journal. Nov/Dec 1980. v. 72 (6). p. 977-980. 13 ref. (NAL Call No.: 4 AM34P).

(PLANT PRODUCTION - FIELD CROPS)

0136

0-till soybean culture (Effectiveness of herbicides).

McKibben, G.E. IL. Urbana-Champaign, Ill., Illinois Agricultural Experiment Station. DSAC - Dixon Springs Agricultural Center. Jan 1980. Jan 1980. (8). p. 66-76. 1 ref. (NAL Call No.: S1.D5).

0137

1980 pesticide use on soybeans in the major producing states.

Hanthorn, M. Dsteen, C.; McDowell, R.; Roberson, L. Washington, D.C., The Service. Extract: Farmers reported that 124.6 million pounds (a.i.) of pesticides were applied to soybeans in the major producing States during 1980. This consisted of 114.4 million pounds (a.i.) of herbicides, 8 million pounds (a.i.) of insecticides, 1.5 million pounds (a.i.) of nematocides, and 600,000 pounds (a.i.) of fungicides. Pesticide acre-treatments totaled 106.6 million and consisted of 95.5 million with herbicides, 9.3 million with insecticides, 600,000 with nematocides, and 1.2 million with fungicides. The primary herbicides were alachlor, bentazon, and trifluralin. The major insecticides were carbaryl, methomyl, and methyl parathion. Aldicarb and ethylene dibromide were the primary nematocides and benomyl was the major fungicide. ERS staff report - U.S. Dept. of Agriculture, Economic Research Service. Jan 1982. Available from NTIS. Jan 1982. (AGES820106). 32 p. 4 ref. (NAL Call No.: 916762(AGE)).

0138

1980 pesticide use on soybeans in the Mississippi Valley.

Hanthorn, M. Dsteen, C.; McDowell, R.; Roberson, L. Washington, D.C., The Service. Extract: Farmers reported that 28.5 million pounds (a.i.) of pesticides were applied to soybeans in the Mississippi Valley during 1980. This consisted of 26 million pounds (a.i.) of herbicides, 2.3 million pounds (a.i.) of insecticides, 51,000 pounds (a.i.) of nematocides, and 201,000 pounds (a.i.) of fungicides. Pesticide acre-treatments totaled 31.9 million and consisted of 28.4 million with herbicides, 2.8 million with insecticides, 68,000 with nematocides, and 721,000 with fungicides. The primary herbicides were alachlor, bentazon, metribuzin, and trifluralin. The major insecticides were carbaryl, methomyl, and methyl parathion. Benomyl was the primary fungicide. ERS staff report - United States Dept. of Agriculture, Economic Research Service. Jan 1982. Available from NTIS. Jan 1982. (AGES820127). 32 p. 4 ref. (NAL Call No.: 916762(AGE)).

0139

1980 pesticide use on soybeans in the North Central States.

Hanthorn, M. Dsteen, C.; McDowell, R.; Roberson, L. Washington, D.C., The Service. Extract: Farmers reported that 77.8 million pounds (a.i.) of pesticides were applied to soybeans in the North Central States during 1980. This consisted of 77.1 million pounds (a.i.) of herbicides and 700,000 pounds (a.i.) of insecticides. Pesticide acre-treatments totaled 58.1 million and consisted of 44.8 million with single material herbicides, 12.6 million with herbicide mixes, and 700,000 with insecticides. The primary herbicides were alachlor, bentazon, metribuzin, and trifluralin. The major insecticide was carbaryl. ERS staff report - United States Dept. of Agriculture, Economic Research Service. Feb 1982. Available from NTIS. Feb 1982. (AGES820209). 32 p. 4 ref. (NAL Call No.: 916762(AGE)).

0140

1980 pesticide use on soybeans in the Southeast.

Hanthorn, M. Dsteen, C.; McDowell, R.; Roberson, L. Washington, D.C., The Service. Extract: Farmers reported that 18.1 million pounds active ingredient (a.i.) of pesticides were applied to soybeans in the Southeast during 1980. This consisted of 11.3 million pounds (a.i.) of herbicides, 5.1 million pounds (a.i.) of insecticides, 1.4 million pounds (a.i.) of nematocides, and 234,000 pounds (a.i.) of fungicides. Pesticide acre-treatments totaled 16.4 million and consisted of 9.7 million with herbicides, 5.8 million with insecticides, 555,000 with nematocides, and 384,000 with fungicides. The primary herbicides were alachlor, bentazon, metribuzin, and trifluralin. The major insecticides were carbaryl and methomyl. Aldicarb and ethylene dibromide were the primary nematocides and benomyl was the major fungicide. ERS staff report - U.S. Dept. of Agriculture, Economic Research Service. Feb 1982. Available from NTIS. Feb 1982. (AGES820203). 28 p. 4 ref. (NAL Call No.: 916762(AGE)).

PLANT BREEDING

0141

Activity of trypsin and chymotrypsin inhibitors of soybean forms with different resistance to soybean borer (Soybean varieties).

Sichkar, V.I. Levitsky, A.P.; Grikin, O.A.; Lobko, V.N.; Marj'ushkin, V.F. Ames : The Service. Soybean genetics newsletter - United States, Agricultural Research Service. Apr 1983. v. 10. p. 123-125. Includes references. (NAL Call No.: aSB205.S7S6).

0142

Association of hypersensitive host cell death and autofluorescence with a gene for resistance to *Peronospora manshurica* in soybean (*Glycine max*).

Ersek, T. Holliday, M.; Keen, N.T. St. Paul, American Phytopathological Society. Phytopathology. June 1982. v. 72 (6). p. 628-631. ill. 15 ref. (NAL Call No.: 464.8 P56).

0143

Band application of sulfuric acid or elemental sulfur for control of Fe (iron)-deficiency chlorosis of soybeans (*Glycine max*, cultivars, Iowa).

Frank, S.J. AGUOA. Fehr, W.R. Madison : American Society of Agronomy. Agronomy journal. May/June 1983. v. 75 (3). p. 451-454. Includes references. (NAL Call No.: 4 AM34P).

0144

Breeding for soybean pest resistance.

Nickell, C.D. ISSODB. Urbana : International Agricultural Publications, College of Agriculture, University of Illinois. INTSOY International Soybean Program series. July 1983. July 1983. (25). p. 73. (NAL Call No.: TX558.S715).

0145

Breeding productive soybean cultivars resistant to the soybean cyst nematode (*Heterodera glycines*) for the southern United States.

Hartwig, E.E. St. Paul, Minn., American Phytopathological Society. Plant disease. Apr 1981. v. 65 (4). p. 303-307. 16 ref. (NAL Call No.: 1.9 P69P).

0146

Breeding resistance to soybean diseases (Includes nematode resistance).

St. Paul : The Station. Minnesota science - Minnesota, Agricultural Experiment Station. 1983. v. 38 (3). p. 7. ill. (NAL Call No.: 100 M668).

0147

Breeding soybeans resistant to diseases.

Wilcox, J.R. Westport : AVI Publishing Company. Plant breeding reviews. 1983. Literature review. v. 1. p. 183-235. Includes references. (NAL Call No.: SB123.P55).

0148

Calico mosaic of soybean: sources of resistance and inheritance of reaction (caused by alfalfa mosaic virus).

Almeida, A.M.R. Kihl, R.A.S.; Almeida, L.A. Ames, Iowa, The Service. Soybean genetics newsletter - United States, Agricultural Research Service. Apr 1982. v. 9. p. 18-21. 4 ref. (NAL Call No.: aSB205.S7S6).

0149

Comparative resistance of multiple insect-resistant soybean genotypes to the soybean looper (*Pseudoplusia includens*, *Epilachna*, *Ceratomya trifurcata*, *Heliothis*).

Smith, C.M. Gilman, D.F. College Park, Md., Entomological Society of America. Journal of economic entomology. Aug 1981. v. 74 (4). p. 400-403. ill. 15 ref. (NAL Call No.: 421 J822).

0150

Comparison of 3 soybean cyst nematode resistance genes from two sources.

Myers, O. Jr. Unander, D.W. Carbondale, Ill., Southern Illinois University. AG review Southern Illinois University. School of Agriculture. 1981. 1981. p. PLSS66. (NAL Call No.: S537.S556).

0151

Competition and alleloathy between soybeans and weeds (*Abutilon theophrasti*, *Setaria italica*, phytotoxins, comparisons of soybean cultivars).

Rose, S.J. Burnside, O.C.; Specht, J.E.; Swisher, B.A. Madison, Wis. : American Society of Agronomy. Agronomy journal. July/Aug 1984. v. 76 (4). p. 523-528. ill. Includes references. (NAL Call No.: 4 AM34P).

0152

Constraints in using seed leachate characteristics to estimate seed vigor for varietal seed keeping quality comparisons in soybeans.

Gumisiriza, G. Kueneman, E.A. Ames, Iowa, The Service. Soybean genetics newsletter - United States, Agricultural Research Service. Apr 1982. v. 9. p. 87-91. 8 ref. (NAL Call No.: aSB205.S7S6).

(PLANT BREEDING)

0153

Control of iron-deficiency chlorosis in soybeans by plant breeding (*Glycine max*).

Fehr, W.R. New York ; Basel : Marcel Dekker, 1982. Iron nutrition and interactions in plants : Brigham Young University, August 12-14, 1981 / edited by S.D. Nelson ... (et al.). p. 611-621. 11 ref. (NAL Call No.: QK867.J67 v. 5, nos. 4-7).

0154

Cooperation spurs resistant soybeans (*Phialophora gregata*, brown stem rot, varieties, Iowa).

Pierce, R. SEA-AR-NC. Washington, D.C., The Administration. Extension review - United States Department of Agriculture, Science and Education Administration. Summer 1980. v. 51 (3). p. 24-25. ill. (NAL Call No.: 1 EX892EX).

0155

Current practices for correcting iron deficiency in plants with emphasis on genetics (Oats, beans, sorghum, soybeans).

Fehr, W.R. New York, N.Y. : Marcel Dekker. Journal of plant nutrition. 1984. Presented at the "Second International Symposium on Iron Nutrition and Interactions in Plants," August 2-5, 1983, Utah State University, Logan. v. 7 (1/5). p. 347-354. Includes references. (NAL Call No.: QK867.J67).

0156

A delayed albino mutant in soybean.

Singh, B.B. Jha, A.N. New Delhi, Indian Society of Genetics & Plant Breeding. Indian journal of genetics & plant breeding. July 1978. v. 38 (2). p. 228-230. ill. 1 ref. (NAL Call No.: 64.8 IN2).

0157

Developments in crop protection of *Glycine* (soybeans, includes breeding for disease and pest resistance).

Yang, C.Y. Reprints - United States Dept. of Agriculture. 113 ref. (NAL Call No.: aS21.A8U5/USDA).

0158

Effect of a resistant soybean genotype on the development of the soybean looper (*Lepidoptera*: *Noctuidae*) and an introduced parasitoid, *Microplitis demolitor* Wilkinson (*Hymenoptera*: *Braconidae*) (*Pseudoplusia includens*).

Yanes, J. Jr. EVETB. Boethel, D.J. College Park : Entomological Society of America. Environmental entomology. Aug 1983. v. 12 (4). p. 1270-1274. Includes references. (NAL Call

No.: QL461.E532).

0159

The effect of parentage on the control of volunteer corn (*Zea mays*) in soybeans (*Glycine max*) (Weeds, herbicides, diclofop, glyphosate).

Andersen, R.N. Geadelmann, J.L. Champaign, Ill., Weed Science Society of America. Weed science. Mar 1982. v. 30 (2). p. 127-131. ill. Includes 5 ref. (NAL Call No.: 79.8 W41).

0160

Effect of planting dates and soybean cultivars on pod damage by corn earworm (*Heliothis zea*, resistance).

Joshi, J.M. USDA. Madison, Wis., Crop Science Society of America. Crop science. Jan/Feb 1980. v. 20 (1). p. 59-63. ill. 6 ref. (NAL Call No.: 64.8 C883).

0161

Effects of natural selection in segregating soybean populations exposed to *Phytophthora* rot or soybean cyst nematode (*Phytophthora megasperma*, *Heterodera glycines*, breeding programs).

Hartwig, E.E. Kilen, T.C.; Young, L.D.; Edwards, C.J. Jr. Madison, Wis., Crop Science Society of America. Crop science. May/June 1982. v. 22 (3). p. 588-590. 6 ref. (NAL Call No.: 64.8 C883).

0162

Evaluation of resistance in soybeans to soybean mosaic virus strains (Cultivars).

Cho, E.K. CRPSA. Goodman, R.M. Madison : Crop Science Society of America. Crop science. Nov/Dec 1982. v. 22 (6). p. 1133-1136. 16 ref. (NAL Call No.: 64.8 C883).

0163

Evaluation of selected soybean lines for nematode resistance.

Harville, B. Wellemeyer, E. Baton Rouge, La., The Department. Report of projects - Louisiana Agricultural Experiment Station, Department of Agronomy. 1982. p. 143-145. (NAL Call No.: 100 L936).

0164

Evaluation of soybean lines for soybean looper damage from S-154 Regional project (Breeding, resistance, Louisiana).

Harville, B.G. Elkins, M. Baton Rouge : The Department. Report of projects - Louisiana Agricultural Experiment Station, Department of

Agronomy. 1982. 1982. p. 275. (NAL Call No.: 100 L936).

aSB205.S7S6).

0165

Evaluation of soybean lines selected for insect resistance.

Gilman, D.F. Elkins, M.; Smith, C.M. Baton Rouge, The Department. Report of projects - Louisiana Agricultural Experiment Station, Department of Agronomy. 1980. 1980. p. 116-117. (NAL Call No.: 100 L936).

0166

Evaluation of soybean lines selected for insect resistance.

Gilman, D.F. LA. Hall, W.; Elkins, M. Baton Rouge, The Department. Report of projects - Louisiana Agricultural Experiment Station, Department of Agronomy. Louisiana. Agricultural Experiment Station. Dept. of Agronomy. 1979. 1979. p. 154-157. ill. (NAL Call No.: 100 L936).

0167

Field and laboratory evaluations of soybean lines for resistance to corn earworm (*Heliothis zea*) leaf feeding).

Smith, C.M. Brim, C.A. Baltimore, Entomological Society of America. Journal of economic entomology. Feb 15, 1979. v. 72 (1). p. 78-80. ill. 6 ref. (NAL Call No.: 421 J822).

0168

Field evaluation of soybean lines to Wartell race of root-knot nematode (Resistance).

Harville, B.G. Dunigan, E.P.; Birchfield, W.; Green, A. Baton Rouge : The Department. Report of projects - Louisiana Agricultural Experiment Station, Department of Agronomy. 1982. 1982. p. 266-267. (NAL Call No.: 100 L936).

0169

Four genes controlling root fluorescence in soybean (*Glycine max*).

Delannay, X. Palmer, R.G. Madison, Wis., Crop Science Society of America. Crop science. Mar/Apr 1982. v. 22 (2). p. 278-281. Includes ref. (NAL Call No.: 64.8 C883).

0170

The genetic basis of physiological races of *Phytophthora* (Soybean association, root rot).

Leudders, V.D. Ames, Iowa, The Service. Soybean genetics newsletter - United States, Agricultural Research Service. Apr 1982. v. 9. p. 135-139. 13 ref. (NAL Call No.:

0171

Genetic control of chloroplast pigment development in soybeans as a function of leaf and plant maturity.

Eskins, K. Harris, L.; Bernard, R.L. Rockville, Md., American Society of Plant Physiologists. Plant physiology. Apr 1981. v. 67 (4). p. 759-762. ill. 17 ref. (NAL Call No.: 450 P692).

0172

Genetic control of hypocotyl pigmentation among white-flowered soybeans grown in continuous light.

Palmer, R.G. Payne, R.C. Madison, Crop Science Society of America. Crop science. Jan/Feb 1979. v. 19 (1). p. 124-126. ill. 12 ref. (NAL Call No.: 64.8 C883).

0173

Genetic control of iron deficiency chlorosis in soybeans.

Cianzio, S.R. de. Fehr, W.R. Ames, Iowa State University. Iowa state journal of research. Feb 1980. v. 54 (3). p. 367-375. ill. 10 ref. (NAL Call No.: 470 I09).

0174

Genetic control of productivity, responsiveness and stability for different groups of traits in soybeans.

Gupta, V.P. Garg, I.K.; Rana, N.D. Ames, Iowa, The Service. Soybean genetics newsletter - United States, Agricultural Research Service. Apr 1982. v. 9. p. 53-58. 13 ref. (NAL Call No.: aSB205.S7S6).

0175

Genetic control of seed longevity in soybeans.

Kueneman, E.A. CRPSA. Madison : Crop Science Society of America. Crop science. Jan/Feb 1983. v. 23 (1). p. 5-8. Includes references. (NAL Call No.: 64.8 C883).

0176

Genetic implications of the susceptibility of Kent soybean to *Cercospora soja* (Frogeye leafspot, *Glycine max*, cultivars).

Boerma, H.R. PHYTAJ. Phillips, D.V. St. Paul : American Phytopathological Society. Phytopathology. Dec 1983. v. 73 (12). p. 1666-1668. Includes references. (NAL Call No.: 464.8 P56).

(PLANT BREEDING)

0177

Genetic variability for resistance to propanil (herbicide) injury in soybeans.
Karazawa, M. Caviness, C.E. Madison, Wis., Crop Science Society of America. Crop science. Sept/Oct 1979. v. 19 (5). p. 739-740. ill. 14 ref. (NAL Call No.: 64.8 C883).

0178

Genetics of resistance to Phytophthora rot in soybean cultivar PI 171442.
Kilen, T.C. Keeling, B.L. Madison, Wis., Crop Science Society of America. Crop science. Nov/Dec 1981. v. 21 (6). p. 873-875. 10 ref. (NAL Call No.: 64.8 C883).

0179

Genetics of the cyst nematode-soybean symbiosis (Heterodera glycines, Glycine max).
Luedders, V.D. PHYTA. St. Paul : American Phytopathological Society. Phytopathology. June 1983. Presented at the Symposium on Genetic Aspects of Breeding for Resistance Against Soilborne Plant Pathogens, the 74th Annual Meeting of the American Phytopathological Society, Salt Lake City, Utah, August 10, 1982. v. 73 (6). p. 944-948. Includes references. (NAL Call No.: 464.8 P56).

0180

Greenhouse determination of soybean tolerance to phytophthora rot (Phytophthora megasperma glycinea, cultivars).
Buzzell, R.I. Mortimore, C.G.; Haas, J.H. Ames, Iowa, The Service. Soybean genetics newsletter - United States, Agricultural Research Service. Apr 1982. v. 9. p. 30-32. 3 ref. (NAL Call No.: ASB205.S756).

0181

A greenhouse screening procedure for root-knot nematode (Meloidogyne incognita) resistance in soybeans (Genotypes).
Hussey, R.S. Boerma, H.R. Madison, Wis., Crop Science Society of America. Crop science. Sept/Oct 1981. v. 21 (5). p. 794-796. ill. 8 ref. (NAL Call No.: 64.8 C883).

0182

Gregg: a new soybean variety (resistant to the soybean cyst nematode).
Harville, B.G. LOAGA. Elkins, W.M.; Green, M.A.; Hall, W. Baton Rouge : The Station. Louisiana agriculture - Louisiana Agricultural Experiment Station. Fall 1983. v. 27 (1). p. 9. ill. (NAL Call No.: 100 L939).

0183

Heritability of tolerance to Phytophthora rot in soybean (Glycine max).
Walker, A.K. Schmitthenner, A.F. Madison, Wis. : Crop Science Society of America. Crop science. May/June 1984. v. 24 (3). p. 490-491. Includes references. (NAL Call No.: 64.8 C883).

0184

Identification of additional soybean germ plasm with resistance to race 3 of the soybean cyst nematode (Heterodera glycines, cultivars).
Anand, S.C. Gallo, K.M. St. Paul, Minn. : American Phytopathological Society. Plant disease. July 1984. v. 68 (7). p. 593-595. Includes references. (NAL Call No.: 1.9 P69P).

0185

Identification of multiple insect resistant soybean lines.
Hatchett, J.H. Beland, G.L. Madison, Wis., Crop Science Society of America. Crop science. July/Aug 1979. v. 19 (4). p. 557-559. ill. 8 ref. (NAL Call No.: 64.8 C883).

0186

Identification of sources of resistance to limabean podborer (Lepidoptera: Tyralidae) in soybean (Etiella zinckenella, Glycine max).
Talekar, N.S. Chen, B.S. College Park, Md. : Entomological Society of America. Journal of economic entomology. Feb 1983. v. 76 (1). p. 38-39. Includes references. (NAL Call No.: 421 J822).

0187

Identification of sources of resistance to the beanfly (Ophiomyia phaseoli) and two other agromyzid flies (Ophiomyia centrosematis, Melanagromyza sojae) in soybean and mungbean (Variety trials).
Chiang, H.S. Talekar, N.S. College Park, Md., Entomological Society of America. Journal of economic entomology. Apr 1980. v. 73 (2). p. 197-199. ill. 8 ref. (NAL Call No.: 421 J822).

0188

Identification of soybean germplasm lines and cultivars with low incidence of soybean mosaic virus transmission through seed.
Goodman, R.M. Bowers, G.R. Jr. Madison, Crop Science Society of America. Crop science. Mar/Apr 1979. v. 19 (2). p. 264-267. ill. 25 ref. (NAL Call No.: 64.8 C883).

0189

Influence of maize rotations on the yield of soybean grown in *Meloidogyne incognita* infested soil (Root-knot nematode, cultivars, southeastern USA).

Kinloch, R.A. Ames, Iowa : Society of Nematologists. *Journal of nematology*. July 1983. v. 15 (3). p. 398-405. Includes references. (NAL Call No.: QL391.N4J62).

0190

Inheritance of fatty acid composition in soybean seed oil (Genetic control of oil biosynthesis).

Martin, B.A. Carver, B.F.; Burton, J.W.; Wilson, R.F. Ames : The Service. Soybean genetics newsletter - United States, Agricultural Research Service. Apr 1983. v. 10. p. 89-92. Includes references. (NAL Call No.: aSB205.S7S6).

0191

Inheritance of reaction to soybean mosaic virus in soybeans (Cultivars).

Kiihl, R.A.S. Hartwig, E.E. Madison, Crop Science Society of America. *Crop science*. May/June 1979. v. 19 (3). p. 372-375. ill. 9 ref. (NAL Call No.: 64.8 C883).

0192

Inheritance of reaction to the reniform nematode (*Rotylenchulus reniformis*) in soybean.

Williams, C. Gilman, D.F.; Fontenot, D.S.; Birchfield, W. Madison, Wis., Crop Science Society of America. *Crop science*. Jan/Feb 1981. v. 21 (1). p. 93-94. 11 ref. (NAL Call No.: 64.8 C883).

0193

Inheritance of resistance in soybeans to physiologic races 5, 6, 7, 8, and 9 of *Phytophthora megasperma* var. *sojae*.

Laviolette, F.A. Athow, K.L. St. Paul, American Phytopathological Society. *Phytopathology*. Mar 1979. v. 69 (3). p. 270-271. ill. 3 ref. (NAL Call No.: 464.8 P56).

0194

Inheritance of resistance to soybean mosaic virus in *Phaseolus vulgaris*.

Providenti, R. Gonsalves, D.; Ranalli, P. Washington, D.C., American Genetic Association. *The Journal of heredity*. July/Aug 1982. v. 73 (4). p. 302-303. 14 ref. (NAL Call No.: 442.8 AM3).

0195

Inheritance of resistance to soybean pod borer in soybeans (*Leguminivora glycinivorella*).

Zhang, Z.U. ISSODB. Fu, C.Q. Urbana : International Agricultural Publications, College of Agriculture, University of Illinois. INTSOY International Soybean Program series. July 1983. July 1983. (25). p. 74-79. Includes references. (NAL Call No.: TX558.S715).

0196

Inheritance of resistance to yellow mosaic in soybean.

Singh, B.B. Malick, A.S. New Delhi, Indian Society of Genetics & Plant Breeding. *Indian journal of genetics & plant breeding*. July 1978. v. 38 (2). p. 258-261. ill. 2 ref. (NAL Call No.: 64.8 IN2).

0197

Inheritance of tolerance of high manganese supply in soybeans (Manganese toxicity).

Heenan, D.P. Campbell, L.C.; Carter, O.G. Madison, Wis., Crop Science Society of America. *Crop science*. July/Aug 1981. v. 21 (4). p. 625-627. Bibliography p. 627. (NAL Call No.: 64.8 C883).

0198

Inheritance of tolerance or resistance to manganese toxicity in soybeans.

Brown, J.C. Devine, T.E. Madison, Wis., American Society of Agronomy. *Agronomy journal*. Nov/Dec 1980. v. 72 (6). p. 898-904. ill. 17 ref. (NAL Call No.: 4 AM34P).

0199

Insect population dynamics in relation to soybean narrow and broad leaf isolines (Soybean varieties).

Wells, P. Dadson, R.B.; Joshi, J.M.; Murphy, L. Ames : The Service. Soybean genetics newsletter - United States, Agricultural Research Service. Apr 1983. v. 10. p. 50. Includes references. (NAL Call No.: aSB205.S7S6).

0200

Linkage relationships in soybean between genes controlling reactions to phytophthora rot and metribuzin.

Kilen, T.C. CRPSAY. Barrentine, W.L. Madison : Crop Science Society of America. *Crop science*. Sept/Oct 1983. v. 23 (5). p. 894-896. Includes references. (NAL Call No.: 64.8 C883).

(PLANT BREEDING)

0201

Methanol stress as a test of seed vigor (Peas, soybeans, cultivars, germination).
Musgrave, M.E. Priestley, D.A.; Leopold, A.C. Madison, Wis., Crop Science Society of America. Crop science. Sept/Oct 1980. v. 20 (5). p. 626-630. ill. 20 ref. (NAL Call No.: 64.8 C883).

0202

Morphological and physiological parameters of soybean resistance to agromyzid beanflies.
Chiang, H.S. EVETB. Norris, D.M. College Park : Entomological Society of America. Environmental entomology. Feb 1983. v. 12 (1). p. 260-265. Includes references. (NAL Call No.: QL461.E532).

0203

New disease-resistant soybean (Vickery, variety, Phytophthora megasperma var. sojae).
Walker, A.K. OH-AR-NC. Schmitthenner, A.F.; Cooper, R.L.; Martin, R.J. Wooster, The Center. Ohio report on research and development in agriculture, home economics, and natural resources. Ohio. Agricultural Research and Development Center. Mar/Apr 1980. v. 65 (2). p. 24-25. (NAL Call No.: 100 OH35 (3)).

0204

A new gene for peanut mottle virus resistance in soybean.
Buss, G.R. Roane, C.W.; Tolin, S.A. Ames : The Service. Soybean genetics newsletter - United States, Agricultural Research Service. Apr 1983. v. 10. p. 102-104. Includes references. (NAL Call No.: aSB205.S7S6).

0205

A new major gene for resistance to Phytophthora megasperma var. sojae in soybean.
Athow, K.L. AR-NC. Laviolette, F.A.; Mueller, E.H.; Wilcox, J.R. St. Paul, Minn., American Phytopathological Society. Phytopathology. Oct 1980. v. 70 (10). p. 977-980. 7 ref. (NAL Call No.: 464.8 P56).

0206

New soybean strain resistant to soybean cyst nematode: PI 416.762 (Glycine max, Heterodera glycines).
Anand, S.C. St. Paul, Minn., American Phytopathological Society. Plant disease. Oct 1982. v. 66 (10). p. 933-934. 3 ref. (NAL Call No.: 1.9 P69P).

0207

New varieties boost (soy) bean yields (Variety selection for regional climates).
Blair, J. St. Louis, Mo., American Soybean Association. Soybean digest. May/June 1981. v. 41 (7). p. 32b. (NAL Call No.: 60.38 S09).

0208

Plant pathology and International Soybean Program (INTSOY).
Goodman, R.M. Sinclair, J.B.; Hepperly, P.R. St. Paul, Minn., American Phytopathological Society. Plant disease. Mar 1981. v. 65 (3). p. 214-222. ill. 15 ref. (NAL Call No.: 1.9 P69P).

0209

Population dynamics of Criconemoides simile on soybean (Ring nematode, soybean cultivars).
McGawley, E.C. JONEB. Chapman, R.A. Ames : Society of Nematologists. Journal of nematology. Oct 1982. v. 14 (4). p. 572-575. Includes references. (NAL Call No.: QL391.N4J62).

0210

Preliminary soybean looper resistance study (Pseudoplusia includens, soybean breeding lines).
Harville, B.G. Smith, C.M.; Green, A. Baton Rouge : The Department. Report of projects - Louisiana Agricultural Experiment Station, Department of Agronomy. 1982. 1982. p. 273-274. (NAL Call No.: 100 L936).

0211

Premature flowering in soybean yield reductions at nonoptimal planting dates as influenced by temperature and photoperiod (Cultivar comparisons, daylengths, includes field studies in Louisiana).
Board, J.E. Hall, W. Madison, Wis. : American Society of Agronomy. Agronomy journal. July/Aug 1984. v. 76 (4). p. 700-704. ill. Includes references. (NAL Call No.: 4 AM34P).

0212

Prescribed resistant cultivars for controlling brown stem rot of soybean and managing resistance genes (Phialophora gregata).
Tachibana, H. St. Paul, Minn., American Phytopathological Society. Plant disease. Mar 1982. v. 66 c (3). p. 271-273. ill. Includes 3 ref. (NAL Call No.: 1.9 P69P).

0213

Production of conidia by *Cerecosora kikuchii* in culture (Soybean breeding for resistance). Vathakos, M.G. Walters, H.J. St. Paul, Minn., American Phytopathological Society. Phytopathology. Aug 1979. Aug 1979. . 69 (8). p. 832-833. 12 ref. (NAL Call No.: 464.8 P56).

0214

"Purple stem," a new indicator of soybean stem resistance to bean flies (Diptera: Agromyzidae) (*Ophiomyia centrosematis*).

Chiang, H.S. Norris, D.M. College Park, Md. : Entomological Society of America. Journal of economic entomology. Feb 1984. v. 77 (1). p. 121-125. ill. Includes references. (NAL Call No.: 421 J822).

0215

Reaction of soybean cultivars to Temik (aldicarb) and inheritance of the reaction (Insecticides, tolerance).

Kihl, R.A.S. Almeida, L.A. Ames, Iowa, The Service. Soybean genetics newsletter - United States, Agricultural Research Service. Apr 1982. v. 9. p. 17-18. (NAL Call No.: aSB205.S7S6).

0216

Resistance in soybeans to the southern green stink bug (*Nezara viridula*, U.S., particularly in Louisiana and other Gulf Coast states).

Gilman, D.F. McPherson, R.M.; Newsom, L.D.; Herzog, D.C.; Williams, C. Madison, Wis., Crop Science Society of America. Crop science. May/June 1982. v. 22 (3). p. 573-576. 15 ref. (NAL Call No.: 64.8 C883).

0217

Resistance of soybean cultivars and plant introductions to damage by soybean borer (*Etiella zinckenella*).

Sichkar, V.I. Grikun, O.A.; Lobko, V.N.; Marj'ushkin, V.F. Ames : The Service. Soybean genetics newsletter - United States, Agricultural Research Service. Apr 1983. v. 10. p. 117-123. Includes references. (NAL Call No.: aSB205.S7S6).

0218

Resistance of soybean cultivars to *Sclerotinia sclerotiorum*.

Grau, C.R. Radke, V.L.; Gillespie, F.L. St. Paul, Minn., American Phytopathological Society. Plant disease. June 1982. v. 66 (6). p. 506-508. ill. Includes 15 ref. (NAL Call No.: 1.9 P69P).

0219

Resistance to bud blight in introductions from the germ plasm of wild soybean (Tobacco ringspot virus).

Orellana, R.G. St. Paul, Minn., American Phytopathological Society. Plant disease. July 1981. v. 65 (7). p. 594-595. Includes 12 ref. (NAL Call No.: 1.9 P69P).

0220

Resistance to Mexican bean beetle (*Epilachna varivestis*) and corn earworm (*Heliothis zea*) in soybean genotypes derived from PI 227687.

Smith, C.M. Brim, C.A. Madison, Crop Science Society of America. Crop science. May/June 1979. v. 19 (3). p. 313-314. ill. 8 ref. (NAL Call No.: 64.8 C883).

0221

Resistance to soybean rust (*Phakopsora pachyrhizi*) and mode of inheritance.

Bromfield, K.R. AR-NE-AR-SO. Hartwig, E.E. Madison, Wis., Crop Science Society of America. Crop science. Mar/Apr 1980. v. 20 (2). p. 254-255. ill. 9 ref. (NAL Call No.: 64.8 C883).

0222

Response of resistant and susceptible soybean cultivars to continuous cropping in area infested with cyst nematode (*Heterodera glycines*, North Carolina).

Hartwig, E.E. Epps, J.M.; Buehring, N. St. Paul, Minn., American Phytopathological Society. Plant disease. Jan 1982. v. 66 (1). p. 18-20. 4 ref. (NAL Call No.: 1.9 P69P).

0223

Response of soybean strains to artificial inoculation with *Nematospora coryli* (Yeast spot disease).

Keeling, B.L. Hartwig, E.E.; Jackson, E.L. Madison, Wis., Crop Science Society of America. Crop science. Jan/Feb 1981. v. 21 (1). p. 73-75. 7 ref. (NAL Call No.: 64.8 C883).

0224

Ridomil fungicide as a seed and soil treatment versus genetic resistance for control *Phytophthora* rot of soybeans, 1979 (Soybean (*Glycine max* 'Marshall', 'Harosoy', 'Corsoy', 'Harcor', 'Vickery'), pre- and postemergence damping-off, root rot, *Phytophthora megasperma* var. *sojae*).

Tachibana, H. Thompson, R.A. (s.l.), The Society. Fungicide and nematicide tests; results - American Phytopathological Society. 1980. v. 35. p. 193-194. (NAL Call No.: 464.9 AM31R).

(PLANT BREEDING)

0225

Ridomil fungicide as a seed and soil treatment vs genetic resistance for control of Phytophthora rot of soybeans, 1980 (Soybean (Glycine max 'Marshall', 'Corsoy', 'Harcor', 'Vickery'), pre- and postemergence damping-off, root rot Phytophthora megasperma, Phytophthora megasperma var sojae).

Tachibana, H. Hatfield, J.D. (s.l.), The Society. Fungicide and nematicide tests; results - American Phytopathological Society. 1981. v. 36. p. 164-165. (NAL Call No.: 464.9 AM31R).

0226

Rps 6, a major gene for resistance to Phytophthora megasperma f. sp. glycinea in soybean (Glycine max).
Athow, K.L. PHYTA. Laviolette, F.A. St. Paul : American Phytopathological Society. Phytopathology. Dec 1982. v. 72 (12). p. 1564-1567. 10 ref. (NAL Call No.: 464.8 P56).

0227

Sclerotinia stem rot (white mold) of soybean (Sclerotinia sclerotiorum, includes resistant and susceptible varieties).
Grau, C.R. Heimann, M.F. Madison : The Programs. Publication - Cooperative Extension Programs. University of Wisconsin - Extension. 1982. 1982. (A3172). 2 p. ill. (NAL Call No.: S544.3.W6W53).

0228

Screening and selecting of improved soybean germplasms for resistance to soybean cyst nematode (SCN) and other soybean diseases in Alabama (Heterodera glycines).
Pacumbaba, R.P. Sapra, V.T. Normal : The School. Annual research report - School of Agriculture. Environmental Science and Home Economics. Alabama Agricultural and Mechanical University. 1983. 1983. (12th). p. 99-102. maps. Includes references. (NAL Call No.: S537.A2A34).

0229

Screening for cyst nematode resistance in soybean breeding (Heterodera glycines).
Anand, S.C. Brar, G.S.; Gallo, K. Ames : The Service. Soybean genetics newsletter - United States, Agricultural Research Service. Apr 1983. v. 10. p. 63-66. Includes references. (NAL Call No.: aSB205.S7S6).

0230

Screening methodology for resistance to field weathering of soybean seed (Genotypes, Phomopsis pathogens, seed storability).
Dassou, S. Kueneman, E.A. Madison, Wis. : Crop Science Society of America. Crop science. July/Aug 1984. v. 24 (4). p. 774-779. ill. Includes references. (NAL Call No.: 64.8 C883).

0231

Screening soybean for resistance to Heterodera glycines ichinohe using monoxenic cultures (Breeding lines, glycine max).
Lauritis, J.A. JONEB. Rebois, R.V.; Graney, L.S. Ames : Society of Nematologists. Journal of nematology. Oct 1982. v. 14 (4). p. 593-594. Includes references. (NAL Call No.: QL391.N4J62).

0232

A second gene for resistance to peanut mottle virus in soybeans.
Shipe, E.R. Buss, G.R. Madison, Wis., Crop Science Society of America. Crop science. Sept/Oct 1979. v. 19 (5). p. 656-658. ill. 18 ref. (NAL Call No.: 64.8 C883).

0233

A second report on induced mutations for soybean rust resistance.
Smutkupt, S. Wongpiyasatid, A.; Lamseejan, S. Ames, Iowa, The Service. Soybean genetics newsletter - United States, Agricultural Research Service. Apr 1982. v. 9. p. 103-107. 3 ref. (NAL Call No.: aSB205.S7S6).

0234

A seedling test for resistance to soybean stem canker caused by Diaporthe phaseolorum var. caulivora (Glycine max).
Keeling, B.L. St. Paul, American Phytopathological Society. Phytopathology. July 1982. v. 72 (7). p. 807-809. ill. 11 ref. (NAL Call No.: 464.8 P56).

0235

Selection for aluminum tolerance in soybeans based on seedling-root growth (Toxicity).
Hanson, W.D. Kamprath, E.J. Madison. Agronomy journal American Society of Agronomy. July/Aug 1979. v. 71 (4). p. 581-586. ill. 16 ref. (NAL Call No.: 4 AM34P).

0236

Selection for resistance to four races of *Phytophthora megasperma* var. *sojae* in soybean.
Kilen, T.C. Madison, Wis., Crop Science Society of America. Crop science. Sept/Oct 1979. v. 19 (5). p. 581-582. ill. 8 ref. (NAL Call No.: 64.8 C883).

0237

Simultaneous selection for yield and resistance to brown stem rot of soybean in hill plots (*Phialophora gregata*, cultivars).
Ertl, D.S. CRPSA. Fehr, W.R. Madison : Crop Science Society of America. Crop science. July/Aug 1982. v. 23 (4). p. 680-682. Includes references. (NAL Call No.: 64.8 C883).

0238

Soybean and mite interaction: effects of cultivar and plant growth stage (*Tetranychus urticae*).
Rodriguez, J.G. JKESA. Reicosky, D.A.; Patterson, C.G. Lawrence : The Society. Journal of the Kansas Entomological Society. July 1983. v. 56 (3). p. 320-326. Includes references. (NAL Call No.: 420 K13).

0239

Soybean breeding for resistance to foliage feeding arthropods.
Paschal, E.H. II. TX-AR-SO. Rogers, C.E. College Station, Tex., The Station. MP - Texas Agricultural Experiment Station. July 1980. July 1980. (1451). p. 390-397. Bibliography p. 396-397. (NAL Call No.: 100 T31M).

0240

Soybean emergence in clay soil and tolerance to phytophthora rot (*Phytophthora megasperma*, cultivars).
Buzzell, R.I. Anderson, T.R. Ames, Iowa, The Service. Soybean genetics newsletter - United States, Agricultural Research Service. Apr 1982. v. 9. p. 29-30. 2 ref. (NAL Call No.: aSB205.S7S6).

0241

Soybean resistance to adults of lucerne crown borer, *Zygrita diva* Thomson (Coleoptera: Cerambycidae).
Shepard, M. Keerati-Kasikorn, M.; Blood, P.R.B.; Morgan, D. Athens, Ga., The Society. Journal of the Georgia Entomological Society. Jan 1981. v. 16 (1). p. 34-40. ill. 13 ref. (NAL Call No.: QL461.G4).

0242

Soybean varieties: fungicide seed treatments, foliar fungicides, nematocides.
Schmitt, D.P. Ross, J.P. Raleigh, N.C., The Service. AG - North Carolina State University, Agricultural Extension Service. Aug 1980. Aug 1980. (218, suppl.). 4 p. (NAL Call No.: S544.3.N6N62).

0243

A study of soybeans and rhizobia tolerance to low phosphorus - high aluminum in acid soils (Cultivars).
Taylor, R.W. Patel, S. Normal : The School. Annual research report - School of Agriculture. Environmental Science and Home Economics. Alabama Agricultural and Mechanical University. 1983. 1983. (12th). p. 113-120. ill. Includes references. (NAL Call No.: S537.A2A34).

0244

Susceptibility of six soybean cultivars to *Meloidogyne incognita* race 4 (USA, Puerto Rico).
Acosta, N. NMTPA. Negron, J.A. Auburn : Organization of Tropical American Nematologists. Nematologica. Dec 1982. v. 12 (2). p. 181-187. ill. Includes references. (NAL Call No.: SB998.N4N4).

0245

Susceptibility of soybean cultivars and lines to *Pratylenchus hexincisus*.
Zirakparvar, M.E. Ames, Iowa, Society of Nematologists. Journal of nematology. Apr 1982. v. 14 (2). p. 217-220. Includes 11 ref. (NAL Call No.: QL391.N4J62).

0246

Tolerance/resistance to soybean mosaic virus (Heritability).
Buzzell, R.I. Ames : The Service. Soybean genetics newsletter - United States, Agricultural Research Service. Apr 1983. v. 10. p. 9-10. Includes references. (NAL Call No.: aSB205.S7S6).

0247

Two genes for resistance to race 5 of *Cercospora sojae* in soybeans (Frog-eye leafspot, *Glycine max*).
Phillips, D.V. Boerma, H.R. St. Paul, American Phytopathological Society. Phytopathology. July 1982. v. 72 (7). p. 764-766. 9 ref. (NAL Call No.: 464.8 P56).

(PLANT BREEDING)

0248

Use of bicarbonate in screening soybeans for resistance to iron chlorosis (Soybeans, cultivars, genetics).

Coulombe, B.A. Chaney, R.L.; Wiebold, W.J. New York, N.Y. : Marcel Dekker. Journal of plant nutrition. 1984. Presented at the "Second International Symposium on Iron Nutrition and Interactions in Plants," August 2-5, 1983, Utah State University, Logan. v. 7 (1/5). p. 411-425. ill. Includes references. (NAL Call No.: QK867.J67).

0249

Yield of indeterminate soybeans in response to multiple periods of soil-water stress during reproduction (Glycine max, cultivars).

Snyder, R.L. Carlson, R.E.; Shaw, R.H. Madison, Wis., American Society of Agronomy. Agronomy journal. Sept/Oct 1982. v. 74 (5). p. 855-859. 2 p. ref. (NAL Call No.: 4 AM34P).

PLANT ECOLOGY

0250

Effects of cultural practices on natural enemies (Beneficial arthropod dynamics in soybean, role of plant phenology, pest control implications).

Mayse, M.SCSBA. Pitre, H.N.; Whitcomb, W.
Mississippi State : Mississippi Agricultural
and Forestry Experiment Station. Southern
cooperative series bulletin. June 1983.
Regional Research Project S-74. June 1983.
(285). p. 49-55. Includes references. (NAL Call
No.: 100 G29S0).

PLANT STRUCTURE

0251

Critical stages of development for defoliation of soybean (Yield components, economic-injury level).

Fehr, W.R. Lawrence, B.K.; Thompson, T.A. Madison, Wis., Crop Science Society of America. Crop science. Mar 1981. v. 21 (2). p. 259-262. 11 ref. (NAL Call No.: 64.8 C883).

0252

Cytopathology of soybean tissue culture cells infected with southern bean mosaic virus.

Wu, F.S. Hooper, G.R.; Murskishi, H.M. Gaithersburg, Md., The Association. In vitro; journal of the Tissue Culture Association. June 1982. v. 18 (6). p. 525-530. 111. 10 ref. (NAL Call No.: QH585.A1I58).

0253

Early events of pathogenesis of zoospores of Phytophthora megasperma f. sp. Glycinea on resistant and susceptible soybean roots (Scanning electron microscopy).

Ristaino, J.B. Rissler, J.F. College Park, Md. : Univ. of Maryland, Electron Microsc Cent Facil, Dept. of Mechanical Engineering. Newsletter - Electron Microscope Central Facility. Apr 1983. Apr 1983. (11). p. 15-17. 111. Includes references. (NAL Call No.: QH212.E4E4).

0254

Histopathology of susceptible and resistant soybean roots inoculated with zoospores of Phytophthora megasperma f. sp. glycinea (Glycine max).

Beagle-Ristaino, J.F. PHYTA. Rissler, J.F. St. Paul : American Phytopathological Society. Phytopathology. Apr 1983. v. 73 (4). p. 590-595. 111. Includes references. (NAL Call No.: 464.8 P56).

0255

Root system characteristics of two soybean isolines undergoing water stress conditions (Glycine max, Nebraska).

Garay, A.F. AGUOA. Wilhelm, W.W. Madison : American Society of Agronomy. Agronomy journal. Nov/Dec 1983. v. 75 (6). p. 973-977. 111. Includes references. (NAL Call No.: 4 AM34P).

0256

Studies on the role of wall extensibility in the control of cell expansion (Soybeans, peas, maize, cucumbers).

Coartney, J.S. Morre, D.J. Chicago, University of Chicago Press. Botanical gazette. Mar 1980. v. 141 (1). p. 56-62. 111. 20 ref. (NAL Call

No.: 450 B652).

0257

Ultrastructural cytology of soybean infected with mild and severe strains of soybean mosaic virus (Glycine max).

Hunst, P.L. PHYTA. Tolin, S.A. St. Paul : American Phytopathological Society. Phytopathology. Apr 1983. v. 73 (4). p. 615-619. 111. Includes references. (NAL Call No.: 464.8 P56).

PLANT NUTRITION

0258

Calcium-trace metal interactions in soybean plants (Phytotoxicity).
Wallace, A. Romney, E.M.; Mueller, R.T.; Alexander, G.V. New York, Marcel Dekker.
Journal of plant nutrition. 1980. v. 2 (1/2). p. 79-86. ill. 18 ref. (NAL Call No.: QK867.J67).

0259

Corn residue management and weed control in close-drilled soybeans (Herbicide adsorption).
Moomaw, R.S. Burnside, D.C. Madison. Agronomy journal American Society of Agronomy. Jan/Feb 1979. v. 71 (1). p. 78-80. ill. 6 ref. (NAL Call No.: 4 AM34P).

0260

Critical manganese deficiency level of soybean related to leaf position (Physiological age).
Ohki, K. Boswell, F.C. Madison. Agronomy journal American Society of Agronomy. Mar/Apr 1979. v. 71 (2). p. 233-234. ill. 13 ref. (NAL Call No.: 4 AM34P).

0261

Diagnostic indices of zinc deficiency in tropical legumes (Soybeans, Lablab purpureus, Desmodium uncinatum, Macroptilium lathroides).
New York, Marcel Dekker. Journal of plant nutrition. 1979. v. 1 (2). p. 123-149. ill. 38 ref. (NAL Call No.: QK867.J67).

0262

Differential cultivar tolerance in soybean to phytotoxic levels of soil Zn. II. Range of Zn additions and the uptake and translocation of Zn, Mn, Fe, and P (Zinc, manganese, iron, and phosphorus).
White, M.C. Chaney, R.L. Madison. Agronomy journal American Society of Agronomy. Jan/Feb 1979. v. 71 (1). p. 126-131. ill. 25 ref. (NAL Call No.: 4 AM34P).

0263

Differential metabolism of metribuzin (herbicide) by two soybean (Glycine max) cultivars.
Mangeot, B.L. Slife, F.E. Champaign, Ill., Weed Science Society of America. Weed science. May 1979. v. 27 (3). p. 267-269. ill. 5 ref. (NAL Call No.: 79.8 W41).

0264

Early planting of soybeans in cyst-infested soil and the effects on the size and number of nodules (Nematodes, rhizobium, inhibition).
Pacumbaba, R.P. Sapra, V.T. Normal : The School. Annual research report - School of Agriculture. Environmental Science and Home Economics. Alabama Agricultural and Mechanical University. 1983. 1983. (12th). p. 91-94. ill. Includes references. (NAL Call No.: S537.A2A34).

0265

The effect of benomyl (fungicide) applications to soybean plants on hilum color (Cultivars).
Payne, R.C. Schoen, J.F. n.p., The Association. News letter. Association of Official Seed Analysts. Sept 1979. v. 53 (3). p. 48-50. ill. 3 ref. (NAL Call No.: 61.9 AS7N).

0266

Effect of carbon dioxide concentration on growth and dry matter production of crop plants. VI. Effect of oxygen concentration on the carbon dioxide-dry matter production relationship in some C3- and C4 (carbon pathway)-crop species (Rice, soybeans, Japanese millet and maize).
Imai, K. Murata, Y. Tokyo, Nihon Sakumotsu Gakkai. Nihon Sakumotsu Gakkai kiji. Japanese journal of crop science Nihon Gakkai Sakumotsu. Mar 1979. v. 48 (1). p. 58-65. ill. 24 ref. (NAL Call No.: 22.5 C88).

0267

Effect of fertilizer-N and herbicides on the growth and N (nitrogen) content of soybeans and cowpeas.
Behran, S. Maftoun, M. Madison. Agronomy journal American Society of Agronomy. July/Aug 1979. v. 71 (4). p. 533-538. ill. 28 ref. (NAL Call No.: 4 AM34P).

0268

Effect of fertilizer reaction and placement on availability of manganese (Deficiencies, sugarbeets, soybeans, navy beans).
Voth, R.D. Christenson, D.R. Madison, Wis., American Society of Agronomy. Agronomy journal. Sept/Oct 1980. v. 72 (5). p. 769-773. 13 ref. (NAL Call No.: 4 AM34P).

(PLANT NUTRITION)

0269

Effect of fungicides and herbicides on nodulation and N₂ (nitrogen) fixation in soybean fields lacking indigenous *Rhizobium japonicum* (Survival of granular and seed-applied inoculants of *Rhizobium*).
Rennie, R.J. Dubetz, S. Madison, Wis. : American Society of Agronomy. Agronomy journal. May/June 1984. v. 76 (3). p. 451-454. Includes references. (NAL Call No.: 4 AM34P).

0270

Effect of iron on the correction of soybean chlorosis.
Evans, S.D. MXMRA. Meredith, H.L. St. Paul : The Station. Miscellaneous publication - University of Minnesota, Agricultural Experiment Station. 1983. 1983. (2 rev.). p. 97. (NAL Call No.: S1.M52).

0271

Effects of simulated field temperatures and chilling on itchgrass (*Rottboellia exaltata*), corn (*Zea mays*), and soybean (*Glycine max*).
Patterson, D.T. Flint, E.P. Champaign, Ill., Weed Science Society of America. Weed science. Nov 1979. v. 27 (6). p. 645-650. ill. 17 ref. (NAL Call No.: 79.8 W41).

0272

Effects of wetting agent, stage of growth, and species on the selectivity of diclofop (wheat, soybeans, cucumber, sorghum).
Schreiber, M.M. Warren, G.F. Champaign, Ill., Weed Science Society of America. Weed science. Nov 1979. v. 27 (6). p. 679-683. ill. 13 ref. (NAL Call No.: 79.8 W41).

0273

Environmental sensitivity of acetylene reduction activity in prediction of N (nitrogen) fixation in soybeans (relationship between effects of water stress and temperature).
Raper, C.D. Jr. CR. Patterson, R.P. Madison, Wis., American Society of Agronomy. Agronomy journal. Sept/Oct 1980. v. 72 (5). p. 717-719. ill. 13 ref. (NAL Call No.: 4 AM34P).

0274

Evaluation of the need for copper with several soil extractants (Deficiencies, critical levels, soybeans, *Glycine max*, corn, *Zea mays*, wheat, *Triticum aestivum*, soils from the Atlantic Coastal Plain, North Carolina).
Makarim, A.K. AGJDA. Cox, F.R. Madison : American Society of Agronomy. Agronomy journal. May/June 1983. v. 75 (3). p. 493-496. Includes

references. (NAL Call No.: 4 AM34P).

0275

Fertilizer reduces yield loss from weather stress (Corn, soybeans, research in Ohio).
Johnson, J. BCPFA. Atlanta : Potash & Phosphate Institute. Better crops with plant food. Summer 1983. v. 67. p. 6-7. (NAL Call No.: 6 B46).

0276

Foliage injury, nutrient intake, and yield of soybeans as influenced by foliar fertilization.
Parker, M.B. Boswell, F.C. Madison, Wis., American Society of Agronomy. Agronomy journal. Jan/Feb 1980. v. 72 (1). p. 110-113. ill. 9 ref. (NAL Call No.: 4 AM34P).

0277

Foliar nitrogen loss and CO₂ (carbon dioxide) equilibrium as influenced by three soybean (*Glycine max*) (infested with *Ipomoea hederacea* (*integriusula*) postemergence herbicides (Physiological responses).
Weiland, R.T. Stutte, C.A. Champaign, Ill., Weed Science Society of America. Weed science. Sept 1979. v. 27 (5). p. 545-548. ill. 20 ref. (NAL Call No.: 79.8 W41).

0278

Germination and emergence of balloonvine (*Cardiospermum halicacabum*) (Compared with soybean seeds).
Johnston, S.K. Murray, D.S. Champaign, Ill., Weed Science Society of America. Weed science. Jan 1979. v. 27 (1). p. 73-76. ill. 9 ref. (NAL Call No.: 79.8 W41).

0279

Growth and specific nodule activity of soybean (inoculated with *Rhizobium japonicum*) during application and recovery of a leaf moisture stress.
Patterson, R.P. Raper, C.D. Jr. Bethesda, Md., American Society of Plant Physiologists. Plant physiology. Oct 1979. v. 64 (4). p. 551-556. ill. 16 ref. (NAL Call No.: 450 P692).

0280

Growth and water use by common cocklebur (*Xanthium pensylvanicum*) and soybeans (*Glycine max*) under field conditions.
Geddes, R.D. Scott, H.D. Champaign, Ill., Weed Science Society of America. Weed science. Mar 1979. v. 27 (2). p. 206-212. ill. 15 ref. (NAL Call No.: 79.8 W41).

0281

Influence of napropamide on the uptake and translocation of mineral nutrients (Herbicide, radish, wheat, corn, soybean).

Devlin, R.M. Zbiec, I.I.; Karczmarczyk, S.J. Champaign, Ill., Weed Science Society of America. Weed science. Sept 1982. v. 30 (5). p. 503-506. 7 ref. (NAL Call No.: 79.8 W41).

0282

Influence of soil reaction and manganese applications on yields and chemical composition of soybean plants (Includes phytotoxicity, Louisiana).

Sedberry, J.E. Jr. Bligh, D.P.; Mascagni, H.U.; Brupbacher, R.H.; Marshall, J.G. Baton Rouge : The Department. Report of projects - Louisiana Agricultural Experiment Station, Department of Agronomy. 1982. 1982. p. 277-280. Includes references. (NAL Call No.: 100 L936).

0283

Interaction of mineral and cytokinin supply in control of leaf senescence and seed growth in soybean explants (Glycine max).

Neumann, P.M. JPNUDS. Nooden, L.D. New York : Marcel Dekker. Journal of plant nutrition. 1983. v. 6 (9). p. 735-742. Includes references. (NAL Call No.: QK867.J67).

0284

Interactions between a vesicular-arbuscular mycorrhizal fungus (*Glomus macrocarpus*) and root-knot nematode (*Meloidogyne incognita*) on soybean.

Kellam, M.K. Schenck, N.C. St. Paul, Minn., American Phytopathological Society. Phytopathology. Apr 1980. v. 70 (4). p. 293-296. 111. 21 ref. (NAL Call No.: 464.8 P56).

0285

Internally seedborne fungi of soybean in Puerto Rico and their effect on seed germination and field emergence.

Ellis, M.A. Paschal, E.H. Guildford. Tropical agriculture. Apr 1979. v. 56 (2). p. 171-174. 111. 8 ref. (NAL Call No.: 26 T754).

0286

Introduction of effective N₂-fixing rhizobial strains into the soybean plant by use of fungicide resistance (Fungicide-resistant mutants of *Rhizobium japonicum*, nodulation, nitrogen fixation).

Jones, R. Giddens, J. Madison, Wis. : American Society of Agronomy. Agronomy journal. July/Aug 1984. v. 76 (4). p. 599-602. 111. Includes

references. (NAL Call No.: 4 AM34P).

0287

Leaf conductance and leaf-water potential relationships for two soybean cultivars grown under controlled irrigation.

Carlson, R.E. Momen, N.N. Madison. Agronomy journal American Society of Agronomy. Mar/Apr 1979. v. 71 (2). p. 321-325. 111. 27 ref. (NAL Call No.: 4 AM34P).

0288

Manganese concentration in soybean leaves as affected by cultivars and soil properties (Includes toxicity).

Jones, W.F. Nelson, L.E. New York, Dekker. Communications in soil science and plant analysis. 1979. v. 10 (5). p. 821-830. 111. 10 ref. (NAL Call No.: S590.C63).

0289

Manganese toxicity and iron nutrition of soybeans / by Stanley Sam Portch.

Portch, Stanley Sam, 1937. 1971. Thesis (Ph.D.)--University of Arkansas, 1971. Photocopy. Ann Arbor, Mich. : University Microfilms, 1971. xvi, 200 leaves ; 21 cm. Bibliography: leaves 154-180. (NAL Call No.: DISS 71-19,554).

0290

Metabolism and selectivity of fluchloralin (Herbicides) in soybean roots.

Marquis, L.Y. Shimabukuro, R.H. Washington, D.C., American Chemical Society. Journal of agricultural and food chemistry. Nov/Dec 1979. v. 27 (6). p. 1148-1156. 111. 28 ref. (NAL Call No.: 381 J8223).

0291

Observations on the relationships between a vesicular-arbuscular fungus (*Glomus* sp.), a fungivorous nematode (*Aphelenchus avenae*), and the growth of soybeans.

Salawu, E.O. Estey, R.H. Saint-Hyacinthe, Quebec, Quebec Society for the Protection of Plants. Phytoprotection. June 1979. v. 60 (2). p. 99-102. 111. 9 ref. (NAL Call No.: 464.8 P566).

(PLANT NUTRITION)

0292

Photosynthetic response of field-grown soybeans to fumigations with sulphur dioxide.
Muller, R.N. Miller, J.E. Oxford, Blackwell Scientific Publications. The Journal of applied ecology. Aug 1979. v. 16 (2). p. 567-576. ill. Bibliography p. 575-576. (NAL Call No.: 410 J828).

0293

Physiological responses of soybean (Glycine max) plants to metribuzin (Photosynthesis inhibitors, sublethal effects, nitrogen metabolism).
Fedtke, C. Champaign, Ill., Weed Science Society of America. Weed science. Mar 1979. v. 27 (2). p. 192-195. ill. 29 ref. (NAL Call No.: 79.8 W41).

0294

Plant genotype differences to ferrous and total iron in emerging leaves. II. Dry beans and soybeans (Uptake and deficiency).
Pierson, E.E. Clark, R.B.; Coyne, D.P.; Maranville, J.W. New York, N.Y. : Marcel Dekker. Journal of plant nutrition. 1984. Presented at the "Second International Symposium on Iron Nutrition and Interactions in Plants," August 2-5, 1983, Utah State University, Logan. v. 7 (1/5). p. 355-369. ill. Includes references. (NAL Call No.: QK867.J67).

0295

Potash and foliar fungicides team-up to increase yields (Tennessee soybean research).
Atlanta : Potash & Phosphate Institute. Better crops with plant food. Spring 1983. v. 67. p. 22-23. ill. (NAL Call No.: 6 B46).

0296

Potassium fertilization effects on Phomopsis seed infection, seed quality, and yield of soybeans (Glycine max).
Jeffers, D.L. Schmitthenner, A.F.; Kroetz, M.E. Madison, Wis., American Society of Agronomy. Agronomy journal. Sept/Oct 1982. v. 74 (5). p. 886-890. 12 ref. (NAL Call No.: 4 AM34P).

0297

The quality of soybean seed as affected by benomyl (foliar fungicide) treatment.
Johnson, R.R. Keith, G.M. Urbana, Agricultural Experiment Station. Illinois research. Winter 1979. v. 21 (1). p. 8-9. ill. (NAL Call No.: 100 IL64).

0298

The relationship of soil solution chemistry to iron chlorosis and yield of soybeans on high lime soils (Variety comparisons, Minnesota).
Bloom, P.R. MXMRA. Inskeep, W.P. St. Paul : The Station. Miscellaneous publication - University of Minnesota, Agricultural Experiment Station. 1983. 1983. (2 rev.). p. 213-215. (NAL Call No.: S1.M52).

0299

Respiratory changes with chilling injury of soybeans.
Leopold, A.C. Musgrave, M.E. Bethesda, Md., American Society of Plant Physiologists. Plant physiology. Nov 1979. v. 64 (5). p. 702-705. ill. 13 ref. (NAL Call No.: 450 P692).

0300

Response of soybeans to high temperature during germination (Includes cultivars, seed quality).
Emerson, B.N. Minor, H.C. Madison, Wis., Crop Science Society of America. Crop science. July/Aug 1979. v. 19 (4). p. 553-556. ill. 15 ref. (NAL Call No.: 64.8 C883).

0301

Response of soybeans to simulated acid rain in the field (Rhizobium nodulation).
Heagle, A.S. JEVQA. Philbeck, R.B.; Brewer, P.F.; Ferrell, R.E. Madison : American Society of Agronomy. Journal of environmental quality. Oct/Dec 1983. v. 12 (4). p. 538-543. ill. Includes references. (NAL Call No.: QH540.J6).

0302

Role of roots and shoots of soybean (cultivars) in tolerance to excess soil zinc (Phytotoxicity).
White, M.C. Chaney, R.L. Madison, Crop Science Society of America. Crop science. Jan/Feb 1979. v. 19 (1). p. 126-128. ill. 18 ref. (NAL Call No.: 64.8 C883).

0303

The seed-borne nature of some soybean pathogens, the effect of Phomopsis spp. and Bacillus subtilis on germination, and their occurrence in soybeans produced in Illinois.
Sinclair, J.B. Zurich, International Seed Testing Association. Seed science and technology. 1978. v. 6 (4). p. 957-964. ill. 24 ref. (NAL Call No.: SB117.S455).

0304

Soybean cyst nematode (*Heterodera glycines*) and *Rhizobium* (nitrogen) strain influences on soybean nodulation and N₂-fixation.

McGinnity, P.J. Kapusta, G. Myers, D. Jr.
Madison, Wis., American Society of Agronomy.
Agronomy journal. Sept/Oct 1980. v. 72 (5). p.
785-789. 23 ref. (NAL Call No.: 4 AM34P).

0305

**Soybean (*Glycine max*) cultivar response
(Herbicides).**

Eastin, E.F. Champaign, Ill., Weed Science
Society of America. Weed science. Jan 1979. v.
27 (1). p. 4-6. ill. 20 ref. (NAL Call No.:
79.8 W41).

0306

**Specific effects of soybean mosaic virus on
total N (nitrogen), ureide-N, and symbiotic
N₂-fixation activity in *Glycine max* and *Glycine*
soja (Soybeans and wild annual soybeans).**

Orellana, R.G. PHYTA. Reynolds, S.L.; Van
Berkum, P. St. Paul : American
Phytopathological Society. Phytopathology. Aug
1983. v. 73 (8). p. 1156-1160. ill. Includes
references. (NAL Call No.: 464.8 P56).

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0307

Activity of trypsin and chymotrypsin inhibitors of soybean forms with different resistance to soybean borer (Soybean varieties).

Sichkar, V.I. Levitsky, A.P.; Grikun, O.A.; Lobko, V.N.; Marj'ushkin, V.F. Ames : The Service. Soybean genetics newsletter - United States, Agricultural Research Service. Apr 1983. v. 10. p. 123-125. Includes references. (NAL Call No.: aSB205.S756).

0308

Allelopathic mechanisms of velvetleaf (*Abutilon theophrasti* Medic., Malvaceae) on soybean (Weed, plant production interference).

Colton, G.E. Einhellig, F.A. Columbus, Ohio, Botanical Society of America. American journal of botany. Nov/Dec 1980. v. 67 (10). p. 1407-1413. 37 ref. (NAL Call No.: 450 AM36).

0309

ASA-610 ability to detect changes in soybean seed quality (Vigor, seed deterioration).

McDonald, M.B. Jr. Wilson, D.O. East Lansing, Association of Official Seed Analysts. Journal of seed technology. 1980. v. 5 (1). p. 56-66. 17 ref. (NAL Call No.: SB113.2.U6).

0310

Association of volatile aldehyde production during germination with poor soybean and pea seed quality (Soilborne fungi and bacteria, vigor and viability).

Harman, G.E. Nedrow, B.L.; Clark, B.E.; Mattick, L.R. Madison, Wis., Crop Science Society of America. Crop science. July/Aug 1982. v. 22 (4). p. 712-716. ill. 19 ref. (NAL Call No.: 64.8 C883).

0311

Characterization of solute efflux from dehydration injured soybean (*Glycine max* L. Merr) seeds.

Senaratna, T.PLPHA. McKersie, B.D. Rockville : American Society of Plant Physiologists. Plant physiology. Aug 1983. v. 72 (4). p. 911-914. Includes references. (NAL Call No.: 450 P692).

0312

Comparative metabolism of (the herbicide) 2,4-dichlorophenoxyacetic acid in cotyledon and leaf callus from two varieties of soybean.

Davidonis, G.H. Hamilton, R.H.; Mumma, R.O. Bethesda, Md., American Society of Plant Physiologists. Plant physiology. Jan 1980. v. 65 (1). p. 94-97. ill. 8 ref. (NAL Call No.: 450 P692).

0313

Dehydration injury in germinating soybean (*Glycine max* L. Merr.) seeds.

Senaratna, T.PLPHA. McKersie, B.D. Rockville : American Society of Plant Physiologists. Plant physiology. July 1983. v. 72 (3). p. 620-624. Includes references. (NAL Call No.: 450 P692).

0314

Effect of date of harvest maturity on soybean seed quality and *Phomopsis* sp. seed infection (*Glycine max*, germination vigor).

TeKrony, D.M. Egli, D.B.; Bales, J.; Tomes, L.; Stuckey, R.E. Madison : Crop Science Society of America. Crop science. Jan/Feb 1984. v. 24 (1). p. 189-193. Includes references. (NAL Call No.: 64.8 C883).

0315

Effect of moisture stress on seed growth in soybeans (Kentucky).

Meckel, L. Efli, D.B.; Phillips, R.E.; Radcliffe, D.; Leggett, J.E. Madison, Wis. : American Society of Agronomy. Agronomy journal. July/Aug 1984. v. 76 (4). p. 647-650. ill. Includes references. (NAL Call No.: 4 AM34P).

0316

Effect of temperature and relative humidity on translocation of ¹⁴C-metribiflufen in johnsongrass (*Sorghum halepense*) and soybean (*Glycine max*) (Herbicide).

McWhorter, C.G. Champaign, Ill., Weed Science Society of America. Weed science. Jan 1981. v. 29 (1). p. 87-93. ill. 14 ref. (NAL Call No.: 79.8 W41).

0317

Effects of carbofuran and water stress on growth of soybean plants and twospotted spider mite (*Acari: Tetranychidae*) populations under greenhouse conditions (*Tetranychus urticae*).

Mellors, W.K. Allegro, A.; Nsu, A.N. College Park, Md. : Entomological Society of America. Environmental entomology. Apr 1984. v. 13 (2). p. 561-567. Includes references. (NAL Call No.: QL461.E532).

0318

Effects of simulated ozone and sulfur dioxide fumigations on soybeans in open-top field chambers (Air pollution).

Pratt, G.C. Pittsburgh, Pa. : Air Pollution Control Association. Proceedings ... APCA annual meeting. 1983. v. 1 (76th). p. 83-2.1/1-83-2.1/21. ill. Includes references. (NAL Call No.: TD881.A56).

0319

Estimating kinetic parameters when the amount of enzyme added to an assay is not a controlled variable: nitrogenase activity of intact legumes (Soybeans or cowpeas).

Davis, L.C. Bethesda, Md., American Society of Plant Physiologists. Plant physiology. July 1980. v. 66 (1). p. 126-129. ill. 12 ref. (NAL Call No.: 450 P692).

0320

Exudation of glyphosate from wheat (*Triticum aestivum*) plants and its effects on interplanted corn (*Zea mays*) and soybeans (*Glycine max*) (Growth regulator, herbicide uptake, no-tillage).

Rodrigues, J.U.V. Worsham, A.D.; Corbin, F.T. Champaign, Ill., Weed Science Society of America. Weed science. May 1982. v. 30 (3). p. 316-320. Includes 22 ref. (NAL Call No.: 79.8 W41).

0321

Factors in depression of the apical growth of plants treated with hormonal herbicides (*Glycine max*, soybeans, green beans).

Petelina, G.G. Mikityuk, D.D.; Makeev, A.M.; Makoveichuk, A.Yu.; Chkanikov, D.I. New York, N.Y., Consultants Bureau. Soviet plant physiology. Mar/Apr 1982. Translated from: *Fiziologiya rastenii*, p. 282-285. (450 F58). v. 29 (2,pt.1). p. 214-217. 6 ref. (NAL Call No.: 450 F58AE).

0322

The factors of three herbicides on the growth factors and N₂ (nitrogen)-fixation of two soybean cultivars (Stimulatory and inhibitory effects, Louisiana).

Chin, K.L. Abayneh, T.; Lee, W.U. Baton Rouge, La.: The University. Research bulletin - Southern University. Sept 1, 1983. v. 5 (1). p. 26-37. ill. Includes references. (NAL Call No.: S539.5.R42).

0323

Fate of MBR-18337 in soybean (*Glycine max*) and Johnsongrass (*Sorghum halepense*) plants and cell cultures (Herbicide, plant growth regulators).

Swisher, B.A. WEESA. Corbin, F.T. Champaign: Weed Science Society of America. Weed science. Mar 1983. v. 31 (2). p. 242-246. ill. Includes references. (NAL Call No.: 79.8 W41).

0324

Foliar fatty acids and sterols of soybean field fumigated with SO₂ (sulfur dioxide).

Grunwald, C. Rockville, Md., American Society of Plant Physiologists. Plant physiology. Oct 1981. v. 68 (4). p. 868-871. 21 ref. (NAL Call No.: 450 P692).

0325

Four genes controlling root fluorescence in soybean (*Glycine max*).

Delannay, X. Palmer, R.G. Madison, Wis., Crop Science Society of America. Crop science. Mar/Apr 1982. v. 22 (2). p. 278-281. Includes ref. (NAL Call No.: 64.8 C883).

0326

Fungal effects on *Rhizobium japonicum*-soybean symbiosis (Antagonism Mycotoxins).

Angle, J.S. Pugashetti, B.K.; Wagner, G.H. Madison, Wis., American Society of Agronomy. Agronomy journal. Mar/Apr 1981. v. 73 (2). p. 301-306. ill. 16 ref. (NAL Call No.: 4 AM34P).

0327

Genetic control of chloroplast pigment development in soybeans as a function of leaf and plant maturity.

Eskins, K. Harris, L.; Bernard, R.L. Rockville, Md., American Society of Plant Physiologists. Plant physiology. Apr 1981. v. 67 (4). p. 759-762. ill. 17 ref. (NAL Call No.: 450 P692).

0328

Glyceollin: a site-specific inhibitor of electron transport in isolated soybean mitochondria (*Glycine max*, *Zea mays*, maize, autophytotoxicity).

Boydston, R. PLPHA. Paxton, J.D.; Koeppe, D.E. Rockville: American Society of Plant Physiologists. Plant physiology. May 1983. v. 72 (1). p. 151-155. Includes references. (NAL Call No.: 450 P692).

0329

Host-pathogen interactions. XVII. Hydrolysis of biologically active fungal glucans by enzymes isolated from soybean cells (*Phytophthora megasperma*, phytoalexins).

Cline, K. Albersheim, P. Rockville, Md., American Society of Plant Physiologists. Plant physiology. July 1981. v. 68 (1). p. 221-228. ill. 19 ref. (NAL Call No.: 450 P692).

0330

Host-pathogen interactions. XVIII. Isolation and biological activity of glycinol, a pterocarpan phytoalexin synthesized by soybeans.

Weinstein, L.I. Hahn, M.G.; Albersheim, P. Rockville, Md., American Society of Plant Physiologists. Plant physiology. Aug 1981. v. 68 (2). p. 358-363. ill. 24 ref. (NAL Call No.: 450 P692).

0331

Increase in germination and vigor level of soybean seeds by benomyl field treatments.

Tao, K.L.J. AMS. Schoen, J.F.; Payne, R.C. n.p., The Association. The News letter of the Association of Official Seed Analysts. May 1980. v. 54 (2). p. 44-49. 15 ref. (NAL Call No.: 61.9 AS7N).

0332

Influence of the herbicides hexazinone and chlorsulfuron on the metabolism of isolated soybean leaf cells (Photosynthetic inhibitor).

Hatzios, K.K. Howe, C.M. New York, Academic Press. Pesticide biochemistry and physiology. June 1982. v. 17 (3). p. 207-214. 21 ref. (NAL Call No.: SB951.P49).

0333

Influence of water stress on the diurnal exchange of mass and energy between the atmosphere and a soybean canopy (Glycine max, Nebraska).

Baldocchi, D.D. AGJDA. Verma, S.B.; Rosenberg, N.J.; Blad, B.L.; Garay, A. Madison : American Society of Agronomy. Agronomy journal. May/June 1983. v. 75 (3). p. 543-548. ill. Includes references. (NAL Call No.: 4 AM34P).

0334

Interaction of mineral and cytokinin supply in control of leaf senescence and seed growth in soybean explants (Glycine max).

Neumann, P.M. JPNUDS. Nooden, L.D. New York : Marcel Dekker. Journal of plant nutrition. 1983. v. 6 (9). p. 735-742. Includes references. (NAL Call No.: QK867.J67).

0335

Interactions of plant-parasitic nematodes and ozone and sulfur dioxide with soybean and begonia / by David Edwin Weber.

Weber, David Edwin, 1941. Ann Arbor, Mich. University Microfilms International 1980. Thesis--North Carolina State University, 1976. Facsimile produced by microfilm-xerography. v. 111 leaves. Includes bibliographies. (NAL Call

No.: DISS 77-11,147).

0336

Lipoxygenase, trypsin inhibitor, and lectin from soybeans: effects on larval growth of *Manduca sexta* (Lepidoptera: Sphingidae).

Shukle, R.H. EVETB. Murdock, L.L. College Park : Entomological Society of America. Environmental entomology. June 1983. v. 12 (3). p. 787-791. Includes references. (NAL Call No.: QL461.E532).

0337

Metabolism of AC 206,784 herbicide (2-chloro-N-(2,3-dimethylphenyl)-N-(1-methylethyl)acetamide) in soybean plants (Glycine max).

Hussain, M. JAFCA. Kapoor, I.P.; Ku, C.C.; Stout, S. Washington : American Chemical Society. Journal of agricultural and food chemistry. Mar/Apr 1983. v. 31 (2). p. 232-236. Includes references. (NAL Call No.: 381 J8223).

0338

Metabolism of the herbicide Hoe 33171 in soybeans.

Wink, D. Dorn, E.; Beyermann, K. Washington, D.C. : American Chemical Society. Journal of agricultural and food chemistry. Mar/Apr 1984. v. 32 (2). p. 187-192. ill. Includes references. (NAL Call No.: 381 J8223).

0339

Methanol stress as a test of seed vigor (Peas, soybeans, cultivars, germination).

Musgrave, M.E. Priestley, D.A.; Leopold, A.C. Madison, Wis., Crop Science Society of America. Crop science. Sept/Oct 1980. v. 20 (5). p. 626-630. ill. 20 ref. (NAL Call No.: 64.8 C883).

0340

Moisture stress and N (nitrogen) redistribution in soybeans (Glycine max).

Egli, D.B. AGJDA. Meckel, L.; Phillips, R.E.; Radcliffe, D.; Leggett, J.E. Madison : American Society of Agronomy. Agronomy journal. Nov/Dec 1983. v. 75 (6). p. 1027-1031. Includes references. (NAL Call No.: 4 AM34P).

0341

Morphological and physiological parameters of soybean resistance to agromyzid beanflies.

Chiang, H.S. EVETB. Norris, D.M. College Park : Entomological Society of America. Environmental entomology. Feb 1983. v. 12 (1). p. 260-265. Includes references. (NAL Call No.:

QL461.E532).

0342

Mycorrhizal enhancement of water transport in soybean, Part I. : Mechanisms of mycorrhizal enhancement of water transport in soybean, Part II. / by Gene Robert Safir.

Safir, Gene Robert, 1944. 1970. Thesis (Ph.D.)--University of Illinois, 1970. Photocopy. Ann Arbor, Mich. : University Microfilms, 1971. iv, 33 leaves ; 21 cm. Bibliography: leaves 31-32. (NAL Call No.: DISS 71-14,935).

0343

Photosynthetic capacity i potassium stressed soybean: comparison of CO₂ (carbon dioxide) fixation and O₂ (oxygen) evolution assays.

Wells, R. Liebhards, W.C.; Svec, L.V.; Frick, H. New York, Marcel Dekker. Journal of plant nutrition. 1979. v. 1 (3). p. 283-293. ill. 20 ref. (NAL Call No.: QK867.U67).

0344

Predicting the storability of soybean seed lots (Germination, accelerated aging, regression analysis).

Baskin, C.C. East Lansing, Mich., Association of Official Seed Analysts. Journal of seed technology. 1980. v. 5 (2). p. 1-6. 6 ref. (NAL Call No.: SB113.2.U6).

0345

Preharvest effects of applying glyphosate to soybeans (Glycine max) (Weed control).

Azlin, W.R. McWhorter, C.G. Champaign, Ill., Weed Science Society of America. Weed science. Jan 1981. v. 29 (1). p. 123-127. ill. 10 ref. (NAL Call No.: 79.8 W41).

0346

Responses of selected plant species to elevated carbon dioxide in the field (Zea mays, Glycine max, Pinus taeda, Liquidambar styraciflua).

Rogers, H.H.JEVQA. Bingham, G.E.; Cure, J.D.; Smith, J.M.; Surano, K.A. Madison : American Society of Agronomy. Journal of environmental quality. Oct/Dec 1983. v. 12 (4). p. 569-574. Includes references. (NAL Call No.: QH540.U6).

0347

Selectivity mechanisms for foliar applications of diclofop-methyl. II. Metabolism (Studies with weeds, proso millet, soybeans and cucumber, uptake, tolerance).

Boldt, P.F. Putnam, A.R. Champaign, Ill., Weed Science Society of America. Weed science. Mar 1981. v. 29 (2). p. 237-241. ill. 15 ref. (NAL Call No.: 79.8 W41).

0348

Stability of soybean harvest index (within cultivars, Drought stress effects, interplant competition, Florida, New York).

Spaeth, S.C. Randall, H.C.; Sinclair, T.R.; Vendeland, J.S. Madison, Wis. : American Society of Agronomy. Agronomy journal. May/June 1984. v. 76 (3). p. 482-486. ill. Includes references. (NAL Call No.: 4 AM34P).

0349

Studies on the role of wall extensibility in the control of cell expansion (Soybeans, peas, maize, cucumbers).

Coartney, J.S. Morre, D.J. Chicago, University of Chicago Press. Botanical gazette. Mar 1980. v. 141 (1). p. 56-62. ill. 20 ref. (NAL Call No.: 450 B652).

0350

Temperature effects on soybean imbibition and leakage (Chilling injuries).

Leopold, A.C. Bethesda, Md., American Society of Plant Physiologists. Plant physiology. June 1980. v. 65 (6). p. 1096-1098. ill. 16 ref. (NAL Call No.: 450 P692).

0351

2,4-D (2,4-dichlorophenoxy acetic acid) metabolism in soybean cell suspensions.

Davis, D.G. Lamoureux, G.L. Grand Forks, N.D., The Academy. Proceedings of the North Dakota Academy of Science. Apr 1981. v. 35. p. 36. (NAL Call No.: 500 N813).

PLANT TAXONOMY AND GEOGRAPHY

0352

New species of *Chalara* and *Scytalidium* isolated from cysts of *Heterodera glycines* (*Chalara hylalina*, *Scytalidium fulvum*, Fungi, description, soybean cyst nematode parasites). Morgan-Jones, G. Gintis, B.O.; Rodriguez-Kabana, R. Bronx, N.Y. : The New York Botanical Garden. Mycologia. Mar/Apr 1984. v. 76 (2). p. 211-217. ill. Includes references. (NAL Call No.: 450 M99).

0353

Response of soybeans to flood irrigation (a preliminary report) (Water stress, yield effects, Louisiana). Griffin, J.L. Habetz, R.U.; Regan, R.P. Crowley : The Station. Annual progress report - Louisiana, Rice Experiment Station. 1982. 1982. (74th). p. 350-358. ill. Includes references. (NAL Call No.: 100 L93 (3)).

PROTECTION OF PLANTS

0354

Alachlor and trifluralin (herbicides) effects on nutrient uptake in oats and soybeans (Inhibition of root and shoot growth).
Bucholtz, D.L. Lavy, T.L. Madison. Agronomy journal American Society of Agronomy. Jan/Feb 1979. v. 71 (1). p. 24-26. ill. 18 ref. (NAL Call No.: 4 AM34P).

0355

Centennial, a new soybean variety with nematode resistance (Yields).
Dunphy, E.J. Brim, C.A. Raleigh, N.C., The Service. AG. North Carolina State University. Agricultural Extension Service. July 1979. July 1979. (174). 4 p. ill. (NAL Call No.: S544.3.N6N62).

0356

Characterization of deer damage to soybean plants.
DeCalesta, D.S. Schwendeman, D.B. Washington. Bulletin Wildlife Society. Winter 1978. v. 6 (4). p. 250-253. ill. 13 ref. (NAL Call No.: SK357.A1W5).

0357

Comparative phytotoxicity of several nitrification inhibitors to soybean plants.
Maftoun, M. Sheibany, B. Washington, D.C., American Chemical Society. Journal of agricultural and food chemistry. Nov/Dec 1979. v. 27 (6). p. 1365-1368. ill. 30 ref. (NAL Call No.: 381 J8223).

0358

Compatibility and phytotoxicity of herbicide-fertilizer combinations (Tested on oats and soybeans, phytotoxicity).
Martens, A.R. Burnside, O.C. Madison. Agronomy journal American Society of Agronomy. Nov/Dec 1978. v. 70 (6). p. 1089-1098. ill. 9 ref. (NAL Call No.: 4 AM34P).

0359

Continuous beans don't have to mean continuous problems (Control of insects and diseases in soybeans).
Shumate, J. St. Louis, Mo., American Soybean Association. Soybean digest. May/June 1979. v. 39 (7). p. 16-b. ill. (NAL Call No.: 60.38 S09).

0360

Critical manganese deficiency level of soybean related to leaf position (Physiological age).
Ohki, K. Boswell, F.C. Madison. Agronomy journal American Society of Agronomy. Mar/Apr 1979. v. 71 (2). p. 233-234. ill. 13 ref. (NAL Call No.: 4 AM34P).

0361

A delayed albino mutant in soybean.
Singh, B.B. Jha, A.N. New Delhi, Indian Society of Genetics & Plant Breeding. Indian journal of genetics & plant breeding. July 1978. v. 38 (2). p. 228-230. ill. 1 ref. (NAL Call No.: 64.8 IN2).

0362

Developments in crop protection of Glycine (soybeans, includes breeding for disease and pest resistance).
Yang, C.Y. Reprints - United States Dept. of Agriculture. 113 ref. (NAL Call No.: aS21.A8U5/USDA).

0363

Dicamba volatility (Herbicide drift injury to soybeans, maize and Abutilon theophrasti).
Behrens, R. Lueschen, W.E. Champaign, Ill., Weed Science Society of America. Weed science. Sept 1979. v. 27 (5). p. 486-493. ill. 12 ref. (NAL Call No.: 79.8 W41).

0364

Differential cultivar tolerance in soybean to phytotoxic levels of soil Zn. (zinc). I. Range of cultivar response.
White, M.C. Decker, A.M. Madison. Agronomy journal American Society of Agronomy. Jan/Feb 1979. v. 71 (1). p. 121-126. ill. 31 ref. (NAL Call No.: 4 AM34P).

0365

Differential cultivar tolerance in soybean to phytotoxic levels of soil Zn. II. Range of Zn additions and the uptake and translocation of Zn, Mn, Fe, and P (Zinc, manganese, iron, and phosphorus).
White, M.C. Chaney, R.L. Madison. Agronomy journal American Society of Agronomy. Jan/Feb 1979. v. 71 (1). p. 126-131. ill. 25 ref. (NAL Call No.: 4 AM34P).

(PROTECTION OF PLANTS)

0366

Differential responses of plant foliage (*Tradescantia* sp., *Pteridium aquilinum*, *Quercus palustris*, and soybeans) to simulated acid rain (Air pollutants, adverse effects).
Evans, L.S. Curry, T.M. Columbus, Ohio, Botanical Society of America. American journal of botany. Sept 1979. v. 66 (8). p. 953-962. ill. 21 ref. (NAL Call No.: 450 AM36).

0367

Differentiation of soybean cultivars by metribuzin sensitivity.
Payne, R.C. Koszykowski, T.J. East Lansing, Association of Official Seed Analysts. Journal of seed technology. 1977. v. 2 (1). p. 1-10. ill. 18 ref. (NAL Call No.: SB113.2.J6).

0368

Disease control vital for crops (Maize, soybeans, nematodes, stem canker).
Garrett, W. Atlanta, Ga. : Department of Agriculture. Farmers & consumers market bulletin. Apr 25, 1984. v. 70 (17). p. 1, 16. (NAL Call No.: 280.39 G292).

0369

Disease outlook: wet weather spells trouble (*Heterodera glycines*, soybeans, fungus diseases).
Walsten, M. St. Louis, American Soybean Association. Soybean digest. Feb 1979. v. 39 (4). p. 42S-43S. ill. (NAL Call No.: 60.38 S09).

0370

Dissipation of ¹⁴C (carbon isotope) N-nitroso-di-N-propylamine (herbicide) from field soil and residue determinations in field-grown soybeans.
Berard, D.F. Rainey, D.P. New York, Springer. Bulletin of environmental contamination and toxicology. Sept 1979. v. 23 (1/2). p. 141-144. ill. 4 ref. (NAL Call No.: RA1270.P35A1).

0371

The distribution of the soybean cyst nematode, *Heterodera glycines* in Louisiana.
Price, M. Yik, C.P. St. Paul, American Phytopathological Society. Phytopathology. May 1979. v. 69 (5). p. 531. (NAL Call No.: 464.8 P56).

0372

Early modifications of the internodal anatomy of *Glycine max* (soybeans) sprayed with 2,4-DB (herbicide injury, resistance).
Pizzolato, T.D. Regehr, D.L. Ottawa, National Research Council of Canada. Canadian journal of botany. June 15, 1979. v. 57 (12). p. 1340-1344. ill. 16 ref. (NAL Call No.: 470 C16C).

0373

An economic analysis of controlling soybean cyst nematodes (*Heterodera glycines*) on soybeans.
Welch, E.R. May, R.D. Dallas. The Cotton gin and oil mill press. Feb 11, 1978. v. 79 (3). p. 12. ill. (NAL Call No.: 304.8 C822).

0374

Effect of carbon dioxide concentration on growth and dry matter production of crop plants. VI. Effect of oxygen concentration on the carbon dioxide-dry matter production relationship in some C3- and C4 (carbon pathway)-crop species (Rice, soybeans, Japanese millet and maize).
Imai, K. Murata, Y. Tokyo, Nihon Sakumotsu Gakkai. Nihon Sakumotsu Gakkai kiji. Japanese journal of crop science Nihon Gakkai Sakumotsu. Mar 1979. v. 48 (1). p. 58-65. ill. 24 ref. (NAL Call No.: 22.5 C88).

0375

The effect of diflufenuron and fentin hydroxide on soybean seed quality (Cultivars, pesticides injury).
Hatzios, K.K. Penner, D. East Lansing, Association of Official Seed Analysts. Journal of seed technology. 1977. v. 2 (1). p. 73-80. ill. 16 ref. (NAL Call No.: SB113.2.J6).

0376

The effect of surfactant and environment on the toxicity of metriflufen to soybeans (*Glycine max*) and johnsongrass (*Sorghum halepense*).
McWhorter, C.G. Champaign, Ill., Weed Science Society of America. Weed science. Nov 1979. v. 27 (6). p. 675-679. ill. 11 ref. (NAL Call No.: 79.8 W41).

0377

Effects of air pollutants (carbon monoxide, nitrogen dioxide and sulphur dioxide) on seed germinability (cocklebur (*Xanthium pennsylvanicum*), pigweed (*Amaranthus retroflexus*), wild mustard (*Brassica kaber*), giant ragweed (*Ambrosia trifida*) and soybean (*Glycine max*)).

Chakrabarti, A.G. New York. Bulletin of environmental contamination and toxicology. Apr 1979. v. 21 (6). p. 749-755. ill. 8 ref. (NAL Call No.: RA1270.P35A1).

0378

Effects of environment on the toxicity of glyphosate to johnsongrass (*Sorghum halepense*) and soybeans (*Glycine max*).

McWhorter, C.G. Azlin, W.R. Champaign, Ill.. Weed Science Society of America. Weed science. Nov 1978. v. 26 (6). p. 605-608. ill. 26 ref. (NAL Call No.: 79.8 W41).

0379

Effects of sulfuric acid mist on plant canopies (Corn and soybeans, injuries).

Wedding, J.B. Ligothe, M. Washington, American Chemical Society. Environmental science & technology. July 1979. v. 13 (7). p. 875-878. ill. 11 ref. (NAL Call No.: TD420.A1E5).

0380

The effects of temperature on *Pratylenchus scribneri* and *Pratylenchus alleni* (nematodes) populations on soybeans and tomatoes.

Dickerson, O.J. Ames, Iowa Society of Nematologists. Journal of nematology. Jan 1979. v. 11 (1). p. 23-26. ill. 14 ref. (NAL Call No.: QL391.N4J62).

0381

Effects of (the root-knot nematode) *Meloidogyne incognita* on nitrogen fixation in soybean.

Baldwin, J.G. Barker, K.R. Ames, Iowa, Society of Nematologists. Journal of nematology. Apr 1979. v. 11 (2). p. 156-161. ill. 18 ref. (NAL Call No.: QL391.N4J62).

0382

The farm pesticide industry.

Eichers, T.R. Washington, D.C., The Department. Extract: The primary objective of this study is to analyze the nature of the pesticide industry by smaller component markets (submarkets) and evaluate its structure, conduct, and performance. The study also examines some of the implications of pesticide regulations on the pesticide industry and on farm pesticide use. Agricultural economic report - United States Dept. of Agriculture. Sept 1980. Sept 1980. (461). 24 p. 39 ref. (NAL Call No.: A281.9 AG8A).

0383

Field assessment of air pollution-induced soybean yield losses (Ozone, photochemical oxidants).

Howell, R.K. Koch, E.J. Madison. Agronomy journal American Society of Agronomy. Mar/Apr 1979. v. 71 (2). p. 285-288. ill. 21 ref. (NAL Call No.: 4 AM34P).

0384

A field estimate of SO₂ (sulfur dioxide) deposition velocities to rapidly growing soybeans (Pollutant transport).

Sprugel, D.G. Miller, J.E. Dordrecht, Holland, D. Reidel Pub. Co. Water, air, and soil pollution. Aug 1979. v. 12 (2). p. 233-236. ill. 12 ref. (NAL Call No.: TD172.W36).

0385

Fighting soybean worms: high gallonages not needed for good control.

Cromwell, R.P. Johnson, F.A. San Francisco, California Farmer Publishing Company. Agrichemical age. Nov/Dec 1979. v. 23 (9). p. 22. ill. (NAL Call No.: 381 AG85).

0386

Five planter meters tested for damage to soybean seed.

Paulsen, M.R. Nave, W.R. Urbana, Agricultural Experiment Station. Illinois research. Spring 1979. v. 21 (2). p. 10-11. ill. (NAL Call No.: 100 IL64).

0387

A general view of plant protection in the People's Republic of China with special reference to soybean pests and diseases.

Shen, C.V. Minneapolis, Minn. : Published for the Congress by Burgess Pub., c1981. Proceedings of symposia : IX International Congress of Plant Protection, Washington, D.C., U.S.A., August 5-11, 1979 / editor, Thor Kommedahl. p. 524-525. (NAL Call No.: SB951.I5 1979).

0388

Genetic variability for resistance to propanil (herbicide) injury in soybeans.

Karazawa, M. Caviness, C.E. Madison, Wis., Crop Science Society of America. Crop science. Sept/Oct 1979. v. 19 (5). p. 739-740. ill. 14 ref. (NAL Call No.: 64.8 C883).

(PROTECTION OF PLANTS)

0389

Genotypic evaluation for iron deficiency chlorosis in soybeans by visual scores and chlorophyll concentration.

Rodriguez de Ciano, S. Fehr, W.R. Madison, Wis., Crop Science Society of America. Crop science. Sept/Oct 1979. v. 19 (5). p. 644-646. ill. 12 ref. (NAL Call No.: 64.8 C883).

0390

Growth and specific nodule activity of soybean (inoculated with *Rhizobium japonicum*) during application and recovery of a leaf moisture stress.

Patterson, R.P. Raper, C.D. Jr. Bethesda, Md., American Society of Plant Physiologists. Plant physiology. Oct 1979. v. 64 (4). p. 551-556. ill. 16 ref. (NAL Call No.: 450 P692).

0391

Growth inhibition of cotton (*Gossypium hirsutum*) and soybean (*Glycine max*) roots and shoots by three dinitroaniline herbicides (Phytotoxicity).

Murray, D.S. Street, J.E. Champaign, Ill., Weed Science Society of America. Weed science. May 1979. v. 27 (3). p. 336-342. ill. 8 ref. (NAL Call No.: 79.8 W41).

0392

Histological study of the compatible and incompatible interaction of soybeans and *Meloidogyne incognita*.

Kaplan, D.T. Thomason, I.J. Ames, Iowa, Society of Nematologists. Journal of nematology. Oct 1979. v. 11 (4). p. 338-343. ill. 29 ref. (NAL Call No.: QL391.N4J62).

0393

Improving the field production environment for soybeans (Cultivation practices, application of fertilizers, crop protection from weeds, insects and diseases).

Lam-Sanchez, A. Champaign, Ill., The Society. Journal of the American Oil Chemists' Society. Mar 1981. v. 58 (3). p. 128-130. Includes 15 ref. (NAL Call No.: 307.8 J82).

0394

Influence of rate and source of potassium on soybean cyst nematode (*Heterodera glycines*) reproduction on soybean seedlings.

Luedders, V.D. Shannon, J.G. Beltsville, Md., Science and Education Administration, U.S. Dept. of Agriculture. Plant disease reporter. July 1979. v. 63 (7). p. 558-560. ill. 9 ref. (NAL Call No.: 1.9 P69P).

0395

Influence of site of uptake of fluridone (herbicide) on early development of soybean (*Glycine max*) and cotton (*Gossypium hirsutum*) (Injuries).

Rafii, Z.E. Ashton, F.M. Champaign, Ill., Weed Science Society of America. Weed science. May 1979. v. 27 (3). p. 321-327. ill. 9 ref. (NAL Call No.: 79.8 W41).

0396

The influence of temperature on *Meloidogyne incognita* (nematodes) on soybean.

Nardacci, J.F. Barker, K.R. Ames, Iowa Society of Nematologists. Journal of nematology. Jan 1979. v. 11 (1). p. 62-70. ill. 27 ref. (NAL Call No.: QL391.N4J62).

0397

Influence of temperature on population development of eight species of *Pratylenchus* on soybean (Nematodes).

Acosta, N. Malek, R.B. Ames, Iowa, Society of Nematologists. Journal of nematology. July 1979. v. 11 (3). p. 229-232. ill. 11 ref. (NAL Call No.: QL391.N4J62).

0398

Interaction of selected insecticide-herbicide combinations on soybeans (*Glycine max*) (Injury, population stand, and grain yield).

Hayes, R.M. Yeargan, K.V. Champaign, Ill., Weed Science Society of America. Weed science. Jan 1979. v. 27 (1). p. 51-54. ill. 17 ref. (NAL Call No.: 79.8 W41).

0399

Interactions of *Meloidogyne incognita* and *Rotylenchulus reniformis* with selected soybean varieties (Nematodes).

Lim, B.K. Castillo, M.B. Laguna, Kalikasan. Kalikasan. 1978. v. 7 (2). p. 165-176. ill. 11 ref. (NAL Call No.: QH301.K3).

0400

Manganese concentration in soybean leaves as affected by cultivars and soil properties (Includes toxicity).

Jones, W.F. Nelson, L.E. New York, Dekker. Communications in soil science and plant analysis. 1979. v. 10 (5). p. 821-830. ill. 10 ref. (NAL Call No.: S590.C63).

0401

Monitoring soybeans for foliar diseases. Plots throughout Illinois help scientists learn about the incidence, severity, and location of diseases.

Pataky, J.K. Lim, S.M. Urbana, The Station. Illinois research. Illinois. Agricultural Experiment Station. Summer 1979. v. 21 (3). p. 3-4. map. (NAL Call No.: 100 IL64).

0402

More control--less pesticide (Soybean pest control).

Harper, J.D. Backman, P.A.; Rodriguez-Kabana, R.; Williams, J.C.; Walker, R.H. Auburn, The Station. Highlights of agricultural research - Alabama, Agricultural Experiment Station. Fall 1980. v. 27 (3). p. 9. ill. (NAL Call No.: 100 AL1H).

0403

Multiple defense evens the odds against nematodes (Heterodera glycines, pest of soybeans).

Marking, S. St. Louis, Mo., American Soybean Association. Soybean digest. May/June 1979. v. 39 (7). p. 22-23. ill. (NAL Call No.: 60.38 S09).

0404

New soybean disease discovered (Soybean cyst nematode, Heterodera glycines).

MacDonald, D.H. St. Paul, University of Minnesota Agricultural Experiment Station. Minnesota science. Fall 1978. v. 33 (4). p. 3-4. ill. (NAL Call No.: 100 M668).

0405

New varieties boost (soy) bean yields (Variety selection for regional climates).

Blair, J. St. Louis, Mo., American Soybean Association. Soybean digest. May/June 1981. v. 41 (7). p. 32b. (NAL Call No.: 60.38 S09).

0406

Observations on the relationships between a vesicular-arbuscular fungus (Glomus sp.), a fungivorous nematode (Aphelenchus avenae), and the growth of soybeans.

Salawu, E.O. Estey, R.H. Saint-Hyacinthe, Quebec, Quebec Society for the Protection of Plants. Phytoprotection. June 1979. v. 60 (2). p. 99-102. ill. 9 ref. (NAL Call No.: 464.8 P566).

0407

Occurrence and distribution of the soybean cyst nematode (Heterodera glycines) in Alabama.

Gray, F.A. Rodriguez-Kabana, R. Beltsville, Md., Science and Education Administration, U.S. Dept. of Agriculture. Plant disease reporter. Apr 1979. v. 63 (4). p. 267-270. ill., map. 9 ref. (NAL Call No.: 1.9 P69P).

0408

Ozone and sulfur dioxide effects on reproduction and host-parasite relationships of selected plant-parasitic nematodes (Air pollutants, Soybeans, Begonia).

Weber, D.E. Reinert, R.A. St. Paul, American Phytopathological Society. Phytopathology. June 1979. v. 69 (6). p. 624-628. ill. 24 ref. (NAL Call No.: 464.8 P56).

0409

Pest (insects, diseases, weeds) control in soybeans--1979.

Doersch, R.E. Doll, J.D. Madison, Wis., The Programs. Publication - Cooperative Extension Programs. University of Wisconsin - Extension. Wisconsin. University. Cooperative Extension Programs. Jan 1979. Jan 1979. (A2782). 23 p. ill. (NAL Call No.: S544.3.W6W53).

0410

Pesticide interactions in soybeans.

Schmitt, D.P. Corbin, F.T.; Bradley, J.R. Jr.; Van Duyn, J.W. San Francisco, California Farmer. Agrichemical age. Jan 1981. v. 25 (1). p. 54-55. ill. (NAL Call No.: 381 AG85).

0411

Photosynthetic response of field-grown soybeans to fumigations with sulphur dioxide.

Muller, R.N. Miller, J.E. Oxford, Blackwell Scientific Publications. The Journal of applied ecology. Aug 1979. v. 16 (2). p. 567-576. ill. Bibliography p. 575-576. (NAL Call No.: 410 J828).

0412

Physiological responses of soybean (Glycine max) plants to metribuzin (Photosynthesis inhibitors, sublethal effects, nitrogen metabolism).

Fedtko, C. Champaign, Ill., Weed Science Society of America. Weed science. Mar 1979. v. 27 (2). p. 192-195. ill. 29 ref. (NAL Call No.: 79.8 W41).

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0413

Picloram (herbicide) translocation and redistribution in soybean plants following root uptake.

Gaudiol, R. Born, W.H. vanden. New York, Academic Press. Pesticide biochemistry and physiology. July 1979. v. 11 (1/3). p. 129-134. ill. 17 ref. (NAL Call No.: SB951.P49).

0414

Polychlorinated biphenyls: phytotoxicity, absorption and translocation by plants, and inactivation by activated carbon (Effects on soybeans and fescue).

Weber, J.B. Mrozek, E. Jr. New York, Springer Verlag. Bulletin of environmental contamination and toxicology. Oct 1979. v. 23 (3). p. 412-417. ill. 15 ref. (NAL Call No.: RA1270.P35A1).

0415

Prevention of monocarpic senescence in soybeans with auxin and cytokinin: an antidote for self-destruction.

Nooden, L.D. Kahanak, G.M. Washington, D.C., American Association for the Advancement of Science. Science. Nov 16, 1979. v. 206 (4420). p. 841-843. ill. 21 ref. (NAL Call No.: 470 SCI2).

0416

Private eyes detect yield robbers (of soybeans, insect and diseases).

Marking, S. Abbott, S. St. Louis, Mo., American Soybean Association. Soybean digest. May/June 1979. v. 39 (7). p. 16-f-16-g. ill. (NAL Call No.: 60.38 S09).

0417

A rapid technique for screening soybeans for reniform nematode resistance (*Rotylenchulus reniformis*).

Williams, C. Gilman, D.F. Beltsville, Md., The Administration. Plant disease reporter. United States. Dept. of Agriculture. Science and Education Administration. Oct 1979. v. 63 (10). p. 827-829. ill. 9 ref. (NAL Call No.: 1.9 P69P).

0418

Relative tolerance of selected soybean cultivars to *Hoplolaimus columbus* (nematodes) and possible effects of soil temperature.

Nyczepir, A.P. Lewis, S.A. Ames, Iowa Society of Nematologists. Journal of nematology. Jan 1979. v. 11 (1). p. 27-31. ill. 11 ref. (NAL Call No.: QL391.N4J62).

0419

Residence time of sulphite in SO₂ (sulfur dioxide) 'sensitive' and 'tolerant' soybean cultivars (Injuries, toxicity caused by pollutants).

Miller, J.E. Xerikos, P.B. Essex, Applied Science. Environmental pollution. Apr 1979. v. 18 (4). p. 259-264. ill. 19 ref. (NAL Call No.: TD172.E52).

0420

Respiratory changes with chilling injury of soybeans.

Leopold, A.C. Musgrave, M.E. Bethesda, Md., American Society of Plant Physiologists. Plant physiology. Nov 1979. v. 64 (5). p. 702-705. ill. 13 ref. (NAL Call No.: 450 P692).

0421

Response of soybean plants to metribuzin and interaction with atrazine residues (Herbicides, Phytotoxicity).

Marriage, P.B. Hamill, A.S. New York, Marcel Dekker. Journal of environmental science and health. Part B: Pesticides, food contaminants, and agricultural wastes. 1978. v. B13 (3). p. 287-297. ill. 17 ref. (NAL Call No.: TD172.J61).

0422

Response of soybeans to high temperature during germination (Includes cultivars, seed quality).

Emerson, B.N. Minor, H.C. Madison, Wis., Crop Science Society of America. Crop science. July/Aug 1979. v. 19 (4). p. 553-556. ill. 15 ref. (NAL Call No.: 64.8 C883).

0423

Role of roots and shoots of soybean (cultivars) in tolerance to excess soil zinc (Phytotoxicity).

White, M.C. Chaney, R.L. Madison, Crop Science Society of America. Crop science. Jan/Feb 1979. v. 19 (1). p. 126-128. ill. 18 ref. (NAL Call No.: 64.8 C883).

0424

Selection for aluminum tolerance in soybeans based on seedling-root growth (Toxicity).

Hanson, W.D. Kamprath, E.J. Madison. Agronomy journal American Society of Agronomy. July/Aug 1979. v. 71 (4). p. 581-586. ill. 16 ref. (NAL Call No.: 4 AM34P).

0425

Southern states soybean disease loss estimate--1977.

Whitney, G. (ed.). Beltsville, Md., Plant Science Research Division, Agricultural Research Service, U.S. Dept. of Agriculture. Plant disease reporter. Dec 1978. v. 62 (12). p. 1078-1079. ill. (NAL Call No.: 1.9 P69P).

0426

Soybean cyst nematode (*Heterodera glycines*).

Nyvall, R. Norton, D.C. Ames. PmIowa State University of Science and Technology, Ames. Cooperative Extension Service. Apr 1979. Apr 1979. (879). 2 p. ill. (NAL Call No.: 275.29 I09PA).

0427

The soybean cyst nematode (*Heterodera glycines*): a growing problem for Midwest soybean producers.

Benz, C. Madison, Wis., American Society of Agronomy. Crops and soils magazine. Dec 1979. v. 32 (3). p. 17-19. ill. (NAL Call No.: 6 W55).

0428

The soybean cyst nematode (*Heterodera glycines*): a new threat to Alabama soybeans.

Gray, F.A. Rodriguez-Kabana, R. Auburn, Agricultural Experiment Station of Auburn University. Highlights of agricultural research. Spring 1979. v. 26 (1). p. 17. ill., map. (NAL Call No.: 100 AL1H).

0429

Soybean diseases.

Arnett, J.D. Jr. Athens. Leaflet Georgia. University. Cooperative Extension Service. Apr 1979. Apr 1979. (71). 10 p. ill. (NAL Call No.: 275.29 G29L).

0430

Soybean diseases.

Willis, W. Schwenk, F. Manhattan, Kan., The Service. C.Kansas State University. Cooperative Extension Service. May 1978. May 1978. (449). p. 16-17. ill. (NAL Call No.: 275.29 K13EX).

0431

Soybean diseases and their control.

McDaniel, M.C. Walters, H.U. Little Rock, Ark., The Service. EL.Arkansas. University. Cooperative Extension Service. Apr 1979. Apr 1979. (292). 12 p. ill. (NAL Call No.: 275.29 AR4LE).

0432

Soybean diseases atlas.

Baton Rouge, La., The Service. Coop. ext. pub.Louisiana State University and Agricultural and Mechanical College. Cooperative Extension Service. May 1979. May 1979. (1928). 20 p. ill. (NAL Call No.: 275.29 L93EP).

0433

Soybean (*Glycine max*) and grain sorghum (*Sorghum bicolor*) tolerance to residues of tetrafluron and fluometuron.

Reasons, D.L. Jeffery, L.S. Champaign, Ill., Weed Science Society of America. Weed science. Nov 1978. v. 26 (6). p. 553-538. ill. 3 ref. (NAL Call No.: 79.8 W41).

0434

Soybean (*Glycine max*) cultivar response to metribuzin in solution culture (Phytotoxicity).

Hardcastle, W.S. Champaign, Ill., Weed Science Society of America. Weed science. May 1979. v. 27 (3). p. 278-279. ill. 20 ref. (NAL Call No.: 79.8 W41).

0435

Soybean handbook (Includes culture, pests and diseases, processing, cost and return planning).

Manhattan, Kan., The Service. C.Kansas State University. Cooperative Extension Service. May 1978. May 1978. (449). 24 p. ill. (NAL Call No.: 275.29 K13EX).

0436

Soybean pest management.

Athow, K.L. Champaign, Ill., The Society. Journal of the American Oil Chemists' Society. Mar 1981. v. 58 (3). p. 130-135. ill. 15 ref. (NAL Call No.: 307.8 J82).

(PROTECTION OF PLANTS)

0437

Soybean pest management (Insects, weeds, diseases, nematodes, in the U.S.).
Pedigo, L.P. Higgins, R.A.; Hammond, R.B.; Bechinski, E.J. Boca Raton, Fla., CRC Press. CRC handbook of pest management in agriculture. 1981. Literature review. v. 3. p. 417-537. ill., map. 400 ref. (NAL Call No.: SB950.C7).

0438

Soybean response to selected rice herbicides (Leaf injury, yield reduction).
Eastin, E.F. Madison, Crop Science Society of America. Crop science. Nov/Dec 1978. v. 18 (6). p. 967-968. ill. 3 ref. (NAL Call No.: 64.8 C883).

0439

Soybean seed quality (damage) as affected by planter meters.
Nave, W.R. Paulsen, M.R. St. Joseph, Mich., The Society. Transactions of the ASAE American Society of Agricultural Engineers. July/Aug 1979. v. 22 (4). p. 739-745. ill. 9 ref. (NAL Call No.: 290.9 AM32T).

0440

Soybean stand establishment and yield as affected by herbicides and cultural practices.
Johnson, R.R. Wax, L.M. Madison, The Society. Agronomy journal. American Society of Agronomy. Sept/Oct 1979. v. 71 (5). p. 880-884. ill. 11 ref. (NAL Call No.: 4 AM34P).

0441

Soybean yield, leaf manganese, and soil manganese as affected by sources and rates of manganese and soil pH (hydrogen-ion concentration, nutritional deficiencies).
Shuman, L.M. Boswell, F.C. Madison, Wis., American Society of Agronomy. Agronomy journal. Nov/Dec 1979. v. 71 (6). p. 989-991. ill. 15 ref. (NAL Call No.: 4 AM34P).

0442

Susceptibility of soybean cultivars to *Pratylenchus scribneri* (Nematodes).
Acosta, N. Malek, R.B. Rio Piedras. Journal of agriculture of the University of Puerto Rico. Apr 1979. v. 63 (2). p. 103-110. ill. 5 ref. (NAL Call No.: 8 P832J).

0443

Tillage systems for Illinois (Includes pest and disease control for maize, soybeans, wheat).
Siemens, J.C. Shurtleff, M.C. Urbana, Ill., The Service. Circular. Illinois. University. Cooperative Extension Service. June 1979. (1172). 22 p. ill. 1 ref. (NAL Call No.: 275.29 IL62C).

0444

Tiny pest (*Heterodera glycines*, soybeans) carries clout.
Mangold, G. St. Louis, American Soybean Association. Soybean digest. Feb 1979. v. 39 (4). p. 30. ill. (NAL Call No.: 60.38 S09).

0445

The ultrastructure and distribution of an intracellular bacterium-like microorganism in tissues of larvae of the soybean cyst nematode, *Heterodera glycines*.
Endo, B.Y. New York, Academic Press. Journal of ultrastructure research. Apr 1979. v. 67 (1). p. 1-4. ill. 22 ref. (NAL Call No.: 440.8 J822).

0446

Uptake and transformation of ¹⁴C (carbon isotope) N-nitroso-di-N-propylamine (herbicide) by soybean plants.
Berard, D.F. Rainey, D.P. New York, Springer. Bulletin of environmental contamination and toxicology. Sept 1979. v. 23 (1/2). p. 136-140. ill. 3 ref. (NAL Call No.: RA1270.P35A1).

0447

Use of planting time application of ethylene dibromide for control of plant parasitic nematodes (*Meloidogyne arenaria*, *Heterodera glycines*, *Meloidogyne hapla*) on soybeans: new uses for an old fumigant.
Rodriguez-Kabana, R. King, P.S. Auburn, Agricultural Experiment Station of Auburn University. Highlights of agricultural research. Spring 1979. v. 26 (1). p. 18-19. (NAL Call No.: 100 AL1H).

0448

Use of the recirculating sprayer to control tall weed escapes in crops (*Asclepius syriaca*, soybeans).
Carlson, D.R. Burnside, O.C. Champaign, Ill., Weed Science Society of America. Weed science. Mar 1981. v. 29 (2). p. 174-179. ill. 11 ref. (NAL Call No.: 79.8 W41).

0448

Variable responses of soybeans to mixtures of
ozone and sulfure dioxide (Foliar injury).

Heagle, A.S. Johnston, J.W. Pittsburgh.
JournalAir Pollution Control Association. July
1979. v. 29 (7). p. 729-732. ill. 14 ref. (NAL
Call No.: 449.9 AI7).

PESTS OF PLANTS – GENERAL AND MISC.

0450

Breeding for soybean pest resistance.

Nickell, C.D. ISSODB. Urbana : International Agricultural Publications, College of Agriculture, University of Illinois. INTSOY International Soybean Program series. July 1983. July 1983. (25). p. 73. (NAL Call No.: TX558.S715).

0456

Soybean diseases and insects.

(Kentucky) University of Kentucky, Cooperative Extension Service 1982. Pesticide Applicator Training collection. 80 slides : col. + 2 sound cassettes (31 min.) + 1 script. (NAL Call No.: Slide no.18).

0451

Current status of plant protection for soybeans in the United States.

Newsom, L.D. ISSODB. Urbana : International Agricultural Publications, College of Agriculture, University of Illinois. INTSOY International Soybean Program series. July 1983. July 1983. (25). p. 40-51. Includes references. (NAL Call No.: TX558.S715).

0452

Evaluation of alternative pest control technologies for grain crops and soybeans /

J.C. Headley, C.R. Taylor and Bjorn Sundell.
Headley, J. C. Taylor, C. R.; Sundell, Bjorn. (S.l. s.n. 1978?). 10 p. ; 28 cm. Bibliography: p. (11). (NAL Call No.: SB951.H422).

0453

Integrated pest management : decision guide.

DeWitt, Jerry. Taylor, S. Elwynn.; Herman, J. Clayton. 1981. This publication is a guide to identify insects and diseases that affect corn, alfalfa, and soybeans. Weed identification is also included. Document available from: Iowa State Univ., Publications Distribution, Printing & Publications Bldg., Ames, Iowa 50011. 147 p. : ill. (NAL Call No.: Not available at NAL.). (NAL Call No.: IPM-22).

0454

An overview of the epidemiology of selected fungal, nematode, and seedborne pathogens of soybeans.

Ford, R.E. ISSODB. Urbana : International Agricultural Publications, College of Agriculture, University of Illinois. INTSOY International Soybean Program series. July 1983. July 1983. (25). p. 167-168. (NAL Call No.: TX558.S715).

0455

Pesticide applicator certification.

(United States? s.n.) 1982. Pesticide Applicator Training Collection ~Title from container ~Beta format. 4 videocassettes (ca. 60 min. each) : sd., col. ; 1/2 in. (NAL Call No.: Videocassette no.5).

PESTS OF PLANTS - INSECTS

0457

Activity of trypsin and chymotrypsin inhibitors of soybean forms with different resistance to soybean borer (Soybean varieties).

Sichkar, V.I. Levitsky, A.P.; Grikun, O.A.; Lobko, V.N.; Marj'ushkin, V.F. Ames : The Service. Soybean genetics newsletter - United States, Agricultural Research Service. Apr 1983. v. 10. p. 123-125. Includes references. (NAL Call No.: aSB205.S7S6).

0458

Adult seedcorn maggots in soybeans relay intercropped into winter wheat (*Delia platura*, *Glycine max*, *Triticum aestivum*).

Hammond, R.B. EVETB. Jeffers, D.L. College Park : Entomological Society of America. Environmental entomology. Oct 1983. v. 12 (5). p. 1487-1489. Includes references. (NAL Call No.: QL461.E532).

0459

Alfalfa hoppers feast on soybeans.

St. Louis, Mo., American Soybean Association. Soybean digest. Nov 1980. v 41 (1). p. 19S. ill. (NAL Call No.: 60.38 S09).

0460

Application of a baculovirus of *Pseudoplusia includens* to soybean: efficacy and seasonal persistence (Biological control).

McLeod, P.U. Young, S.Y.; Yearian, W.C. College Park, Md., Entomological Society of America. Environmental entomology. Apr 15, 1982. v. 11 (2). p. 412-416. ill. Includes 11 ref. (NAL Call No.: QL461.E532).

0461

Application of a simulative approach to evaluating alternative methods for the control of agricultural pests.

Reichelderfer, K.H. Bender, F.E. Lexington, Ky., American Agricultural Economics Association. Extract: A microanalytic simulation model of the interrelationships among Mexican bean beetle pest populations, populations of wasps that are parasites of the pest, chemical control inputs, and soybean yield is presented. Points from output response surfaces obtained through simulations of alternative biological and chemical pest control strategies are utilized in conjunction with cost data to construct benefit-cost ratios for each intraseasonal control option studied. Comparison of ratios indicates that biological of the pest is, by benefit-cost criteria and from both private and social perspectives, a competitive alternative to chemical control. American journal of agricultural economics. May 1979. v. 61 (2). p. 258-267. 19 ref. (NAL Call No.: 280.8 J822).

0464

Arthropod predators on cotton, corn, tobacco, and soybeans in South Carolina.

Roach, S.H. AR-SO. Athens, Ga., The Society. Journal - Georgia Entomological Society. Georgia Entomological Society. Apr 1980. v. 15 (2). p. 131-138. ill. 8 ref. (NAL Call No.: QL461.G4).

0465

Assessment of the role of natural enemies in regulation of soybean pest populations (Arthropod predators, parasites and entomopathogens, United States).

Pedigo, L.P. SCSBA. Pitre, H.N.; Whitcomb, W.H.; Young, S.Y. Mississippi State : Mississippi Agricultural and Forestry Experiment Station. Southern cooperative series bulletin. June 1983. Regional Research Project S-74. June 1983. (285). p. 39-48. Includes references. (NAL Call No.: 100 G29S0).

0466

***Autographa precationis* in relation to soybean: life history, and food intake and utilization under controlled conditions.**

Khalsa, M.S. Kogan, M. College Park, Md., Entomological Society of America. Environmental entomology. Feb 15, 1979. v. 8 (1). p. 117-122. ill. 16 ref. (NAL Call No.: QL461.E532).

0467

Bean leaf beetle (*Cerotoma trifurcata*): diurnal population fluctuations (during 1976 and 1977 in soybean fields in Washington County, North Carolina).

Boiteau, G. Bradley, J.R. Jr. College Park, Md., Entomological Society of America. Environmental entomology. Aug 1979. v. 8 (4). p. 615-618. ill. 6 ref. (NAL Call No.: QL461.E532).

0468

Bean leaf beetle (*Cerotoma trifurcata*): flight and dispersal behavior (Soybeans, maize).

Boiteau, G. Bradley, J.R. Jr. College Park, Md. Annals Entomological Society of America. Mar 15, 1979. v. 72 (2). p. 298-302. ill. 10 ref. (NAL Call No.: 420 EN82).

0469

Bean leaf beetle (*Cerotoma trifurcata*): Micro-spatial patterns and sequential sampling of (soybean) field populations (in Washington County, North Carolina).

Boiteau, G. Bradley, J.R. Jr.; Van Duyn, J.W.; Stinner, R.E. College Park, Md., Entomological Society of America. Environmental entomology. Dec 1979. v. 8 (6). p. 1139-1144. ill. 26 ref.

(PESTS OF PLANTS - INSECTS)

(NAL Call No.: QL461.E532).

AR42F).

0470

Bean leaf beetle (*Cerotoma trifurcata*): some seasonal anatomical changes and dormancy (Soybean fields, in North Carolina).

Boiteau, G. Bradley, J.R. Jr. College Park, Md. Annals Entomological Society of America. Mar 15, 1979. v. 72 (2). p. 303-307. ill. 15 ref. (NAL Call No.: 420 EN82).

0471

Bean leaf beetle control with systemic insecticide-nematicides, 1980 (*Cerotoma trifurcata*, soybean).

Lentz, G.L. Hayes, R.W.; Chambers, A.Y. College Park : Entomological Society of America. Insecticide and acaricide tests. 1982. v. 7. p. 185-186. (NAL Call No.: SB950.A1I49).

0472

Bean pod mottle disease in soybeans in Mississippi (*Cerotoma trifurcata*, vector).

Pitre, H.N. MS. Mississippi State, The Station. Research report - Mississippi Agricultural & Forestry Experiment Station. July 1980. v. 5 (12). 4 p. ill., map. 8 ref. (NAL Call No.: S79.E37).

0473

Bean pod mottle (virus) disease in soybeans (*Cerotoma trifurcata*, vectors).

Pitre, H.N. MS. Mississippi State, The Station. MAFES research highlights - Mississippi Agricultural & Forestry Experiment Station. Sept 1980. v. 43 (9). p. 1-3. ill., map. (NAL Call No.: 100 M69MI).

0474

Bioactivity of the postemergent herbicides acifluorfen and bentazon on *Geocoris punctipes* (Say) (Hemiptera: Lygaeidae) (*Glycine max*).

Farlow, R.A. Pitre, H.N. College Park, Md. : Entomological Society of America. Journal of economic entomology. Feb 1983. v. 76 (1). p. 200-203. Includes references. (NAL Call No.: 421 J822).

0475

Biological control of green clover worm (*Plathypena scabra*) on soybean (with *Anticarsia gemmatilis*).

Mueller, A.J. Kunnalaca, S. Fayetteville, The Station. Arkansas farm research. Arkansas. Agricultural Experiment Station. Sept/Oct 1979. v. 28 (5). p. 8. ill. (NAL Call No.: 100

0476

The biology and ecology of *Nomuraea rileyi* and a program for predicting its incidence on *Anticarsia gemmatilis* in soybean.

Kish, Leslie P. Gainesville Agricultural Experiment Stations, Institute of Food and Agricultural Sciences, University of Florida 1978. v. 48 p. : ill. -. Bibliography: p. 47-48. (NAL Call No.: 100 F66S (1) No.795).

0477

Biology and pest potential of *Anavitrinella pampinaria* (Lepidoptera: Geometridae) in soybeans.

Marston, N.L. JEENAI. Davis, D.G.; Garcia, C.; Gebhardt, M.R. College Park : Entomological Society of America. Journal of economic entomology. Dec 1983. v. 76 (6). p. 1248-1254. ill. Includes references. (NAL Call No.: 421 J822).

0478

Biology of *Microplitis demolitor* (Hymenoptera: Braconidae), an imported parasitoid of *Heliothis* (Lepidoptera: Noctuidae) spp. and the soybean looper, *Pseudoplusia includens* (Lepidoptera: Noctuidae).

Shepard, M. EVETB. Powell, J.E.; Jones, W.A. Jr. College Park : Entomological Society of America. Environmental entomology. June 1983. v. 12 (3). p. 641-645. ill. Includes references. (NAL Call No.: QL461.E532).

0479

Biology of the soybean looper, *Pseudoplusia includens*: characterization of last-stage larvae (Louisiana, USA).

Shour, M.H. Sparks, T.C. College Park, Md., The Society. Annals of the Entomological Society of America. Nov 1981. v. 74 (6). p. 531-535. ill. 18 ref. (NAL Call No.: 420 EN82).

0480

Bollworm on soybean (*Heliothis*).

Mueller, A.J. Engroff, B.W. Fayetteville, Ark., The Station. Arkansas farm research - Arkansas Agricultural Experiment Station. Jan/Feb 1981. v. 30 (1). p. 9. ill. (NAL Call No.: 100 AR42F).

0481

Calibration ratios for sampling soybean Lepidoptera (*Heliothis zea*, *Pseudoplusia includens*, *Anticarsia gemmatilis*): effect of larval species, larval size, plant growth stage and individual sampler.

Marston, N.L. Dickerson, W.A. Baltimore, Entomological Society of America. Journal of economic entomology. Feb 15, 1979. v. 72 (1). p. 110-114. ill. 14 ref. (NAL Call No.: 421 J822).

0482

Carabid beetles in soybean agroecosystems (*Harpalus pensylvanicus*).

House, G.J. All, J.N. College Park, Md., Entomological Society of America. Environmental entomology. Apr 1981. v. 10 (2). p. 194-196. ill. 11 ref. (NAL Call No.: QL461.E532).

0483

Characteristics and distribution of itchgrass in Louisiana (*Rottboellia exaltata*, sugarcane, soybeans).

White, J.C. Rhodes, D.G.; Walker, H.L. New Orleans, The Region. Agricultural reviews and manuals. ARM-S - United States, Dept. of Agriculture, Science and Education Administration, Agricultural Research, Southern Region. Nov 1979. Nov 1979. (7). 6 p. ill. 7 ref. (NAL Call No.: aS21.A75U65).

0484

Chemically mediated reproductive isolation between cabbage looper and soybean looper moths (Lepidoptera: Noctuidae) (*Trichoplusia ni*, *Pseudoplusia includens*).

Leppla, N.C. EVETB. College Park : Entomological Society of America. Environmental entomology. Dec 1983. v. 12 (6). p. 1760-1765. ill. Includes references. (NAL Call No.: QL461.E532).

0485

Citrus pulp bait insecticide formulations for control of velvetbean caterpillar and bean leaf beetle on soybean (*Anticarsia gemmatilis*, *Cerotoma trifurcata*).

Harper, J.D. Gainesville, Florida Entomological Society. Florida entomologist. Dec 1981. v. 64 (4). p. 538-540. (NAL Call No.: 420 F662).

0486

Common soybean insects / Iowa State University. Document available from: Iowa State University, Publications Distribution, Printing & Publications Bldg., Ames, Iowa 50011 1976. This publication describes and illustrates fifteen common soybean insects. 1 sheet : ill. (NAL Call No.: Document available from source.). (NAL Call No.: PM 463-6).

0487

Comparative consumption rates for selected insect predators of two defoliating caterpillar species of soybean in Louisiana (*Lebia analis*, *Calosoma alternans sayi*, biological control of *Pseudoplusia includens*, *Heliothis zea*, soybean looper, corn earworm).

Brown, D.W. Goyer, R.A. Athens, Ga. : The Society. Journal of the Georgia Entomological Society. July 1984. v. 19 (3). p. 299-303. Includes 7 references. (NAL Call No.: QL461.G4).

0490

Comparative resistance of multiple insect-resistant soybean genotypes to the soybean looper (*Pseudoplusia includens*, *Epilachna*, *Cerotoma trifurcata*, *Heliothis*). Smith, C.M. Gilman, D.F. College Park, Md., Entomological Society of America. Journal of economic entomology. Aug 1981. v. 74 (4). p. 400-403. ill. 15 ref. (NAL Call No.: 421 J822).

0491

Consumption and development of velvetbean caterpillar as influenced by soybean phenology (*Anticarsia gemmatilis*, southeastern USA).

Moscardi, F. Barfield, C.S.; Allen, G.E. College Park, Md., Entomological Society of America. Environmental entomology. Dec 1981. v. 10 (6). p. 880-884. ill. Includes 1 p. ref. (NAL Call No.: QL461.E532).

0492

Continuous beans don't have to mean continuous problems (Control of insects and diseases in soybeans).

Shumate, J. St. Louis, Mo., American Soybean Association. Soybean digest. May/June 1979. v. 39 (7). p. 16-b. ill. (NAL Call No.: 60.38 S09).

(PESTS OF PLANTS - INSECTS)

0493

Control insects in soybeans (Includes mites).
Adams, D.B. Horton, D.L.; Todd, J.W. Athens, Ga. : The Service. Circular - Cooperative Extension Service, University of Georgia. Feb 1984. Feb 1984. (720,rev.). 12 p. (NAL Call No.: 275.29 G29C).

0494

Control insects on soybeans (Damage to roots, stems, foliage and bloom feeders, pod feeders, Arkansas).
Jones, B.F. Little Rock, Ark., The Service. EL - Cooperative Extension Service, University of Arkansas. Sept 1981. Sept 1981. (193). 8 p. ill. (NAL Call No.: 275.29 AR4LE).

0495

Control of yellow mosaic of soybean by systemic insecticides, 1976-78 (Soybean (Glycine max 'Bragg'), mung bean yellow mosaic, MYMV, whitefly; Bemisia tabaci Genn. (Vector)).
Dhingra, K.L. Chenulu, V.V. (s.l.), The Society. Fungicide and nematocide tests; results - American Phytopathological Society. 1982. v. 37. p. 103. (NAL Call No.: 464.9 AM31R).

0496

Cooperation in soybean entomology.
Kogan, M. ISSODB. Urbana : International Agricultural Publications, College of Agriculture, University of Illinois. INTSOY International Soybean Program series. July 1983. July 1983. (25). p. 180-183. (NAL Call No.: TX558.S715).

0497

Corn earworm and green cloverworm control on soybeans in Alabama (Heliothis zea, Plathypena scabra).
Rohlf, W.M. Mack, T.P. College Park : Entomological Society of America. Insecticide and acaricide tests. 1982. v. 7. p. 190. (NAL Call No.: SB950.A1I49).

0498

Correlation of the red imported fire ant (Hymenoptera: Formicidae) with reduced soybean yields in North Carolina (Solenopsis invicta).
Apperson, C.S. JEENA. Powell, E.E. College Park : Entomological Society of America. Journal of economic entomology. Apr 1983. v. 76 (2). p. 259-263. Includes references. (NAL Call No.: 421 J822).

0499

Crop rotation vs. monoculture. I. Insect control (Pests of maize, cotton, rice, soybeans, sorghum).
Barnes, G. Madison, Wis., American Society of Agronomy. Crops and soils magazine. Jan 1980. v. 32 (4). p. 15-17. ill. (NAL Call No.: 6 W55).

0500

Damage to soybean seeds and seedlings by larvae of the flea beetle Systema frontalis (Coleoptera: Chrysomelidae).
Riley, T.J. GENSA. Athens : The Society. Journal of the Georgia Entomological Society. July 1983. v. 18 (3). p. 291-293. ill. (NAL Call No.: QL461.G4).

0501

Determination of yield-loss relationships for two soybean defoliators by using simulated insect-defoliation techniques (Cynthia cardui, Plathypena scabra, Iowa).
Hammond, R.B. Pedigo, L.P. College Park, Md., Entomological Society of America. Journal of economic entomology. Feb 1982. v. 75 (1). p. 102-107. 2 p. ref. (NAL Call No.: 421 J822).

0502

Development, fecundity, and longevity of the tobacco budworm (Lepidoptera: Noctuidae) fed soybean, cotton, and artificial diet at three temperatures (Heliothis virescens).
Nadgauda, D. EVETB. Pitre, H. College Park : Entomological Society of America. Environmental entomology. Apr 1983. v. 12 (2). p. 582-586. Includes references. (NAL Call No.: QL461.E532).

0503

Development of a sampling program for estimation of pupal densities of green cloverworm (Lepidoptera: Noctuidae) in soybeans and evaluation of alternative sampling procedures (Plathypena scabra).
Bechinski, E.J. EVETB. Pedigo, L.P. College Park : Entomological Society of America. Environmental entomology. Feb 1983. v. 12 (1). p. 96-100. Includes references. (NAL Call No.: QL461.E532).

0504

Development of the fall armyworm on cotton, soybean and corn (Spodoptera frugiperda).
Pitre, H.N. GENSA. Hogg, D.B. Athens : The Society. Journal of the Georgia Entomological Society. Apr 1983. v. 18 (2). p. 182-187. Includes references. (NAL Call No.: QL461.G4).

0505

Developmental changes in trans-permethrin and alpha-naphthyl acetate ester hydrolysis during the last larval instar of *Pseudoplusia includens* (Soybean looper).

Dowd, P.E. Sparks, T.C. New York, N.Y. : Academic Press. Pesticide biochemistry and physiology. Apr 1984. v. 21 (2). p. 275-282. Includes references. (NAL Call No.: SB951.P49).

0506

Differential effects of agroecosystem structure on dynamics of three soybean herbivores (*Heliothis zea*, *Epilachna varivestis*, *Popillia japonica*).

Stinner, R.E. Regniere, J.; Wilson, K. College Park, Md., Entomological Society of America. Environmental entomology. June 15, 1982. v. 11 (3). p. 538-543. Includes ref. (NAL Call No.: QL461.E532).

0507

Dimlin--a new approach to insect control (Soybean looper).

Bass, M.H. AL. Reed, T.; Conley, J. Auburn, The Station. Highlights of agricultural research. Alabama. Agricultural Experiment Station. Spring 1980. v. 27 (1). p. 7. ill. (NAL Call No.: 100 AL1H).

0508

Dispersal of *Nezara viridula* and *Piezodorus guildinii* nymphs in soybeans.

Panizzi, A.R. Galileo, M.H.M.; Gastal, H.A.D.; Toledo, J.F.F.; Wild, C.H. College Park, Md., Entomological Society of America. Environmental entomology. June 15, 1980. v. 9 (3). p. 293-297. ill. 13 ref. (NAL Call No.: QL461.E532).

0509

Dispersion and sequential sampling of green cloverworm eggs in soybeans (*Plathypena scabra*).

Buntin, G.D. Pedigo, L.P. College Park, Md., Entomological Society of America. Environmental entomology. Dec 1981. v. 10 (6). p. 980-985. ill. Includes 21 ref. (NAL Call No.: QL461.E532).

0510

Dispersion and spread of the entomopathogenic fungus *Nomuraea rileyi* (Moniliales:Moniliaceae) in a soybean field (*Plathypena scabra*, *Pseudoplusia includens*, *Anticarsia gemmatilis*).

Fuxa, J.R. College Park, Md. : Entomological Society of America. Environmental entomology. Feb 1984. v. 13 (1). p. 252-258. Includes

references. (NAL Call No.: QL461.E532).

0511

Distribution of bean leaf beetle (*Cerotoma trifurcata*) eggs, larvae, and pupae in relation to soybean plants: Determination by emergence cages and soil sampling techniques.

Levinson, G.A. USDA. Waldbauer, G.P.; Kogan, M. College Park, Md., Entomological Society of America. Environmental entomology. Dec 1979. v. 8 (6). p. 1055-1058. ill. 15 ref. (NAL Call No.: QL461.E532).

0512

Distribution of bean pod mottle virus in Arkansas soybean as related to the bean leaf beetle, *Cerotoma trifurcata*, (Coleoptera:Chrysomelidae) population.

Hopkins, J.D.EVETB. Mueller, A.J. College Park : Entomological Society of America. Environmental entomology. Oct 1983. v. 12 (5). p. 1564-1567. Includes references. (NAL Call No.: QL461.E532).

0513

Dosage-mortality responses and field control of seven pentatomids (stink bug pest complex), associated with soybean, exposed to (the insecticide) methyl parathion.

McPherson, R.M. Graves, J.B.; Allain, T.A. College Park, Md., Entomological Society of America. Environmental entomology. Dec 1979. v. 8 (6). p. 1041-1043. ill. 10 ref. (NAL Call No.: QL461.E532).

0514

Drought and insects: bad news for beans (Soybeans).

McPherson, R.M. Allen, W.A. San Francisco, California Farmer Publishing Co. Agrichemical age. Apr 1981. v. 25 (4). p. 16, 18, 42. ill. (NAL Call No.: 381 AG85).

0515

Dynamics of aphid transmission of soybean mosaic virus.

Halbert, S.E.ISSODB. Irwin, M.E.; Goodman, R.M. Urbana : International Agricultural Publications, College of Agriculture, University of Illinois. INTSOY International Soybean Program series. July 1983. July 1983. (25). p. 175-179. Includes references. (NAL Call No.: TX558.S715).

(PESTS OF PLANTS - INSECTS)

0516

Dynamics of natural enemy populations (Natural control agents of pests of soybeans, particularly *Nabis* spp., *Geocoris* spp., *Orius insidiosus*, spiders, eastern United States).
Yeargan, K.V.SCSBA. Todd, J.W.; Mueller, A.J.; Yearian, W.C. Mississippi State : Mississippi Agricultural and Forestry Experiment Station. Southern cooperative series bulletin. June 1983. Regional Research Project S-74. June 1983. (285). p. 32-38. Includes references. (NAL Call No.: 100 G29S0).

0517

Ecological impact of parathion in soybeans. I. Vegetative fauna. (Predatory arthropods, detrimental effects, insecticides, *Plathypena scabra*, natural control, Missouri field experiments).
Marston, N.L.XATBA. Hennessey, M.K. Washington : The Department. Technical bulletin - United States Dept. of Agriculture. Dec 1982. Dec 1982. (1665). p. 1-7. ill. Includes references. (NAL Call No.: 1 AG84TE).

0518

Ecological impact of parathion in soybeans (Insecticides, adverse effects, natural control, predatory arthropods).
Washington : The Department. Technical bulletin - United States Dept. of Agriculture. Dec 1982. Dec 1982. (1665). 23 p. ill. Includes references. (NAL Call No.: 1 AG84TE).

0519

Ecological impact of parathion in soybeans. II. Soil arthropod fauna (Insecticides, nontarget species, sampling, Missouri).
Hennessey, M.K.XATBA. Marston, N.L. Washington : The Department. Technical bulletin - United States Dept. of Agriculture. Dec 1982. Includes taxonomic list of soil arthropods collected. Dec 1982. (1665). p. 8-23. ill. Includes references. (NAL Call No.: 1 AG84TE).

0520

Ecology of predaceous arthropods in Iowa soybean agroecosystems (Biological and natural pest control).
Bechinski, E.J. Pedigo, L.P. College Park, Md., Entomological Society of America. Environmental entomology. Oct 15, 1981. v. 10 (5). p. 771-778. ill., map. 14 ref. (NAL Call No.: QL461.E532).

0521

Economic feasibility of a biological control technology using a parasitic wasp, *pediobius foveolatus*, to manage Mexican bean beetle on soybeans.
Reichelderfer, K.H. Washington, D.C., The Service. Agricultural economic report - United States Dept. of Agriculture, Economics, Statistics, and Cooperatives Service. Aug 1979. Aug 1979. (430). 20 p. 9 ref. (NAL Call No.: A281.9 AG8A).

0522

Effect of a resistant soybean genotype on the development of the soybean looper (Lepidoptera: Noctuidae) and an introduced parasitoid, *Microplitis demolitor* Wilkinson (Hymenoptera: Braconidae) (*Pseudoplusia includens*).
Yanes, J. Jr.EVETB. Boethel, D.J. College Park : Entomological Society of America. Environmental entomology. Aug 1983. v. 12 (4). p. 1270-1274. Includes references. (NAL Call No.: QL461.E532).

0523

Effect of benomyl on an *Entomophthora epizootic* in a *Pseudoplusia includens* population (Soybean looper, natural control, southern Arkansas).
Livingston, J.M. Yearian, W.C.; Young, S.Y.; Stacey, A.L. Athens, Ga., The Society. Journal of the Georgia Entomological Society. Oct 1981. v. 16 (4). p. 511-514. 7 ref. (NAL Call No.: QL461.G4).

0524

Effect of crop phenology on *Orius insidiosus* populations on strip-cropped soybean and corn (Soybean thrips, *Sericothrips variabilis*, biological control).
Isenhour, D.K. Yeargan, K.V. Athens, Ga., The Society. Journal of the Georgia Entomological Society. July 1981. v. 16 (3). p. 310-322. Bibliography p. 322. (NAL Call No.: QL461.G4).

0525

Effect of green stink bug (*Acrosternum hilare*) damage on soybean seed quality before and after storage.
Miner, F.D. AR. Dumas, B.A. Fayetteville, Ark., The Station. Bulletin - Agricultural Experiment Station, University of Arkansas. Apr 1980. Apr 1980. (844). 19 p. 16 ref. (NAL Call No.: 100 AR42).

0526

Effect of insecticides, fungicides, and insecticide-fungicide combinations on development of lepidopterous larval populations in soybean (Non-target organisms, entomopathogenic fungi).

Livingston, J.M. Yearian, W.C. College Park, Md., Entomological Society of America. Environmental entomology. Dec 1978. v. 7 (6). p. 823-828. ill. 18 ref. (NAL Call No.: QL461.E532).

0527

Effect of nitrogen fertilization on abundance of the bean leaf beetle (*Cerotoma trifurcata*) in soybean.

Burleigh, J.G. Katayama, R.W.; Hubbard, L. Fayetteville, Ark., The Station. Arkansas farm research - Arkansas Agricultural Experiment Station. Nov/Dec 1980. v. 29 (6). p. 5. (NAL Call No.: 100 AR42F).

0528

Effect of planting dates and soybean cultivars on pod damage by corn earworm (*Heliothis zea*, resistance).

Joshi, J.M. USDA. Madison, Wis., Crop Science Society of America. Crop science. Jan/Feb 1980. v. 20 (1). p. 59-63. ill. 6 ref. (NAL Call No.: 64.8 C883).

0529

Effects of a predator complex on lepidopterous defoliators of soybean (*Anticarsia gemmatilis*, *Pseudoplusia includens*, *Heliothis* spp., *Plathypena scabra*).

Brown, D.W. Goyer, R.A. College Park, Md., Entomological Society of America. Environmental entomology. Apr 15, 1982. v. 11 (2). p. 385-389. ill. Includes 11 ref. (NAL Call No.: QL461.E532).

0530

Effects of actual and simulated seedcorn maggot (*Diptera: Anthomyiidae*) damage on soybean growth and yield.

Funderburk, J.E. EVETB. Pedigo, L.P. College Park : Entomological Society of America. Environmental entomology. Apr 1983. v. 12 (2). p. 323-330. ill. Includes references. (NAL Call No.: QL461.E532).

0531

Effects of air pollution on plant-insect interactions: increased susceptibility of greenhouse-grown soybeans to the Mexican bean beetle after plant exposure to SO₂ (Sulfur dioxide, *Epilachna varivestis*).

Hughes, P.R. Potter, J.E.; Weinstein, L.H. College Park, Md., Entomological Society of America. Environmental entomology. Feb 1982. v. 11 (1). p. 173-176. Includes 10 ref. (NAL Call No.: QL461.E532).

0532

Effects of artificial and insect defoliation (by the green cloverworm *Plathypena scabra*) on water loss from excised soybean leaves.

Hammond, R.B. Pedigo, L.P. Lawrence, Kan., The Society. Journal of the Kansas Entomological Society. Apr 1981. v. 54 (2). p. 331-336. 13 ref. (NAL Call No.: 420 K13).

0533

Effects of beet armyworm (*Lepidoptera: Noctuidae*) infestation levels on soybean (*Spodoptera exiqua*).

Huffman, F.R. JEENA. Mueller, A.J. College Park : Entomological Society of America. Journal of economic entomology. Aug 1983. v. 76 (4). p. 744-747. Includes references. (NAL Call No.: 421 J822).

0534

Effects of carbofuran and water stress on growth of soybean plants and twospotted spider mite (*Acari: Tetranychidae*) populations under greenhouse conditions (*Tetranychus urticae*).

Mellors, W.K. Allegro, A.; Nsu, A.N. College Park, Md. : Entomological Society of America. Environmental entomology. Apr 1984. v. 13 (2). p. 561-567. Includes references. (NAL Call No.: QL461.E532).

0535

Effects of cultural practices on natural enemies (Beneficial arthropod dynamics in soybean, role of plant phenology, pest control implications).

Mayse, M. SCSBA. Pitre, H.N.; Whitcomb, W. Mississippi State : Mississippi Agricultural and Forestry Experiment Station. Southern cooperative series bulletin. June 1983. Regional Research Project S-74. June 1983. (285). p. 49-55. Includes references. (NAL Call No.: 100 G29S0).

(PESTS OF PLANTS - INSECTS)

0536

Effects of defoliating pests on soybean canopy CO₂ (carbon dioxide) exchange and reproductive growth (*Anticarsia gemmatilis*).

Ingram, K.T. Herzog, D.C.; Boote, K.J.; Jones, J.W.; Barfield, C.S. Madison, Wis., Crop Science Society of America. Crop science. Nov/Dec 1981. v. 21 (6). p. 961-968. ill. 22 ref. (NAL Call No.: 64.8 C883).

0537

Effects of diflubenzuron on food consumption by the soybean looper (*Pseudoplusia includens*).

Reed, T. Bass, M.H. College Park, Md., Entomological Society of America. Journal of economic entomology. Dec 1979. v. 72 (6). p. 912-913. ill. 1 ref. (NAL Call No.: 421 J822).

0538

Effects of *Heliothis zea* (Lepidoptera: Noctuidae) on soybean yield and quality.

Biever, K.D. JEENA. Thomas, G.D.; Boldt, P.E.; Ignoffo, C.M. College Park : Entomological Society of America. Journal of economic entomology. Aug 1983. v. 76 (4). p. 762-765. Includes references. (NAL Call No.: 421 J822).

0539

Effects of herbicidal applications of toxaphene on the soybean thrips, certain predators and corn earworm in soybeans (*Sericothrips variabilis*).

Huckaba, R.M. GENSA. Bradley, J.R.; Van Duyn, J.W. Athens : The Society. Journal of the Georgia Entomological Society. Apr 1983. v. 18 (2). p. 200-207. Includes references. (NAL Call No.: QL461.G4).

0540

The effects of *Heterodera glycines* upon nitrogen fixation in soybean and the influence of pH and inorganic ions on nematode activity / by Paul Speigle Lehman.

Lehman, Paul Speigle. 1939. 1971. Thesis (Ph.D.)--North Carolina State University at Raleigh, 1971. Photocopy. Ann Arbor, Mich. : University Microfilms, 1971. vi, 45 leaves ; 21 cm. Bibliography: leaves 43-44. (NAL Call No.: DISS 71-22,401).

0541

Effects of infestation levels of *Heliothis zea* on soybean (in Arkansas).

Mueller, A.J. Engroff, B.W. College Park, Md., Entomological Society of America. Journal of economic entomology. Apr 1980. v. 73 (2). p. 271-275. ill. 9 ref. (NAL Call No.: 421 J822).

0542

Effects of interspecific competition and dietary stress on the velvetbean caterpillar and the soybean looper (*Pseudoplusia includens*, *Anticarsia gemmatilis*).

King, E.W. GENSA. Athens : The Society. Journal of the Georgia Entomological Society. Apr 1983. v. 18 (2). p. 176-181. Includes references. (NAL Call No.: QL461.G4).

0543

Effects of main-stem girdling of early vegetative stages of soybean plants by three-cornered alfalfa hoppers (Homoptera: Membracidae) (*Spissitilus festinus*).

Mueller, A.J. JEENA. Jones, J.W. College Park : Entomological Society of America. Journal of economic entomology. Aug 1983. v. 76 (4). p. 920-922. Includes references. (NAL Call No.: 421 J822).

0544

Effects of micrometeorological conditions on survival and fecundity of the Mexican bean beetle (*Epilachna varivestis*) in soybean fields.

Sprenkel, R.K. Rabb, R.L. College Park, Md., Entomological Society of America. Environmental entomology. Apr 1981. v. 10 (2). p. 219-221. 8 ref. (NAL Call No.: QL461.E532).

0545

Effects of selected pesticide application routines on pest and beneficial arthropods on soybean in Mississippi.

Farlow, R.A. EVETB. Pitre, H.N. College Park : Entomological Society of America. Environmental entomology. Apr 1983. v. 12 (2). p. 552-557. Includes references. (NAL Call No.: QL461.E532).

0546

Effects of soybean cropping practices on Mexican bean beetle (*Epilachna varivestis*) and redlegged grasshopper (*Melanoplus femurrubrum*) populations.

Sloderbeck, P.E. Edwards, C.R. College Park, Md., Entomological Society of America. Journal of economic entomology. Dec 1979. v. 72 (6). p. 850-853. ill. 8 ref. (NAL Call No.: 421 J822).

0547

Effects of systemic insecticide-nematicides on midseason pest and predator populations in soybean (*Cerotoma trifurcata*, *Empoasca fabae*, *Sericothrips variabilis*, *Heterodera glycines*).

Lentz, G.L. JEENA. Chambers, A.Y.; Hayes, R.M. College Park : Entomological Society of

America. Journal of economic entomology. Aug 1983. v. 76 (4). p. 836-840. Includes references. (NAL Call No.: 421 J822).

0548

Effects of temperature, humidity, and soybean maturity on longevity and fecundity of adult Mexican bean beetle, *Epilachna varivestis*.
Kitayama, K. Stinner, R.E. College Park, Md., Entomological Society of America. Environmental entomology. June 1979. v. 8 (3). p. 458-464. ill. 25 ref. (NAL Call No.: QL461.E532).

0549

Effects of temperature, relative humidity, and host plant on larval survival of the Mexican bean beetle, *Epilachna varivestis* Mulsant (Lima beans, soybeans, North Carolina).
Wilson, K.G. Stinner, R.E.; Rabb, R.L. College Park, Md., Entomological Society of America. Environmental entomology. Feb 1982. v. 11 (1). p. 121-126. ill. Includes 1 p. ref. (NAL Call No.: QL461.E532).

0550

The effects of three cultural variables on the incidence of *Nomuraea rileyi*, phytophagous Lepidoptera, and their predators on soybeans (in North Carolina).
Sprenkel, R.K. Brooks, W.M. College Park, Md., Entomological Society of America. Environmental entomology. Apr 1979. v. 8 (2). p. 334-339. ill. 4 ref. (NAL Call No.: QL461.E532).

0551

Effects of tobacco budworm (Lepidoptera: Noctuidae) infestations on pod damage and yield loss in soybean (*Heliothis virescens*).
McWilliams, J.M. College Park, Md.: Entomological Society of America. Journal of economic entomology. Apr 1984. v. 77 (2). p. 364-369. Includes references. (NAL Call No.: 421 J822).

0554

Effects of *Vairimorpha necatrix* in sprays and corn meal on *Heliothis* species in tobacco, soybeans, and sorghum (Biological control).
Fuxa, J.R. Brooks, W.M. College Park, Md., Entomological Society of America. Journal of economic entomology. June 1979. v. 72 (3). p. 462-467. ill. 30 ref. (NAL Call No.: 421 J822).

0555

Effects of weeds on the diversity and abundance of insects in soybeans.
Shelton, M.D. EVETB. Edwards, C.R. College Park: Entomological Society of America. Environmental entomology. Apr 1983. v. 12 (2). p. 296-298. Includes references. (NAL Call No.: QL461.E532).

0556

Efficacy of synthetic pyrethroid insecticides on soybean.
Yearian, W.C. Mueller, A.J. Mesquite, Haughton Publishing Co. The Cotton gin and oil mill press. July 24, 1982. v. 83 (15). p. 20. (NAL Call No.: 304.8 C822).

0557

Efficacy of synthetic pyrethroid insecticides on soybean.
Yearian, W.C. Mueller, A.J. Fayetteville, Ark., The Station. Arkansas farm research - Arkansas Agricultural Experiment Station. Jan/Feb 1982. v. 31 (1). p. 5. (NAL Call No.: 100 AR42F).

0558

Efficacy of three predaceous insect species in controlling the soybean podworm, *Heliothis zea* (Boddie) / by Robert M. Barry.
Barry, Robert M. (Robert Merritt), 1942. 1972. Thesis (Ph.D.)--University of Missouri, 1972. Photocopy of typescript. Ann Arbor: University Microfilms, 1973. xiii, 135 leaves; 21 cm. Bibliography: leaves 127-135. (NAL Call No.: DISS 73-7,005).

0559

Establishment of infestation and behavior of *Heliothis zea* on soybeans in the greenhouse.
Pitre, H.N. Hillhouse, T.L. Athens, Ga., The Society. Journal of the Georgia Entomological Society. Jan 1981. v. 16 (1). p. 28-34. 17 ref. (NAL Call No.: QL461.G4).

0560

Estimating rates of arthropod predation on velvetbean caterpillar larvae in soybeans (*Anticarsia gemmatilis*).
Elvin, M.K. FETMA. Stimac, J.L.; Whitcomb, W.H. Gainesville: Florida Entomological Society. Florida entomologist. Sept 1983. v. 66 (3). p. 319-330. Includes references. (NAL Call No.: 420 F662).

(PESTS OF PLANTS - INSECTS)

0561

Estimation of absolute larval densities and calibration of relative sampling methods for velvetbean caterpillar, *Anticarsia gemmatilis* (Hubner) in soybean (Florida).
Luna, J.M. Linker, H.M.; Stimac, J.L.;
Rutherford, S.L. College Park, Md.,
Entomological Society of America. Environmental
entomology. Apr 15, 1982. v. 11 (2). p.
497-502. ill. Ref. (NAL Call No.: QL461.E532).

0562

Evaluation of diflubenzuron for Mexican bean beetle (Coleoptera: Coccinellidae) control and impact on *Pediobius faveolatus* (Hymenoptera: Eulophidae) (*Epilachna varivestis*, soybean).
Zungoli, P.A. Steinhauer, A.L.; Linduska, J.J.
College Park, Md. : Entomological Society of
America. Journal of economic entomology. Feb
1983. v. 76 (1). p. 188-191. Includes
references. (NAL Call No.: 421 J822).

0563

Evaluation of four stink bug species (*Nezara viridula*, *Acrosternum hilare*, *Euschistus servus*, *Euschistus tristigmus*) from three genera affecting soybean yield and quality in Louisiana.
McPherson, R.M. Newsom, L.D. College Park,
Entomological Society of America. Journal of
economic entomology. Apr 15, 1979. v. 72 (2).
p. 188-194. ill. 12 ref. (NAL Call No.: 421
J822).

0564

Evaluation of guazatine triacetate as an antifeedant/feeding deterrent for the green cloverworm (*Plathypena scabra*) on soybeans.
Higgins, R.A. Pedigo, L.P. College Park, Md.,
Entomological Society of America. Journal of
economic entomology. Oct 1979. v. 72 (5). p.
680-686. ill. 15 ref. (NAL Call No.: 421 J822).

0565

Evaluation of methods for sampling predatory arthropods in soybeans (*Orius insidiosus*, *Nabis* spp., *Chrysopa* spp., Coccinellidae, *Anthicus cervinus*, Iowa).
Bechinski, E.J. Pedigo, L.P. College Park, Md.,
Entomological Society of America. Environmental
entomology. June 15, 1982. v. 11 (3). p.
756-761. ill. Includes ref. (NAL Call No.:
QL461.E532).

0566

Evaluation of soybean germ plasm for resistance to the bean leaf beetle, *Cerotoma trifurcata* (Forster), the southern green stink bug, *Nezara viridula* (Linnaeus), and the soybean looper, *Pseudoplusia includens* Walker / by Richard Leland Jensen.
Jensen, Richard Leland, 1937. 1971. Thesis
(Ph.D.)--Louisiana State University and
Agricultural and Mechanical College, 1971.
Photocopy. Ann Arbor, Mich. : University
Microfilms, 1972. x, 83 leaves ; 21 cm.
Bibliography: leaves 51-53. (NAL Call No.: DISS
72-3,497).

0567

Evaluation of soybean lines for soybean looper damage from S-154 Regional project (Breeding, resistance, Louisiana).
Harville, B.G. Elkins, M. Baton Rouge : The
Department. Report of projects - Louisiana
Agricultural Experiment Station, Department of
Agronomy. 1982. 1982. p. 275. (NAL Call No.:
100 L936).

0568

Evaluation of soybean lines selected for insect resistance.
Gilman, D.F. Elkins, M.; Smith, C.M. Baton
Rouge, The Department. Report of projects -
Louisiana Agricultural Experiment Station,
Department of Agronomy. Louisiana. Agricultural
Experiment Station. Dept. of Agronomy. 1979.
1979. p. 116-117. (NAL Call No.: 100 L936).

0569

Evaluation of soybean lines selected for insect resistance.
Gilman, D.F. LA. Hall, W.; Elkins, M. Baton
Rouge, The Department. Report of projects -
Louisiana Agricultural Experiment Station,
Department of Agronomy. Louisiana. Agricultural
Experiment Station. Dept. of Agronomy. 1979.
1979. p. 154-157. ill. (NAL Call No.: 100
L936).

0570

Evaluation of systemic insecticide applications for control of Mexican bean beetle on soybeans in Maryland (*Epilachna varivestis*, *Glycine max*).
Elden, T.C. Athens, Ga., The Society. Journal
of the Georgia Entomological Society. Jan 1982.
v. 17 (1). p. 54-59. Includes 4 ref. (NAL Call
No.: QL461.G4).

0571

Fate of an insect growth regulator EL-494 in soybean callus tissue, soybean plants, and gypsy moth larvae (*Lymantria dispar*).
 AbdelMonem, A.E. Mumma, R.D. Washington, D.C., American Chemical Society. Journal of agricultural and food chemistry. May/June 1982. v. 30 (3). p. 536-542. ill. Includes 12 ref. (NAL Call No.: 381 J8223).

0572

Fecal elimination of diflubenzuron by the soybean looper (*Pseudoplusia includens*).
 Reed, T. Bass, M.H. Athens, Ga., The Society. Journal of the Georgia Entomological Society. Jan 1981. v. 16 (1). p. 91-95. ill. 3 ref. (NAL Call No.: QL461.G4).

0573

Feeding and developmental rates of the Mexican bean beetle (*Epilachna varivestis*) on soybeans.
 McAvoy, T.J. Smith, J.C. College Park, Md., Entomological Society of America. Journal of economic entomology. Dec 1979. v. 72 (6). p. 835-836. ill. 6 ref. (NAL Call No.: 421 J822).

0574

Feeding behavior of Mexican bean beetle (*Epilachna varivestis*) on leaf extracts of resistant and susceptible soybean genotypes.
 Smith, C.M. Wilson, R.F. College Park, Md., Entomological Society of America. Journal of economic entomology. June 1979. v. 72 (3). p. 374-377. ill. 13 ref. (NAL Call No.: 421 J822).

0575

Field and laboratory evaluations of soybean lines for resistance to corn earworm (*Heliothis zea*) leaf feeding).
 Smith, C.M. Brim, C.A. Baltimore, Entomological Society of America. Journal of economic entomology. Feb 15, 1979. v. 72 (1). p. 78-80. ill. 6 ref. (NAL Call No.: 421 J822).

0576

Field cage evaluation of predators of the soybean looper, *Pseudoplusia includens* (Lepidoptera: Noctuidae).
 Richman, D.B. Hemenway, R.C. Jr.; Whitcomb, W.H. College Park, Md., Entomological Society of America. Environmental entomology. June 15, 1980. v. 9 (3). p. 315-317. 9 ref. (NAL Call No.: QL461.E532).

0577

Flushing technique and sequential-count plan for green cloverworm (Lepidoptera: Noctuidae) moths in soybean (*Plathypena scabra*).
 Pedigo, L.P. EVETB. Buntin, G.D.; Bechinski, E.J. College Park : Entomological Society of America. Environmental entomology. Dec 1982. v. 11 (6). p. 1223-1228. ill. Includes references. (NAL Call No.: QL461.E532).

0578

Foliage consumption and damage potential of *Odontota horni* and *Baliosus nervosus* (Coleoptera: Chrysomelidae) on soybean (Iowa).
 Buntin, G.D. JEENA. Pedigo, L.P. College Park : Entomological Society of America. Journal of economic entomology. Dec 1982. v. 75 (6). p. 1034-1037. ill. 8 ref. (NAL Call No.: 421 J822).

0579

Foliar-applied insecticide treatments on soybeans, 1981 (*Epilachna varivestis*, *Ceratoma trifurcata*).
 Hammond, R.B. Dobrin, C. College Park : Entomological Society of America. Insecticide and acaricide tests. 1982. v. 7. p. 180-181. (NAL Call No.: SB950.A1I49).

0580

Foliar spray efficacy trials, 1981 (Soybean, *Plathypena scabra*).
 Higgins, R. Pedigo, L.; Buntin, D. College Park : Entomological Society of America. Insecticide and acaricide tests. 1982. v. 7. p. 184. (NAL Call No.: SB950.A1I49).

0581

Geographical and seasonal occurrence of parasites, predators and entomopathogens (Natural control agents, active in regulating populations of soybean pests).
 Harper, J.D. SCSBA. McPherson, R.M.; Shepard, M. Mississippi State : Mississippi Agricultural and Forestry Experiment Station. Southern cooperative series bulletin. June 1983. Regional Research Project S-74. June 1983. (285). p. 7-19. Includes references. (NAL Call No.: 100 G2950).

0582

Grasshoppers, a pest of soybean.
 Mueller, A.J. AR. Jones, J.W.; Yearian, W.C. Fayetteville, University of Arkansas Agricultural Experiment Station. Arkansas farm research. May/June 1980. v. 29 (3). p. 16. ill. (NAL Call No.: 100 AR42F).

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0583

Green cloverworm in soybeans / Ohio State University, Cooperative Extension Service. 1981. This discusses the distribution, appearance, life cycle, damage, scouting methods, and control methods of the green cloverworm in soybeans, and the stages of development for soybeans. Document available from: Ext. Office of Information, Ohio State University, 2120 Fyffe Road, Columbus, OH 43210. 1 sheet. (NAL Call No.: Not available at NAL.). (NAL Call No.: Field Ent Series 19).

0584

Green cloverworm (Lepidoptera: Noctuidae) population dynamics: pupal life table studies in Iowa soybeans (Plathypena scabra). Bechinski, E.J. EVETB. Pedigo, L.P. College Park : Entomological Society of America. Environmental entomology. June 1983. v. 12 (3). p. 656-661. Includes references. (NAL Call No.: QL461.E532).

0585

Green cloverworm (Lepidoptera: Noctuidae) populations in conventional and double-crop, no-till soybeans (Plathypena scabra). Sloderbeck, P.E. JEENA. Yeargan, K.V. College Park : Entomological Society of America. Journal of economic entomology. Aug 1983. v. 76 (4). p. 785-791. Includes references. (NAL Call No.: 421 J822).

0586

Green cloverworm (Plathypena scabra) leaf consumption on greenhouse and field soybean leaves and development of a leaf-consumption model. Hammond, R.B. Pedigo, L.P. College Park, Md., Entomological Society of America. Journal of economic entomology. Oct 1979. v. 72 (5). p. 714-717. ill. 13 ref. (NAL Call No.: 421 J822).

0587

Green cloverworm (Plathypena scabra) populations on soybeans in west Tennessee. Lentz, G.L. Knoxville, The Station. Tennessee farm and home science - Tennessee Agricultural Experiment Station. Jan/Mar 1981. Jan/Mar 1981. (117). p. 12-13. ill. 4 ref. (NAL Call No.: 100 T25F).

0588

Heliothis spp. eggs: Spray application to establish larval infestations in experimental field plots of soybeans. McWilliams, J.M. AR-SO. College Park, Md., Entomological Society of America. Environmental entomology. Dec 1979. v. 8 (6). p. 1044-1046. ill. 4 ref. (NAL Call No.: QL461.E532).

0589

Histological and behavioral studies of threecornered alfalfa hopper (Homoptera:Membracidae) feeding on soybean (Spissistilus festinus). Mitchell, P.L. Newsom, L.D. College Park, Md. The Society. Annals of the Entomological Society of America. Mar 1984. v. 77 (2). p. 174-181. ill. Includes references. (NAL Call No.: 420 EN82).

0590

Host plant preferences of caged populations of the tobacco budworm, cabbage looper, and soybean looper : and effect of supplemental releases of Trichogramma pretiosum and Chrysopa carnea on these three pests / Southern Region, Agri. Res. Serv., USDA and Agricultural Research and Education Center, IFAS, University of Florida. (Quincy, Fla.) The Service (1973). Cover title ~"Special report"-leaf ii ~"For official use only. ~Cooperative agreement no. 12-14-100-10, 914 (33). viii, 78 leaves : ill. ; 28 cm. Bibliography: leaves 76-78. (NAL Call No.: aSB933.3.H6).

0591

Identification of multiple insect resistant soybean lines. Hatchett, J.H. Beland, G.L. Madison, Wis., Crop Science Society of America. Crop science. July/Aug 1979. v. 19 (4). p. 557-559. ill. 8 ref. (NAL Call No.: 64.8 C883).

0592

Identification of predaceous arthropods (Heliothis spp., Pseudoplusia includens and Anticarsia gennatalis) in soybeans by using autoradiography. McCarty, M.T. Shepard, M.; Turnipseed, S.G. College Park, Md., Entomological Society of America. Environmental entomology. Apr 15, 1980. v. 9 (2). p. 199-203. ill. Bibliography p. 203. (NAL Call No.: QL461.E532).

0593

Identification of sources of resistance to limabean podborer (Lepidoptera: Tyrallidae) in soybean (*Etiella zinckenella*, *Glycine max*).
Talekar, N.S. Chen, B.S. College Park, Md. : Entomological Society of America. Journal of economic entomology. Feb 1983. v. 76 (1). p. 38-39. Includes references. (NAL Call No.: 421 J822).

0594

Identification of sources of resistance to the beanfly (*Ophiomyia phaseoli*) and two other agromyzid flies (*Ophiomyia centrosematis*, *Melanagromyza sojae*) in soybean and mungbean (Variety trials).

Chiang, H.S. Talekar, N.S. College Park, Md., Entomological Society of America. Journal of economic entomology. Apr 1980. v. 73 (2). p. 197-199. ill. 8 ref. (NAL Call No.: 421 J822).

0595

Immature stages of *Anacamptodes herse* (Schaus) (Geometridae) on soybean in Honduras.

Passoa, S. Lawrence, Kan. : The Society. Journal of the Lepidopterists' Society. 1983. v. 37 (3). p. 217-223. ill. Includes references. (NAL Call No.: 421 L554).

0596

Impact of the red imported fire ant, *Solenopsis invicta* (Hymenoptera:Formicidae), on the growth and yield of soybeans (*Glycine max*).

Adams, C.T.JEENA. Banks, W.A.; Lofgren, C.S.; Smittle, B.U.; Harlan, D.P. College Park : Entomological Society of America. Journal of economic entomology. Oct 1983. v. 76 (5). p. 1129-1132. Includes references. (NAL Call No.: 421 J822).

0597

Incidence of arthropod predators in different soybean cropping systems (*Nabis* spp., *Geocoris* spp., *Orius* spp., beneficial insects, Virginia).

McPherson, R.M. Smith, J.C.; Allen, W.A. College Park, Md., Entomological Society of America. Environmental entomology. June 15, 1982. v. 11 (3). p. 685-689. ill. Includes 8 ref. (NAL Call No.: QL461.E532).

0598

Incidence of tachinid parasitism of several stink bug (Heteroptera: Pentatomidae) species associated with soybean (Biological control).

McPherson, R.M.JEENA. Pitts, J.R.; Newsom, L.D.; Chapin, J.B.; Herzog, D.C. College Park : Entomological Society of America. Journal of

economic entomology. Oct 1982. v. 75 (5). p. 783-786. Includes references. (NAL Call No.: 421 J822).

0599

Increased success of the Mexican bean beetle on field-grown soybeans exposed to sulfur dioxide (*Glycine max*, *Epilachna varivestis*).

Hughes, P.R.JEVQA. Dickie, A.I.; Penton, M.A. Madison : American Society of Agronomy. Journal of environmental quality. Oct/Dec 1983. v. 12 (4). p. 565-568. Includes references. (NAL Call No.: QH540.J6).

0600

Influence of soybean leaf extracts on ester cleavage in cabbage and soybean loopers (Lepidoptera: Noctuidae) (*Trichoplusia ni*, *Pseudoplusia includens*).

Dowd, P.F.JEENA. Smith, C.M.; Sparks, T.C. College Park : Entomological Society of America. Journal of economic entomology. Aug 1983. v. 76 (4). p. 700-703. Includes references. (NAL Call No.: 421 J822).

0601

Influence of temperature on oviposition and adult female longevity for the soybean looper, *Pseudoplusia includens* (Walker) (Lepidoptera: Noctuidae).

Mason, L.U. Mack, T.P. College Park, Md. : Entomological Society of America. Environmental entomology. Apr 1984. v. 13 (2). p. 379-383. Includes references. (NAL Call No.: QL461.E532).

0602

Information and restrictions on insecticide recommendations for field corn, small grains, soybeans and forages / Ohio State University, Cooperative Extension Service, Columbus, Ohio.

1981. This publication discusses current pest problems, general pest control, and includes tables on insecticide recommendation restrictions. Document available from: Ext. Office of Information, Ohio State University, 2120 Fyffe Road, Columbus, OH 43210. 9 p. (NAL Call No.: Not available at NAL.). (NAL Call No.: Field Ent Series 1).

0603

Inheritance of resistance to soybean pod borer in soybeans (*Leguminivora glycinivorella*).

Zhang, Z.U.ISSODB. Fu, C.Q. Urbana : International Agricultural Publications, College of Agriculture, University of Illinois. INTSOY International Soybean Program series. July 1983. July 1983. (25). p. 74-79. Includes references. (NAL Call No.: TX558.S715).

(PESTS OF PLANTS - INSECTS)

0604

Insect control inches toward soybeans.

Tanzy, K. St. Louis, Mo., American Soybean Association. Soybean digest. Feb 1980. v. 40 (4). p. 39. ill. (NAL Call No.: 60.38 S09).

0605

Insect population dynamics in relation to soybean narrow and broad leaf isolines (Soybean varieties).

Wells, P. Dadson, R.B.; Joshi, J.M.; Murphy, L. Ames : The Service. Soybean genetics newsletter - United States, Agricultural Research Service. Apr 1983. v. 10. p. 50. Includes references. (NAL Call No.: aSB205.S7S6).

0606

Insect problems increase in Ohio soybean fields (*Popillia japonica*, *Plathypena scabra*, *Epilachna varivestis*, *Cerotoma trifurcata*).

Hammond, R.B. Wooster, The Center. Ohio report on research and development in agriculture, home economics, and natural resources - Ohio Agricultural Research and Development Center. July/Aug 1982. v. 67 (4). p. 63-65. ill. (NAL Call No.: 100 OH3S (3)).

0607

Insect resistance factor in soybean PI's 229358 and 227687 demonstrated by grafting (*Glycine max*, plant introduction, *Lepidoptera*, *Noctuidae*, *Heliothis zea*).

Lambert, L. Kilen, T.C. Madison : Crop Science Society of America. Crop science. Jan/Feb 1984. v. 24 (1). p. 163-165. Includes references. (NAL Call No.: 64.8 C883).

0608

Insecticide evaluation on soybeans (a preliminary report).

Griffin, J.L. Robinson, J.F. Crowley : The Station. Annual progress report - Louisiana, Rice Experiment Station. 1982. 1982. (74th). p. 390-391. (NAL Call No.: 100 L93 (3)).

0609

Insecticide recommendations for soybeans--1983 (Insect pest control, Kentucky).

Johnson, D.W. Lexington : The Service. ENT - University of Kentucky, Cooperative Extension Service. Dec 1982. Dec 1982. (13). 8 p. (NAL Call No.: 275.29 K415E).

0610

Insects that attack soybean seeds and seedlings / Ohio State University, Cooperative Extension Service.

1980. This discusses three insects that attack soybean seeds and seedlings, including garden symphylans, cutworms, and seed maggots, and their control. Document available from: Ext. Office of Information, Ohio State University, 2120 Fyffe Road, Columbus, OH 43210. 1 sheet. (NAL Call No.: Not available at NAL.). (NAL Call No.: Field Ent Series 20).

0611

Investigations concerning host plant resistance to the Mexican bean beetle, *Epilachna varivestis* mulsant, in soybeans, *Glycine max* (L.) Merrill / by John Wey Van Duyn.

Van Duyn, John Wey, 1942. 1971. Thesis (Ph.D)--Clemson University, 1971. Photocopy. Ann Arbor, Mich. : University Microfilms, 1972. xiv, 210 leaves ; 21 cm. Bibliography: leaves 173-183. (NAL Call No.: DISS 72-5,027).

0612

Isolation and beetle transmission of cowpea mosaic virus (severe subgroup) from *Desmodium canescens* and soybeans in Illinois (Insect vectors).

McLaughlin, M.R. Thongmeearkom, P. Beltsville, Md., Plant Science Research Division, Agricultural Research Service, U.S. Dept. of Agriculture. Plant disease reporter. Dec 1978. v. 62 (12). p. 1069-1073. ill. 16 ref. (NAL Call No.: 1.9 P69P).

0613

Kentucky soybean insect guide (Pests, beneficial species).

Raney, H.G. Townsend, L. Jr.; Johnson, D.W. Lexington, Ky., The Service. ENT - University of Kentucky, Cooperative Extension Service. Aug 1980. Aug 1980. (25). 7 p. ill. (NAL Call No.: 275.29 K415E).

0614

Laboratory and field evaluation of a nuclear polyhedrosis virus of the soybean looper, *Pseudoplusia includens* (Biological control).

Livingston, J.M. McLeod, P.J.; Yearian, W.C.; Young, S.Y. III. Athens, Ga., The Society. Journal - Georgia Entomological Society. Georgia Entomological Society. Apr 1980. v. 15 (2). p. 194-199. 9 ref. (NAL Call No.: QL461.G4).

0615

A laboratory antifeedant simulation bioassay for phytophagous insects (Green cloverworm larvae, *Plathypena scabra*, soybeans).

Higgins, R.A. Pedigo, L.P. College Park, Entomological Society of America. Journal of economic entomology. Apr 15, 1979. v. 72 (2). p. 238-244. ill. 10 ref. (NAL Call No.: 421 J822).

0616

A laboratory study of *Apanteles marginiventris*, a parasite of green cloverworm (*Plathypena scabra* on soybean in Arkansas).

Kunnalaca, S. Mueller, A.J. College Park, Md., Entomological Society of America. Environmental entomology. Apr 1979. v. 8 (2). p. 365-368. ill. 2 ref. (NAL Call No.: QL461.E532).

0617

Lack of effect of pre-release acclimation on the response of soybean loopers (*Pseudoplusia includens*) (*Lepidoptera: Noctuidae*) to (Z)-7-dodecen-1-OL acetate (pheromone) in the field.

Sharp, J.L. James, J. Athens, Ga., The Society. Journal. Georgia Entomological Society. July 1979. v. 14 (3). p. 263-269. ill. 6 ref. (NAL Call No.: QL461.G4).

0618

Larval and postlarval effects of diflubenzuron on the soybean looper (*Pseudoplusia includens*).

Reed, T. Bass, M.H. College Park, Md., Entomological Society of America. Journal of economic entomology. Apr 1980. v. 73 (2). p. 332-338. ill. 12 ref. (NAL Call No.: 421 J822).

0619

Late season soybean looper (*Lepidoptera: Noctuidae*) population reduction by western palm warblers (*Dendroica palmarum palmarum*, *Pseudoplusia includens*).

Harper, J.D. FETMA. Gainesville : Florida Entomological Society. Florida entomologist. June 1983. v. 66 (2). p. 280-281. Includes references. (NAL Call No.: 420 F662).

0620

Leaf area consumption of cotton, peanuts, and soybeans by adult *Graphognathus peregrinus* and *Graphognathus leucoloma*.

Ottens, R.J. Todd, J.W. College Park, Md., Entomological Society of America. Journal of economic entomology. Feb 15, 1980. v. 73 (1). p. 55-57. ill. 9 ref. (NAL Call No.: 421 J822).

0621

Life history of a predator, *Calleida decora*, and the influence of temperature on development (on soybean looper, *Pseudoplusia includens*).

McWhorter, R.E. Grant, J.F.; Shepard, M. Clemson, S.C. : South Carolina Entomological Society. Journal of agricultural entomology. Jan 1984. v. 1 (1). p. 68-77. ill. Includes references. (NAL Call No.: SB599.J69).

0622

Line up your target pests (Soybeans).

St. Louis, Mo., American Soybean Association. Soybean digest. July/Aug 1980. v. 40 (8). p. 29-30. (NAL Call No.: 60.38 S09).

0623

Lipoxygenase, trypsin inhibitor, and lectin from soybeans: effects on larval growth of *Manduca sexta* (*Lepidoptera: Sphingidae*).

Shukle, R.H. EVETB. Murdock, L.L. College Park : Entomological Society of America. Environmental entomology. June 1983. v. 12 (3). p. 787-791. Includes references. (NAL Call No.: QL461.E532).

0624

Locust leaf miner development on soybean in Virginia (*Odontota dorsalis*).

McPherson, R.M. GENSA. Ravlin, F.W. Athens : The Society. Journal of the Georgia Entomological Society. Jan 1983. v. 18 (1). p. 58-60. Includes references. (NAL Call No.: QL461.G4).

0625

Machismo disease of soybeans (induced by a mycoplasma-like organism). II. Suppressive effects of tetracycline on symptom development (*Scaphytopius fuliginosus* as insect vector).

anada, G.A. Beltsville, Md., Science and Education Administration, U.S. Dept. of Agriculture. Plant disease reporter. Apr 1979. v. 63 (4). p. 309-312. ill. 11 ref. (NAL Call No.: 1.9 P69P).

0626

Managing soybean insects.

Smith, R.H. San Francisco, California Farmer. Agrichemical age. June 1980. v. 24 (6). p. 26-28. ill. (NAL Call No.: 381 AG85).

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0627

A manual for implementing an integrated pest management program for insects in soybean / William A. Allen, Robert M. McPherson.
Allen, William A. (William Albert), 1939. Blacksburg Extension Division, Virginia Polytechnic Institute and State University 1982. Pesticide Applicator Training collection ~"July 1982.". 12 p. : ill. ; 28 cm. -. (NAL Call No.: S544.3.V8V52 no.444-016).

0628

Method for determining age structure of adult populations of the lesser cornstalk borer (Lepidoptera: Pyralidae) (Elasmopalpus lignosellus, peanuts, soybeans, corn, grain sorghum).
Funderburk, J.E. Herzog, D.C.; Lynch, R.E. College Park, Md. : Entomological Society of America. Journal of economic entomology. Apr 1984. v. 77 (2). p. 541-544. ill. Includes references. (NAL Call No.: 421 J822).

0629

Mexican bean beetle / Ohio State University, Cooperative Extension Service.
1981. This discusses the Mexican bean beetle's distribution, appearance, life cycle, damage, chemical and natural control, and the stages of soybean development. Document available from: Ext. Office of Information, Ohio State University, 2120 Fyffe Road, Columbus, OH 43210. 1 sheet : ill. (NAL Call No.: Not available at NAL.). (NAL Call No.: Field Ent Series 21).

0630

Mexican bean beetle control in soybeans, 1979 (Epilachna varivestis).
Hellman, J.L. Curtis, W.; Venables, L.; Newton, P.; Powell, M. College Park : Entomological Society of America. Insecticide and acaricide tests. 1980. v. 5. p. 154-155. (NAL Call No.: SB950.A1I49).

0631

Microorganisms associated with feeding and from various organs of Nezara viridula (capable of transmitting Nematospora coryli, the causative agent of yeast spot disease in soybean).
Ragsdale, D.W. Larson, A.D. College Park, Md., Entomological Society of America. Journal of economic entomology. Oct 1979. v. 72 (5). p. 725-731. ill. 13 ref. (NAL Call No.: 421 J822).

0632

Microspatial distribution of pupal green cloverworms, Plathypena scabra (F.) (Lepidoptera: Noctuidae), in Iowa soybean fields.
Bechinski, E.J. EVETB. Pedigo, P.L. College Park : Entomological Society of America. Environmental entomology. Feb 1983. v. 12 (1). p. 273-276. ill. Includes references. (NAL Call No.: QL461.E532).

0633

Microsporidiosis of coleopterous pests of soybeans.
Brooks, W.M. Montross, D.B.; Sprenkel, R.K.; Carner, G. New York, Academic Press. Journal of invertebrate pathology. Jan 1980. v. 35 (1). p. 93-95. ill. (NAL Call No.: 421 J826).

0634

Modeling the impact of natural enemies on insect pests of soybean (Pest population models, agroecosystems).
Stimac, J.L. SCSBA. O'Neil, R.J. Mississippi State : Mississippi Agricultural and Forestry Experiment Station. Southern cooperative series bulletin. June 1983. Regional Research Project S-74. June 1983. (285). p. 78-87. ill. Includes references. (NAL Call No.: 100 G29S0).

0635

Morphological and physiological parameters of soybean resistance to agromyzid beanflies.
Chiang, H.S. EVETB. Norris, D.M. College Park : Entomological Society of America. Environmental entomology. Feb 1983. v. 12 (1). p. 260-265. Includes references. (NAL Call No.: QL461.E532).

0636

Mortality of Heliothis spp. larvae treated with Heliothis zea nuclear polyhedrosis virus spray adjuvant combinations on cotton and soybean (Biological control).
Luttrell, R.G. GENSA. Yearian, W.C.; Young, S.Y. Athens : The Society. Journal of the Georgia Entomological Society. Oct 1982. v. 17 (4). p. 447-453. Includes references. (NAL Call No.: QL461.G4).

0637

Natural enemies of arthropod pests in soybean / H.N. Pitre, editor.
Pitre, H. N. (Clemson, S.C.?) South Carolina Agricultural Experiment Station 1983. Regional research project S-74 ~"June 1983.". v. 90 p. : ill. ; 28 cm. -. Includes bibliographies. (NAL Call No.: 100 G29S0 no.285).

0638

Natural mortality of lepidopteran eggs and larvae in Missouri soybeans (*Trichoplusia ni*, *Glycine max*).
 Marston, N.L. Hostetter, D.L.; Pinnell, R.E.; Dickerson, W.A.; Smith, D.B. College Park : The Society. Annals of the Entomological Society of America. Jan 1984. v. 77 (1). p. 21-28.
 Includes references. (NAL Call No.: 420 EN82).

0639

New techniques for the aerial release of *Trichogramma pretiosum* (Biological control of Lepidoptera pests on cotton and soybeans).
 Jones, S.L. Morrison, R.K. College Station, Tex., Southwestern Entomological Society. The Southwestern entomologist. Mar 1979. v. 4 (1). p. 14-19. ill. 9 ref. (NAL Call No.: QL461.S65).

0640

Non-movement of cowpea chlorotic mottle virus from cowpea and soybean (*Diabrotica undecimpunctata howardii*, insect vectors).
 Demski, J. Chalkley, J. Beltsville, Md., Science and Education Administration, U.S. Dept. of Agriculture. Plant disease reporter. Sept 1979. v. 63 (9). p. 761-764. ill. 9 ref. (NAL Call No.: 1.9 P69P).

0641

Observations on seasonal developmental of bean leaf beetle, *Cerotoma trifurcata* (Forster) and incidence of bean pod mottle virus in Arkansas soybean.
 Mueller, A.J. Haddox, A.W. Athens, Ga., The Society. Journal of the Georgia Entomological Society. Oct 1980. v. 15 (4). p. 398-403. ill. 9 ref. (NAL Call No.: QL461.G4).

0642

Occurrence of a leafhopper-transmitted disease of soybeans in Louisiana (*Scaphytopius acutus*, possible mycoplasmal disease, soybean bud proliferation, insect vectors).
 Derrick, K.S. Newsom, L.D. St. Paul, Minn. : American Phytopathological Society. Plant disease. Apr 1984. v. 68 (4). p. 343-344. ill. Includes references. (NAL Call No.: 1.9 P69P).

0643

Occurrence of the velvetbean caterpillar (*Anticarsia gemmatilis*) in Mississippi: winter survival or immigration (Soybeans).
 Buschman, L.L. Pitre, H.N.; Hovermale, C.H.; Edwards, N.C. Jr. College Park, Md., Entomological Society of America. Environmental entomology. Feb 1981. v. 10 (1). p. 45-52.

maps. 19 ref. (NAL Call No.: QL461.E532).

0644

***Odontota horni*, a hispine leaf miner adapted to soybean feeding in Illinois.**
 Kogan, M. Kogan, D.D. College Park, Md., The Society. Annals Entomological Society of America. July 15, 1979. v. 72 (4). p. 456-461. ill. 15 ref. (NAL Call No.: 420 EN82).

0645

Optimal control of crop-pest interactions: a simulation approach (Soybean and insect growth models).
 Tucker, T.E. Zavaleta, L.R.; Liebman, J.S. Pittsburgh : School of Engineering, University of Pittsburgh. Annual Pittsburgh Conference on Modeling and Simulation. 1983. v. 14 (pt.1/2). p. 181-186. ill. Includes references. (NAL Call No.: TA343.P5).

0646

Overwintering behavior and spring colonization of soybean by the bean leaf beetle (*Coleoptera:Chrysomelidae*) in Illinois (*Cerotoma trifurcata*).
 Jeffords, M.R. EVETB. Helm, C.G.; Kogan, M. College Park : Entomological Society of America. Environmental entomology. Oct 1983. v. 12 (5). p. 1459-1463. Includes references. (NAL Call No.: QL461.E532).

0647

Ovicidal effect of some insecticides on the eggs of the girdle-beetle, *Oberea brevis* Swed. (*Coleoptera: Lamiidae*) on soybean.
 Singh, D.P. Jakhmola, S.S. New Delhi, Indian Council of Agricultural Research. Indian journal of agricultural sciences. Nov 1978. v. 48 (11). p. 669-671. ill. 4 ref. (NAL Call No.: 22 AG83I).

0648

Oviposition preference of the seedcorn maggot (*Hylemya platura*) for various developmental stages of soybeans (Includes also lima beans).
 Ibrahim, Y.B. Hower, A.A. Jr. Baltimore, Entomological Society of America. Journal of economic entomology. Feb 15, 1979. v. 72 (1). p. 64-66. ill. 8 ref. (NAL Call No.: 421 J822).

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0649

Oviposition sites of *Orius insidiosus* (Say) and *Nabis* spp. in soybean (Hemiptera: Anthocoridae and Nabidae) (USA).

Isenhour, D.J. Yeargan, K.V. Lawrence, Kan., The Society. Journal of the Kansas Entomological Society. Jan 1982. v. 55 (1). p. 65-72. ill. Includes 12 ref. (NAL Call No.: 420 K13).

0650

Ovipositional and feeding preference of leafhoppers (*Empoasca fabae*) (Homoptera: Cicadellidae) on Clark soybeans in relation to plant pubescence.

Robbins, J.C. Daugherty, D.M. Manhattan. Journal Kansas Entomological Society. July 1979. v. 52 (3). p. 603-608. ill. 9 ref. (NAL Call No.: 420 K13).

0651

Parasites (*Apanteles marginiventris*, Rogas *nolophanae*) of green cloverworm (*Plathypena scabra*) on soybean in Arkansas.

Mueller, A.J. Kunnalaca, S. College Park, Md., Entomological Society of America. Environmental entomology. Apr 1979. v. 8 (2). p. 376-379. ill. 12 ref. (NAL Call No.: QL461.E532).

0652

Parasites of lepidopterous larvae in insect resistant susceptible soybeans in South Carolina.

McCutcheon, G.S. Turnipseed, S.G. College Park, Md., Entomological Society of America. Environmental entomology. Feb 1981. v. 10 (1). p. 69-74. 13 ref. (NAL Call No.: QL461.E532).

0653

Parasites of the green cloverworm (Lepidoptera: Noctuidae) on soybeans in Ohio (*Plathypena scabra*, biological control of insect pests).

Hammond, R.B. EVETB. College Park : Entomological Society of America. Environmental entomology. Feb 1983. v. 12 (1). p. 171-173. Includes references. (NAL Call No.: QL461.E532).

0654

Parasitism and predation (mainly by *Telenomus podisi*) of stink bug (*Ascrosternum hilare*, *Euschistus* sp., *Podisus maculiventris*) eggs in soybean and alfalfa fields (Kentucky).

Yeargan, K.V. College Park, Md., Entomological Society of America. Environmental entomology. Aug 1979. v. 8 (4). p. 715-719. ill. 10 ref. (NAL Call No.: QL461.E532).

0655

Partial life tables of the green cloverworm (Lepidoptera: Noctuidae) in soybean and a hypothesis of population dynamics in Iowa (*Plathypena scabra*).

Pedigo, L.P. EVETB: Bechinski, E.J.; Higgins, R.A. College Park : Entomological Society of America. Environmental entomology. Feb 1983. v. 12 (1). p. 186-195. Includes references. (NAL Call No.: QL461.E532).

0656

Pest control as a production constraint for grain crops and soybeans in the United States to 1990 / J.C. Headley.

Headley, J. C. Columbia, Mo. University of Missouri-Columbia, College of Agriculture, Agricultural Experiment Station 1981. Cover title. 74 p. : maps ; 23 cm. -. Bibliography: p. 52-53. (NAL Call No.: 100 M693 (3) no. 1038).

0657

Pest control in soybeans -- 1982.

Doersch, R. E. Harvey, R. G.; Wedberg, J. L.; Grau, C. R.; Kenney, J. F. 1982. Topics included in this publication are: applying pesticides, weed control, insect and disease control. Document available from: University of Wisconsin, Agricultural Bulletin Building, 1535 Observatory Drive, Madison, Wisconsin 53706. 35 p. (NAL Call No.: Not available at NAL.). (NAL Call No.: A2782).

0658

Pest control in soybeans, 1980.

Doersch, R.E. WI. Doll, J.D.; Harvey, R.G.; Wedberg, J.L.; Grau, C.R. Madison, Wis., The Programs. Publication - Cooperative Extension Programs. University of Wisconsin - Extension. Wisconsin. University. Cooperative Extension Programs. Jan 1980. Jan 1980. (A2782). 28 p. (NAL Call No.: S544.3.W6W53).

0659

Pest control in soybeans, 1981 (Weeds, insects, diseases).

Doersch, R.E. Doll, J.D.; Harvey, R.G.; Wedberg, J.L.; Grau, C.R. Madison, Wis., The Programs. Publication - Cooperative Extension Programs, University of Wisconsin Extension. Jan 1981. (A2782). 28 p. (NAL Call No.: S544.3.W6W53).

0660

Pest (insects, diseases, weeds) control in soybeans--1979.

Doersch, R.E. Doll, J.D. Madison, Wis., The Programs. Publication - Cooperative Extension Programs. University of Wisconsin - Extension. Wisconsin. University. Cooperative Extension Programs. Jan 1979. Jan 1979. (A2782). 23 p. ill. (NAL Call No.: S544.3.W6W53).

0661

Pesticide effects on natural enemies (of soybean pests).

Van Duyn, J.W.SCSBA. McLeod, P.J. Mississippi State : Mississippi Agricultural and Forestry Experiment Station. Southern cooperative series bulletin. June 1983. Regional Research Project S-74. June 1983. (285). p. 56-62. Includes references. (NAL Call No.: 100 G29S0).

0662

Phenolic and tannin contents as related to anatomical parameters of soybean resistance to agromyzid bean flies (*Melanagromyza sojae*, *Ophiomyia centrosematis*, *Ophiomyia phaseoli*).

Chiang, H.S.JAFCA. Norris, D.M. Washington : American Chemical Society. Journal of agricultural and food chemistry. July/Aug 1983. v. 31 (4). p. 726-730. ill. Includes references. (NAL Call No.: 381 J8223).

0663

Plusiinae (Lepidoptera: Noctuidae) populations in Louisiana soybean ecosystems as determined with loop lure-baited traps (*pseudoplusia includens*, *Rachiplusia ou*, *Trichoplusia spp.*). Alford, A.R. Hammond, A.M. Jr. College Park, Entomological Society of America. Journal of economic entomology. Aug 1982. v. 75 (4). p. 647-650. ill. 17 ref. (NAL Call No.: 421 J822).

0664

Podworm, soybean looper, and green cloverworm control on soybeans with synthetic pyrethroids and *Bacillus thuringiensis*, 1981 (*Heliothis zea*, *Pseudoplusia includens*, *Plathypena scabra*).

Herbert, D.A. Harper, J.D. College Park : Entomological Society of America. Insecticide and acaricide tests. 1982. v. 7. p. 183. (NAL Call No.: SB950.A1I49).

0665

Population dispersion and development of sampling plans for *Orius insidiosus* and *Nabis* spp. in soybeans (Iowa).

Bechinski, E.J. Pedigo, L.P. College Park, Md., Entomological Society of America. Environmental entomology. Dec 1981. v. 10 (6). p. 956-959. ill. Includes 1 p. ref. (NAL Call No.: QL461.E532).

0666

Population dynamics of the southern green stink bug (Heteroptera: Pentatomidae) in relation to soybean phenology (*Nezara viridula*, Georgia).

Schumann, F.W. Todd, J.W. College Park, Entomological Society of America. Journal of economic entomology. Aug 1982. v. 75 (4). p. 748-753. ill. 11 ref. (NAL Call No.: 421 J822).

0667

Populations of corn earworm (*Heliothis zea*) and associated predators (*Orius insidiosus*, *Greocoris punctipes* and *Nabis* spp., beneficial insects) after applications of certain soil-applied pesticides to soybeans (Integrated pest control).

Morrison, D.E. Bardley, J.R. Jr. Baltimore, Entomological Society of America. Journal of economic entomology. Feb 15, 1979. v. 72 (1). p. 97-100. ill. 11 ref. (NAL Call No.: 421 J822).

0668

Potato leafhopper control in glabrous and pubescent soybean isolines, 1981 (*Empoasca fabae*).

Ostlie, K.R. Higgins, R.; Pedigo, L. College Park : Entomological Society of America. Insecticide and acaricide tests. 1982. v. 7. p. 189-190. (NAL Call No.: SB950.A1I49).

0669

Predaceous arthropods found in soybean in Louisiana (*Glycine max*, potential biocontrol agents).

Goyer, R.A.PLAAA. Brown, D.W.; Chapin, J.B. (s.l.) : The Academy. The proceedings of the Louisiana Academy of Sciences. 1983. v. 46. p. 29-33. Includes references. (NAL Call No.: 500 L932).

0670

Predation by *Orius insidiosus* on the soybean thrips, *Sericothrips variabilis*: Effect of prey stage and density.

Isenhour, D.J. Yeargan, K.V. College Park, Md., Entomological Society of America. Environmental entomology. Aug 1981. v. 10 (4). p. 496-500. 17

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ref. (NAL Call No.: QL461.E532).

0671

Preference of day-old bollworms (*Heliothis zea*) (Lepidoptera: Noctuidae) for selected parts of soybean plant.

Bailey, J.C. Manhattan. Journal Kansas Entomological Society. July 1979. v. 52 (3). p. 621-622. ill. (NAL Call No.: 420 K13).

0672

Preference of five species of Noctuidae for feeding-stimulant adjuvants (*Trichoplusia ni*, *Pseudoplusia includens*, *Anticarsia gemmatilis*, *Heliothis virescens*, *Spodoptera frugiperda*, soybeans, microbial insecticides).

Richter, A.R. Fuxa, J.R. Athens, Ga. : The Society. Journal of the Georgia Entomological Society. July 1984. v. 19 (3). p. 383-387. Includes 12 references. (NAL Call No.: QL461.G4).

0673

Preliminary soybean looper resistance study (*Pseudoplusia includens*, soybean breeding lines).

Harville, B.G. Smith, C.M.; Green, A. Baton Rouge : The Department. Report of projects - Louisiana Agricultural Experiment Station, Department of Agronomy. 1982. 1982. p. 273-274. (NAL Call No.: 100 L936).

0674

Private eyes detect yield robbers (of soybeans, insect and diseases).

Marking, S. Abbott, S. St. Louis, Mo., American Soybean Association. Soybean digest. May/June 1979. v. 39 (7). p. 16-f-16-g. ill. (NAL Call No.: 60.38 S09).

0675

Pubescence as a major factor in the resistance of soybean genotypes to oviposition and damage by the corn earworm *Heliothis zea* (Boddie).

Panda, Niranjana. Ann Arbor, Mich. University Microfilms 1970. Thesis--University of Missouri, 1969. xii, 137 leaves. Bibliography: leaves (120)-126. (NAL Call No.: DISS 70-6,619).

0676

"Purple stem," a new indicator of soybean stem resistance to bean flies (Diptera: Agromyzidae) (*Ophiomyia centrosematis*).

Chiang, H.S. Norris, D.M. College Park, Md. : Entomological Society of America. Journal of economic entomology. Feb 1984. v. 77 (1). p. 121-125. ill. Includes references. (NAL Call No.: 421 J822).

0677

Pyrethroids blast (soybean) insects.

Ehmke, V. St. Louis, Mo., American Soybean Association. Soybean digest. July/Aug 1980. v. 40 (8). p. 285. (NAL Call No.: 60.38 S09).

0678

Quantitative assessment of the predators of *Nezara viridula* eggs and nymphs within a soybean agroecosystem using an ELISA (enzyme linked immunosorbent assay, Natural control).

Ragsdale, D.W. Larson, A.D.; Newsom, L.D. College Park, Md., Entomological Society of America. Environmental entomology. June 1981. v. 10 (3). p. 402-405. 10 ref. (NAL Call No.: QL461.E532).

0679

Rate of intake, growth and digestibility of three lepidopterous insects (*Spodoptera litura*, *Diacrisia obliqua* and *Plusia orichalcea*) on soybean and green gram.

Babu, M.H. Bhattacharya, A.K. Hamburg, Paul Parey. Zeitschrift fur angewandte Entomologie. Mar 1979. v. 87 (3). p. 322-327. ill. 17 ref. (NAL Call No.: 421 Z36).

0680

Rates of feeding by four lepidopterous defoliators of soybeans (*Pseudoplusia includens*, *Anticarsia gemmatilis*, *Prodenia ornithogalli*, *Heliothis virescens*).

King, E.W. Athens, Ga., The Society. Journal of the Georgia Entomological Society. July 1981. v. 16 (3). p. 283-288. Bibliography p. 287-288. (NAL Call No.: QL461.G4).

0681

Ratios for predicting field populations of soybean insects and spiders from sweep-net samples (Missouri).

Marston, N.J. Eena, Davis, D.G.; Gebhardt, M. College Park : Entomological Society of America. Journal of economic entomology. Dec 1982. v. 75 (6). p. 976-981. ill. 1 p. ref. (NAL Call No.: 421 J822).

0682

The red imported fire ant as a predator of the southern green stink bug on soybean in Georgia (*Solenopsis invicta*, *Nezara viridula*, biological control).

Krispyn, J.W. Todd, J.W. Athens, Ga., The Society. Journal of the Georgia Entomological Society. Jan 1982. v. 17 (1). p. 19-26. ill. Includes 12 ref. (NAL Call No.: QL461.G4).

0683

Red imported fire ants: detection of feeding on corn, okra and soybeans with radiosotopes (*Solenopsis invicta*).

Smittle, B.J.GENSA. Adams, C.T.; Lofgren, C.S. Athens : The Society. Journal of the Georgia Entomological Society. Jan 1983. v. 18 (1). p. 78-82. Includes references. (NAL Call No.: QL461.G4).

0684

Reduced yield of soybeans in fields infested with the red imported fire ant, *Solenopsis invicta* Buren.

Lofgren, C.S. Adams, C.T. Gainesville, Florida Entomological Society. Florida entomologist. Mar 1981. v. 64 (1). p. 199-202. 3 ref. (NAL Call No.: 420 F662).

0685

Relationships among *Sericothrips variabilis*, systemic insecticides, and soybean yield (in Illinois).

Irwin, M.E. Kuhlman, D.E. Athens. Journal Georgia Entomological Society. Apr 1979. v. 14 (2). p. 148-154. ill. 13 ref. (NAL Call No.: QL461.G4).

0686

Residual activity of selected insecticides against the adult Mexican bean beetle (*Coleoptera:Coccinellidae*) on soybeans (*Epilachna varivestis*, *Glycine max*).

Dobrin, G.C.JEENAI. Hammond, R.B. College Park : Entomological Society of America. Journal of economic entomology. Dec 1983. v. 76 (6). p. 1456-1459. Includes references. (NAL Call No.: 421 J822).

0687

Resistance in soybeans to the southern green stink bug (*Nezara viridula*, U.S., particularly in Louisiana and other Gulf Coast states).

Gilman, D.F. McPherson, R.M.; Newsom, L.D.; Herzog, D.C.; Williams, C. Madison, Wis., Crop Science Society of America. Crop science. May/June 1982. v. 22 (3). p. 573-576. 15 ref. (NAL Call No.: 64.8 C883).

0688

Resistance of soybean cultivars and plant introductions to damage by soybean borer (*Etiella zinckenella*).

Sichkar, V.I. Grikun, D.A.; Lobko, V.N.; Marj'ushkin, V.F. Ames : The Service. Soybean genetics newsletter - United States, Agricultural Research Service. Apr 1983. v. 10. p. 117-123. Includes references. (NAL Call No.: aSB205.S7S6).

0689

Resistance to Mexican bean beetle (*Epilachna varivestis*) and corn earworm (*Heliothis zea*) in soybean genotypes derived from PI 227687.

Smith, C.M. Brim, C.A. Madison, Crop Science Society of America. Crop science. May/June 1979. v. 19 (3). p. 313-314. ill. 8 ref. (NAL Call No.: 64.8 C883).

0690

Role of host plants in population dynamics of stink bug pests of soybean in South Carolina (*Glycine max*).

Jones, W.A. Sullivan, M.J. College Park, Md., Entomological Society of America. Environmental entomology. Aug 1982. v. 11 (4). p. 867-875. ill. 18 ref. (NAL Call No.: QL461.E532).

0691

Role of natural enemies in integrated pest management (Soybean pests, control alternatives).

Pitre, H.N.SCSBA. Edwards, C.R.; Harper, J.D.; Bledsoe, L.W. Mississippi State : Mississippi Agricultural and Forestry Experiment Station. Southern cooperative series bulletin. June 1983. Regional Research Project S-74. June 1983. (285). p. 88-90. Includes references. (NAL Call No.: 100 G295D).

0692

Sampling methods for grape colaspis larvae in Arkansas soybean/rice fields.

Mayse, M.A. AR. Tugwell, N.P. Fayetteville, University of Arkansas Agricultural Experiment Station. Arkansas farm research. May/June 1980. v. 29 (3). p. 10. ill. (NAL Call No.: 100 AR42F).

0693

Sampling methods in soybean entomology / edited by M. Kogan and D. C. Herzog.

Kogan, Marcos.; ed.; Herzog, Donald C.; ed. New York Springer Verlag 1980. xxiii, 587 p. : ill., maps. -. Includes bibliographies and index. (NAL Call No.: SB608.S7S25).

(PESTS OF PLANTS - INSECTS)

0694

Sampling predators, parasites and entomopathogens (Natural control agents of pests of soybeans, United States).
Shepard, M.SCSBA. Marston, N.; Carner, G. Mississippi State : Mississippi Agricultural and Forestry Experiment Station. Southern cooperative series bulletin. June 1983. Regional Research Project S-74. June 1983. (285). p. 20-31. Includes references. (NAL Call No.: 100 G29S0).

0695

Sampling seedcorn maggots, *Hylemya platura* Meigen (Diptera: Anthomyiidae), in soybeans.
Funderburk, J.E. Pedigo, L.P. Lawrence, Kan., The Society. Journal of the Kansas Entomological Society. July 1980. v. 53 (3). p. 625-626. ill. (NAL Call No.: 420 K13).

0696

Screening for cyst nematode resistance in soybean breeding (*Heterodera glycines*).
Anand, S.C. Brar, G.S.; Gallo, K. Ames : The Service. Soybean genetics newsletter - United States, Agricultural Research Service. Apr 1983. v. 10. p. 63-66. Includes references. (NAL Call No.: aSB205.S7S6).

0697

Seasonal cycles of soybean arthropods in Missouri: effect of pesticidal and cultural practices (Biological control, integrated pest management).
Marston, N.L. Thomas, G.D. College Park, Md., Entomological Society of America. Environmental entomology. Feb 15, 1979. v. 8 (1). p. 165-173. ill. 27 ref. (NAL Call No.: QL461.E532).

0698

Seasonal distribution of *Trichogramma* (Hymenoptera: Trichogrammatidae) species associated with a Maryland soybean field (*Heliothis virescens*, biological control).
Thorpe, K.W. College Park, Md. : Entomological Society of America. Environmental entomology. Feb 1984. v. 13 (1). p. 127-132. Includes references. (NAL Call No.: QL461.E532).

0699

Seedcorn maggot (Diptera: Anthomyiidae) emergence in conventional and reduced-tillage soybean systems in Iowa (*Hylemya platura*).
Funderburk, J.E. Pedigo, L.P.; Berry, E.C. College Park, Md. : Entomological Society of America. Journal of economic entomology. Feb 1983. v. 76 (1). p. 131-134. Includes references. (NAL Call No.: 421 J822).

0700

Sequential count and decision plans for sampling green cloverworm (Lepidoptera: Noctuidae) larvae in soybean (*Plathypena scabra*).
Bechinski, E.J. JEENA. Buntin, G.D.; Pedigo, L.P.; Thorvilson, H.G. College Park : Entomological Society of America. Journal of economic entomology. Aug 1983. v. 76 (4). p. 806-812. Includes references. (NAL Call No.: 421 J822).

0701

Serological detection of bean pod mottle virus in bean leaf beetles (*Ceratoma trifurcata*, soybeans, *Glycine max*).
Ghabrial, S.A. PHYTA. Schultz, F.J. St. Paul : American Phytopathological Society. Phytopathology. Mar 1983. v. 73 (3). p. 480-483. Includes references. (NAL Call No.: 464.8 P56).

0702

A simulative approach to controlling Mexican bean beetle on soybeans in Maryland.
Reichelderfer, Katherine. College Park, Md. Maryland Agricultural Experiment Station, University of Maryland 1978. iii, 52 p. : ill. -. Bibliography: p. 50-52. (NAL Call No.: 100 M36M No.38).

0703

Socio-economic factors relating to the IFA (Imported Fire Ant) and its management (*Solenopsis*, pests of livestock, fruits, vegetables, hay, soybeans, agricultural losses).
Headley, J.C. Aspelin, A.; Adams, C.T.; Brooks, T.; Brown, R.E. (Washington, D.C.?) : U.S. Dept. of Agriculture, APHIS, 1982. Proceedings of the Symposium on the Imported Fire Ant, June 7-10, 1982, Atlanta American Hotel, Atlanta, Georgia / editor S.L. Battenfield. p. 41-50.5. Includes references. (NAL Call No.: SB945.F535S9 1982).

0704

Soil application of *Pseudoplusia* NPV (nuclear polyhedrosis virus): persistence and incidence of infection in soybean looper (*Pseudoplusia includens*) caged on soybean.
Young, S.Y. Yearian, W.C. College Park, Md., Entomological Society of America. Environmental entomology. Oct 1979. v. 8 (5). p. 860-864. ill. 14 ref. (NAL Call No.: QL461.E532).

0705

Soybean, aerial insecticide application for control of Mexican bean beetle and bean leaf beetle and evaluation of effects of treatments on predators and parasites, 1978 (*Epilachna varivestis*, *Ceratomya trifurcata*). Hellman, J.L. Dively, G.; Azarion, G.; Burtman, J. College Park : Entomological Society of America. Insecticide and acaricide tests. 1980. v. 5. p. 155-156. (NAL Call No.: SB950.A1I49).

0706

Soybean and mite interaction: effects of cultivar and plant growth stage (*Tetranychus urticae*). Rodriguez, J.G. JKESA. Reicosky, D.A.; Patterson, C.G. Lawrence : The Society. Journal of the Kansas Entomological Society. July 1983. v. 56 (3). p. 320-326. Includes references. (NAL Call No.: 420 K13).

0707

Soybean as a host for the leafminer Sumitrosis rosea (Coleoptera:Chrysomelidae). Ruesink, W.G. College Park, Md. : Entomological Society of America. Journal of economic entomology. Feb 1984. v. 77 (1). p. 108-109. ill. Includes references. (NAL Call No.: 421 J822).

0708

Soybean breeding for resistance to foliage feeding arthropods. Paschal, E.H. II. TX-AR-SO. Rogers, C.E. College Station, Tex., The Station. MP - Texas Agricultural Experiment Station. July 1980. July 1980. (1451). p. 390-397. Bibliography p. 396-397. (NAL Call No.: 100 T31M).

0709

Soybean cultural practices: effects on populations of geocorids, nabids, and other soybean arthropods (*Geocoris punctipes*, *Nabis* spp., *Glycine max*). Buschman, L.L. Pitre, H.N.; Hodges, H.F. College Park, Md. : Entomological Society of America. Environmental entomology. Feb 1984. v. 13 (1). p. 305-317. Includes references. (NAL Call No.: QL461.E532).

0710

Soybean cultural practices: effects on populations of green cloverworm (*Plathypena scabra*), velvetbean caterpillar (*Anticarsia gemmatilis*), loopers and *Heliothis* complex (*Mississippi*). Buschman, L.L. Pitre, H.N.; Hodges, H.F. College Park, Md., Entomological Society of

America. Environmental entomology. Oct 15, 1981. v. 10 (5). p. 631-641. ill. 16 ref. (NAL Call No.: QL461.E532).

0711

Soybean insect control--1981. Johnson, D.W. Lexington, Ky., The Service. ENT - University of Kentucky, Cooperative Extension Service. Nov 1980. Nov 1980. (ENT-13). 6 p. (NAL Call No.: 275.29 K415E).

0712

Soybean insect control recommendations-1981. Edwards, Richard C. Matthew, David L. & Field crops insects. Document available from: Purdue University, Publication Mailing Room, 301 South Second Street, Lafayette, Indiana, 47905 1980. Lists a table consisting of pest, material, amount per acre, placement and time of pesticide application for soybean insect control. 4 p. : ill. (NAL Call No.: Document available from source.). (NAL Call No.: E-77).

0713

Soybean insect management guidelines number 1 -- corn earworms / John C. Smith and Robert M. McPherson. Smith, John C. Blacksburg Extension Division, Virginia Polytechnic Institute and State University 1984. Pesticide Applicator Training collection ~Caption title ~"February 1984.". 2 p. : ill. ; 28 cm. -. (NAL Call No.: S544.3.V8V52 no.444-041 1984).

0714

Soybean insect management guidelines number 2 - Mexican bean beetles / Robert M. McPherson and John C. Smith. McPherson, Robert M. Blacksburg Extension Division, Virginia Polytechnic Institute and State University 1984. Pesticide Applicator Training collection ~Caption title ~"February 1984.". 2 p. : ill. ; 28 cm. -. (NAL Call No.: S544.3.V8V52 no.444-042 1984).

0715

Soybean insect management guidelines number 3 - stink bugs / Robert M. McPherson and John C. Smith. McPherson, Robert M. Blacksburg Extension Division, Virginia Polytechnic Institute and State University 1983. Pesticide Applicator Training collection ~Caption title ~"August 1983.". 2 p. : ill. ; 28 cm. -. (NAL Call No.: S544.3.V8V52 no.444-043).

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0716

Soybean insect management guidelines, number 4 -- bean leaf beetles / Robert M. McPherson.
McPherson, Robert M. Blacksburg Extension Division, Virginia Polytechnic Institute and State University 1984. Pesticide Applicator Training collection ~Caption title ~"February 1984.". 2 p. : ill. ; 28 cm. -. (NAL Call No.: S544.3.V8V52 no.444-044).

0717

Soybean insect management guidelines number 5 - green cloverworms / Robert M. McPherson.
McPherson, Robert M. Blacksburg Extension Division, Virginia Polytechnic Institute and State University 1983. Pesticide Applicator Training collection ~Caption title ~"May 1983.". 2 p. : ill. ; 28 cm. -. (NAL Call No.: S544.3.V8V52 no.444-045).

0718

Soybean insect management guidelines, number 6 -- Spider mites / John C. Smith and Robert M. McPherson.
Smith, John C. Blacksburg Extension Division, Virginia Polytechnic Institute and State University 1984. Pesticide Applicator Training collection ~Caption title ~"February 1984.". 2 p. : ill. ; 28 cm. -. (NAL Call No.: S544.3.V8V52 no.444-046).

0719

Soybean insect management guidelines number 7 - natural enemies / Holly J. Ferguson and Robert M. McPherson.
Ferguson, Holly J. Blacksburg Extension Division, Virginia Polytechnic Institute and State University 1983. Pesticide Applicator Training collection ~Caption title ~"May 1983.". 2 p. : ill. ; 28 cm. -. (NAL Call No.: S544.3.V8V52 no.444-047).

0720

Soybean insect management guidelines, number 8 -- Trap crops / Robert M. McPherson.
McPherson, Robert M. Blacksburg Extension Division, Virginia Polytechnic Institute and State University 1983. Pesticide Applicator Training collection ~Caption title ~"July 1983.". 3 p. : ill. ; 28 cm. -. (NAL Call No.: S544.3.V8V52 no.444-048).

0721

Soybean insect pest management for Virginia / Robert M. McPherson and John C. Smith.
McPherson, Robert M. Blacksburg Extension Division, Virginia Polytechnic Institute and State University 1984. Pesticide Applicator Training collection ~"March 1984.". 10 p. : ill. ; 28 cm. -. (NAL Call No.: S544.3.V8V52 no.444-040 1984).

0722

Soybean insect pests.
Van Duyn, J.W. Hunt, T.N. Raleigh, N.C., The Service. AG - North Carolina State University, Agricultural Extension Service. May 1980. May 1980. (214). 25 p. ill. (NAL Call No.: S544.3.N6N62).

0723

Soybean insect survey and control in Oklahoma.
Pinkston, K. Hill, B. Stillwater : The Service. OSU extension facts - Cooperative Extension Service, Oklahoma State University. Feb 1983. Feb 1983. (7167 rev.). 2 p. (NAL Call No.: S544.3.0505).

0724

Soybean insect survey and control in Oklahoma.
Pinkston, K. Hill, B. Stillwater. O.S.U. extension facts. Science serving agriculture Oklahoma State University. Cooperative Extension Service. May 1979. May 1979. (7167). 2 p. (NAL Call No.: S544.3.0505).

0725

Soybean insects.
Brooks, L. Manhattan, Kan., The Service. C. Kansas State University. Cooperative Extension Service. May 1978. May 1978. (449). p. 18-19. ill. (NAL Call No.: 275.29 K13EX).

0726

Soybean insects.
Brooks, L. Manhattan, Kan., The Service. C - Kansas State University. Cooperative Extension Service. May 1982. May 1982. (449). p. 20-21. ill. (NAL Call No.: 275.29 K13EX).

0727

Soybean insects : identification and management in Illinois / Marcos Kogan, Donald E. Kuhlman.
Kogan, Marcos. Kuhlman, Donald E. Urbana, Ill. Agricultural Experiment Station, College of Agriculture, University of Illinois at Urbana-Champaign 1982. "February, 1982". 58 p.

: ill. (some col.) ; 28 cm. -. (NAL Call No.: 100 IL6S (1) no.773).

0728

Soybean integrated pest management for insects presented by Virginia Tech Extension ; (authors, Robert M. McPherson, William A. Allen).

McPherson, Robert M. Allen, William A.; (William Albert),; 1939. (Blacksburg, Va.) Virginia Polytechnic Institute and State University (1981?). Pesticide Applicator Training Collection. 71 slides : col. + 1 sound cassette (20 mins.) + 1 script. (NAL Call No.: Slide no.30).

0729

Soybean IPM (Integrated pest management, Virginia).

Carnahan, W.B. Washington, D.C., The Administration. Extension review - United States Department of Agriculture, Science and Education Administration. Spring 1982. v. 53 (2). p. 6-7. ill. (NAL Call No.: 1 EX892EX).

0730

Soybean pest monitoring form / Iowa State University.

Document available from: Iowa State University, Publications Distribution, Printing & Publications Bldg., Ames, Iowa 50011 1981. This publication is a sheet to record the pests encountered during a monitoring period. Categories include crop, weather, insects, diseases, and weeds. 3 p. : ill. (NAL Call No.: Document available from source.). (NAL Call No.: IPM-5).

0731

Soybean pests and indigenous natural enemies (Biological control, integrated pest management, southern United States).

Turnipseed, S.SCSBA. Kogan, M. Mississippi State : Mississippi Agricultural and Forestry Experiment Station. Southern cooperative series bulletin. June 1983. Regional Research Project S-74. June 1983. (285). p. 1-6. Includes references. (NAL Call No.: 100 G29SD).

0732

Soybean resistance to adults of lucerne crown borer, *Zygrita diva* Thomson (Coleoptera: Cerambycidae).

Shepard, M. Keerati-Kasikorn, M.; Blood, P.R.B.; Morgan, D. Athens, Ga., The Society. Journal of the Georgia Entomological Society. Jan 1981. v. 16 (1). p. 34-40. ill. 13 ref. (NAL Call No.: QL461.G4).

0733

Soybean resistance to the southern green stink bug, *Nezara viridula*.

Jones, W.A. Jr. Sullivan, M.J. College Park, Md., Entomological Society of America. Journal of economic entomology. Aug 15, 1979. v. 72 (4). p. 628-632. ill. 11 ref. (NAL Call No.: 421 J822).

0734

Soybean seed quality losses associated with bean leaf beetles and *Alternaria tenuissima* (*Glycine max*, *Ceratomya trifurcata*).

Shortt, B.J. Sinclair, J.B.; Helm, C.G.; Jeffords, M.R.; Kogan, M. St. Paul, American Phytopathological Society. Phytopathology. June 1982. v. 72 (6). p. 615-618. ill. 11 ref. (NAL Call No.: 464.8 P56).

0735

Soybeans--a 'new' insect pest (Bean leaf beetle).

Witkowski, J.F. Lincoln, The Station. Farm, ranch and home quarterly - Nebraska Agricultural Experiment Station. Spring 1982. v. 29 (1). p. 8-9. ill. (NAL Call No.: 100 N27N).

0736

Soybeans and the mexican bean beetle.

Edwards, Richard C. Matthew, David L. & Field crops insects. Document available from: Purdue University, Publication Mailing Room, 301 South Second Street, Lafayette, Indiana 47905 1980. Includes mexican bean beetle description, feeding habits and control. 4 p. : ill. (NAL Call No.: Document available from source.). (NAL Call No.: E-76).

0737

Spatial and seasonal patterns of phytophagous thrips (*Sericothrips variabilis*, *Frankliniella tritici*) in soybean fields with comments on sampling techniques.

Irwin, M.E. Yeargan, K.V. College Park, Md., Entomological Society of America. Environmental entomology. Feb 15, 1979. v. 8 (1). p. 131-140. ill. 11 ref. (NAL Call No.: QL461.E532).

0738

Spatial differences in *Heliothis zea* egg density and the intensity of parasitism by *Trichogramma* spp.: an experimental analysis (in cultivated soybean).

Morrison, G. 100-AR-SD. Lewis, W.J.; Nordlund, N.A. College Park, Md., Entomological Society of America. Environmental entomology. Feb 1980. v. 9 (1). p. 79-85. ill. 21 ref. (NAL Call No.:

(PESTS OF PLANTS - INSECTS)

QL461.E532).

0739

Spatial distribution and sequential sampling of Mexican bean beetle defoliation on soybeans (*Epilachna varivestis*, Maryland).

Bellinger, R.G. Dively, G.P. II.; Douglass, L.W. College Park, Md., Entomological Society of America. Environmental entomology. Dec 1981. v. 10 (6). p. 835-841. ill. Includes 12 ref. (NAL Call No.: QL461.E532).

0740

Studies of the stem borer, *Dectes texanus*, on soybeans in Issaquena County, Mississippi, 1978.

Laster, M.L. Tupper, G.R.; Hartwig, E.E.; Thom, W.O. Mississippi State, The Station. Research report - Mississippi Agricultural & Forestry Experiment Station. July 1981. v. 6 (3). 3 p. (NAL Call No.: S79.E37).

0741

The stylet sheath as an indicator of feeding activity by the southern green stink bug (*Nezara viridula*) on soybeans.

Bowling, C.C. College Park, Md., Entomological Society of America. Journal of economic entomology. Feb 15, 1980. v. 73 (1). p. 1-3. ill. 14 ref. (NAL Call No.: 421 J822).

0742

Survivorship of experimental green cloverworm (*Lepidoptera: Noctuidae*) pupal cohorts in soybeans (*Plathypena scabra*).

Bechinski, E.J. EVETB. Bechinski, J.F.; Pedigo, L.P. College Park : Entomological Society of America. Environmental entomology. June 1983. v. 12 (3). p. 662-668. ill. Includes references. (NAL Call No.: QL461.E532).

0743

Susceptibility of the velvetbean caterpillar and soybean looper (*Lepidoptera: Noctuidae*) to *Nomuraea rileyi*: effects of pathotype, dosage, temperature, and host age (*Anticarsia gemmatilis*, *Pseudoplusia includens*, Entomopathogenic fungus).

Boucias, D.G. Bradford, D.L.; Barfield, C.S. College Park, Md. : Entomological Society of America. Journal of economic entomology. Feb 1984. v. 77 (1). p. 247-253. Includes references. (NAL Call No.: 421 J822).

0744

Systems for controlling sicklepod in soybeans (*Cassia obtusifolia*).

Walker, R.H. Whitwell, T.; Haris, J.R.; Thurlow, D.L.; McGuire, J.A. Auburn, The Station. Highlights of agricultural research - Alabama, Agricultural Experiment Station. Spring 1981. v. 28 (1). p. 18. (NAL Call No.: 100 AL1H).

0745

Tactics for management of soybean pest complexes: potential of entomopathogens and commercial microbial insecticides for suppression of the silver-spotted skipper soybean pest (*Epargyreus clarus*, biocontrol).

Brooks, C.B. Ames : The Service. Soybean genetics newsletter - United States, Agricultural Research Service. Apr 1983. v. 10. p. 51-52. Includes references. (NAL Call No.: aSB205.S7S6).

0746

Temperature modification of female sex pheromone release in *Trichoplusia ni* (Hubner) and *Pseudoplusia includens* (Walker) (*Lepidoptera: Noctuidae*) (Cabbage and soybean loopers).

Alford, A.R. Hammond, A.M. Jr. College Park, Md., Entomological Society of America. Environmental entomology. Aug 1982. v. 11 (4). p. 889-892. ill. 12 ref. (NAL Call No.: QL461.E532).

0747

Testing soybeans for resistance to spider mites (*Tetranychus urticae*).

Carlson, E.C. Beard, B.H. Berkeley, The Station. California agriculture. California. Agricultural Experiment Station. Sept 1979. v. 33 (9). p. 9-11. ill. (NAL Call No.: 100 C12CAG).

0748

Tillage systems for Illinois (Includes pest and disease control for maize, soybeans, wheat).

Siemens, J.C. Shurtleff, M.C. Urbana, Ill., The Service. Circular. Illinois. University. Cooperative Extension Service. June 1979. June 1979. (1172). 22 p. ill. 1 ref. (NAL Call No.: 275.29 IL62C).

0749

Time-sequential sampling: a new use of the sequential probability ratio test for pest management decisions (Integrated pest management, *Plathypena scabra*, *Glycine max*).
 Pedigo, L.P. Van Schaik, J.W. College Park, Md. : The Society. Bulletin of the Entomological Society of America. Spring 1984. v. 30 (1). p. 32-36. Includes references. (NAL Call No.: 423.9 EN8).

0750

Use of imported natural enemies against insect pests of soybean (Biological control, prospects for future introductions, USA, includes history of importations).

Jones, W.A. Jr. SCSBA. Young, S.Y.; Shepard, M.; Whitcomb, W.H. Mississippi State : Mississippi Agricultural and Forestry Experiment Station. Southern cooperative series bulletin. June 1983. Regional Research Project S-74. June 1983. (285). p. 63-77. Includes references. (NAL Call No.: 100 G29S0).

0751

Velvetbean caterpillar control on soybeans with *Bacillus thuringiensis*, 1980 (*Anticarsia gemmatilis*).

Harper, J.D. Herbert, D.A. College Park : Entomological Society of America. Insecticide and acaricide tests. 1982. v. 7. p. 181-182. (NAL Call No.: SB950.A1I49).

0752

1980 Kansas field crop insect control recommendations.

Brooks, Leroy. Gates, Dell E. 1980. First this publication discusses some safety tips for using insecticides, then it discusses the control of insects attacking alfalfa, corn, sorghum, wheat, and soybeans. It also includes a list of the Poison Control Information Centers in Kansas. Document available from: Distribution Center, Umberger Hall, Kansas State University, Manhattan, KS 66506. 27 p. (NAL Call No.: C 431).

0753

1981 Kansas field crops insect control recommendations.

Brooks, Leroy. Gates, Dell E. 1981. First this publication discusses some safety tips for using insecticides, then it discusses the control of insects attacking alfalfa, corn, sorghum, wheat, and soybeans. It also includes a list of the Poison Control Information Centers in Kansas. Document available from: Distribution Center, Umberger Hall, Kansas State University, Manhattan, KS 66506. 28 p. (NAL Call No.: C 431).

0462 0463

Application of island biogeographic theory to pests of cultivated crops (Arthropoda on *Aspartina alterniflora* in northwest Florida salt marshes and on soybeans in Illinois). Application of island biogeographic theory to pests of cultivated crops (Arthropoda on *Aspartina alterniflora* in northwest Florida salt marshes and on soybeans in Illinois).
 Rey, J.R. Rey, J.R. McCoy, E.D. McCoy, E.D. College Park, Md., Entomological Society of America. College Park, Md., Entomological Society of America. Environmental entomology. Environmental entomology. Aug 1979. Aug 1979. v. 8 (4). v. 8 (4). p. 577-582. ill. p. 577-582. ill. 22 ref. 22 ref. (NAL Call No.: QL461.E532). (NAL Call No.: QL461.E532).

0488 0489

Comparative development, reproduction, and leaf area consumption by Mexican bean beetles (*Epilachna varivestis*) on *Phaseolus* spp. (kidney beans, lima beans) and soybeans. Comparative development, reproduction, and leaf area consumption by Mexican bean beetles (*Epilachna varivestis*) on *Phaseolus* spp. (kidney beans, lima beans) and soybeans.
 Bernhardt, J.L. Bernhardt, J.L. Shepard, M. Shepard, M. Athens, Ga., The Society. Athens, Ga., The Society. Journal. Georgia Entomological Society. Journal. Georgia Entomological Society. July 1979. July 1979. v. 14 (3). v. 14 (3). p. 191-198. ill. p. 191-198. ill. 13 ref. 13 ref. (NAL Call No.: QL461.G4). (NAL Call No.: QL461.G4).

0552 0553

The effects of two host plant species (soybeans, lima beans) and phenology on three population parameters of adult Mexican bean beetle (*Epilachna varivestis*) in North Carolina. The effects of two host plant species (soybeans, lima beans) and phenology on three population parameters of adult Mexican bean beetle (*Epilachna varivestis*) in North Carolina.
 Lockwood, D.F. Lockwood, D.F. Rabb, R.L. Rabb, R.L. Athens, Ga., The Society. Athens, Ga., The Society. Journal. Georgia Entomological Society. Journal. Georgia Entomological Society. July 1979. July 1979. v. 14 (3). v. 14 (3). p. 220-229. ill. p. 220-229. ill. 10 ref. 10 ref. (NAL Call No.: QL461.G4). (NAL Call No.: QL461.G4).

PESTS OF PLANTS - NEMATODES

0754

Breeding productive soybean cultivars resistant to the soybean cyst nematode (*Heterodera glycines*) for the southern United States.
Hartwig, E.E. St. Paul, Minn., American Phytopathological Society. Plant disease. Apr 1981. v. 65 (4). p. 303-307. 16 ref. (NAL Call No.: 1.9 P69P).

0755

Breeding resistance to soybean diseases (Includes nematode resistance).
St. Paul : The Station. Minnesota science - Minnesota, Agricultural Experiment Station. 1983. v. 38 (3). p. 7. ill. (NAL Call No.: 100 M668).

0756

Chemotaxis of larval soybean cyst nematode, *Heterodera glycines* race 3, to root leachates and ions.
Papademetriou, M.K. JCECD. Bone, L.W. New York : Plenum Press. Journal of chemical ecology. Mar 1983. v. 9 (3). p. 387-396. ill. Includes references. (NAL Call No.: QD415.A1J6).

0757

Combinations of anhydrous ammonia and ethylene dibromide for control of nematodes parasitic of soybeans.
Rodriguez-Kabana, R. King, P.S.; Pope, M.H. Gainesville, Fla., Organization of Tropical American Nematologists. Nematropica. June 1981. v. 11 (1). p. 27-41. ill. 23 ref. (NAL Call No.: SB998.N4N4).

0758

Combinations of anhydrous ammonia and 1,3-dichloropropenes for control of root-knot nematodes in soybean (*Meloidogyne*).
Rodriguez-Kabana, R. Shelby, R.A.; King, P.S.; Pope, M.H. Gainesville, Fla., Organization of Tropical American Nematologists. Nematropica. June 1982. v. 12 (1). p. 61-69. 18 ref. (NAL Call No.: SB998.N4N4).

0759

Comparison of in-furrow applications and banded treatments for control of *Meloidogyne arenaria* in peanuts and soybeans (USA).
Rodriguez-Kabana, R. King, P.S.; Pope, M.H. Gainesville, Fla., Organization of Tropical American Nematologists. Nematropica. June 1981. v. 11 (1). p. 53-67. 15 ref. (NAL Call No.: SB998.N4N4).

0760

Comparison of methods of application with two systemic nematicides for control of root-knot nematodes in peanut and soybean.
Rodriguez-Kabana, R. Shelby, R.A.; King, P.S.; Pope, M.H. Gainesville, Fla., Organization of Tropical American Nematologists. Nematropica. June 1982. v. 12 (1). p. 97-109. 27 ref. (NAL Call No.: SB998.N4N4).

0761

Comparison of 3 soybean cyst nematode resistance genes from two sources.
Myers, D. Jr. Unander, D.W. Carbondale, Ill., Southern Illinois University. AG review Southern Illinois University. School of Agriculture. 1981. 1981. p. PL5566. (NAL Call No.: S537.S556).

0762

Control of Columbia lance nematode for soybeans, 1979 (*Glycine max* 'Bragg'), lance nematode; *Hoplolaimus columbus*.
Blackman, C.W. (s.l.), The Society. Fungicide and nematicide tests; results - American Phytopathological Society. 1980. v. 35. p. 229-230. (NAL Call No.: 464.9 AM31R).

0763

Control of cyst nematode on soybean in Virginia, 1982 (*Heterodera glycines* on *Glycine max*).
Phipps, P.M. FNETD. Elliott, A.P. (s.l.) : The Society. Fungicide and nematicide tests : results - American Phytopathological Society. 1983. v. 38. p. 10. (NAL Call No.: 464.9 AM31R).

0764

The control of nematodes injurious to soybean.
Kinloch, R.A. Gainesville, Fla., Organization of Tropical American Nematologists. Nematropica. Oct 1980. Literature review. v. 10 (2). p. 141-153. ill. Bibliography p. 150-153. (NAL Call No.: SB998.N4N4).

0765

Control of nematodes on soybeans with planting-time applications of ethylene dibromide (USA).
Rodriguez-Kabana, R. Penick, H.W.; King, P.S.; Gray, F.A.; Carden, E.L.; McDaniel, N.R.; Selman, F.B.; Ivey, H.W. Gainesville, Fla., Organization of Tropical American Nematologists. Nematropica. Apr 1979. v. 9 (1). p. 61-66. 8 ref. (NAL Call No.: SB998.N4N4).

0766

Control of peanut root-knot nematode for soybeans, 1979 (Soybean (*Glycine max* 'Davis' and 'Govan'), peanut root-knot nematode; *Meloidogyne arenaria*).

Blackman, C.W. (s.l.), The Society. Fungicide and nematocide tests; results - American Phytopathological Society. 1980. v. 35. p. 230. (NAL Call No.: 464.9 AM31R).

0767

Control of plant parasitic nematodes on soybean in Virginia, 1981 (Soybean (*Glycine max* 'Essex'), root-knot nematode; *Meloidogyne* sp., stunt nematode; *Tylenchorhynchus* sp.).

Phipps, P.M. Elliott, A.P. (s.l.), The Society. Fungicide and nematocide tests; results - American Phytopathological Society. 1982. v. 37. p. 199-200. (NAL Call No.: 464.9 AM31R).

0768

Control of plant parasitic nematodes on soybean, 1979 (Soybean (*Glycine max* 'Essex'), root-knot nematode; *Meloidogyne hapla*, spiral nematode; *Helicotylenchus* sp., cyst nematode; *Heterodera glycines*).

Phipps, P.M. Fox, J.A. (s.l.), The Society. Fungicide and nematocide tests; results - American Phytopathological Society. 1980. v. 35. p. 231. (NAL Call No.: 464.9 AM31R).

0769

Control of soybean cyst nematode with chemicals and a resistant variety, 1979 and 1980 (Soybean (*Glycine max* 'Amsoy 7L', 'Franklin'), soybean cyst nematode; *Heterodera glycines*).

Bergeson, G.B. (s.l.), The Society. Fungicide and nematocide tests; results - American Phytopathological Society. 1982. v. 37. p. 198-199. (NAL Call No.: 464.9 AM31R).

0770

Control of soybean cyst nematode, 1981 (*Heterodera glycines* infesting *Glycine max*).

Hussey, R.S.FNETD. Boerma, H.R.; Finnerty, S.L. (s.l.): The Society. Fungicide and nematocide tests : results - American Phytopathological Society. 1983. v. 38. p. 8-9. (NAL Call No.: 464.9 AM31R).

0771

Control of soybean cyst nematode, 1982 (*Heterodera glycines* on *Glycine max*).

Wrather, J.A.FNETD. (s.l.): The Society. Fungicide and nematocide tests : results - American Phytopathological Society. 1983. v. 38. p. 12. (NAL Call No.: 464.9 AM31R).

0772

Control of soybean damping-off with four fungicides with and without Nematrol at Sonora, 1975 (Soybean (*Glycine max*), damping off; *Rhizoctonia solani*, *Pythium* sp., nematodes; *Meloidogyne* spp., *Pratylenchus* spp.).

Anda R., V. de. Silva Z., J. (s.l.), The Society. Fungicide and nematocide tests; results - American Phytopathological Society. 1980. v. 35. p. 109. (NAL Call No.: 464.9 AM31R).

0773

Control of soybean damping-off with Terrazan in presence and absence of Nematrol, 1975 (Soybean (*Glycine max*), damping off; *Rhizoctonia solani*, *Pythium* sp., *fusarium* sp., nematodes; *Meloidogyne* spp., *Pratylenchus* spp.).

Anda R., V. de. Silva Z., J. (s.l.), The Society. Fungicide and nematocide tests; results - American Phytopathological Society. 1980. v. 35. p. 109-110. (NAL Call No.: 464.9 AM31R).

0774

Control of soybean damping-off with three fungicides in presence and absence of Nematrol at Sinaloa, 1975 (Soybean (*Glycine max*), damping off; *Rhizoctonia solani*, *Pythium* sp., *Fusarium* sp., nematodes; *Meloidogyne* spp., *Pratylenchus* spp.).

Anda R., V. de. Silva Z., J. (s.l.), The Society. Fungicide and nematocide tests; results - American Phytopathological Society. 1980. v. 35. p. 110. (NAL Call No.: 464.9 AM31R).

0775

Control of the Columbia lance nematode on soybean, 1980 (Soybeans (*Glycine max* 'Bragg', 'Davis', 'Centennial'), Columbia lance nematode; *Hoplolaimus columbus*).

Blackmon, C.W. (s.l.), The Society. Fungicide and nematocide tests; results - American Phytopathological Society. 1981. v. 36. p. 185-186. (NAL Call No.: 464.9 AM31R).

0776

Control of the root-lesion nematode (*Pratylenchus penetrans*) associated with soybeans, 1979 (Soybean (*Glycine max*), root-lesion nematode; *Pratylenchus penetrans*). Elliott, A.P. Bird, G.W.; Davenport, J. (s.l.), The Society. Fungicide and nematocide tests; results - American Phytopathological Society. 1980. v. 35. p. 230. (NAL Call No.: 464.9 AM31R).

(PESTS OF PLANTS - NEMATODES)

0777

Control of the soybean-cyst nematode.

Riggs, R.D. AR. Fayetteville, The Station. Arkansas farm research - Arkansas, Agricultural Experiment Station. Mar/Apr 1980. v. 29 (2). p. 3. ill. (NAL Call No.: 100 AR42F).

0778

Cotton-soybean rotation for reniform nematode control (*Rotylenchulus reniformis*, resistant cultivars, cultivars, Louisiana).

Williams, C.LAXBA. Gilman, D.F.; Jones, J.E.; Birchfield, W. Baton Rouge : The Station. Bulletin - Louisiana Agricultural Experiment Station. Jan 1983. Jan 1983. (741). 22 p. Includes references. (NAL Call No.: 100 L93 (1)).

0779

Cover crops and soybean cyst nematode (*Heterodera glycines*, *Vicia villosa*).

Riggs, R.D. Fayetteville, Ark., The Station. Arkansas farm research - Arkansas Agricultural Experiment Station. Nov/Dec 1980. v. 29 (6). 16 p. ill. (NAL Call No.: 100 AR42F).

0780

Cut harvest woes (Soybeans, nematodes).

Abbott, S. St. Louis, Mo., American Soybean Association. Soybean digest. Sept/Oct 1980. v. 40 (9). p. 225. (NAL Call No.: 60.38 S09).

0781

Cyst nematode screening methods, indexes and their use (*Heterodera glycines*, soybeans, resistance).

Beatty, K.D. Riggs, R.D.; Widick, D.; Caviness, C.E.; Eldridge, I.L.; Hancock, F.; Davis, J. Ames : The Service. Soybean genetics newsletter - United States, Agricultural Research Service. Apr 1983. v. 10. p. 17-20. (NAL Call No.: aSB205.S7S6).

0782

Damage and reproductive potentials of *Pratylenchus brachyurus* and *Pratylenchus penetrans* on soybean.

Schmitt, D.P. Barker, K.R. Ames, Iowa, Society of Nematologists. Journal of nematology. July 1981. v. 13 (3). p. 327-332. ill. 22 ref. (NAL Call No.: QL391.N4J62).

0783

Damage thresholds for nematodes on soybean for the 1983 growing season (Soil sampling methods).

Schmitt, D.P. Barker, K.R. Raleigh : The Service. AG - North Carolina Agricultural Extension Service, North Carolina State University. June 1982. June 1982. (288). 4 p. ill. Includes references. (NAL Call No.: S544.3.N6N62).

0784

Description of *Hoplolaimus magnistylus* n. sp. (Nematoda: Hoplolaimidae) (found in soil about roots of soybean in Arkansas and Mississippi).

Robbins, R.T. JONEB. Ames : Society of Nematologists. Journal of nematology. Oct 1982. v. 14 (4). p. 500-506. ill. Includes references. (NAL Call No.: QL391.N4J62).

0785

Dispersion and distribution of *Pratylenchus scribneri* and *Hoplolaimus galeatus* in soybean fields (Indiana).

Alby, T. Ferris, J.M.; Ferris, V.R. Ames, Iowa : Society of Nematologists. Journal of nematology. July 1983. v. 15 (3). p. 418-426. ill. Includes references. (NAL Call No.: QL391.N4J62).

0786

Early planting of soybeans in cyst-infested soil and the effects on the size and number of nodules (Nematodes, rhizobium, inhibition).

Pacumbaba, R.P. Sapra, V.T. Normal : The School. Annual research report - School of Agriculture. Environmental Science and Home Economics. Alabama Agricultural and Mechanical University. 1983. 1983. (12th). p. 91-94. ill. Includes references. (NAL Call No.: S537.A2A34).

0787

Economic analysis of alternative controls of the soybean cyst nematode in Southern Illinois.

Reis, R.P. Noel, G.R.; Swanson, E.R. Urbana, Ill., The Department. Extract: In this report we illustrate the economic logic of analyzing various control methods for soybean cyst nematode. They are: soybean variety, crop sequence, use of a nematicide, and fertilization. Unfortunately there was no single experimental data base which had considered all of these control methods and the potential interactions among them. Consequently it was necessary to synthesize from various sources a set of soybean yield data reflecting the yield consequences of the various control measures. Illinois agricultural economics staff paper, series E, agricultural economics - Dept. of Agricultural Economics, University of

Illinois. Dec 1981. Dec 1981. (81 E-203). 17 p.
12 ref. (NAL Call No.: 916937(AGE)).

0788

Economic analysis of the impact of registration cancellation of 1,2-dibromo-3-chloropropane (DBCP).

Schmidt, K.M. Swanson, E.R. Urbana, Ill., The Department. Extract: Three methods were used to evaluate the impact of cancellation of the registration of DBCP as a nematicide on the 1,830,000 acres of soybeans treated with DBCP in 1977. The first two methods specified use patterns for substitutes and also made specific assumptions about the relative efficacy of the nematicides. Economic impact estimates were made without ethylene dibromide (EDB) as an alternative and with EDB as an alternative. Illinois agricultural economics staff paper, series E, agricultural economics - Dept. of Agricultural Economics, University of Illinois. Apr 1981. Apr 1981. (81 E-161). 51 p. 51 ref. (NAL Call No.: 916937(AGE)).

0789

Economic impact of registration of ethylene dibromide (EDB) for use on soybeans.

Schmidt, K.M. Swanson, E.R. Urbana, Ill., The Department. Extract: Estimates of the economic impact of federal registration of EDB for use as a nematicide on soybeans were developed for two scenarios. Scenario I assumes that EDB is limited to soybean acreage presently treated with other fumigant nematicides. This limit was removed in Scenario II to allow EDB to be substituted for both fumigants and systemic nematicides. The total welfare impact in terms of changes in producers' rents plus consumers' surplus was estimated with a simulation model (AGSIM). These impacts were measured by the present value of an infinite series of future changes resulting from the registration of EDB. Estimated present value of the total welfare gains from the Section 24(c) exemptions is about 700 million dollars with approximately an additional one percent gain from a nation-wide registration. Illinois agricultural economics staff paper, series E agricultural economics - Dept. of Agricultural Economics, University of Illinois. Apr 1981. Apr 1981. (82 E-218). 87 p. Bibliography p. 69-87. (NAL Call No.: 916937(AGE)).

0790

Effect of nematicides and application method on the soybean cyst nematode and soybean yield, 1982 (Heterodera glycines on Glycine max).

Elliott, A.FNETD. Phipps, P.M.; Babineau, D.; Taylor, J. (s.l.): The Society. Fungicide and nematicide tests : results - American Phytopathological Society. 1983. v. 38. p. 8. (NAL Call No.: 464.9 AM31R).

0791

Effect of nematicides and application methods on sting nematode (Belonolaimus longicaudatus) control, root nodulation, and yield of soybeans.

Rhoades, H.L. n.p., The Society. Proceedings - Soil and Crop Science Society of Florida. 1980. v. 39. p. 90-92. 8 ref. (NAL Call No.: 56.9 S032).

0792

Effect of nematicides on crop yield and control of soybean cyst nematode, 1980 (Soybean (Glycine max 'Corsoy', 'L-76-129', and 'L-76-141'), soybean cyst nematode; Heterodera glycines).

Zirakparvar, M.E. Norton, D.C.; Nyvall, R. (s.l.), The Society. Fungicide and nematicide tests; results - American Phytopathological Society. 1981. v. 36. p. 187. (NAL Call No.: 464.9 AM31R).

0793

Effect of the soybean cyst nematode on soybean production under different management systems (Continuous cropping, 1976-1981, Mississippi).

Hartwig, E.E. Buehring, N.; Young, L.D. Mississippi State : The Station. MAFES research highlights - Mississippi Agricultural & Forestry Experiment Station. Apr 1983. v. 46 (4). p. 6-7. (NAL Call No.: 100 M69MI).

0794

Effect of the soybean cyst nematode upon soybean production under different management systems (Continuous cropping of resistant or susceptible soybean varieties, Mississippi).

Hartwig, E.E. RRMSD. Buehring, N.; Young, L.D. Mississippi State : The Station. Research report - Mississippi Agricultural and Forestry Experiment Station. Aug 1982. v. 7 (9). 4 p. (NAL Call No.: S79.E37).

0795

Effect of time lapse on pathogenicity and population dynamics of Pratylenchus alleni and Pratylenchus scribneri in soybeans.

Acosta, N. Gainesville, Fla., Organization of Tropical American Nematologists. Nematropica. Oct 1980. v. 10 (2). p. 75-80. ill. 8 ref. (NAL Call No.: SB998.N4N4).

(PESTS OF PLANTS - NEMATODES)

0796

Effect of upper-profile soil water potential on numbers of cysts of heterodera glycines on soybeans.

Heatherly, L.G. Young, L.D.; Epps, J.M.; Hartwig, E.E. Madison, Wis., Crop Science Society of America. Crop science. July/Aug 1982. v. 22 (4). p. 833-835. ill. 30 ref. (NAL Call No.: 64.8 C883).

0797

Effects of applications of nematicides and insecticides at planting on nematode populations and soybean yields (Louisiana).

Bachiredy, V.R. Payne, R. Jr. Baton Rouge, La. : The University. Research bulletin - Southern University. Sept 1, 1983. v. 5 (1). p. 38-55. Includes references. (NAL Call No.: S539.5.R42).

0798

Effects of continuous culture of resistant soybean cultivars on soybean cyst nematode reproduction (Heterodera glycines, Glycine max, Tennessee).

Young, L.D. St. Paul, Minn. : American Phytopathological Society. Plant disease. Mar 1984. v. 68 (3). p. 237-239. Includes references. (NAL Call No.: 1.9 P69P).

0799

Effects of natural selection in segregating soybean populations exposed to Phytophthora rot or soybean cyst nematode (Phytophthora megasperma, Heterodera glycines, breeding programs).

Hartwig, E.E. Kilen, T.C.; Young, L.D.; Edwards, C.J. Jr. Madison, Wis., Crop Science Society of America. Crop science. May/June 1982. v. 22 (3). p. 588-590. 6 ref. (NAL Call No.: 64.8 C883).

0800

Effects of one and two applications of nematicides on nematode populations and soybean yields.

Minton, N.A. AR-SO. Parker, M.B.; Perry, C.E. Ames, Iowa, Society of Nematologists. Journal of nematology. Oct 1980. v. 12 (4). p. 294-299. 12 ref. (NAL Call No.: QL391.N4J62).

0801

Effects of systemic insecticide-nematicides on midseason pest and predator populations in soybean (Cerotoma trifurcata, Empoasca fabae, sericothrips variabilis, Heterodera glycines). Lentz, G.L. JEENA. Chambers, A.Y.; Hayes, R.M. College Park : Entomological Society of

America. Journal of economic entomology. Aug 1983. v. 76 (4). p. 836-840. Includes references. (NAL Call No.: 421 J822).

0802

Effects on soybeans and nematode populations (Helicotylenchus sp., Meloidogyne incognita, Paratrichodorus christiei) of three soil fumigants (1,3-dichloropropene, Nemacur, Soilbrom) applied at several rates at time of planting (USA).

Minton, N.A. Parker, M.B. Gainesville, Fla., Organization of Tropical American Nematologists. Nematropica. Apr 1979. v. 9 (1). p. 36-39. 6 ref. (NAL Call No.: SB998.N4N4).

0803

Efficacy of planting-time applications of 1,3-dichloropropene for control of nematodes on soybeans (USA).

Rodriguez-Kabana, R. Penick, H.W.; King, P.S.; Gray, F.A.; Carden, E.L.; McDaniel, N.R.; Selman, F.B. Gainesville, Fla., Organization of Tropical American Nematologists. Nematropica. Apr 1979. v. 9 (1). p. 66-71. 13 ref. (NAL Call No.: SB998.N4N4).

0804

Efficacy of Temik for control of plant parasitic nematodes associated with soybean, 1982 (Belonolaimus sp., Meloidogyne sp., Hoplolaimus galeatus, Glycine max).

Elliott, A.FNETD. Babineau, D.; Phipps, P. (s.l.) : The Society. Fungicide and nematicide tests : results - American Phytopathological Society. 1983. v. 38. p. 7. (NAL Call No.: 464.9 AM31R).

0805

Evaluation of nematicides and resisant cultivar for control of soybean cyst nematode race 4 (Heterodera glycines).

Epps, J.M. Young, L.D.; Hartwig, E.E. St. Paul, Minn., American Phytopathological Society. Plant disease. Aug 1981. v. 65 (8). p. 665-666. 8 ref. (NAL Call No.: 1.9 P69P).

0806

Evaluation of nematicides and resistant varieties for control of soybean cyst nematodes, 1981-82 (Heterodera glycines, Glycine max).

Bergeson, G.B.FNETD. (s.l.) : The Society. Fungicide and nematicide tests : results - American Phytopathological Society. 1983. v. 38. p. 6-7. (NAL Call No.: 464.9 AM31R).

0807

Evaluation of nematicides for control of root-knot (*Meloidogyne* spp.) and cyst (*Heterodera glycines*) nematodes in soybeans.
Rodriguez-Kabana, R. AL. Mawhinney, P.G.
Auburn, The Station. Highlights of agricultural research. Alabama. Agricultural Experiment Station. Spring 1980. v. 27 (1). p. 16-17. ill. (NAL Call No.: 100 AL1H).

0808

Evaluation of selected soybean cultivars in a field infested with *Meloidogyne arenaria* and *Heterodera glycines*.
Rodriguez-Kabana, R. Thurlow, D.L. Gainesville, Fla., Organization of Tropical American Nematologists. Nematropica. Apr 1980. v. 10 (1). p. 50-55. 12 ref. (NAL Call No.: SB998.N4N4).

0809

Evaluation of selected soybean lines for nematode resistance.
Harville, B. Wellemeyer, E. Baton Rouge, La., The Department. Report of projects - Louisiana Agricultural Experiment Station, Department of Agronomy. 1982. 1982. p. 143-145. (NAL Call No.: 100 L936).

0810

Factors influencing egg hatching of the soybean cyst nematode *Heterodera glycines* race 3 (*Glycine max*).
Tefft, P.M. PHSWA. Rende, J.F.; Bone, L.W.
Washington, D.C. : The Society. Proceedings - Helminthological Society of Washington. July 1982. v. 49 (2). p. 258-265. Includes references. (NAL Call No.: 436.9 H36).

0811

Field evaluation of soybean lines to Wartell race of root-knot nematode (Resistance).
Harville, B.G. Dunigan, E.P.; Birchfield, W.; Green, A. Baton Rouge : The Department. Report of projects - Louisiana Agricultural Experiment Station, Department of Agronomy. 1982. 1982. p. 266-267. (NAL Call No.: 100 L936).

0812

Fungi associated with several developmental stages of *Heterodera glycines* from an Alabama soybean field soil (Natural nematode control).
Gintis, B.O. Morgan-Jones, G.; Rodriguez-Kabana, R. Auburn, Ala. : Organization of Tropical American Nematologists. Nematropica. Dec 1983. Literature review. v. 13 (2). p. 181-200. ill. Includes references. (NAL Call No.:

SB998.N4N4).

0813

Genetics of the cyst nematode-soybean symbiosis (*Heterodera glycines*, *Glycine max*).
Luedders, V.D. PHYTA. St. Paul : American Phytopathological Society. Phytopathology. June 1983. Presented at the Symposium on Genetic Aspects of Breeding for Resistance Against Soilborne Plant Pathogens, the 74th Annual Meeting of the American Phytopathological Society, Salt Lake City, Utah, August 10, 1982. v. 73 (6). p. 944-948. Includes references. (NAL Call No.: 464.8 P56).

0814

A greenhouse screening procedure for root-knot nematode (*Meloidogyne incognita*) resistance in soybeans (Genotypes).
Hussey, R.S. Boerma, H.R. Madison, Wis., Crop Science Society of America. Crop science. Sept/Oct 1981. v. 21 (5). p. 794-796. ill. 8 ref. (NAL Call No.: 64.8 C883).

0815

Gregg: a new soybean variety (resistant to the soybean cyst nematode).
Harville, B.G. LDAGA. Elkins, W.M.; Green, M.A.; Hall, W. Baton Rouge : The Station. Louisiana agriculture - Louisiana Agricultural Experiment Station. Fall 1983. v. 27 (1). p. 9. ill. (NAL Call No.: 100 L939).

0816

Herbicide effects in nematode diseases (*Meloidogyne incognita*, soybeans, tomatoes).
Osman, A.A. Viglierchio, D.R. Ames, Iowa, Society of Nematologists. Journal of nematology. Oct 1981. v. 13 (4). p. 544-546. 12 ref. (NAL Call No.: QL391.N4J62).

0817

Host-parasite and life history studies of the lance nematode (*Hoplolaimus columbus* Sher) 1963 on soybean (*Glycine Max* (L) Merrill) / by Fred Harrison Smith.
Smith, Fred Harrison, 1926. 1969. Thesis (Ph.D.)--University of Georgia, 1969. Photocopy. Ann Arbor, Mich. : University Microfilms, 1971. 33 leaves ; 21 cm. Bibliography: leaves 31-33. (NAL Call No.: DISS 71-3,783).

(PESTS OF PLANTS - NEMATODES)

0818

Host range of *Pratylenchus hexincisus* and its pathogenicity on corn, soybean, and tomato.
Zirakparvar, M.E. St. Paul, Minn., American Phytopathological Society. *Phytopathology*. Aug 1980. v. 70 (8). p. 749-753. ill. 15 ref. (NAL Call No.: 464.8 P56).

0819

Identification of additional soybean germ plasm with resistance to race 3 of the soybean cyst nematode (*Heterodera glycines*, cultivars).
Anand, S.C. Gallo, K.M. St. Paul, Minn. : American Phytopathological Society. *Plant disease*. July 1984. v. 68 (7). p. 593-595. Includes references. (NAL Call No.: 1.9 P69P).

0820

Influence of *Heterodera glycines* on leghemoglobins of soybean nodules (Cyst nematodes, *Glycine max*, effect on nitrogen fixing efficiency).
Huang, J.S.PHYTA. Barker, K.R. St. Paul : American Phytopathological Society. *Phytopathology*. July 1983. v. 73 (7). p. 1002-1004. ill. Includes references. (NAL Call No.: 464.8 P56).

0821

Influence of inoculum level and temperature on pathogenicity and population development of lesion nematodes on soybean (*Glycine max*, *Pratylenchus alleni*, *Pratylenchus scribneri*).
Acosta, N.NMTPA. Auburn : Organization of Tropical American Nematologists. *Nematropica*. Dec 1982. v. 12 (2). p. 189-197. Includes references. (NAL Call No.: SB998.N4N4).

0822

Influence of maize rotations on the yield of soybean grown in *Meloidogyne incognita* infested soil (Root-knot nematode, cultivars, southeastern USA).
Kinloch, R.A. Ames, Iowa : Society of Nematologists. *Journal of nematology*. July 1983. v. 15 (3). p. 398-405. Includes references. (NAL Call No.: QL391.N4J62).

0823

Influence of Nemacur and Soilbrom on southern root-knot nematode and soybean yield, 1981 (*Meloidogyne incognita*, *Glycine max*).
Kinloch, R.A.FNETD. (s.l.) : The Society. Fungicide and nematicide tests : results - American Phytopathological Society. 1983. v. 38. p. 9. (NAL Call No.: 464.9 AM31R).

0824

Influence of Nemacur 15G and cultivation practices on plant parasitic nematodes associated with soybean, 1982 (*Meloidogyne sp.*, *Belonolaimus sp.*, *Glycine max*).
Elliott, A.FNETD. Babineau, D.; Phipps, P.; Harris, C.; Meredith, S. (s.l.) : The Society. Fungicide and nematicide tests : results - American Phytopathological Society. 1983. v. 38. p. 7-8. (NAL Call No.: 464.9 AM31R).

0825

Influence of nematicides on peanut root-knot nematode and soybean yield, 1980 (*Meloidogyne arenaria*, *Glycine max*).
Kinloch, R.A.FNETD. (s.l.) : The Society. Fungicide and nematicide tests : results - American Phytopathological Society. 1983. v. 38. p. 9. (NAL Call No.: 464.9 AM31R).

0826

Influence of nematicides on the reproduction of soybean cyst nematode and soybean yield, 1982 (*Heterodera glycines*, *Glycine max*).
Stuckey, R.E.FNETD. Chapman, R.A.; Wilcox, W.F.; Clinton, W. (s.l.) : The Society. Fungicide and nematicide tests : results - American Phytopathological Society. 1983. v. 38. p. 11. (NAL Call No.: 464.9 AM31R).

0827

Influence of nematicides on the soybean cyst nematode and soybean yield, 1981 (*Soybean* (*Glycine max* 'Essex'), soybean cyst nematode; *Heterodera glycines*).
Elliott, A.P. Phipps, P.; Thompson, J.; Niles, J.R.; Riddick, J.; Harris, C.; Meredith, S. (s.l.), The Society. Fungicide and nematicide tests; results - American Phytopathological Society. 1982. v. 37. p. 199. (NAL Call No.: 464.9 AM31R).

0828

Influence of Temik and Soilbrom on southern root-knot nematode and soybean yield, 1981 (*Meloidogyne incognita* infesting *Glycine max*).
Kinloch, R.A.FNETD. (s.l.) : The Society. Fungicide and nematicide tests : results - American Phytopathological Society. 1983. v. 38. p. 10. (NAL Call No.: 464.9 AM31R).

0829

Infra-species variation in reactions to hosts in *Heterodera glycines* populations (*Soybean* cyst nematodes).
Riggs, R.D. Hamblen, M.L.; Rakes, L. Ames, Iowa, Society of Nematologists. *Journal of nematology*. Apr 1981. v. 13 (2). p. 171-179.

111. 18 ref. (NAL Call No.: QL391.N4J62).

0830

Inheritance of reaction to the reniform nematode (*Rotylenchulus reniformis*) in soybean. Williams, C. Gilman, D.F.; Fontenot, D.S.; Birchfield, W. Madison, Wis., Crop Science Society of America. Crop science. Jan/Feb 1981. v. 21 (1). p. 93-94. 11 ref. (NAL Call No.: 64.8 C883).

0831

Injury by *Pratylenchus penetrans* alone and in combination with selected soil fungi to seedling soybeans / by Paige L. Taylor. Taylor, Paige L. (Paige Lea), 1942. 1971. Thesis (Ph.D)--Purdue University, 1971. Photocopy. Ann Arbor, Mich. : University Microfilms, 1971. viii, 66 leaves ; 21 cm. Bibliography: leaves 60-65. (NAL Call No.: DISS 71-20,554).

0832

Interaction of fensulfotion and phorate with preemergence herbicides on soybean parasitic nematodes.

Schmitt, D.P. Corbin, F.T. Ames, Iowa, Society of Nematologists. Journal of nematology. Jan 1981. v. 13 (1). p. 37-41. 14 ref. (NAL Call No.: QL391.N4J62).

0833

Interactions between a vesicular-arbuscular mycorrhizal fungus (*Glomus macrocarpus*) and root-knot nematode (*Meloidogyne incognita*) on soybean.

Kellam, M.K. Schenck, N.C. St. Paul, Minn., American Phytopathological Society. Phytopathology. Apr 1980. v. 70 (4). p. 293-296. 111. 21 ref. (NAL Call No.: 464.8 P56).

0834

Interactions of plant-parasitic nematodes and ozone and sulfur dioxide with soybean and begonia / by David Edwin Weber.

Weber, David Edwin, 1941. Ann Arbor, Mich. University Microfilms International 1980. Thesis--North Carolina State University, 1976. Facsimile produced by microfilm-xerography. v. 111 leaves. Includes bibliographies. (NAL Call No.: DISS 77-11,147).

0835

Investigations into the parasitology of soybeans by the reniform nematode *Rotylenchulus reniformis* / Raymond Victor Rebois.

Rebois, Raymond Victor, 1924. 1971. Thesis (Ph.D.)--Auburn University, 1971. Photocopy. Ann Arbor, Mich. : University Microfilms, 1972. xiii, 123 leaves ; 21 cm. Bibliography: leaves 66-82. (NAL Call No.: DISS 71-27,841).

0836

Jeff, a new soybean variety resistant to soybean-cyst nematodes.

Caviness, C.E. Riggs, R.D.; Walters, H.U. Fayetteville, Ark., The Station. Arkansas farm research - Arkansas Agricultural Experiment Station. Mar/Apr 1981. v. 30 (2). p. 2. 111. (NAL Call No.: 100 AR42F).

0837

Management of root-knot nematode on Rillito soybeans.

Kontaxis, D.G. Hagemann, R.W. Berkeley, Calif., The Station. California agriculture - California Agricultural Experiment Station. Mar/Apr 1981. v. 35 (3/4). p. 18. 111. (NAL Call No.: 100 C12CAG).

0838

Mycoflora of young cysts of *Heterodera glycines* in North Carolina soils (Biological control fungi, soybeans).

Gintis, B.O. NMTPA. Morgan-Jones, G.; Rodriguez-Kabana, R. Auburn : Organization of Tropical American Nematologists. Nematologica. Dec 1982. v. 12 (2). p. 295-303. 111. Includes references. (NAL Call No.: SB998.N4N4).

0839

Nab nematodes now (Root lesion, root-knot and cyst nematodes, soybeans).

Taylor, O. St. Louis, Mo., American Soybean Association. Soybean digest. Mar 1981. v. 41 (5). p. 54SE-55SE. 111. (NAL Call No.: 60.38 S09).

0840

Natural control of *Pseudoplusia includens* (Walker) in Louisiana soybean fields / by Joseph Gaynor Burleigh.

Burleigh, Joseph Gaynor, 1942. 1970. Thesis--Louisiana State University. Photocopy of typescript. Ann Arbor: University Microfilms, 1971. x, 100 leaves. Bibliography: leaves 88-91. (NAL Call No.: DISS 70-18,519).

(PESTS OF PLANTS - NEMATODES)

0841

Nematode advirosy programs--status and prospects (Wheat, soybeans, economic crops, United States).

Barker, K.R. Imbriani, J.L. St. Paul, Minn. : American Phytopathological Society. Plant disease. Aug 1984. v. 68 (8). p. 735-741. ill. Includes 18 references. (NAL Call No.: 1.9 P69P).

0842

The nematode assay service and SCN (soybean cyst nematode) race analysis.

Robbins, R.T. AR. Fayetteville, Ark., The Station. Arkansas farm research - Arkansas Agricultural Experiment Station. July/Aug 1980. v. 29 (4). p. 7. ill. (NAL Call No.: 100 AR42F).

0843

Nematode control in soybeans : rotation and population dynamics of soybean cyst and other nematodes / by D.A. Slack, R.D. Riggs, and M.L. Hamblen.

Slack, D. A. Fayetteville, Ark. Agricultural Experiment Station 1981. Cover title. 36 p. : ill. ; 23 cm. -. (NAL Call No.: 100 Ar42R no.263).

0844

Nematode control on soybean (Meloidogyne spp., Heterodera glycines).

Francis, J.A. VA. Baldwin, R.E. Norfolk, Va., The Service. The Vegetable growers news - Virginia Polytechnic Institute and State University, Cooperative Extension Service. June 1980. v. 34 (12). p. 1, 3. (NAL Call No.: 275.28 V52).

0845

Nematode control studies in soybeans / by R. D. Riggs ... (et al.).

Riggs, R. D. Fayetteville, Ark. Division of Agriculture, University of Arkansas 1980. 32 p. ; 23 cm. -. Bibliography: p. 13-14. (NAL Call No.: 100 Ar42R no.252).

0846

Nematodes--the enemy below (Soybeans).

Romander, L. San Francisco, California Farmer. Agrichemical age. Dec 1980. v. 24 (10). p. 22-23, 70-73, 89. ill. (NAL Call No.: 381 AG85).

0847

New soybean strain resistant to soybean cyst nematode: PI 416.762 (Glycine max, Heterodera glycines).

Anand, S.C. St. Paul, Minn., American Phytopathological Society. Plant disease. Oct 1982. v. 66 (10). p. 933-934. 3 ref. (NAL Call No.: 1.9 P69P).

0848

New species of Chalara and Scytalidium isolated from cysts of Heterodera glycines (Chalara hyalina, Scytalidium fulvum, Fungi, description, soybean cyst nematode parasites).

Morgan-Jones, G. Gintis, B.O.; Rodriguez-Kabana, R. Bronx, N.Y. : The New York Botanical Garden. Mycologia. Mar/Apr 1984. v. 76 (2). p. 211-217. ill. Includes references. (NAL Call No.: 450 M99).

0849

Pheromone attraction in the soybean cyst nematode Heterodera glycines race 3.

Rende, J.F. Tefft, P.M.; Bone, L.W. New York, N.Y., Plenum Press. Journal of chemical ecology. June 1982. v. 8 (6). p. 981-991. ill. 12 ref. (NAL Call No.: QD415.A1J6).

0850

Plant disease detection and Minnesota crop disease problems (Maize dwarf mosaic virus, soybean cyst nematode, Heterodera glycines, and head scab caused by Fusarium spp.).

Stromberg, E.L. APHIS. Minneapolis, The Council. Crop production conference report - Crop Quality Council. Crop Quality Council. 1978. 1978. (45th). p. 37-40. 2 ref. (NAL Call No.: 464.9 N813).

0851

Plant parasitic nematodes on soybeans in North Carolina.

Schmitt, D.P. Mims, F. Raleigh, N.C., The Service. AG - North Carolina State University, Agricultural Extension Service. June 1980. June 1980. (225). 8 p. ill. (NAL Call No.: S544.3.N6N62).

0852

Population characteristics of Heterodera glycines in Iowa (Soybean cyst nematode).

Zirakparvar, M.E. Norton, D.C. St. Paul, Minn., American Phytopathological Society. Plant disease. Oct 1981. v. 65 (10). p. 807-809. 8 ref. (NAL Call No.: 1.9 P69P).

0853

Population dynamics of *Criconemoides similis* on soybean (Ring nematode, soybean cultivars).

Gawley, E.C. JONEB. Chapman, R.A. Ames : Society of Nematologists. Journal of nematology. Oct 1982. v. 14 (4). p. 572-575. Includes references. (NAL Call No.: QL391.N4J62).

0854

Population dynamics of *Heterodera glycines* and soybean response in soils treated with selected nematicides and herbicides.

Schmitt, D.P. Corbin, F.T.; Nelson, L.A. Ames, S.G.; Riggs, R.D. Ames : Society of Nematologists. Journal of nematology. July 1983. v. 15 (3). p. 432-437. Includes references. (NAL Call No.: QL391.N4J62).

0855

Race comparisons of *Heterodera glycines* using crossed immunoelectrophoresis (Soybean cyst nematode).

Griffith, T.W. JONEB. Koehler, N.J.; Coker, S.G.; Riggs, R.D. Ames : Society of Nematologists. Journal of nematology. Oct 1982. v. 14 (4). p. 598-599. Includes references. (NAL Call No.: QL391.N4J62).

0856

The relationship between soil population of *Meloidogyne incognita* and yield reduction of soybean in the Coastal Plain (Florida).

Kinloch, R.A. Ames, Iowa, Society of Nematologists. Journal of nematology. Apr 1982. v. 14 (2). p. 162-167. Includes 9 ref. (NAL Call No.: QL391.N4J62).

0857

The relationship of podworm, *Heliothis zea*, infestations to the reduction of soybean yields in Alabama / Ronald H. Smith.

Smith, Ronald H. (Ronald Harmon), 1942. 1970. Thesis (Ph.D.)--Auburn University, 1970. Photocopy. Ann Arbor, Mich. : University Microfilms, 1971. xv, 118 leaves ; 21 cm. Bibliography: leaves 113-118. (NAL Call No.: DISS 71-9,044).

0858

Reproduction of differentially selected soybean cyst nematode populations on soybeans (*Heterodera glycines*).

Young, L.D. Madison, Wis., Crop Science Society of America. Crop science. Mar/Apr 1982. v. 22 (2). p. 385-388. Includes 14 ref. (NAL Call No.: 64.8 C883).

0859

Reproduction of Tennessee soybean cyst nematode population on cultivars resistant to race 4 (*Heterodera glycines*).

Young, L.D. St. Paul, Minn., American Phytopathological Society. Plant disease. Mar 1982. v. 66 c (3). p. 251-252. Includes 9 ref. (NAL Call No.: 1.9 P69P).

0860

Response of a resistant soybean cultivar to fumigation at planting for the control of soybean cyst (*Heterodera glycines*) and root-knot nematodes (*Meloidogyne incognita*, USA).

Kinloch, R.A. Gainesville, Fla., Organization of Tropical American Nematologists. Nematropica. Apr 1979. v. 9 (1). p. 27-32. 6 ref. (NAL Call No.: SB998.N4N4).

0861

Response of peanut, corn, tobacco, and soybean to *Criconemella ornata* (Nematode, yields).

Barker, K.R. JONEB. Schmitt, D.P.; Campos, V.P. Ames : Society of Nematologists. Journal of nematology. Oct 1982. v. 14 (4). p. 576-581. Includes references. (NAL Call No.: QL391.N4J62).

0862

Response of resistant and susceptible soybean cultivars to continuous cropping in area infested with cyst nematode (*Heterodera glycines*, North Carolina).

Hartwig, E.E. Epps, J.M.; Buehring, N. St. Paul, Minn., American Phytopathological Society. Plant disease. Jan 1982. v. 66 (1). p. 18-20. 4 ref. (NAL Call No.: 1.9 P69P).

0863

Response of soybeans and nematodes to AT-planting applications of fumigant and nonfumigant nematicides.

Minton, N.A. AR-SO. Parker, M.B. Gainesville, Fla., Organization of Tropical American Nematologists. Nematropica. Apr 1980. v. 10 (1). p. 31-37. Includes 9 ref. (NAL Call No.: SB998.N4N4).

0864

Response of soybeans and populations of the lance nematode, *Hoplolaimus columbus*, to fumigant nematicides applied at planting.

Blackmon, C.W. Lewis, S.A. Gainesville, Fla., Organization of Tropical American Nematologists. Nematropica. Apr 1979. v. 9 (1). p. 3-7. 4 ref. (NAL Call No.: SB998.N4N4).

(PESTS OF PLANTS - NEMATODES)

0865

Response of two soybean cultivars to chemical control of soybean cyst nematode, 1982 (Heterodera glycines, Glycine max Essex and Forrest varieties, comparison). Phipps, P.M.FNETD. Elliott, A.P. (s.l.) : The Society. Fungicide and nematicide tests : results - American Phytopathological Society. 1983. v. 38. p. 11. (NAL Call No.: 464.9 AM31R).

0866

Responses of soybean (Glycines max (L.) Merr) to the side-dress of calcium nitrate (Louisiana). Chin, K.L. Lee, W.J. Baton Rouge : The University. Research bulletin - Southern University. July 25, 1982. v. 4 (1). p. 43-53. ill. Includes references. (NAL Call No.: S539.5.R42).

0867

Screening and selecting of improved soybean germplasms for resistance to soybean cyst nematode (SCN) and other soybean diseases in Alabama (Heterodera glycines). Pacumbaba, R.P. Sapra, V.T. Normal : The School. Annual research report - School of Agriculture. Environmental Science and Home Economics. Alabama Agricultural and Mechanical University. 1983. 1983. (12th). p. 99-102. maps. Includes references. (NAL Call No.: S537.A2A34).

0868

Screening soybean for resistance to Heterodera glycines ichinohe using monoxenic cultures (Breeding lines, glycine max). Lauritis, J.A.JONEB. Rebois, R.V.; Graney, L.S. Ames : Society of Nematologists. Journal of nematology. Oct 1982. v. 14 (4). p. 593-594. Includes references. (NAL Call No.: QL391.N4J62).

0869

Selection and reproduction of soybean cyst nematodes on resistant soybeans (Heterodera glycines). McCann, J. Luedders, V.D.; Dropkin, V.H. Madison, Wis., Crop Science Society of America. Crop science. Jan/Feb 1982. v. 22 (1). p. 78-80. Includes 1 p. ref. (NAL Call No.: 64.8 C883).

0870

Severity of infestation of the soybean cyst nematode (Heterodera glycines Ichinohe) in Louisiana (Glycine max, yield losses, economic impact). Bachireddy, V.R. Baton Rouge : The University. Research bulletin - Southern University. July 25, 1982. v. 4 (1). p. 30-42. maps. Includes references. (NAL Call No.: S539.5.R42).

0871

Soybean and peanut seed treatment: new developments and needs (Glycine max, Arachis hypogaea, soilborne and seedborne pathogens, fungicides, biocontrol agents). Phipps, P.M. St. Paul, American Phytopathological Society. Plant disease. Jan 1984. v. 68 (1). p. 76-77. (NAL Call No.: 1.9 P69P).

0873

The soybean cyst nematode. Grau, C.R. Norgren, R.L. Madison, Wis., The Programs. Publication - Cooperative Extension Programs, University of Wisconsin Extension. July 1980. July 1980. (A3092). 2 p. ill. (NAL Call No.: S544.3.W6W53).

0872

Soybean cyst nematode. Crowe, Frederick J. 1980. This publication discusses the symptoms, host, spread, and control of soybean cyst nematode. Document available from: Distribution Center, Umberger Hall, Kansas State University, Manhattan, KS 66506. (NAL Call No.: AF 71).

0874

Soybean cyst nematode. Nyvall, Robert F. Norton, Don C. Document available from: Iowa State University, Publications Distribution, Printing & Publications Bldg., Ames, Iowa 50011 1980. This publication discusses soybean cyst nematode, including it's symptoms, life cycle, host plants, and control. 3 p. : ill. (NAL Call No.: Document available from source.). (NAL Call No.: Pm-879).

0875

Soybean cyst nematode (Heterodera glycines) and Rhizobium (nitrogen) strain influences on soybean nodulation and N2-fixation. McGinnity, P.J. Kapusta, G. Myers, O. Jr. Madison, Wis., American Society of Agronomy. Agronomy journal. Sept/Oct 1980. v. 72 (5). p. 785-789. 23 ref. (NAL Call No.: 4 AM34P).

0876

Soybean cyst nematode, *Heterodera glycines*, in Minnesota.

MacDonald, D.H. AR-NC. Noel, G.R.; Lueschen, W.E. St. Paul, Minn., American Phytopathological Society. Plant disease. Mar 1980. v. 64 (3). p. 319-321. ill. 6 ref. (NAL Call No.: 1.9 P69P).

0877

Soybean cyst nematode infestation in Arkansas.

Riggs, R.D. Von Steen, D. Fayetteville, Ark., The Station. Arkansas farm research - Arkansas Agricultural Experiment Station. July/Aug 1981. v. 30 (4). p. 6. map. (NAL Call No.: 100 AR42F).

0878

Soybean cyst nematode introduced into Ohio (*Heterodera glycines*).

Hammond, R.B. Kauffman, P.H.; Riedel, R.M.; Hite, R.E. St. Paul, Minn., American Phytopathological Society. Plant disease. Oct 1981. v. 65 (10). p. 846. 2 ref. (NAL Call No.: 1.9 P69P).

0879

Soybean nematodes and their control.

Arnett, J.D. Jr. GA. Athens, Ga., The Service. Leaflet - Cooperative Extension Service, University of Georgia. Georgia. University. Cooperative Extension Service. Mar 1980. Mar 1980. (217). 2 p. ill. (NAL Call No.: 275.29 G29L).

0880

Soybean nematodes and their control (in Georgia, *Meloidogyne incognita*, *Meloidogyne arenaria*, *Hoplolaimus columbus*, *Belonolaimus longicaudatus*, *Rotylenchulus reniformis*, *Heterodera glycines*).

Arnett, J.D. Jr. Athens, Ga., The Service. Leaflet - Cooperative Extension Service, University of Georgia. Feb 1982. Feb 1982. (217). 4 p. ill. (NAL Call No.: 275.29 G29L).

0881

Soybean varieties: fungicide seed treatments, foliar fungicides, nematicides.

Schmitt, D.P. Ross, J.P. Raleigh, N.C., The Service. AG - North Carolina State University, Agricultural Extension Service. Aug 1980. Aug 1980. (218, suppl.). 4 p. (NAL Call No.: S544.3.N6N62).

0882

Soybean yields and nematode control.

Baldwin, R.E. Norfolk, Va., The Service. The Vegetable growers news - Virginia Polytechnic Institute and State University, Cooperative Extension Service. May 1981. v. 35 (11). p. 2-3. (NAL Call No.: 275.28 V52).

0883

The status of soybean cyst nematode (*Heterodera*) in Minnesota and Iowa.

Sushak, R.M. Minneapolis, The Council. Crop production conference report - Crop Quality Council. Crop Quality Council. 1979. 1979. (46th). p. 59-62. (NAL Call No.: 464.9 N813).

0884

Susceptibility of six soybean cultivars to *Meloidogyne incognita* race 4 (USA, Puerto Rico).

Acosta, N. NMTPA. Negron, J.A. Auburn : Organization of Tropical American Nematologists. Nematropica. Dec 1982. v. 12 (2). p. 181-187. ill. Includes references. (NAL Call No.: SB998.N4N4).

0885

Susceptibility of soybean cultivars and lines to *Pratylenchus hexincisus*.

Zirakparvar, M.E. Ames, Iowa, Society of Nematologists. Journal of nematology. Apr 1982. v. 14 (2). p. 217-220. Includes 11 ref. (NAL Call No.: QL391.N4J62).

0886

Symptomatology and histopathology of soybean roots infected by *Pratylenchus scribneri* and *Pratylenchus alleni*.

Acosta, N. Malek, R.B. Ames, Iowa, Society of Nematologists. Journal of nematology. Jan 1981. v. 13 (1). p. 6-12. ill. 6 ref. (NAL Call No.: QL391.N4J62).

0887

Technique for gnotobiotic cultivation of *Heterodera glycines* ichinohe on *Glycine max* (L.) Merr. (Soybeans).

Lauritis, J.A. Rebois, R.V.; Graney, L.S. Ames, Iowa, Society of Nematologists. Journal of nematology. July 1982. v. 14 (3). p. 422-424. ill. 5 ref. (NAL Call No.: QL391.N4J62).

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0888

Ultrastructure of the anterior neurosensory organs of the larvae of the soybean cyst nematode, *Heterodera glycines*.

Endo, B.Y. New York, Academic Press. Journal of ultrastructure research. Sept 1980. v. 72 (3). p. 349-366. ill. Bibliography p. 364-365. (NAL Call No.: 440.8 J822).

0889

Ultrastructure of the stomatal region of the Juvenile stage of the soybean cyst nematode, *Heterodera glycines*.

Endo, B.Y. PHSWA. Washington, D.C. : The Society. Proceedings - Helminthological Society of Washington. Jan 1983. v. 50 (1). p. 43-61. ill. Includes references. (NAL Call No.: 436.9 H36).

0890

Update: soybean cyst nematode (*Heterodera glycines*).

Edwards, D.I. Noel, G.R. Urbana, The Station. Illinois research - Illinois Agricultural Experiment Station. Winter 1981. v. 23 (1). p. 4-5. map. (NAL Call No.: 100 IL64).

0891

The variable soybean cyst nematodes (*Heterodera glycines*).

Riggs, R.D. Robbins, R.T. Fayetteville, Ark., The Station. Arkansas farm research - Arkansas Agricultural Experiment Station. Mar/Apr 1982. v. 31 (2). p. 9. (NAL Call No.: 100 AR42F).

0892

Vertical distribution of *Pratylenchus alleni* and *Pratylenchus scribneri* in soybean roots (Parasitic plant nematode).

Acosta, N. Rio Piedras, The Station. The Journal of agriculture of the University of Puerto Rico - Puerto Rico, Agricultural Experiment Station. Jan 1982. v. 66 (1). p. 60-64. Includes 7 ref. (NAL Call No.: 8 P832J).

0893

Zinc-mediated hatching of eggs of soybean cyst nematode, *Heterodera glycines*.

Tefft, P.M. Bone, L.W. New York, N.Y. : Plenum Press. Journal of chemical ecology. Feb 1984. v. 10 (2). p. 361-372. Includes references. (NAL Call No.: QD415.A1J6).

PLANT DISEASES - GENERAL

0894

Breeding resistance to soybean diseases (Includes nematode resistance).
St. Paul : The Station. Minnesota science - Minnesota, Agricultural Experiment Station. 1983. v. 38 (3). p. 7. ill. (NAL Call No.: 100 M668).

0895

Breeding soybeans resistant to diseases.
Wilcox, J.R. Westport : AVI Publishing Company. Plant breeding reviews. 1983. Literature review. v. 1. p. 183-235. Includes references. (NAL Call No.: SB123.P55).

0896

BSR 301 : a new soybean variety resistant to brown stem rot.
Tachibana, Hideo. Nyvall, Robert F. 1980. This publication announces a new soybean variety (BSR 301) that is resistant to brown stem rot. Document available from: Iowa State University, Publications Distribution, Printing & Publications Bldg., Ames, Iowa 50011. 1 sheet. (NAL Call No.: Not available at NAL.). (NAL Call No.: Pm 957).

0897

Compendium of soybean diseases.
St. Paul, Minn. American Phytopathological Society 1975. v, 69 p. : ill. (some col.) ; 28 cm. Includes bibliographies. (NAL Call No.: MLCM 83/88).

0898

Compendium of soybean diseases / James B. Sinclair, editor.
Sinclair, James B. St. Paul, Minn. American Phytopathological Society; in cooperation with the Dept. of Plant Pathology, University of Illinois at Urbana-Champaign, the International Soybean Program, College of Agriculture, University of Illinois at Urbana-Champaign 1982. v, 104 p. : ill., plates (some col.) ; 28 cm. -. Includes bibliographies and index. (NAL Call No.: SB608.S7C6 1982).

0899

A compilation of plant diseases and disorders in Indiana - 1981 (Trees, ornamentals, turfgrass, vegetables, wheat, corn, soybean, alfalfa).
Evans-Ruhl, G. PIACA. Latin, R.X.; Pecknold, P.C.; Scott, D.H. Indianapolis : The Academy. Proceedings of the Indiana Academy of Science. 1981. v. 91. p. 120-139. Includes references. (NAL Call No.: 500 IN2).

0900

Current status in pest management of soybean pathogens.
Schmitt, D.P. Ellis, M.A. Minneapolis, Minn. : Published for the Congress by Burgess Pub., c1981. Proceedings of symposia : IX International Congress of Plant Protection, Washington, D.C., U.S.A., August 5-11, 1979 / editor, Thor Kommedahl. p. 519-521. Includes 10 ref. (NAL Call No.: SB951.I5 1979).

0901

Host-pathogen interactions, XIX. The endogenous elicitor, a fragment of a plant cell wall polysaccharide that elicits phytoalexin accumulation in soybeans.
Hahn, M.G. Darvill, A.G.; Albersheim, P. Rockville, Md., American Society of Plant Physiologists. Plant physiology. Nov 1981. v. 68 (5). p. 1161-1169. 40 ref. (NAL Call No.: 450 P692).

0902

Pest control in soybeans, 1981 (Weeds, insects, diseases).
Doersch, R.E. Doll, J.D.; Harvey, R.G.; Wedberg, J.L.; Grau, C.R. Madison, Wis., The Programs. Publication - Cooperative Extension Programs, University of Wisconsin Extension. Jan 1981. Jan 1981. (A2782). 28 p. (NAL Call No.: S544.3.W6W53).

0903

Plant diseases: early warning system to help growers (Illinois program in monitoring corn and soybean disease).
Jordan, E.G. IL. Urbana, The Station. Illinois research. Illinois. Agricultural Experiment Station. Winter 1980. v. 22 (1). p. 10-11. ill., maps. (NAL Call No.: 100 IL64).

0904

Plant pathology and International Soybean Program (INTSOY).
Goodman, R.M. Sinclair, J.B.; Hepperly, P.R. St. Paul, Minn., American Phytopathological Society. Plant disease. Mar 1981. v. 65 (3). p. 214-222. ill. 15 ref. (NAL Call No.: 1.9 P69P).

0905

Soybean diseases and insects.
(Kentucky) University of Kentucky, Cooperative Extension Service 1982. Pesticide Applicator Training collection. 80 slides : col. + 2 sound cassettes (31 min.) + 1 script. (NAL Call No.: Slide no.18).

(PLANT DISEASES - GENERAL)

0906

Soybean diseases in North Carolina.

Schmitt, D.P. Ross, J.P. Raleigh, N.C., The Service. AG - North Carolina State University, Agricultural Extension Service. Aug 1980. Aug 1980. (218). 15 p. ill. (NAL Call No.: S544.3.N6N62).

PLANT DISEASES - FUNGAL

0907

Abutilon theophrasti: wild host for three fungal parasites of soybean (*Phomopsis sojae* (*Diaporthe phaseolorum sojae*), *Colletotrichum dematium truncata*, and *Colletotrichum gloeosporioides* (*Glomerella cingulata*, Champaign County, Illinois).
Hepperly, P.R. Kirkpatrick, B.L.; Sinclair, J.B. St. Paul, Minn., American Phytopathological Society. *Phytopathology*. Apr 1980. v. 70 (4). p. 307-310. ill. 15 ref. (NAL Call No.: 464.8 P56).

0908

Aerial application of fungicides to soybeans: problems & progress.
Backman, P.A. AL. Cosper, B.H. Auburn, The Station. Highlights of agricultural research - Alabama, Agricultural Experiment Station. Summer 1980. v. 27 (2). p. 9. ill. (NAL Call No.: 100 AL1H).

0909

Aerial fungicide application to control soybean diseases, 1981 (Soybean (*Glycine max* '0C730541' and *Vicoja*'), brown spot; *Septoria glycines*, pot and stem blight; *Phomopsis sojae*, anthracnose; *Colletotrichum dematium* var. *truncata*).
Almeida, A.M.R. Costa, N.P. (s.l.), The Society. Fungicide and nematicide tests; results - American Phytopathological Society. 1982. v. 37. p. 102. (NAL Call No.: 464.9 AM31R).

0910

Aflatoxin B1 influence on excised soyabean root growth, 14C (carbon isotope)-leucine uptake and incorporation.
Young, J.W. Dashek, W.V. The Hague, W. Junk. *Mycopathologia*. 1978. v. 66 (1/2). p. 91-97. ill. 28 ref. (NAL Call No.: 450 M994).

0911

Age-related changes in specificity and glyceollin production in the hypocotyl reaction of soybeans to *Phytophthora megasperma* var. *sojae*.
Lazarovits, G. Stossel, R.; Ward, E.W.B. St. Paul, Minn., American Phytopathological Society. *Phytopathology*. Jan 1981. v. 71 (1). p. 94-97. ill. 15 ref. (NAL Call No.: 464.8 P56).

0912

Association of hypersensitive host cell death and autofluorescence with a gene for resistance to *Peronospora manshurica* in soybean (*Glycine max*).
Ersek, T. Holliday, M.; Keen, N.T. St. Paul, American Phytopathological Society. *Phytopathology*. June 1982. v. 72 (6). p. 628-631. ill. 15 ref. (NAL Call No.: 464.8 P56).

0913

Association of plant symptoms and pod position with *Phomopsis sojae* seed infection and damage in soybean.
Hepperly, P.R. Sinclair, J.B. Madison, Wis., Crop Science Society of America. *Crop science*. May/June 1980. v. 20 (3). p. 379-381. ill. 5 ref. (NAL Call No.: 64.8 C883).

0914

Association of volatile aldehyde production during germination with poor soybean and pea seed quality (Soilborne fungi and bacteria, vigor and viability).
Harman, G.E. Nedrow, B.L.; Clark, B.E.; Mattick, L.R. Madison, Wis., Crop Science Society of America. *Crop science*. July/Aug 1982. v. 22 (4). p. 712-716. ill. 19 ref. (NAL Call No.: 64.8 C883).

0915

Benzene and ethanol (as carriers) for treatment for soybean seeds with systemic fungicides.
Muchovej, J.U. Dhingra, O.D. Zurich, International Seed Testing Association. *Seed science and technology*. 1979. v. 7 (3). p. 449-454. ill. 12 ref. (NAL Call No.: SB117.S455).

0916

Beta-1,3-endoglucanase from soybean releases elicitor-active carbohydrates from fungus cell walls (*Glycine max*, defense reactions to pathogens, *Phytophthora* spp.).
Keen, N.T. PLPHA. Yoshikawa, M. Rockville : American Society of Plant Physiologists. *Plant physiology*. Mar 1983. v. 71 (3). p. 460-465. ill. Includes references. (NAL Call No.: 450 P692).

0917

Biosynthesis and biodegradation of glyceollin by soybean hypocotyls infected with *Phytophthora megasperma* var. *sojae*.
Yoshikawa, M. Yamauchi, K. London. *Physiological plant pathology*. Mar 1979. v. 14 (2). p. 157-169. ill. 20 ref. (NAL Call No.: 450 P692).

(PLANT DISEASES - FUNGAL)

SB599.P45).

No.: 464.9 AM31R).

0918

Brown spot development and yield response of soybean inoculated with *Septoria glycines* at various growth stages.

Young, L.D. Ross, J.P. St. Paul, American Phytopathological Society. *Phytopathology*. Jan 1979. v. 69 (1). p. 8-11. ill. 8 ref. (NAL Call No.: 464.8 P56).

0919

Brown spot (*Septoria glycines*) severity and yield reduction in soybean.

Lim, S.M. AR-NC. St. Paul, Minn., American Phytopathological Society. *Phytopathology*. Oct 1980. v. 70 (10). p. 974-977. 11 ref. (NAL Call No.: 464.8 P56).

0920

Brown stem rot of soybean (caused by the fungus *Phialophora gregata*, Wisconsin).

Grau, C.R. Heimann, M.F. Madison : The Programs. Publication - Cooperative Extension Programs. University of Wisconsin - Extension. 1982. 1982. (A3171). 2 p. ill. (NAL Call No.: S544.3.W6W53).

0921

Brown stem rot resistance (*Phialophora gregata*, soybeans).

Pierce, R. SEA-WO-AR-NC. Washington, D.C., The Administration. Agricultural research - U.S. Department of Agriculture, Science and Education Administration. July 1980. v. 29 (1). p. 8-9. ill. (NAL Call No.: 1.98 AG84).

0922

***Cercospora soja* race 5: a threat to soybeans in the southeastern United States.**

Phillips, D.V. Boerma, H.R. St. Paul, Minn., American Phytopathological Society. *Phytopathology*. Mar 1981. v. 71 (3). p. 334-336. 111. 11 ref. (NAL Call No.: 464.8 P56).

0923

Chemical and biological soybean seed treatments, 1979 (Soybean (*Glycine max* 'Wells'), pre- and postemergence damping-off, *Phomopsis* sp. and seed- and soil-borne microorganisms).

Shortt, B.J. Mueller, J.D.; Sinclair, J.B. (s.l.), The Society. Fungicide and nematicide tests; results - American Phytopathological Society. 1980. v. 35. p. 192-193. (NAL Call

0924

Chemical and biological soybean seed treatments, 1980 (Soybean (*Glycine max* 'Wells'), pre- and postemergence damping-off, *Phomopsis* sp., and seed- and soil-borne microorganisms).

Mueller, J.D. Shortt, B.J.; Sinclair, J.B. (s.l.), The Society. Fungicide and nematicide tests; results - American Phytopathological Society. 1981. v. 36. p. 163. (NAL Call No.: 464.9 AM31R).

0925

Chemical control of soybean disease, 1980

(Soybean (*Glycine max* 'Davis', 'Dare', 'Dowling', 'Tracy', and 'Bragg'), anthracnose; *Colletotrichum dematium* var. *truncata*, pod and stem blight; *Diaporthe phaseolorum* var. *sojae*, *Cercospora* blight; *Cercospora kikuchii*). Whitney, N.G. (s.l.), The Society. Fungicide and nematicide tests; results - American Phytopathological Society. 1981. v. 36. p. 102-103. (NAL Call No.: 464.9 AM31R).

0926

Glyceollin production associated with control of phytophthora rot (*Phytophthora megasperma sojae*) of soybeans by the systemic fungicide, metalaxyl.

Ward, E.W.B. Lazarovits, G.; Stossel, P.; Barrie, S.D.; Unwin, C.H. St. Paul, Minn., American Phytopathological Society. *Phytopathology*. Aug 1980. v. 70 (8). p. 738-740. 111. 20 ref. (NAL Call No.: 464.8 P56).

0927

Colonization of soybean seeds and plant tissue by *Fusarium* species in soil.

Schlub, R.L. Lockwood, J.L.; Komada, H. St. Paul, Minn., American Phytopathological Society. *Phytopathology*. July 1981. v. 71 (7). p. 693-697. 27 ref. (NAL Call No.: 464.8 P56).

0928

Comparison of meteorological and standardized timings of fungicide applications for soybean disease control (*Glycine max*, system based on rainfall frequency, Alabama).

Backman, P.A. Crawford, M.A.; Hammond, J.M. St. Paul, American Phytopathological Society. *Plant disease*. Jan 1984. v. 68 (1). p. 44-46. Includes references. (NAL Call No.: 1.9 P69P).

0929

A comparison of soybean agglutinin in cultivars resistant and susceptible to *Phytophthora megasperma* var. *sojae* (race 1) (*Glycine max*). Gibson, D.M. Stack, S. Rockville, Md., American Society of Plant Physiologists. Plant physiology. Aug 1982. v. 70 (2). p. 560-566. ill. 23 ref. (NAL Call No.: 450 P692).

0930

Conidium ontogeny and morphology of *Cercospora kikuchii* (the causal agent of purple seed stain of soybeans).

Yeh, C.C. Sinclair, J.B. Ithaca, N.Y., Mycotaxon, Ltd. Mycotaxon. Oct/Dec 1979. v. 10 (1). p. 93-98. ill. 9 ref. (NAL Call No.: OK603.2.M9).

0931

Control of aerial blight of soybeans with foliar sprays, 1980 (Soybean (*Glycine max* 'Davis'), aerial blight; *Rhizoctonia solani* AG1).

Horn, N.L. Fontenot, M.L. (s.l.), The Society. Fungicide and nematicide tests; results - American Phytopathological Society. 1981. v. 36. p. 95-96. (NAL Call No.: 464.9 AM31R).

0932

Control of aerial blight with foliar spray, 1979 (Soybean (*Glycine max* 'Davis'), aerial blight; *Rhizoctonia solani*).

Horn, N.L. Fontenot, M.F. (s.l.), The Society. Fungicide and nematicide tests; results - American Phytopathological Society. 1980. v. 35. p. 111. (NAL Call No.: 464.9 AM31R).

0933

Control of damping off and seed-borne organisms with soybean seed treatments, 1979 (Soybean (*Glycine max* 'Davis' and 'Parana'), pre- and postemergence damping off and various seed-borne organisms).

Almeida, A.M.R. (s.l.), The Society. Fungicide and nematicide tests; results - American Phytopathological Society. 1981. v. 36. p. 162. (NAL Call No.: 464.9 AM31R).

0934

Control of foliar, pod and stem diseases of no-till soybeans, 1980 (Soybean (*Glycine max* 'Davis'), foliar disease; *Cercospora sojae*, *Septoria glycines*, pod and stem disease; *Glomerella glycines*, *Phomopsis* sp.).

Shakes, F.M. Wright, D.L.; Sprenkel, R.K. (s.l.), The Society. Fungicide and nematicide tests; results - American Phytopathological Society. 1981. v. 36. p. 100. (NAL Call No.:

464.9 AM31R).

0935

Control of foliar, pod and stem diseases of soybean, 1979 (Soybean (*Glycine max* 'Davis'), foliar diseases).

Blackman, C.W. (s.l.), The Society. Fungicide and nematicide tests; results - American Phytopathological Society. 1980. v. 35. p. 110-111. (NAL Call No.: 464.9 AM31R).

0936

Control of *Phytophthora* root rot of soybean with Grandstand seed treatment, 1982

(*Phytophthora megasperma* f. *glycinea*, pre- and postemergence damping off, *Glycine max*).

Epstein, A.H.FNETD. Hatfield, J.D.; Killeen, T.J.; Tachibana, H. (s.l.): The Society. Fungicide and nematicide tests : results - American Phytopathological Society. 1983. v. 38. p. 32-33. (NAL Call No.: 464.9 AM31R).

0937

Control of *Setosphaeria* leaf blight of soybean with foliar chemical sprays, 1980 (Soybean (*Glycine max* 'Bragg'), leaf blight; *Setosphaeria glycinea*).

Dhar, V. Maiti, S.; Verma, R.N. (s.l.), The Society. Fungicide and nematicide tests; results - American Phytopathological Society. 1982. v. 37. p. 102-103. (NAL Call No.: 464.9 AM31R).

0938

Control of soybean damping-off with four fungicides with and without Nematrol at Sonora, 1975 (Soybean (*Glycine max*), damping off; *Rhizoctonia solani*, *Pythium* sp., nematodes; *Meloidogyne* spp., *Pratylenchus* spp.).

Anda R., V. de. Silva Z., J. (s.l.), The Society. Fungicide and nematicide tests; results - American Phytopathological Society. 1980. v. 35. p. 109. (NAL Call No.: 464.9 AM31R).

0939

Control of soybean damping-off with Terrazan in presence and absence of Nematrol, 1975 (Soybean (*Glycine max*), damping off; *Rhizoctonia solani*, *Pythium* sp., *fusarium* sp., nematodes; *Meloidogyne* spp., *Pratylenchus* spp.).

Anda R., V. de. Silva Z., J. (s.l.), The Society. Fungicide and nematicide tests; results - American Phytopathological Society. 1980. v. 35. p. 109-110. (NAL Call No.: 464.9 AM31R).

(PLANT DISEASES - FUNGAL)

0940

Control of soybean damping-off with three fungicides in presence and absence of Nematrol at Sinaloa, 1975 (Soybean (*Glycine max*), damping off; *Rhizoctonia solani*, *Pythium* sp., *Fusarium* sp., nematodes; *Meloidogyne* spp., *Pratylenchus* spp.).

Anda R., V. de. Silva Z., J. (s.l.), The Society. Fungicide and nematicide tests; results - American Phytopathological Society. 1980. v. 35. p. 110. (NAL Call No.: 464.9 AM31R).

0941

Control of soybean diseases by fungicide sprays, 1979 (Soybean (*Glycine max* 'Davis', 'Bragg', 'Hardee' and 'Bossier'), foliar, stem and pod diseases).

Almeida, A.M.R. (s.l.), The Society. Fungicide and nematicide tests; results - American Phytopathological Society. 1980. v. 35. p. 107. (NAL Call No.: 464.9 AM31R).

0942

Cooperation spurs resistant soybeans (Phialophora gregata, brown stem rot, varieties, Iowa).

Pierce, R. SEA-AR-NC. Washington, D.C., The Administration. Extension review - United States Department of Agriculture, Science and Education Administration. Summer 1980. v. 51 (3). p. 24-25. ill. (NAL Call No.: 1 EX892EX).

0943

Cultivar, environment, and fungicide effects on foliar disease losses in soybeans (Alabama).

Backman, P.A. Rodriguez-Kabana, R. St. Paul, American Phytopathological Society. Phytopathology. June 1979. v. 69 (6). p. 562-564. ill. 9 ref. (NAL Call No.: 464.8 P56).

0944

Curvularia cymbopogonis, a pathogen of itchgrass (*Rottboellia exaltata*) (a serious weed of soybeans) in southern Louisiana (Biological control).

Walker, H.L. White, J.C. Beltsville, Md., Science and Education Administration, U.S. Dept. of Agriculture. Plant disease reporter. Aug 1979. v. 63 (8). p. 642-644. ill. 13 ref. (NAL Call No.: 1.9 P69P).

0945

Damping off in soybeans.

Nyvall, Robert F. Document available from: Iowa State University, Publications Distribution, Printing & Publications Bldg., Ames, Iowa 50011 1980. This publication discusses damping off in soybeans and includes the symptoms, cause, and control. 1 sheet : ill. (NAL Call No.: Document available from source.). (NAL Call No.: Pm-936).

0946

Development of a radioimmunoassay for the soybean phytoalexin glyceollin I (*Glycine max*, *Phytophthora megasperma*).

Moesta, P. PLPHA. Hahn, M.G.; Grisebach, H. Rockville : American Society of Plant Physiologists. Plant physiology. Oct 1983. v. 73 (2). p. 233-237. ill. Includes references. (NAL Call No.: 450 P692).

0947

Dictyledonous weeds as a source of *Fusarium oxysporum* pathogenic on soybean (Symptomless hosts, pathogenicity study of 21 weed species, Delaware).

Helbig, J.B. Carroll, R.B. St. Paul, Minn. : American Phytopathological Society. Plant disease. Aug 1984. v. 68 (8). p. 694-696. Includes 16 references. (NAL Call No.: 1.9 P69P).

0948

Disease outlook: wet weather spells trouble (*Heterodera glycines*, soybeans, fungus diseases).

Walsten, M. St. Louis, American Soybean Association. Soybean digest. Feb 1979. v. 39 (4). p. 42S-43S. ill. (NAL Call No.: 60.38 S09).

0949

Disease severity gradient of soybean downy mildew (*Peronospora manshurica*) from a small focus of infection.

Lim, S.M. St. Paul, American Phytopathological Society. Phytopathology. Dec 1978. v. 68 (12). p. 1774-1778. ill. 11 ref. (NAL Call No.: 464.8 P56).

0950

Do your (soy) beans need a fungicide?.

St. Louis, Mo., American Soybean Association. Soybean digest. May/June 1979. v. 39 (7). p. 16-n-16-p. ill. (NAL Call No.: 60.38 S09).

0951

Don't let your roots rot (Soybeans, Phytophthora, varieties).
Marking, S. St. Louis, Mo., American Soybean Association. Soybean digest. Apr 1981. v. 41 (6). p. 22-23. ill. (NAL Call No.: 60.38 S09).

0952

Downy mildew of soybean (Peronospora manshurica).
Dunleavy, J.M. London ; New York : Academic Press, c1981. The Downy mildews / edited by D.M. Spencer. p. 515-529. ill. 2 p. ref. (NAL Call No.: SB741.D68D68).

0953

Early events of pathogenesis of zoospores of Phytophthora megasperma f. sp. Glycinea on resistant and susceptible soybean roots (Scanning electron microscopy).
Ristaino, J.B. Rissler, J.F. College Park, Md. : Univ. of Maryland, Electron Microscop. Cent. Facil., Dept. of Mechanical Engineering. Newsletter - Electron Microscope Central Facility. Apr 1983. Apr 1983. (11). p. 15-17. ill. Includes references. (NAL Call No.: QH212.E4E4).

0954

Ecology of a sterile white pathogenic basidiomycete in corn, peanut, soybean, and snap bean field microplots (Rhizoctonia solani, Zea mays, Arachis hypogaea, Glycine max, Phaseolus vulgaris, soilborne fungi, Georgia).
Bell, D.K. Sumner, D.R. St. Paul, American Phytopathological Society. Plant disease. Jan 1984. v. 68 (1). p. 18-22. Includes references. (NAL Call No.: 1.9 P69P).

0955

Effect of Benlate on disease of soybeans grown in potassium-deficient and fertile soils, 1979 (Soybean (Glycine 'Tracy', 'Centennial'), Cercospora leaf blight; Cercospora kikuchii, anthracnose; Colletotrichum dematium var. truncata, pod and stem blight; Diaporthe phaseolorum var. sojae, seedborne fungi).
Roy, K.W. Buehring, N.W. (s.l.), The Society. Fungicide and nematicide tests; results - American Phytopathological Society. 1981. v. 36. p. 99. (NAL Call No.: 464.9 AM31R).

0956

The effect of benomyl (fungicide) applications to soybean plants on hilum color (Cultivars).
Payne, R.C. Schoen, J.F. n.p., The Association. News letter. Association of Official Seed Analysts. Sept 1979. v. 53 (3). p. 48-50. ill. 3 ref. (NAL Call No.: 61.9 AS7N).

0957

Effect of Chaetomium cupreum on seed germination and antagonism to other seedborne fungi of soybean.
Yeh, C.C. Sinclair, J.B. St. Paul, Minn., American Phytopathological Society. Plant disease. May 1980. v. 64 (5). p. 468-470. ill. 5 ref. (NAL Call No.: 1.9 P69P).

0958

Effect of chemical soil treatment on plant growth, nitrogen fixation, and fungal colonization of Rhizobium nodules of soybeans (Rhicotonia japonicum, Glycine max, fungal pathogens).
Widin, K.D. PHYTA. Kennedy, B.W. St. Paul : American Phytopathological Society. Phytopathology. Mar 1983. v. 73 (3). p. 429-434. Includes references. (NAL Call No.: 464.8 P56).

0959

Effect of chloroneb seed treatment fungicide on soybean yield and nodulation (Rhizobium japonicum, Rhizoctonia solani).
Kucharek, T. (S.l.) : The Society. Proceedings - Soil and Crop Science Society of Florida. 1982. v. 41. p. 59-62. Includes references. (NAL Call No.: 56.9 S032).

0960

Effect of date of harvest maturity on soybean seed quality and Phomopsis sp. seed infection (Glycine max, germination vigor).
TeKrony, D.M. Egli, D.B.; Balles, J.; Tomes, L.; Stuckey, R.E. Madison : Crop Science Society of America. Crop science. Jan/Feb 1984. v. 24 (1). p. 189-193. Includes references. (NAL Call No.: 64.8 C883).

0961

Effect of foliar application of benomyl on infection of soybean seeds by Phomopsis in relation to time of inoculation.
McGee, D.C. Brandt, C.L. Beltsville, Md., Science and Education Administration, U.S. Dept. of Agriculture. Plant disease reporter. Aug 1979. v. 63 (8). p. 675-677. ill. 10 ref. (NAL Call No.: 1.9 P69P).

(PLANT DISEASES - FUNGAL)

0962

Effect of foliar applied fungicides on disease control and yield of 'Tracy' soybeans, 1977 (Soybean (*Glycine max* 'Tracy'), pod and stem blight; *Diaporthe phaseolorum* var. *sojae*, anthracnose; *Colletotrichum dematium* var. *truncata*, purple leaf stain; *Cercospora kikuchii*). Sciumbato, G.L. (s.l.), The Society. Fungicide and nematocide tests; results - American Phytopathological Society. 1980. v. 35. p. 114. (NAL Call No.: 464.9 AM31R).

0963

Effect of foliar fungicides on brown spot control and yield of soybeans, 1981 (Soybean (*Glycine max* 'Woodworth'), brown spot; *Septoria glycines*). Scott, D.H. Akers, D.P. (s.l.), The Society. Fungicide and nematocide tests; results - American Phytopathological Society. 1982. v. 37. p. 106-107. (NAL Call No.: 464.9 AM31R).

0964

Effect of foliar fungicides on brown spot control and yield of 'Williams' soybeans at Lexington, KY, 1980 (Soybean (*Glycine max* 'Williams'), brown spot; *Septoria glycines*). Stuckey, R.E. (s.l.), The Society. Fungicide and nematocide tests; results - American Phytopathological Society. 1981. v. 36. p. 101. (NAL Call No.: 464.9 AM31R).

0965

Effect of foliar fungicides on control of anthracnose on four soybean varieties, 1982 (*Colletotrichum dematium* var. *truncata*, *Glycine max*, comparison of varieties). Whitney, N.G.FNETD. (s.l.) : The Society. Fungicide and nematocide tests : results - American Phytopathological Society. 1983. v. 38. p. 83-84. (NAL Call No.: 464.9 AM31R).

0966

Effect of foliar fungicides on disease control and yield of five soybean varieties, 1979 (Soybean (*Glycine max* 'Davis', 'Dare', 'Dowling', 'Tracy' and 'Bragg'), anthracnose; *Colletotrichum dematium* var. *truncata*, pod and stem blight; *Diaporthe phaseolorum* var. *sojae*). Whitney, N.G. (s.l.), The Society. Fungicide and nematocide tests; results - American Phytopathological Society. 1980. v. 35. p. 117-118. (NAL Call No.: 464.9 AM31R).

0968

Effect of foliar fungicides on disease control and yield of 'Williams' soybeans at Princeton, Kentucky, 1981 (Soybean (*Glycine max* 'Williams'), pod and stem blight; *Diaporthe phaseolorum* var. *sojae* (Phomopsis), anthracnose; *Colletotrichum dematium* var. *truncata*). Stuckey, R.E. McCarter-Zorner, N.J. (s.l.), The Society. Fungicide and nematocide tests; results - American Phytopathological Society. 1982. v. 37. p. 107. (NAL Call No.: 464.9 AM31R).

0967

Effect of foliar fungicides on disease control and yield of 'Williams' soybeans at Princeton, Kentucky, 1980 (Soybean (*Glycine max* 'Williams'), pod and stem blight; *Diaporthe phaseolorum* var. *sojae* (Phomopsis), anthracnose; *Colletotrichum dematium* var. *truncata*, brown spot; *Septoria glycines*). Stuckey, R.E. (s.l.), The Society. Fungicide and nematocide tests; results - American Phytopathological Society. 1981. v. 36. p. 101. (NAL Call No.: 464.9 AM31R).

0969

Effect of foliar fungicides on disease control and yield of 'Williams' soybeans, 1979 (Soybean (*Glycine max* 'Williams'), pod and stem blight; *Diaporthe phaseolorum* var. *sojae* (Phomopsis), brown spot; *Septoria glycines*). Stuckey, R.E. (s.l.), The Society. Fungicide and nematocide tests; results - American Phytopathological Society. 1980. v. 35. p. 114-115. (NAL Call No.: 464.9 AM31R).

0970

Effect of foliar fungicides on soybean seed infection by Phomopsis, seed germination and yield, 1979 (Soybean (*Glycine max* 'Amsoy 71'), pod and stem blight; *Phomopsis* spp.). McGee, D.C. Kolmer, J.; Wacha, A. (s.l.), The Society. Fungicide and nematocide tests; results - American Phytopathological Society. 1981. v. 36. p. 96-97. (NAL Call No.: 464.9 AM31R).

0971

Effect of fungicidal seed treatment on plant stand and yield of soybean; 1977, 1978 and 1979 (Soybean (*Glycine max* 'Bragg'), seed and seedling rot; *Rhizoctonia bataticola*). Sarbhoy, A.K. Agarwal, D.K.; Goswamy, K.; Mann, D.S. (s.l.), The Society. Fungicide and nematocide tests; results - American Phytopathological Society. 1982. v. 37. p. 174. (NAL Call No.: 464.9 AM31R).

0972

Effect of fungicidal seed treatments on plant stands and yield of soybean in Texas, 1982 (Pre- and postemergence damping off and root rot, *Pythium* spp., *Rhizoctonia solani*, *Phomopsis* sp., *Glycine max*). Whitney, N.G.FNETD. (s.l.) : The Society. Fungicide and nematocide tests : results - American Phytopathological Society. 1983. v. 38. p. 33. (NAL Call No.: 464.9 AM31R).

0973

Effect of fungicide sprays on internally seedborne fungi, seed germination and field emergence of soybean in Puerto Rico. Ellis, M.A. Paschal, E.H. II. Ibadan, International Grain Legume Information Centre. Tropical grain legume bulletin. 1978. 1978. (11/12). p. 31-34. ill. 5 ref. (NAL Call No.: SB111.A2T74).

0974

Effect of fungicide sprays on seed-borne pathogens of soybean, 1979 (Soybean (*Glycine max* 'Bragg' and 'Davis'), foliar, stem and pod diseases). Almeida, A.M.R. (s.l.), The Society. Fungicide and nematocide tests; results - American Phytopathological Society. 1980. v. 35. p. 107-108. (NAL Call No.: 464.9 AM31R).

0975

Effect of fungicide treatment and harvesting date on soybean foliar diseases and yield, 1979 (Soybean (*Glycine max* 'Tracy' and 'Forrest'), pod and stem blight; *Diaporthe phaseolorum* var. *sojae*, anthracnose; *Colletotrichum dematium* var. *truncata*, purple leaf stain; *Cercospora kikuchii*). Sciumbato, G.L. (s.l.), The Society. Fungicide and nematocide tests; results - American Phytopathological Society. 1981. v. 36. p. 100. (NAL Call No.: 464.9 AM31R).

0976

Effect of fungicides on control of soybean diseases, 1979 (Soybean (*Glycine max* 'Davis', 'Bragg' and 'Parana'), foliar, stem and pod diseases). Almeida, A.M.R. (s.l.), The Society. Fungicide and nematocide tests; results - American Phytopathological Society. 1980. v. 35. p. 108. (NAL Call No.: 464.9 AM31R).

0977

The effect of late-season application of benomyl (Benlate) (fungicide) on yield and quality of soybeans. Sciumbato, G.L. Andrews, C.H.; Davis, R.G. Mississippi State, The Station. MAFES research highlights - Mississippi Agricultural & Forestry Experiment Station. Aug 1981. v. 44 (8). p. 1-2. ill. (NAL Call No.: 100 M69MI).

0978

Effect of metalaxyl fungicide on downy mildew of soybeans (*Glycine max*, *Peronospora manshurica*). Johnson, S.B. Berger, R.D. (S.l.) : The Society. Proceedings - Soil and Crop Science Society of Florida. 1982. v. 41. p. 101-102. Includes references. (NAL Call No.: 56.9 S032).

0979

Effect of nontreated field soil on sporulation of vesicular-arbuscular mycorrhizal fungi associated with soybean (*Glomus macrocarpus*, *Gigaspora gigantea*). Ross, J.P. St. Paul, Minn., American Phytopathological Society. Phytopathology. Dec 1980. v. 70 (12). p. 1200-1205. ill. 12 ref. (NAL Call No.: 464.8 P56).

0980

Effect of pyrethroid insecticides on soybean and its pathogen *Rhizoctonia solani* Kuehn (Phytotoxicity and fungitoxicity determination). Tu, C.M. New York, Marcel Dekker. Journal of environmental science and health. Part A: Environmental science and engineering. 1982. v. 17 (1). p. 43-50. Includes 8 ref. (NAL Call No.: TD172.J6).

0981

Effect of seedborne *Diaporthe phaseolorum* var. *sojae* (pod and stem blight) on germination, emergence, and vigor of soybean seedlings. Kulik, M.M. Schoen, J.F. Laramie, The Station. Science monograph - University of Wyoming. Agricultural Experiment Station. May 1981. v. 71 (5). p. 544-547. 19 ref. (NAL Call No.: S131.E2).

0982

Effect of simulated dew and postinoculation moist periods on infection of soybean by *Septoria glycines* (Brown spot, *glycine max*). Ross, J.P. St. Paul, Minn., American Phytopathological Society. Phytopathology. Feb 1982. v. 72 (2). p. 236-238. Includes 13 ref. (NAL Call No.: 464.8 P56).

(PLANT DISEASES - FUNGAL)

0983

Effect of soil fumigation on survival of *Macrophomina phaseolina* in soybean stem residue.

Gray, L.E. St. Paul, American Phytopathological Society. *Phytopathology*. May 1979. v. 69 (5). p. 540. (NAL Call No.: 464.8 P56).

0984

Effect of soybean leaflet type on susceptibility to aerial blight (*Rhizoctonia solani*).

Griffin, J.L. Gilman, D.F.; Habetz, R.J. Crowley. Annual progress report Louisiana. Rice Experiment Station. 1980. 1980. (72nd). p. 361-362. (NAL Call No.: 100 L93 (3)).

0985

Effect of soybean seed treatments on emerged seedlings and yield, 1980 (Soybean (*Glycine max* 'Forrest'), pre- and postemergence damping off, various seed and soil-borne organisms).

Whitney, N.G. (s.l.), The Society. Fungicide and nematocide tests; results - American Phytopathological Society. 1981. v. 36. p. 165. (NAL Call No.: 464.9 AM31R).

0986

Effect of soybean seed treatments on emerged seedlings, 1979 (Soybeans (*Glycine max* 'Williams'), pre- and postemergence damping-off, fungicides).

Stuckey, R.E. (s.l.), The Society. Fungicide and nematocide tests; results - American Phytopathological Society. 1980. v. 35. p. 193. (NAL Call No.: 464.9 AM31R).

0987

Effect of soybean seed treatments on emergence and yield, 1981 (Soybeans (*Glycine max* 'Williams'), pre- and postemergence damping-off, fungicides).

Stuckey, R.E. McCarter-Zorner, N.J. (s.l.), The Society. Fungicide and nematocide tests; results - American Phytopathological Society. 1982. v. 37. p. 174-175. (NAL Call No.: 464.9 AM31R).

0988

Effect of soybean seed treatments on seedling emergence, 1979 (Soybean (*Glycine max* 'Forest'), pre- and postemergence damping off, various seed and soil-borne organisms).

Whitney, N.G. (s.l.), The Society. Fungicide and nematocide tests; results - American Phytopathological Society. 1980. v. 35. p. 194-195. (NAL Call No.: 464.9 AM31R).

0989

The effect of temperature on development of soybean rust (*Phakopsora pachyrhizi*).

Kochman, J.K. Melbourne, Commonwealth Scientific and Industrial Research Organization. *Australian journal of agricultural research*. Mar 1979. v. 30 (2). p. 273-277. ill. 8 ref. (NAL Call No.: 23 AU783).

0990

Effect of (the growth regulator) 2,3,5-triiodobenzoic acid on the susceptibility of soybeans to *Macrophomina phaseolina*.

Kroll, T.K. Moore, L.D. St. Paul, Minn., American Phytopathological Society. *Plant disease*. June 1981. v. 65 (6). p. 483-485. ill. 8 ref. (NAL Call No.: 1.9 P69P).

0991

Effect of thiophanate methyl applied in a low volume oil treatment on disease control and yield of soybeans (Fungicides).

Whitney, N.G. College Station, Tex. : The Station. PR - Texas Agricultural Experiment Station. Dec 1983. Dec 1983. (4182). 4 p. Includes references. (NAL Call No.: 100 T31P).

0992

Effect of three desiccant herbicides on soybean (*Glycine max*) seed quality (Seedborne fungi, in Illinois and Brazil).

Cerkauskas, R.F. Dhingra, D.D.; Sinclair, J.B.; Foor, S.R. Champaign, Ill., Weed Science Society of America. *Weed science*. Sept 1982. v. 30 (5). p. 484-490. 21 ref. (NAL Call No.: 79.8 W41).

0993

Effects of air temperature on disease severity and peroxidase activity of soybean leaves infected by *Peronospora manshurica*.

Dunleavy, J.M. Madison, Wis., Crop Science Society of America. *Crop science*. May/June 1982. v. 22 (3). p. 623-625. ill. 17 ref. (NAL Call No.: 64.8 C883).

0994

Effects of benomyl on the colonization of soybean leaves, pods, and seeds by fungi.

Miller, W.A. Roy, K.W. St. Paul, Minn., American Phytopathological Society. *Plant disease*. Oct 1982. v. 66 (10). p. 918-920. 10 ref. (NAL Call No.: 1.9 P69P).

0995

Effects of cultivars and cultural practices on Sclerotinia stem rot of soybean (*Sclerotinia sclerotiorum*, *Whetzelinia sclerotiorum*, *Glycine max*, Wisconsin).

Grau, C.R. Radke, V.L. St. Paul, American Phytopathological Society. Plant disease. Jan 1984. v. 68 (1). p. 56-58. Includes references. (NAL Call No.: 1.9 P69P).

0996

Effects of foliar fungicides on seed-borne fungi and seed germination, 1978 (Soybean (*Glycine max* 'Williams'), pod and stem blight; *Diaporthe phaseolorum* var. *sojae* (*Phomopsis* spp.), purple seed stain; *Cercospora kikuchii*). Stuckey, R.E. (s.l.), The Society. Fungicide and nematicide tests; results - American Phytopathological Society. 1980. v. 35. p. 115-116. (NAL Call No.: 464.9 AM31R).

0997

Effects of fungicides on diseases and yield of soybeans, 1980 (Soybean (*Glycine max* 'Centennial'), frog-eye leaf spot; *Cercospora sojae*, *Cercospora* leaf blight; *Cercospora kikuchii*, anthracnose; *Colletotrichum dematium* var. *truncata*, pod and stem blight; *Diaporthe phaseolorum* var. *sojae*).

Roy, K.W. Buehring, N.; Miller, W.A. (s.l.), The Society. Fungicide and nematicide tests; results - American Phytopathological Society. 1982. v. 37. p. 105-106. (NAL Call No.: 464.9 AM31R).

0998

Effects of fungicides on diseases and yield of soybeans, 1980 (Soybean (*Glycine max* 'Forrest'), frog-eye leaf spot; *Cercospora sojae*, anthracnose; *Colletotrichum dematium* var. *truncata*, pod and stem blight; *Diaporthe phaseolorum* var. *sojae*).

Roy, K.W. Arnold, B.; Miller, W.A. (s.l.), The Society. Fungicide and nematicide tests; results - American Phytopathological Society. 1982. v. 37. p. 105. (NAL Call No.: 464.9 AM31R).

0999

Effects of fungicides on diseases and yield of soybeans, 1980 (Soybean (*Glycine max* 'Forrest'), frog-eye leaf spot; *Cercospora sojae*, *Cercospora* leaf blight; *Cercospora kikuchii*, anthracnose; *Colletotrichum dematium* var. *truncata*, pod and stem blight; *Diaporthe phaseolorum* var. *sojae*).

Roy, K.W. Miller, W.A. (s.l.), The Society. Fungicide and nematicide tests; results - American Phytopathological Society. 1982. v. 37. p. 106. (NAL Call No.: 464.9 AM31R).

1000

Effects of glyphosate on glyceollin production and the expression of resistance to *Phytophthora megasperma* f. sp. *glycinea* in soybean (*Glycine max*, herbicides).

Keen, N.T. PHYTA. Holliday, M.U.; Yoshikawa, M. St. Paul : American Phytopathological Society. Phytopathology. Nov 1982. v. 72 (11). p. 1467-1470. 14 ref. (NAL Call No.: 464.8 P56).

1001

Effects of humidity, temperature, fertility, and cultivar on the reduction of soybean seed quality by *Phomopsis* sp.

Spilker, D.A. Schmitthenner, A.F.; Ellett, C.W. St. Paul, Minn., American Phytopathological Society. Phytopathology. Oct 1981. v. 71 (10). p. 1027-1029. 16 ref. (NAL Call No.: 464.8 P56).

1002

Effects of infection by *Phytophthora megasperma* var. *sojae* on the water relations of soybean.

Kittle, D.R. AR-NC. Gray, L.E. Madison, Wis., Crop Science Society of America. Crop science. July/Aug 1980. v. 20 (4). p. 504-507. 111. 14 ref. (NAL Call No.: 64.8 C883).

1003

Effects of natural selection in segregating soybean populations exposed to *Phytophthora* rot or soybean cyst nematode (*Phytophthora megasperma*, *Heterodera glycines*, breeding programs).

Hartwig, E.E. Kilen, T.C.; Young, L.D.; Edwards, C.J. Jr. Madison, Wis., Crop Science Society of America. Crop science. May/June 1982. v. 22 (3). p. 588-590. 6 ref. (NAL Call No.: 64.8 C883).

1004

Effects of rotations with susceptible and resistant peanuts, soybeans, and corn on inoculum efficiency of *Cylindrocladium crotalariae* on peanuts (*Arachis hypogaea*, *Glycine max*, *Zea mays*, root rot, North Carolina).

Black, M.C. Beute, M.K. St. Paul, Minn. : American Phytopathological Society. Plant disease. May 1984. v. 68 (5). p. 401-405. 111. Includes references. (NAL Call No.: 1.9 P69P).

(PLANT DISEASES - FUNGAL)

1005

Effects of row width and plant growth habit on Septoria (glycines) brown spot development and soybean yield.

Pataky, J.K. Lim, S.J. St. Paul, Minn., American Phytopathological Society. *Phytopathology*. Oct 1981. v. 71 (10). p. 1051-1056. 22 ref. (NAL Call No.: 464.8 P56).

1006

Effects of septoria brown spot on the yield components of soybeans (Septoria glycines).

Pataky, J.K. Lim, S.M. St. Paul, Minn., American Phytopathological Society. *Plant disease*. July 1981. v. 65 (7). p. 588-590. Includes 16 ref. (NAL Call No.: 1.9 P69P).

1007

Effects of temperature and leaf wetness period on brown spot disease of soybeans (Septoria glycines, Glycine max).

Peterson, D.J. Edwards, H.H. St. Paul, American Phytopathological Society. *Plant disease*. Nov 1982. v. 66 (11). p. 995-998. ill. 14 ref. (NAL Call No.: 1.9 P69P).

1008

The effects of vesicular-arbuscular mycorrhizae on uptake of Sr 90 by soybeans and on growth and phosphorus content of three agronomic crops / by Nelroy Evan Jackson.

Jackson, Nelroy Evan, 1942. 1970. Thesis (Ph.D.)--Ohio State University, 1970. Photocopy. Ann Arbor, Mich.: University Microfilms, 1971. viii, 59 leaves; 21 cm. Bibliography: leaves 58-59. (NAL Call No.: DISS 71-18,026).

1009

Efficacy of benomyl for controlling Septoria (glycines) brown spot of soybeans.

Pataky, J.K. Lim, S.M. St. Paul, Minn., American Phytopathological Society. *Phytopathology*. Apr 1981. v. 71 (4). p. 438-442. 21 ref. (NAL Call No.: 464.8 P56).

1010

Efficacy of fungicides for the control of soybean foliar diseases, 1980 (Soybean (Glycine max 'Bragg'), pod and stem blight; Diaporthe phaseolorum var. sojae, anthracnose; Collitotrichum dematrum var. truncata, brown spot; Septoria glycines).

Hovermale, C.H. Sciombato, G.L. (s.l.), The Society. Fungicide and nematicide tests; results - American Phytopathological Society. 1982. v. 37. p. 104. (NAL Call No.: 464.9 AM31R).

1011

Efficacy of polyethyleneglycol and organic solvents for infusing fungicides into soybean seeds.

Shortt, B.J. Sinclair, J.B. St. Paul, Minn., American Phytopathological Society. *Phytopathology*. Oct 1980. v. 70 (10). p. 971-973. ill. 15 ref. (NAL Call No.: 464.8 P56).

1012

An efficient and objective survey method for brown stem rot (Phialophora gregata) of soybeans.

Tachibana, H. Booth, G.D. Beltsville, Md., Science and Education Administration, U.S. Dept. of Agriculture. *Plant disease reporter*. July 1979. v. 63 (7). p. 539-541. ill. 6 ref. (NAL Call No.: 1.9 P69P).

1013

Electron microscope study of race-specific and age-related resistant and susceptible reactions of soybeans to Phytophthora megasperma var. sojae.

Stossel, P. Lazarovits, G.; Ward, E.W.B. St. Paul, Minn., American Phytopathological Society. *Phytopathology*. June 1981. v. 71 (6). p. 617-623. ill. 21 ref. (NAL Call No.: 464.8 P56).

1014

Emergence and yield of fungicide-treated soybean seed differing in quality (Glycine max, control of soil-borne fungi, Phomopsis, cultivars, Iowa).

Wall, M.T. AGJDA. McGee, D.C.; Burris, J.S. Madison: American Society of Agronomy. *Agronomy journal*. Nov/Dec 1983. v. 75 (6). p. 969-973. Includes references. (NAL Call No.: 4 AM34P).

1015

Environmental factors influencing growth and sporulation of Cercospora kikuchii (Purple stain disease of soybean).

Chen, M.D. Lyda, S.D.; Halliwell, R.S. Bronx, N.Y., The New York Botanical Garden. *Mycologia*. Nov/Dec 1979. v. 71 (6). p. 1150-1157. ill. 11 ref. (NAL Call No.: 450 M99).

1016

Enzyme induction in soybean infected by Phytophthora megasperma f. sp. glycinea (Glycine max).

Borner, H. Grisebach, H. New York: Academic Press. *Archives of biochemistry and biophysics*. Aug 1982. v. 217 (1). p. 65-71. 23 ref. (NAL

Call No.: 381 AR2).

1017

Epidemiology of Phomopsis seed decay of soybean in Illinois.

Shortt, B.U. Grybauskas, A.P.; Tenne, F.D.; Sinclair, J.B. St. Paul, Minn., American Phytopathological Society. Plant disease. Jan 1981. v. 65 (1). p. 62-64. maps. 10 ref. (NAL Call No.: 1.9 P69P).

1018

Etiology and epidemiology of seeding rot of soybean by Pythium ultimum.

Schlub, R.L. Lockwood, J.L. St. Paul, Minn., American Phytopathological Society. Phytopathology. Feb 1981. v. 71 (2). p. 134-138. ill. 23 ref. (NAL Call No.: 464.8 P56).

1019

Evaluation of Benlate and Mertect for control of foliar, stem and seed diseases of soybean, 1979 (Soybean (Glycine max 'Forest'), Cercospora leaf blight; Cercospora kikuchii, frog-eye leaf spot; Cercospora sojae, anthracnose; Colletotrichum dematium var. truncata, pod and stem blight; Diaporthe phaseolorum var. sojae, seedborne fungi). Roy, K.W. (s.l.), The Society. Fungicide and nematicide tests; results - American Phytopathological Society. 1981. v. 36. p. 98-99. (NAL Call No.: 464.9 AM31R).

1020

Evaluation of foliar applied fungicides on soybeans, 1982 (Disease control, Glycine max). Wright, F.E.FNETD. (s.l.): The Society. Fungicide and nematicide tests : results - American Phytopathological Society. 1983. v. 38. p. 84. (NAL Call No.: 464.9 AM31R).

1021

Evaluation of foliar fungicides for disease control and yield of soybeans, 1982 (Diaporthe phaseolorum var. sojae, Colletotrichum dematium var. truncata, Glycine max). Stuckey, R.E.FNETD. Wilcox, W.F.; Clinton, W. (s.l.): The Society. Fungicide and nematicide tests : results - American Phytopathological Society. 1983. v. 38. p. 82. (NAL Call No.: 464.9 AM31R).

1022

Evaluation of foliar fungicides on soybeans, 1981 (Soybean (Glycine max 'Williams 79'), brown spot; Septoria glycines, downy mildew; Peronospora manshurica, pod and stem blight; Diaporthe phaseolorum var. sojae, anthracnose; Colletotrichum dematium var. truncata, purple seed stain; Cercospora kikuchii). Palm, E.W. (s.l.), The Society. Fungicide and nematicide tests; results - American Phytopathological Society. 1982. v. 37. p. 104-105. (NAL Call No.: 464.9 AM31R).

1023

Evaluation of foliar fungicides on soybeans, 1982 (Glycine max, disease control). Palm, E.W.FNETD. (s.l.): The Society. Fungicide and nematicide tests : results - American Phytopathological Society. 1983. v. 38. p. 80-81. (NAL Call No.: 464.9 AM31R).

1024

Evaluation of fungicides for control of foliar and stem diseases of soybean, 1979 (Soybean (Glycine max 'Centennial'), anthracnose; Colletotrichum dematium var. truncata, pod and stem blight; Diaporthe phaseolorum var. sojae). Buehring, N. Roy, K.W. (s.l.), The Society. Fungicide and nematicide tests; results - American Phytopathological Society. 1981. v. 36. p. 94. (NAL Call No.: 464.9 AM31R).

1025

Evaluation of fungicides for control of foliar and stem diseases of soybean, 1979 (Soybean (Glycine max 'Forest'), Cercospora leaf blight; Cercospora kikuchii, anthracnose; Colletotrichum dematium var. truncata, pod and stem blight; Diaporthe phaseolorum var. sojae). Roy, K.W. (s.l.), The Society. Fungicide and nematicide tests; results - American Phytopathological Society. 1981. v. 36. p. 98. (NAL Call No.: 464.9 AM31R).

1026

Evaluation of fungicides for control of foliar and stem diseases of soybean, 1979 (Soybean (Glycine max 'Forrest'), Cercospora leaf blight; Cercospora kikuchii, anthracnose; Colletotrichum dematium var. truncata, pod and stem blight; Diaporthe phaseolorum var. sojae). Roy, K.W. Arnold, B. (s.l.), The Society. Fungicide and nematicide tests; results - American Phytopathological Society. 1981. v. 36. p. 99. (NAL Call No.: 464.9 AM31R).

(PLANT DISEASES - FUNGAL)

1027

Evaluation of fungicides for control of foliar, pod and stem diseases of soybean, 1982 (*Cercospora kikuchi*, *Diaporthe phaseolorum* var. *sojae*, *Colletotrichum dematium* var. *truncata*, *Glycine max*).

Walters, H.U.FNETD. (s.l.) : The Society. Fungicide and nematicide tests : results - American Phytopathological Society. 1983. v. 38. p. 82. (NAL Call No.: 464.9 AM31R).

1028

Evaluation of fungicides for soybean disease control, 1981 (*Soybean* (*Glycine max* 'Davis', 'Coker-156'), anthracnose; *Colletotrichum dematium* var. *truncata*, pod and stem blight; *Diaporthe phaseolorum* var. *sojae*).

Whitney, N.G. (s.l.), The Society. Fungicide and nematicide tests; results - American Phytopathological Society. 1982. v. 37. p. 107-108. (NAL Call No.: 464.9 AM31R).

1029

Evaluation of fungicides of soybeans, 1980 (*Soybean* (*Glycine max* 'Centennial'), pod and stem blight; *Diaporthe phaseolorum* var. *sojae*, anthracnose; *Colletotrichum dematium* var. *truncata*).

Edwards, N.C. Sciumbato, G.L. (s.l.), The Society. Fungicide and nematicide tests; results - American Phytopathological Society. 1982. v. 37. p. 104. (NAL Call No.: 464.9 AM31R).

1030

Evaluation of fungicides on soybean yields and delay of maturity, 1980 (*Soybean* (*Glycine max* 'Forrest'), brown spot; *Septoria glycines*, pod and stem blight; *Diaporthe phaseolorum* var. *sojae*).

Walter, H.J. (s.l.), The Society. Fungicide and nematicide tests; results - American Phytopathological Society. 1981. v. 36. p. 102. (NAL Call No.: 464.9 AM31R).

1031

Evaluation of fungicides on soybeans, 1978 (*Soybean* (*Glycine max* 'Davis' and 'Bragg'), brown spot; *Septoria glycines*, frog eye; *Cercospora sojae*, pod and stem blight; *Phomopsis sojae*).

Nasser, L.C.B. Almeida, A.M.R. (s.l.), The Society. Fungicide and nematicide tests; results - American Phytopathological Society. 1980. v. 35. p. 111-112. (NAL Call No.: 464.9 AM31R).

1032

Evaluation of fungicides on soybeans, 1979 (*Soybean* (*Glycine max* 'Williams'), brown spot; *Septoria glycines*, downy mildew; *Peronospora manshurica*, pod and stem blight; *Diaporthe phaseolorum* var. *sojae*, anthracnose; *Colletotrichum dematium* var. *truncata*, purple seed stain; *Cercospora kikuchii*).

Palm, E.W. (s.l.), The Society. Fungicide and nematicide tests; results - American Phytopathological Society. 1980. v. 35. p. 112-113. (NAL Call No.: 464.9 AM31R).

1033

Evaluation of fungicides on soybeans, 1980 (*Soybean* (*Glycine max* 'Williams'), brown spot; *Septoria glycines*, downy mildew; *Peronospora manshurica*, pod and stem blight; *Diaporthe phaseolorum* var. *sojae*, anthracnose; *Colletotrichum dematium* var. *truncata*, purple seed stain; *Cercospora kikuchii*).

Palm, E.W. (s.l.), The Society. Fungicide and nematicide tests; results - American Phytopathological Society. 1981. v. 36. p. 97-98. (NAL Call No.: 464.9 AM31R).

1034

Evaluation of in-furrow fungicides on soybeans, 1979 (*Soybean* (*Glycine max* 'Williams') *Fusarium* root rot; *Fusarium* spp., charcoal rot; *Macrophomina phaseolina*, pod and stem blight; *Diaporthe phaseolorum* var. *sojae*, anthracnose; *Colletotrichum dematium* var. *truncata*, brown stem rot; *Phialophora gregata*).

Palm, E.W. (s.l.), The Society. Fungicide and nematicide tests; results - American Phytopathological Society. 1980. v. 35. p. 113. (NAL Call No.: 464.9 AM31R).

1035

Evaluation of seed treatment fungicides to control seed and seedling diseases, 1979 (*Soybean* (*Glycine max* 'Williams'), *Fusarium* root rot; *Fusarium* spp., Charcoal rot; *Macrophomina phaseolina*, pod and stem blight; *Diaporthe phaseolorum* var. *sojae*, anthracnose; *Colletotrichum dematium* var. *truncata*, brown stem rot; *Phialophora gregata*).

Palm, E.W. (s.l.), The Society. Fungicide and nematicide tests; results - American Phytopathological Society. 1980. v. 35. p. 192. (NAL Call No.: 464.9 AM31R).

1036

Evaluation of seed treatment fungicides to control seed and seedling diseases, 1980 (*Soybean*, (*Glycine max* 'Williams'), *Fusarium* root rot; *Fusarium* spp., charcoal rot; *Macrophomina phaseolina*, pod and stem blight; *Diaporthe phaseolorum* var. *sojae*, anthracnose; *Colletotrichum dematium* var. *truncata*, brown

stem rot; *Phialophora gregata*).

Palm, E.W. (s.l.), The Society. Fungicide and nematicide tests; results - American Phytopathological Society. 1981. v. 36. p. 163-164. (NAL Call No.: 464.9 AM31R).

1037

Evaluation of seed treatment fungicides to control seed and seedling diseases, 1981 (Soybean (*Glycine max* 'Williams 79'), *Fusarium* root rot; *Fusarium* spp., charcoal rot; *Macrophomina phaseolina*, pod and stem blight; *Diaporthe phaseolorum* var. *sojae*, anthracnose; *Colletotrichum dematium* var. *truncata*, brown stem rot; *Phialophora gregata*).
Palm, E.W. (s.l.), The Society. Fungicide and nematicide tests; results - American Phytopathological Society. 1982. v. 37. p. 173-174. (NAL Call No.: 464.9 AM31R).

1038

Evaluation of soybean for resistance to *Septoria* (glycines) brown spot.
Lim, S.M. Beltsville, Md., Science and Education Administration, U.S. Dept. of Agriculture. Plant disease reporter. Mar 1979. v. 63 (3). p. 242-245. ill. 6 ref. (NAL Call No.: 1.9 P69P).

1039

Evaluation of soybean germplasm for resistance to *Rhizoctonia solani* Kuhn.
Cardoso, J.E. Hildebrandt, A.C. Brasilia, Sociedade Brasileira de Fitopatologia. Fitopatologia brasileira. June 1978. v. 3 (2). p. 205-209. ill. 5 ref. (NAL Call No.: SB599.F55).

1040

Evaluation of soybean seed treatment fungicides in fumigated and non-fumigated soil, 1980 (Soybean (*Glycine max* 'Williams'), pre- and postemergence damping-off).
Ferris, R.S. (s.l.), The Society. Fungicide and nematicide tests; results - American Phytopathological Society. 1981. v. 36. p. 162. (NAL Call No.: 464.9 AM31R).

1041

Evaluation of soybean seed treatments, 1982 (Pre- and postemergence damping off, *Cercospora kikuchii*, *Phomopsis* spp., *Glycine max*, soybeans).
Cubeta, M.A.FNETD. Datnoff, L.E.; Sinclair, J.B. (s.l.) : The Society. Fungicide and nematicide tests : results - American Phytopathological Society. 1983. v. 38. p. 31-32. (NAL Call No.: 464.9 AM31R).

1042

Evaluations of fungicides in soybean disease control, 1979 (Soybean (*Glycine max*), pod and stem blight; *Diaporthe phaseolorum*).
Abdel-Rahman, A. (s.l.), The Society. Fungicide and nematicide tests; results - American Phytopathological Society. 1980. v. 35. p. 106. (NAL Call No.: 464.9 AM31R).

1043

Evaluation of foliar fungicides on soybeans, 1982 (*Septoria glycines* on *Glycine max*).
Scott, D.H.FNETD. Akers, D.P. (s.l.) : The Society. Fungicide and nematicide tests : results - American Phytopathological Society. 1983. v. 38. p. 81. (NAL Call No.: 464.9 AM31R).

1044

Expression of disease reaction types in soybean callus from resistant and susceptible plants (*Phytophthora megasperma sojae*).
Holliday, M.J. Klarman, W.L. St. Paul, American Phytopathological Society. Phytopathology. June 1979. v. 69 (6). p. 576-578. ill. 10 ref. (NAL Call No.: 464.8 P56).

1045

Expression of genetic susceptibility, host resistance, and nonhost resistance in alfalfa callus tissue inoculated with *Phytophthora megasperma* (f. sp. *medicaginis* on *Medicago sativa*, *Phytophthora megasperma* f. sp. *glycinea*, soybean pathogen).
Miller, S.A. Davidse, L.C.; Maxwell, D.P. St. Paul : American Phytopathological Society. Phytopathology. Mar 1984. v. 74 (3). p. 345-348. ill. Includes references. (NAL Call No.: 464.8 P56).

1046

Factors affecting the development of brown spot (*Septoria glycines*) of soybeans in the field.
Mullens, T.R. Hilty, J.W. Knoxville, The Station. Tennessee farm and home science. Progress report. Tennessee. Agricultural Experiment Station. July/Sept 1979. July/Sept 1979. (111). p. 24-25. ill. (NAL Call No.: 100 T25F).

1047

Factors affecting the reaction of soybeans to *Phytophthora megasperma* var. *sojae* in hydroponic culture (*Glycine max*).
Keeling, B.L. Madison, Wis., Crop Science Society of America. Crop science. Mar/Apr 1982. v. 22 (2). p. 325-327. Includes 4 ref. (NAL Call No.: 64.8 C883).

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1048

Factors affecting zoospore production by *Phytophthora megasperma* var. *sojae* (Cause of root and stem rot of soybean).
Eye, L.L. Sneh, B. St. Paul, American Phytopathological Society. Phytopathology. Dec 1978. v. 68 (12). p. 1767-1768. ill. 15 ref. (NAL Call No.: 464.8 P56).

1049

Field crop disease management.
Ellett, C. Wayne. 1981. This discusses diseases and management practices for their control of corn, soybeans, wheat, oats, and alfalfa. Document available from: Ext. Office of Information, Ohio State University, 2120 Fyffe Road, Columbus, OH 43210. 4 p. (NAL Call No.: Not available at NAL.). (NAL Call No.: Bul. 631).

1050

Field evaluation of soybeans resistant to brown stem rot (*Phialophora gregatum*).
Tachibana, H. SEA-AR-NC. Card, L.C. Beltsville, Md., The Administration. Plant disease reporter. United States. Dept. of Agriculture. Science and Education Administration. Dec 1979. v. 63 (12). p. 1042-1045. ill. 11 ref. (NAL Call No.: 1.9 P69P).

1051

Foliar disease control in soybeans (Use of foliar fungicides).
Baldwin, R.E. Norfolk, Va., The Service. The Vegetable growers news. Virginia Polytechnic Institute and State University. Cooperative Extension Service. June 1979. v. 33 (12). p. 3. (NAL Call No.: 275.28 V52).

1052

Formae speciales differentiation of *Phytophthora megasperma* isolates from soybean and alfalfa.
Kuan, T.L. Erwin, D.C. St. Paul, Minn., American Phytopathological Society. Phytopathology. Apr 1980. v. 70 (4). p. 333-338. ill. 27 ref. (NAL Call No.: 464.8 P56).

1053

Fungal effects on *Rhizobium japonicum*-soybean symbiosis (Antagonism Mycotoxins).
Angle, J.S. Pugashetti, B.K.; Wagner, G.H. Madison, Wis., American Society of Agronomy. Agronomy journal. Mar/Apr 1981. v. 73 (2). p. 301-306. ill. 16 ref. (NAL Call No.: 4 AM34P).

1054

Fungal penetration of soybean seed through pores.
Hill, H.U. West, S.H. Madison, Wis., Crop Science Society of America. Crop science. May/June 1982. v. 22 (3). p. 602-605. ill. 17 ref. (NAL Call No.: 64.8 C883).

1055

Fungi associated with roots of soybean (*Glycine max*) in Delaware / by David Wayne Spaulding.
Spaulding, David Wayne. 1965. Thesis (M.S.)--University of Delaware, 1965. Typescript (photocopy). iii, 77 leaves : ill. ; 29 cm. Bibliography: leaves 55-59. (NAL Call No.: SB608.S7S7).

1056

Fungicide cleared for disease control in Ohio soybeans.
Schmitthenner, A.F. Kroetz, M.E. Wooster, The Center. Ohio report on research and development in agriculture, home economics, and natural resources - Ohio Agricultural Research and Development Center. Mar/Apr 1982. v. 67 (2). p. 21-24. ill. (NAL Call No.: 100 OH3S (3)).

1057

Fungicide evaluation for control of foliar, pod and stem diseases of soybeans, 1979 (Soybean (*Glycine max*, 'Crawford', 'Essex', 'Cumberland'), foliar, pod and stem diseases, brown spot; *Septoria glycines*, downy mildew; *Peonospora manshurica*, bacterial blight; *Pseudomonas glycinea*, bacterial pustule; *Xanthomonas phaseoli*).
Crowe, F.J. Sanden, G.E. (s.l.), The Society. Fungicide and nematicide tests; results - American Phytopathological Society. 1981. v. 36. p. 94-95. (NAL Call No.: 464.9 AM31R).

1058

Fungicide evaluation for soybean foliar disease control, 1979 (Soybean (*Glycine max* 'Bragg'), *Cercospora kikuchii*, anthracnose; *Colletotrichum dematium* var. *truncata*, pod and stem blight; *Diaporthe phaseolorum* var. *sojae*).
Hovermale, C. Sciombato, G.L. (s.l.), The Society. Fungicide and nematicide tests; results - American Phytopathological Society. 1981. v. 36. p. 96. (NAL Call No.: 464.9 AM31R).

1059

Fungicide evaluation for soybean foliar, pod and stem diseases, 1979 (Soybean (*Glycine max* 'Dare'), pod and stem blight; *Diaporthe phaseolorum* var. *sojae*, anthracnose; *Colletotrichum dematium* var. *truncata*, *Cercospora* blight; *Cercospora kikuchii*). Walters, H.J. (s.l.), The Society. Fungicide and nematicide tests; results - American Phytopathological Society. 1980. v. 35. p. 116. (NAL Call No.: 464.9 AM31R).

1060

Fungicide evaluation for soybean pod, stem, and foliar disease control, 1977 (Soybean (*Glycine max* 'Bragg'), brown spot; *Septoria glycines*, frog eye; *Cercospora sojae*, pod and stem blight; *Phomopsis sojae*). Nasser, L.C.B. Almeida, A.M.R. (s.l.), The Society. Fungicide and nematicide tests; results - American Phytopathological Society. 1980. v. 35. p. 112. (NAL Call No.: 464.9 AM31R).

1061

Fungicide evaluation on soybeans, 1980 (Soybeans (*Glycine max* 'Bragg'), foliar, stem and pod diseases; *Diaporthe* sp. + *Colletotrichum* sp.). Blackmon, C.W. (s.l.), The Society. Fungicide and nematicide tests; results - American Phytopathological Society. 1981. v. 36. p. 93-94. (NAL Call No.: 464.9 AM31R).

1062

Fungicides for control of foliar, pod, and stem diseases of soybeans / H. J. Walters. Walters, H. J. Fayetteville Agricultural Experiment Station, University of Arkansas 1980. Issued Feb. 1980. 31 p. : ill., map. -. Bibliography: p. 15. (NAL Call No.: 100 Ar42R no.250).

1063

Fusarium wilt of soybean in Delaware (*Fusarium oxysporum*).

Ferrant, N.P. Carroll, R.B. St. Paul, Minn., American Phytopathological Society. Plant disease. July 1981. v. 65 (7). p. 596-599. Includes 14 ref. (NAL Call No.: 1.9 P69P).

1064

The genetic basis of physiological races of *Phytophthora* (Soybean association, root rot). Leadders, V.D. Ames, Iowa, The Service. Soybean genetics newsletter - United States, Agricultural Research Service. Apr 1982. v. 9. p. 135-139. 13 ref. (NAL Call No.: 464.8 P56).

aSB205.S7S6).

1065

Genetic implications of the susceptibility of Kent soybean to *Cercospora sojae* (Frogeye leafspot, *Glycine max*, cultivars). Boerma, H.R. PHYTAJ. Phillips, D.V. St. Paul : American Phytopathological Society. Phytopathology. Dec 1983. v. 73 (12). p. 1666-1668. Includes references. (NAL Call No.: 464.8 P56).

1066

Genetics of resistance to physiologic races of *Phytophthora megasperma* var. *sojae* in the soybean cultivar Tracy. Athow, K.L. Laviolette, F.A. St. Paul, American Phytopathological Society. Phytopathology. June 1979. v. 69 (6). p. 641-642. ill. 7 ref. (NAL Call No.: 464.8 P56).

1067

Genetics of resistance to *Phytophthora* rot in soybean cultivar PI 171442.

Kilen, T.C. Keeling, B.L. Madison, Wis., Crop Science Society of America. Crop science. Nov/Dec 1981. v. 21 (6). p. 873-875. 10 ref. (NAL Call No.: 64.8 C883).

1068

Genotype, race, temperature, and cultivar effects on reaction type of unwounded soybean hypocotyls inoculated with zoospores of *Phytophthora megasperma* f. sp. *glycinea*. Buzzell, R.I. Ward, E.W.B.; Lazarovits, G.; Stossel, P. St. Paul, American Phytopathological Society. Phytopathology. July 1982. v. 72 (7). p. 801-804. 21 ref. (NAL Call No.: 464.8 P56).

1069

Germination of oospores of *Phytophthora megasperma* f. sp. *glycinea* in the presence of soil (Root and stem rot of soybeans, *Glycine max*).

Jimenez, B. Lockwood, J.L. St. Paul, American Phytopathological Society. Phytopathology. June 1982. v. 72 (6). p. 662-666. 22 ref. (NAL Call No.: 464.8 P56).

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1070

Greenhouse determination of soybean tolerance to phytophthora rot (*Phytophthora megasperma glycinea*, cultivars).
Buzzell, R.I. Mortimore, C.G.; Haas, J.H. Ames, Iowa, The Service. Soybean genetics newsletter - United States, Agricultural Research Service. Apr 1982. v. 9. p. 30-32. 3 ref. (NAL Call No.: aSB205.S7S6).

1071

Heritability of tolerance to *Phytophthora* rot in soybean (*Glycine max*).
Walker, A.K. Schmitthenner, A.F. Madison, Wis. : Crop Science Society of America. Crop science. May/June 1984. v. 24 (3). p. 490-491. Includes references. (NAL Call No.: 64.8 C883).

1072

Histological studies of resistance to soybean rust, *Phakopsora pachyrhizi* Syd.
McLean, R.J. Melbourne, Commonwealth Scientific and Industrial Research Organization. Australian journal of agricultural research. Jan 1979. v. 30 (1). p. 77-84. ill. 20 ref. (NAL Call No.: 23 AU783).

1073

Histopathology of susceptible and resistant soybean roots inoculated with zoospores of *Phytophthora megasperma* f. sp. *glycinea* (*Glycine max*).
Beagle-Ristaino, J.F. PHYTA. Rissler, J.F. St. Paul : American Phytopathological Society. Phytopathology. Apr 1983. v. 73 (4). p. 590-595. ill. Includes references. (NAL Call No.: 464.8 P56).

1074

Host-pathogen interactions. XV. Fungal glucans which elicit phytoalexin accumulation in soybean also elicit the accumulation of phytoalexins in other plants (*Phytophthora megasperma soja*, *Colletotrichum lindemuthianum*, kidney beans, potatoes).
Cline, K. Wade, M. Bethesda, American Society of Plant Physiologists. Plant physiology. Dec 1978. v. 62 (6). p. 918-921. ill. 29 ref. (NAL Call No.: 450 P692).

1075

Host-pathogen interactions. XVI. Purification and characterization of a beta-glucosyl hydrolase/transferase present in the walls of soybean cells (Phytoalexins, fungal pathogens).
Cline, K. Albersheim, P. Rockville, Md., American Society of Plant Physiologists. Plant physiology. July 1981. v. 68 (1). p. 207-220.

ill. 41 ref. (NAL Call No.: 450 P692).

1076

Host-pathogen interactions. XVII. Hydrolysis of biologically active fungal glucans by enzymes isolated from soybean cells (*Phytophthora megasperma*, phytoalexins).
Cline, K. Albersheim, P. Rockville, Md., American Society of Plant Physiologists. Plant physiology. July 1981. v. 68 (1). p. 221-228. ill. 19 ref. (NAL Call No.: 450 P692).

1077

Host-pathogen interactions. XVIII. Isolation and biological activity of glycinol, a pterocarpan phytoalexin synthesized by soybeans.
Weinstein, L.I. Hahn, M.G.; Albersheim, P. Rockville, Md., American Society of Plant Physiologists. Plant physiology. Aug 1981. v. 68 (2). p. 358-363. ill. 24 ref. (NAL Call No.: 450 P692).

1078

Host-pathogen interactions. XX. Biological variation in the protection of soybeans from infection by *Phytophthora megasperma* f. sp. *glycinea* (*Glycine max*, root and stem rot).
Desjardins, A.E. Ross, L.M.; Spellman, M.W.; Darvill, A. G.; Albersheim, P. Rockville, Md., American Society of Plant Physiologists. Plant physiology. Sept 3, 1981. v. 66 (17). p. 1046-1050. Includes 15 ref. (NAL Call No.: 450 P692).

1079

Host-pathogen interactions. XXII. A galacturonic acid oligosaccharide from plant cell walls elicits phytoalexins (*Glycine max*, soybeans, *Colletotrichum lindemuthianum*, *Erwinia carotovora*).
Nothnagel, E.A. PLPHA. McNeil, M.; Albersheim, P.; Dell, A. Rockville : American Society of Plant Physiologists. Plant physiology. Apr 1983. v. 71 (4). p. 916-926. Includes references. (NAL Call No.: 450 P692).

1080

Host specificity of *Phytophthora megasperma* from Douglas fir (*Pseudotsuga menziesii*), soybean, and alfalfa.
Hamm, P.B. Hansen, E.M. St. Paul, Minn., American Phytopathological Society. Phytopathology. Jan 1981. v. 71 (1). p. 65-68. 20 ref. (NAL Call No.: 464.8 P56).

1081

Hypocotyl reactions and glyceollin in soybeans inoculated with zoospores of *Phytophthora megasperma* var. *sojae*.

Ward, E.W.B. Lazarovits, G. St. Paul, Minn., American Phytopathological Society. *Phytopathology*. Sept 1979. v. 69 (9). p. 951-955. ill., plate. 14 ref. (NAL Call No.: 464.8 P56).

1082

Identification and quantitative characterization of rate-reducing resistance to *Phytophthora megasperma* f. sp. *glycines* in soybean seedlings (Root and stem rot).

Tooley, P.W. Grau, C.R. St. Paul, American Phytopathological Society. *Phytopathology*. July 1982. v. 72 (7). p. 727-733. 33 ref. (NAL Call No.: 464.8 P56).

1083

In vitro effects of glyceollin on *Phytophthora megasperma* f. sp. *glycinea* (Phytoalexins in plant host disease resistance, *Glycine max*, soybeans, *Phaseolus vulgaris*, kidney beans).

Stoszel, P. PHYTAU. St. Paul : American Phytopathological Society. *Phytopathology*. Dec 1983. v. 73 (12). p. 1603-1607. Includes references. (NAL Call No.: 464.8 P56).

1084

Increase in germination and vigor level of soybean seeds by benomyl field treatments.

Tao, K.L.J. AMS. Schoen, J.F.; Payne, R.C. n.p., The Association. The News letter of the Association of Official Seed Analysts. May 1980. v. 54 (2). p. 44-49. 15 ref. (NAL Call No.: 61.9 AS7N).

1085

Increased incidence of *Phomopsis* sp. in seeds from soybeans infected with bean pod mottle virus (*Glycine max*, *Phomopsis sojae*).

Stuckey, R.E. Ghabrial, S.A.; Reicosky, D.A. St. Paul, Minn., American Phytopathological Society. *Plant disease*. Sept 1982. v. 66 (9). p. 826-829. 16 ref. (NAL Call No.: 1.9 P69P).

1086

Induced teliospore formation by *Phakopsora pachyrhizi* on soybeans and other hosts.

Yeh, C.C. Tschanz, A.T.; Sinclair, J.B. St. Paul, Minn., American Phytopathological Society. *Phytopathology*. Oct 1981. v. 71 (10). p. 1111-1112. ill. 8 ref. (NAL Call No.: 464.8 P56).

1087

An inducer of soybean phytoalexin and its role in the resistance of soybeans to *phytophthora* rot / by James Anthony Frank.

Frank, James Anthony, 1940. 1970. Thesis (Ph.D.)--University of Illinois, 1970. Photocopy. Ann Arbor, Mich. : University Microfilms, 1971. iv, 26 leaves ; 21 cm. Bibliography: leaf 25. (NAL Call No.: DISS 71-14,748).

1088

Infection, colonization, and uredospore production on Wayne soybean by four cultures of *Phakopsora pachyrhizi*, the cause of soybean rust.

Melching, J.S. Bromfield, K.R. St. Paul, Minn., American Phytopathological Society. *Phytopathology*. Dec 1979. v. 69 (12). p. 1262-1265. ill. 13 ref. (NAL Call No.: 464.8 P56).

1089

Infection of soybeans with conidia of *Cercospora kikuchii*.

Chen, M.D. Lyda, S.D.; Halliwell, R.S. Bronx, N.Y., The New York Botanical Garden. *Mycologia*. Nov/Dec 1979. v. 71 (6). p. 1158-1165. ill. 16 ref. (NAL Call No.: 450 M99).

1090

Influence of brown stem rot and cropping history on soybean performance (*Phialophora gregata*, Fungi).

Kennedy, B.W. Lambert, J.W. St. Paul, Minn., American Phytopathological Society. *Plant disease*. Nov 1981. v. 65 (11). p. 896-897. 8 ref. (NAL Call No.: 1.9 P69P).

1091

The influence of soil temperature, moisture, porosity, and bulk density on the pathogenicity of *Phytophthora megasperma* var. *sojae* (Soybeans).

Kittle, D.R. Gray, L.E. Beltsville, Md., Science and Education Administration, U.S. Dept. of Agriculture. *Plant disease reporter*. Mar 1979. v. 63 (3). p. 231-234. ill. 14 ref. (NAL Call No.: 1.9 P69P).

1092

Influence of the herbicide, chloramben, on severity of root rot of soybean caused by *Thielaviopsis basicola* / by May Lee Chen.

Chen, May Lee, 1947. Ann Arbor, Mich. University Microfilms International 1977. Thesis--Michigan State University, 1975. Facsimile produced by microfilm-xerography. ix,

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72 : ill. ; 29 cm. Bibliography: leaves 67-72.
(NAL Call No.: DISS 76-18,646).

1093

Infusion and translocation of systemic fungicides applied to (cottonseed and soybean) seeds in acetone.

O'Neill, N.R. Papavizas, G.C. St. Paul, Minn., American Phytopathological Society. *Phytopathology*. July 1979. v. 69 (7). p. 690-694. ill. 13 ref. (NAL Call No.: 464.8 P56).

1094

Inheritance of resistance in soybeans to physiologic races 5, 6, 7, 8, and 9 of *Phytophthora megasperma* var. *sojae*.

Laviolette, F.A. Athrow, K.L. St. Paul, American Phytopathological Society. *Phytopathology*. Mar 1979. v. 69 (3). p. 270-271. ill. 3 ref. (NAL Call No.: 464.8 P56).

1095

Inhibition of photosynthesis and transpiration in soybean infected by *Microsphaera diffusa* (Powdery mildew).

Mignucci, J.S. Boyer, J.S. St. Paul, American Phytopathological Society. *Phytopathology*. Mar 1979. v. 69 (3). p. 227-230. ill. 33 ref. (NAL Call No.: 464.8 P56).

1096

Inhibition of soybean hypocotyl elongation by *Rhizoctonia solani*.

Grau, C.R. Martinson, C.A. St. Paul, Minn., American Phytopathological Society. *Phytopathology*. July 1979. v. 69 (7). p. 706-709. ill. 18 ref. (NAL Call No.: 464.8 P56).

1097

Inoculation of detached cotyledons for screening soybeans against two races of *Phytophthora megasperma* var. *sojae* (Resistance).

Morrison, R.H. Thorne, J.C. Madison, Crop Science Society of America. *Crop science*. Nov/Dec 1978. v. 18 (6). p. 1089-1091. ill. 10 ref. (NAL Call No.: 64.8 C883).

1098

Inoculation of soybean plants by injection with zoospores of *Phytophthora megasperma* var. *sojae* (Disease screening).

Schwenk, F.W. Ciaschini, C.A. St. Paul, Minn., American Phytopathological Society. *Phytopathology*. Dec 1979. v. 69 (12). p. 1233-1234. 13 ref. (NAL Call No.: 464.8 P56).

1099

Inoculation of soybean seedlings with zoospores of *Phytophthora megasperma* var. *sojae* for pathogenicity and race determination (root and stem rot disease).

Eye, L.L. Sneh, B. St. Paul, American Phytopathological Society. *Phytopathology*. Dec 1978. v. 68 (12). p. 1769-1773. ill. 19 ref. (NAL Call No.: 464.8 P56).

1100

Interaction of some adjuvants with the fungicides effective against soybean rust, *Phakopsora pachyrhizi* Syd.

Singh, K.P. Thapliyal, P.N. Pantnagar, India, M. G. Jackson. *Pantnagar journal of research*. Jan 1978. v. 3 (1). p. 65-68. ill. 11 ref. (NAL Call No.: S539.I5G6).

1101

Internally seedborne fungi of soybean in Puerto Rico and their effect on seed germination and field emergence.

Ellis, M.A. Paschal, E.H. Guildford. *Tropical agriculture*. Apr 1979. v. 56 (2). p. 171-174. ill. 8 ref. (NAL Call No.: 26 T754).

1102

Investigation of the mechanism of glyceollin accumulation in soybean infected by *Phytophthora megasperma* fl. sp. *glycinea*.

Moesta, P. Grisebach, H. New York, Academic Press. *Archives of biochemistry and biophysics*. Dec 1981. v. 212 (2). p. 462-467. ill. Includes 18 ref. (NAL Call No.: 381 AR2).

1103

Investigation of the mechanism of phytoalexin accumulation in soybean induced by glucan or mercuric chloride (Effect of resistance to *Phytophthora megasperma* f.sp. *glycinea*).

Moesta, P. Grisebach, H. New York, Academic Press. *Archives of biochemistry and biophysics*. Oct 1, 1981. v. 211 (1). p. 39-43. ill. 15 ref. (NAL Call No.: 381 AR2).

1104

Isolation and identification of two new (11)cytochalasins from *Phomopsis sojae* (Soybean fungal pathogen).
Cole, R.U. Wilson, D.M.; Harper, J.L.; Cox, R.H.; Cochran, T.W.; Cutler, H.G.; Bell, D.K. Washington, D.C., American Chemical Society. Journal of agricultural and food chemistry. Mar/Apr 1982. v. 30 (2). p. 301-304. Includes 11 ref. (NAL Call No.: 381 J8223).

1105

Isolation of *Gaeumannomyces graminis* var. *graminis* from soybeans in the Midwest (USA).
Roy, K.W. Abney, T.S.; Huber, D.M.; Keeler, R. St. Paul, Minn., American Phytopathological Society. Plant disease. Sept 1982. v. 66 (9). p. 822-825. ill. 10 ref. (NAL Call No.: 1.9 P69P).

1106

Laboratory method for assessing field tolerance of soybean seedlings to *Phytophthora megasperma* var. *sojae*.
Jimenez, B. St. Paul, Minn., American Phytopathological Society. Plant disease. Aug 1980. v. 64 (8). p. 775-778. ill. 21 ref. (NAL Call No.: 1.9 P69P).

1107

Leaf expansion of soybeans infected by *Phytophthora megasperma* var. *sojae*.
Kittle, D.R. Peters, D.B. St. Paul, American Phytopathological Society. Phytopathology. May 1979. v. 69 (5). p. 540. (NAL Call No.: 464.8 P56).

1108

Leaf infection and yield losses caused by brown spot and bacterial blight diseases of soybean (*Septoria glycines* and *Pseudomonas glycinea*).
Williams, D.J. APHIS. Nyvall, R.F. St. Paul, Minn., American Phytopathological Society. Phytopathology. Sept 1980. v. 70 (9). p. 900-902. 15 ref. (NAL Call No.: 464.8 P56).

1109

Light and electron microscopy of *Phytophthora* rot in soybeans treated with metalaxyl (*Phytophthora megasperma* var. *sojae*, *Glycine max*).
Stossel, P. Lazarovits, G.; Ward, E.W.B. St. Paul, Minn., American Phytopathological Society. Phytopathology. Jan 1982. v. 72 (1). p. 106-111. ill. Includes 24 ref. (NAL Call No.: 464.8 P56).

1110

Linkage relationships in soybean between genes controlling reactions to *phytophthora* rot and metribuzin.
Kilen, T.C. CRPSAY. Barrentine, W.L. Madison : Crop Science Society of America. Crop science. Sept/Oct 1983. v. 23 (5). p. 894-896. Includes references. (NAL Call No.: 64.8 C883).

1111

Measurement of mycorrhizal infection (fungus *Glomus fasciculatus*) in soybeans.
Bethlenfalvay, G.J. Pacovsky, R.S.; Brown, M.S. Madison, Wis., The Society. Soil Science Society of America journal. Sept/Oct 1981. v. 45 (5). p. 871-875. ill. 30 ref. (NAL Call No.: 56.9 S03).

1112

Measuring spray coverage on soybean leaves (Fungicides).
Carlton, J.B. Bouse, L.F.; O'Neal, H.P.; Walla, W.J. St. Joseph, Mich., The Society. Transactions of the ASAE - American Society of Agricultural Engineers. Sept/Oct 1981. v. 24 (5). p. 1108-1110. ill. 5 ref. (NAL Call No.: 290.9 AM32T).

1113

A method for devloymnt and maximum diversification in the use of brown stem rot (*Cephalosporium gregatum*) resistant soybeans.
Tachibana, H. St. Paul, American Phytopathological Society. Phytopathology. May 1979. v. 69 (5). p. 543. (NAL Call No.: 464.8 P56).

1114

Microorganisms associated with feeding and from various organs of *Nezara viridula* (capable of transmitting *Nematospora coryli*, the causative agent of yeast spot disease in soybean).
Ragsdale, D.W. Larson, A.D. College Park, Md., Entomological Society of America. Journal of economic entomology. Oct 1979. v. 72 (5). p. 725-731. ill. 13 ref. (NAL Call No.: 421 J822).

1115

Microscopic study of the infection process of *Macrophomina phaseolina* (Tassi) Goid. on *Glycine max* (L.) Merrill / by Vernon D. Ammon.
Ammon, Vernon D. (Vernon Dale), 1941. 1972. Thesis (Ph.D.)--University of Missouri, 1972. Photocopy of typescript. Ann Arbor: University Microfilms, 1973. viii, 104 leaves ; 21 cm. Bibliography: leaves (98)-104. (NAL Call No.: DISS 73-7,004).

(PLANT DISEASES - FUNGAL)

1116

Monitoring soybeans in Illinois for foliar diseases (*Septoria glycines*, *Peronospora manshurica*, *Pseudomonas glycinea*). Pataky, J.K. Lim, S.M. St. Paul, American Phytopathological Society. *Phytopathology*. May 1979. v. 69 (5). p. 541. (NAL Call No.: 464.8 P56).

1117

Mycelial development and control of *Phomopsis sojae* in artificially inoculated soybean stems. Hill, H.C. Horn, N.L.; Steffens, W.L. St. Paul, Minn., American Phytopathological Society. *Plant disease*. Feb 1981. v. 65 (2). p. 132-134. ill. 5 ref. (NAL Call No.: 1.9 P69P).

1118

Mycorrhizal enhancement of water transport in soybean, Part I. : Mechanisms of mycorrhizal enhancement of water transport in soybean, Part II. / by Gene Robert Safir. Safir, Gene Robert, 1944. 1970. Thesis (Ph.D.)--University of Illinois, 1970. Photocopy. Ann Arbor, Mich. : University Microfilms, 1971. iv, 33 leaves ; 21 cm. Bibliography: leaves 31-32. (NAL Call No.: DISS 71-14,935).

1119

Neocosmospora (Vasinfesta) stem rot of soybeans in Alabama. Gray, F.A. Rodriguez-Kabana, R.; Adams, J.R. St. Paul, Minn., American Phytopathological Society. *Plant disease*. Mar 1980. v. 64 (3). p. 321-322. ill. 4 ref. (NAL Call No.: 1.9 P69P).

1120

New disease-resistant soybean (Vickery, variety, *Phytophthora megasperma* var. *sojae*). Walker, A.K. DH-AR-NC. Schmitthenner, A.F.; Cooper, R.L.; Martin, R.J. Wooster, The Center. Ohio report on research and development in agriculture, home economics, and natural resources. Ohio. Agricultural Research and Development Center. Mar/Apr 1980. v. 65 (2). p. 24-25. (NAL Call No.: 100 DH35 (3)).

1121

A new major gene for resistance to *Phytophthora megasperma* var. *sojae* in soybean. Athrow, K.L. AR-NC. Laviolette, F.A.; Mueller, E.H.; Wilcox, J.R. St. Paul, Minn., American Phytopathological Society. *Phytopathology*. Oct 1980. v. 70 (10). p. 977-980. 7 ref. (NAL Call No.: 464.8 P56).

1122

New physiological race of *Peronospora manshurica* virulent to the gene Rpm in soybeans (*Glycine max*, Illinois). Lim, S.M. Bernard, R.L.; Nickell, C.D.; Gray, L.E. St. Paul, American Phytopathological Society. *Plant disease*. Jan 1984. v. 68 (1). p. 71-72. maps. Includes references. (NAL Call No.: 1.9 P69P).

1123

Parasitic and mutualistic associations between a mycorrhizal fungus and soybean: development of the host plant. Bethlenfalvay, G.J. Brown, M.S.; Pacovsky, R.S. St. Paul, American Phytopathological Society. *Phytopathology*. July 1982. v. 72 (7). p. 889-893. ill. 26 ref. (NAL Call No.: 464.8 P56).

1124

Pectic enzymes involved in charcoal rot disease of soybean. Bryant, William Edward, 1938. Ann Arbor, Mich. University Microfilms 1971. Thesis--University of Missouri, 1970. xv, 69 leaves. Bibliography: leaves (63)-69. (NAL Call No.: DISS 71-8,296).

1125

Performance of foliar fungicides on soybeans in Georgia (Yields, maturation delay). Phillips, D.V. St. Paul, Minn. : American Phytopathological Society. *Plant disease*. July 1984. v. 68 (7). p. 558-560. Includes references. (NAL Call No.: 1.9 P69P).

1126

Pest control in soybeans, 1980. Doersch, R.E. WI. Doll, J.D.; Harvey, R.G.; Wedberg, J.L.; Grau, C.R. Madison, Wis., The Programs. Publication - Cooperative Extension Programs. University of Wisconsin - Extension. Wisconsin. University. Cooperative Extension Programs. Jan 1980. Jan 1980. (A2782). 28 p. (NAL Call No.: S544.3.W6W53).

1127

Pesticide inhibition of the entomogenous fungus *Nomuraea rileyi* in soybeans. Horton, D.L. Carner, G.R.; Turnipseed, S.G. College Park, Md., Entomological Society of America. *Environmental entomology*. June 15, 1980. v. 9 (3). p. 304-308. ill. 14 ref. (NAL Call No.: QL461.E532).

1128

Phyllosticta sojaecola (leaf spot) on pods of soybeans in Arkansas.
Walters, H.J. Martin, K.F. St. Paul, Minn., American Phytopathological Society. Plant disease. Feb 1981. v. 65 (2). p. 161-162. ill. 5 ref. (NAL Call No.: 1.9 P69P).

1129

Physiological studies on four species of Fusarium pathogenic to soybean.
Agarwal, D.K. Sarbhoy, A.K. New Delhi, Indian Phytopathological Society. Indian phytopathology. Mar 1978. v. 31 (1). p. 24-31. ill. 26 ref. (NAL Call No.: 464.8 IN2).

1130

Phytoalexin elicitor activity of carbohydrates from Phytophthora megasperma f.sp. glycinea and other sources (Pathogenic on Glycine max, soybeans).
Keen, N.T. PLPHA. Yoshikawa, M.; Wang, M.C. Rockville : American Society of Plant Physiologists. Plant physiology. Mar 1983. v. 71 (3). p. 466-471. Includes references. (NAL Call No.: 450 P692).

1131

Phytophthora root rot of soybeans in Maryland.
Beagle, J.E. Rissler, J.F.; Kantzes, J.G. St. Paul, Minn., American Phytopathological Society. Plant disease. May 1982. v. 65 (5). p. 371-372. Includes 8 ref. (NAL Call No.: 1.9 P69P).

1132

Phytophthora root and stem rot of soybeans.
Nyvall, Robert F. Tachibana, Hideo. Document available from: Iowa State University, Publications Distribution, Printing & Publications Bldg., Ames, Iowa 50011 1979. This publication phytophthora rot disease identification, causes, and control practices. 1 sheet : ill. (NAL Call No.: Document available from source.). (NAL Call No.: Pm-914).

1133

Phytophthora root and stem rot of soybeans (Phytophthora megasperma sojae).
Hart, P. Lockwood, J.; Helsel, Z. East Lansing, Mich., The Service. Extension bulletin E - Cooperative Extension Service, Michigan State University. May 1981. May 1981. (1511). 2 p. ill. (NAL Call No.: 275.29 M58B).

1134

Plant disease detection and Minnesota crop disease problems (Maize dwarf mosaic virus, soybean cyst nematode, Heterodera glycines, and head scab caused by Fusarium spp.).
Stromberg, E.L. APHIS. Minneapolis, The Council. Crop production conference report - Crop Quality Council. Crop Quality Council. 1978. 1978. (45th). p. 37-40. 2 ref. (NAL Call No.: 464.9 N813).

1135

Potash and foliar fungicides team-up to increase yields (Tennessee soybean research).
Atlanta : Potash & Phosphate Institute. Better crops with plant food. Spring 1983. v. 67. p. 22-23. ill. (NAL Call No.: 6 B46).

1136

Potassium fertilization effects on Phomopsis seed infection, seed quality, and yield of soybeans (Glycine max).
Jeffers, D.L. Schmitthenner, A.F.; Kroetz, M.E. Madison, Wis., American Society of Agronomy. Agronomy journal. Sept/Oct 1982. v. 74 (5). p. 886-890. 12 ref. (NAL Call No.: 4 AM34P).

1137

Powdery mildew (Microsphaera diffusa) cuts soybean yields (Iowa).
Pierce, R. SEA-WO-AR-NC. Washington, D.C., The Administration. Agricultural research - U.S. Department of Agriculture, Science and Education Administration. United States. Dept. of Agriculture. Science and Education Administration. Mar 1980. v. 28 (9). p. 13. (NAL Call No.: 1.98 AG84).

1138

Powdery mildew (Microsphaera diffusa) development on soybeans with adult-plant resistance (Cultivars, resistance).
Mignucci, J.S. Lim, S.M. St. Paul, Minn., American Phytopathological Society. Phytopathology. Sept 1980. v. 70 (9). p. 919-921. 9 ref. (NAL Call No.: 464.8 P56).

1139

Powdery mildew on soybean in Delaware (Microsphaera diffusa, Fungi).
Leath, S. Carroll, R.B. St. Paul, Minn., American Phytopathological Society. Plant disease. Jan 1982. v. 66 (1). p. 70-71. 12 ref. (NAL Call No.: 1.9 P69P).

(PLANT DISEASES - FUNGAL)

1140

Predictive systems for scheduling foliar fungicides on soybeans.

Stuckey, R.E. Moore, W.F.; Wrather, J.A. St. Paul, Minn. : American Phytopathological Society. Plant disease. Aug 1984. v. 68 (8). p. 743-744. maps. (NAL Call No.: 1.9 P69P).

1141

Predisposition to seed infection by *Phomopsis sojae* in soybean plants infected by soybean mosaic virus.

Hepperly, P.R. Bowers, G.R. Jr. St. Paul, Minn., American Phytopathological Society. Phytopathology. Aug 1979. . 69 (8). p. 846-848. ill. 10 ref. (NAL Call No.: 464.8 P56).

1142

Prescribed resistant cultivars for controlling brown stem rot of soybean and managing resistance genes (*Phialophora gregata*).

Tachibana, H. St. Paul, Minn., American Phytopathological Society. Plant disease. Mar 1982. v. 66 c (3). p. 271-273. ill. Includes 3 ref. (NAL Call No.: 1.9 P69P).

1143

Production and pathogenicity of oospores of *Phytophthora megasperma* var. *sojae* (Soybeans).

Kittle, D.R. Gray, L.E. Beltsville, Md., Science and Education Administration, U.S. Dept. of Agriculture. Plant disease reporter. Aug 1979. v. 63 (8). p. 628-631. ill. 16 ref. (NAL Call No.: 1.9 P69P).

1144

Production of conidia by *Cercospora kikuchii* in culture (Soybean breeding for resistance).

Vathakos, M.G. Walters, H.J. St. Paul, Minn., American Phytopathological Society. Phytopathology. Aug 1979. . 69 (8). p. 832-833. 12 ref. (NAL Call No.: 464.8 P56).

1145

Quality losses in *Phomopsis* (sojae)-infected soybean seeds (Pod and stem blight).

Hepperly, P.R. Sinclair, J.B. St. Paul, American Phytopathological Society. Phytopathology. Dec 1978. v. 68 (12). p. 1684-1687. ill. 28 ref. (NAL Call No.: 464.8 P56).

1146

The quality of soybean seed as affected by benomyl (foliar fungicide) treatment.

Johnson, R.R. Keith, G.M. Urbana, Agricultural Experiment Station. Illinois research. Winter 1979. v. 21 (1). p. 8-9. ill. (NAL Call No.: 100 IL64).

1147

Race determination of *Phytophthora megasperma* var. *sojae*, using differential soybean varieties inoculated with zoospores or incubated on flooded soil samples.

Lockwood, J.L. Cohen, S.D. Beltsville, Md., Plant Science Research Division, Agricultural Research Service, U.S. Dept. of Agriculture. Plant disease reporter. Dec 1978. v. 62 (12). p. 1019-1021. ill. 8 ref. (NAL Call No.: 1.9 P69P).

1148

Race-specific molecules that protect soybeans from *Phytophthora megasperma* var. *sojae*.

Wade, M. Albersheim, P. Washington, D.C., The Academy. Proceedings. National Academy of Sciences. Sept 1979. v. 76 (9). p. 4433-4437. ill. 26 ref. (NAL Call No.: 500 N21P).

1149

Races of *Phytophthora megasperma* f. sp. *glycinea* in Wisconsin (Root and stem rot of soybean).

Tooley, P.W. Grau, C.R.; Stough, M.C. St. Paul, Minn., American Phytopathological Society. Plant disease. June 1982. v. 66 (6). p. 472-475. Includes 23 ref. (NAL Call No.: 1.9 P69P).

1150

Rapid assay for systemic fungicides against *Phytophthora* (megasperma) rot of soybeans.

Lazarovits, G. Unwin, C.H.; Ward, W.B. St. Paul, Minn., American Phytopathological Society. Plant disease. Feb 1980. v. 64 (2). p. 163-165. ill. 4 ref. (NAL Call No.: 1.9 P69P).

1151

A receptor on soybean membranes for a fungal elicitor of phytoalexin accumulation (*Glycine max*, *Phytophthora palmivora*, *Phytophthora megasperma* f. sp. *glycinea*, *Phytophthora cinnamomi*).

Yoshikawa, M. PLPHA. Keen, N.T.; Wang, M.C. Rockville : American Society of Plant Physiologists. Plant physiology. Oct 1983. v. 73 (2). p. 497-506. Includes references. (NAL Call No.: 450 P692).

1152

Reduction in Fusarium (oxysporum and Fusarium solani) populations in soil by oilseed meal amendments (Soybean soilborne rots, control). Zakaria, M.A. Lockwood, J.L. St. Paul, Minn., American Phytopathological Society. Phytopathology. Mar 1980. v. 70 (3). p. 240-243. ill. 16 ref. (NAL Call No.: 464.8 P56).

1153

Relationship among Cercospora kikuchii, other seed mycoflora, and germination of soybeans in Puerto Rico and Illinois. Hepperly, P.R. Sinclair, J.B. St. Paul, Minn., American Phytopathological Society. Plant disease. Feb 1981. v. 65 (2). p. 130-132. 12 ref. (NAL Call No.: 1.9 P69P).

1154

Relationship between brown spot (Septoria glycines) severities and yield losses in soybeans. Lim, S.M. St. Paul, American Phytopathological Society. Phytopathology. May 1979. v. 69 (5). p. 540-541. (NAL Call No.: 464.8 P56).

1155

Relationship between localized glyceollin accumulation and metalaxyl treatment in the control of Phytophthora rot in soybean hypocotyls (Phytophthora megasperma f. sp. glycinea, Glycine max). Lazarovits, G. Ward, E.W.B. St. Paul, Minn., American Phytopathological Society. Phytopathology. Sept 1982. v. 72 (9). p. 1217-1221. ill. 25 ref. (NAL Call No.: 464.8 P56).

1156

Relationship between weather and soybean seed infection by Phomopsis sp. (Glycine max). TeKrony, D.M. PHYTA. Egli, D.B.; Stuckey, R.E.; Balles, J. St. Paul : American Phytopathological Society. Phytopathology. June 1983. v. 73 (6). p. 914-918. Includes references. (NAL Call No.: 464.8 P56).

1157

Relationship of infection and damping-off of soybean to inoculum density of Pythium ultimum (Glycine max). Ferriss, R.S. PHYTA. St. Paul : American Phytopathological Society. Phytopathology. Nov 1982. v. 72 (11). p. 1397-1403. 28 ref. (NAL Call No.: 464.8 P56).

1158

Report of Southern Soybean Disease Workers Seed Treatment Committee, 1980 (Soybean (Glycine max 'Bedford'), seedling disease; Rhizoctonia, Fusarium, Pythium, etc.). McDaniel, M.C. (s.l.), The Society. Fungicide and nematicide tests; results - American Phytopathological Society. 1982. v. 37. p. 157-159. (NAL Call No.: 464.9 AM31R).

1159

Resistance evaluation and inheritance of a nonchlorotic response to brown spot (Septoria glycines) of soybean. Young, L.D. Ross, J.P. Madison, Crop Science Society of America. Crop science. Nov/Dec 1978. v. 18 (6). p. 1075-1077. ill. 8 ref. (NAL Call No.: 64.8 C883).

1160

Resistance of soybean cultivars to Sclerotinia sclerotiorum. Grau, C.R. Radke, V.L.; Gillespie, F.L. St. Paul, Minn., American Phytopathological Society. Plant disease. June 1982. v. 66 (6). p. 506-508. ill. Includes 15 ref. (NAL Call No.: 1.9 P69P).

1161

Resistance to soybean rust (Phakopsora pachyrhizi) and mode of inheritance. Bromfield, K.R. AR-NE-AR-SO. Hartwig, E.E. Madison, Wis., Crop Science Society of America. Crop science. Mar/Apr 1980. v. 20 (2). p. 254-255. ill. 9 ref. (NAL Call No.: 64.8 C883).

1162

Response of soybean strains to artificial inoculation with Nematospora coryli (Yeast spot disease). Keeling, B.L. Hartwig, E.E.; Jackson, E.L. Madison, Wis., Crop Science Society of America. Crop science. Jan/Feb 1981. v. 21 (1). p. 73-75. 7 ref. (NAL Call No.: 64.8 C883).

1163

Response of soybeans and soybean pathogens to soil fumigation and foliar fungicide sprays. Kittle, D.R. Gray, L.E. St. Paul, Minn., American Phytopathological Society. Plant disease. Mar 1982. v. 66 c (3). p. 213-215. Includes 20 ref. (NAL Call No.: 1.9 P69P).

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1164

Responses to Septoria glycines of soybeans nearly isogenic except for seed color (Glycine max, brown spot).

Lim, S.M. PHYTA. St. Paul : American Phytopathological Society. Phytopathology. May 1983. v. 73 (5). p. 719-722. Includes references. (NAL Call No.: 464.8 P56).

1165

Rhizoctonia web blight of soybeans in Puerto Rico (Rhizoctonia solani).

Hepperly, P.R. Mignucci, J.S.; Sinclair, J.B.; Smith, R.S.; Judy, W.H. St. Paul, Minn., American Phytopathological Society. Plant disease. Mar 1982. v. 66 c (3). p. 256-257. Includes 13 ref. (NAL Call No.: 1.9 P69P).

1166

Ridomil fungicide as a seed and soil treatment versus genetic resistance for control Phytophthora rot of soybeans, 1979 (Soybean (Glycine max 'Marshall', 'Harosoy', 'Corsoy', 'Harcor', 'Vickery'), pre- and postemergence damping-off, root rot, Phytophthora megasperma var. sojae).

Tachibana, H. Thompson, R.A. (s.l.), The Society. Fungicide and nematicide tests; results - American Phytopathological Society. 1980. v. 35. p. 193-194. (NAL Call No.: 464.9 AM31R).

1167

Ridomil fungicide as a seed and soil treatment vs genetic resistance for control of Phytophthora rot of soybeans, 1980 (Soybean (Glycine max 'Marshall', 'Corsoy', 'Harcor', 'Vickery'), pre- and postemergence damping-off, root rot Phytophthora megasperma, Phytophthora megasperma var sojae).

Tachibana, H. Hatfield, J.D. (s.l.), The Society. Fungicide and nematicide tests; results - American Phytopathological Society. 1981. v. 36. p. 164-165. (NAL Call No.: 464.9 AM31R).

1168

Rps 6, a major gene for resistance to Phytophthora megasperma f. sp. glycinea in soybean (Glycine max).

Athow, K.L. PHYTA. Lavolette, F.A. St. Paul : American Phytopathological Society. Phytopathology. Dec 1982. v. 72 (12). p. 1564-1567. 10 ref. (NAL Call No.: 464.8 P56).

1169

Salvage of New York soybean seeds following an epiphytotic of seedborne pathogens (Phomopsis sojae and Fusarium spp.) associated with delayed (soybean) harvest.

Nedrow, B.L. Harman, G.E. St. Paul, Minn., American Phytopathological Society. Plant disease. July 1980. v. 64 (7). p. 696-698. 9 ref. (NAL Call No.: 1.9 P69P).

1170

Sclerotinia blight of soybean caused by Sclerotinia minor and Sclerotinia sclerotiorum.

Phipps, P.M. Porter, D.M. St. Paul, Minn., American Phytopathological Society. Plant disease. Feb 1982. v. 66 (2). p. 163-165. Includes 10 ref. (NAL Call No.: 1.9 P69P).

1171

Sclerotinia stem rot (white mold) of soybean (Sclerotinia sclerotiorum, includes resistant and susceptible varieties).

Grau, C.R. Heimann, M.F. Madison : The Programs. Publication - Cooperative Extension Programs. University of Wisconsin - Extension. 1982. 1982. (A3172). 2 p. ill. (NAL Call No.: S544.3.W6W53).

1172

Screening methodology for resistance to field weathering of soybean seed (Genotypes, Phomopsis pathogens, seed storability).

Dassou, S. Kueneman, E.A. Madison, Wis. : Crop Science Society of America. Crop science. July/Aug 1984. v. 24 (4). p. 774-779. ill. Includes references. (NAL Call No.: 64.8 C883).

1173

A second report on induced mutations for soybean rust resistance.

Smutkupt, S. Wongpiyasatid, A.; Lamseejan, S. Ames, Iowa, The Service. Soybean genetics newsletter - United States, Agricultural Research Service. Apr 1982. v. 9. p. 103-107. 3 ref. (NAL Call No.: aSB205.S7S6).

1174

Seed-borne fungi, quality, and yield of soybeans treated with benomyl fungicide by various application methods.

Jeffers, D.L. Schmitthenner, A.F.; Reichard, D.L. Madison, Wis., American Society of Agronomy. Agronomy journal. July/Aug 1982. v. 74 (4). p. 589-592. 10 ref. (NAL Call No.: 4 AM34P).

1175

The seed-borne nature of some soybean pathogens, the effect of *Phomopsis* spp. and *Bacillus subtilis* on germination, and their occurrence in soybeans produced in Illinois. Sinclair, J.B. Zurich, International Seed Testing Association. Seed science and technology. 1978. v. 6 (4). p. 957-964. ill. 24 ref. (NAL Call No.: SB117.S455).

1176

Seed mycoflora of soybeans relative to fungal interactions, seedling emergence, and carry over of pathogens to subsequent crops. McGee, D.C. Brandt, C.L.; Burris, J.S. St. Paul, Minn., American Phytopathological Society. Phytopathology. July 1980. v. 70 (7). p. 615-617. 18 ref. (NAL Call No.: 464.8 P56).

1177

Seed quality of soybean maturity groups as affected by planting dates in north Florida (*Glycine max*, fungal infection). Shokes, F.M. Herzog, D.C.; Wright, D.L. (S.I.) : The Society. Proceedings - Soil and Crop Science Society of Florida. 1983. v. 42. p. 117-122. ill. Includes references. (NAL Call No.: 56.9 S032).

1178

Seedling diseases caused in soybean by species of *Colletotrichum* and *Glomerella* (*Glycine max*, anthracnose fungi). Roy, K.W. St. Paul, Minn., American Phytopathological Society. Phytopathology. Aug 1982. v. 72 (8). p. 1093-1096. ill. 12 ref. (NAL Call No.: 464.8 P56).

1179

A seedling test for resistance to soybean stem canker caused by *Diaporthe phaseolorum* var. *caulivora* (*Glycine max*). Keeling, B.L. St. Paul, American Phytopathological Society. Phytopathology. July 1982. v. 72 (7). p. 807-809. ill. 11 ref. (NAL Call No.: 464.8 P56).

1180

Selection for resistance to four races of *Phytophthora megasperma* var. *sojae* in soybean. Kilen, T.C. Madison, Wis., Crop Science Society of America. Crop science. Sept/Oct 1979. v. 19 (5). p. 581-582. ill. 8 ref. (NAL Call No.: 64.8 C883).

1181

Sequential screening of soybean plants for resistance to *Phytophthora* rot and brown stem rot (*Glycine max*, *Phytophthora megasperma*, *Phialophora gregata*). Sebastian, S.A. CRPSA. Nickell, C.D.; Gray, L.E. Madison : Crop Science Society of America. Crop science. Nov/Dec 1983. v. 23 (6). p. 1214-1215. Includes references. (NAL Call No.: 64.8 C883).

1182

Similarities between age-related and race-specific resistance of soybean hypocotyls to *Phytophthora megasperma* var. *sojae*. Ward, E.W.B. Stossel, P.; Lazarovits, G. Laramie, The Station. Science monograph - University of Wyoming, Agricultural Experiment Station. May 1981. v. 71 (5). p. 504-508. 25 ref. (NAL Call No.: S131.E2).

1183

Simultaneous selection for yield and resistance to brown stem rot of soybean in hill plots (*Phialophora gregata*, cultivars). Ertl, D.S. CRPSA. Fehr, W.R. Madison : Crop Science Society of America. Crop science. July/Aug 1982. v. 23 (4). p. 680-682. Includes references. (NAL Call No.: 64.8 C883).

1184

Soybean and peanut seed treatment: new developments and needs (*Glycine max*, *Arachis hypogaea*, soilborne and seedborne pathogens, fungicides, biocontrol agents). Phipps, P.M. St. Paul, American Phytopathological Society. Plant disease. Jan 1984. v. 68 (1). p. 76-77. (NAL Call No.: 1.9 P69P).

1185

Soybean brown stem rot. Nyvall, Robert F. Tachibana, Hideo. Document available from: Iowa State University, Publications Distribution, Printing & Publications Bldg., Ames, Iowa 50011 1979. This publication discusses the cause, symptoms, and control of brown stem rot in soybeans. 1 sheet : ill. (NAL Call No.: Document available from source.). (NAL Call No.: Pm-890).

1186

Soybean disease studies (a preliminary report) (*Glomerella glycines*, *Diaporthe phaseolorum*, *Cercospora sojae*, *Rhizoctonia solani*). Griffin, J.L. Berggren, G.T.; Habetz, R.U.; Regan, R.P. Crowley : The Station. Annual progress report - Louisiana, Rice Experiment

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Station. 1982. 1982. (74th). p. 386-389. (NAL Call No.: 100 L93 (3)).

1187

Soybean diseases control research (Pythium spp., Rhizoctonia solani).
Rabb, J.L. LA. Horn, N.L.; Willis, L.D. Jr. Bossier City, The Station. Annual research report - Red River Valley Agricultural Experiment Station. Louisiana. Red River Valley Agricultural Experiment Station. 1979. 1979. p. 179-180. (NAL Call No.: 100 L9333).

1188

Soybean diseases (Fungal, bacterial, viral).
Crowe, F. Manhattan, Kan., The Service. C - Kansas State University, Cooperative Extension Service. May 1982. May 1982. (449). p. 16-19. (NAL Call No.: 275.29 K13EX).

1189

Soybean emergence in clay soil and tolerance to phytophthora rot (Phytophthora megasperma, cultivars).
Buzzell, R.I. Anderson, T.R. Ames, Iowa, The Service. Soybean genetics newsletter - United States, Agricultural Research Service. Apr 1982. v. 9. p. 29-30. 2 ref. (NAL Call No.: aSB205.S756).

1190

Soybean Fusarium and Rhizoctonia root rot.
Nyvall, R.F. IA. Ames, Iowa, The Service. PM - Cooperative Extension Service, Iowa State University. Iowa State University of Science and Technology, Ames. Cooperative Extension Service. Apr 1980. Apr 1980. (946). 2 p. ill. (NAL Call No.: 275.29 I09PA).

1191

Soybean (Glycine max 'Centennial'), Cercospora leaf blight; Cercospora kikuchii, anthracnose; Colletotrichum dematium var. truncata, pod and stem blight; Diaporthe phaseolorum).
Edwards, N.C. Sciombato, G.L. (s.l.), The Society. Fungicide and nematicide tests; results - American Phytopathological Society. 1981. v. 36. p. 95. (NAL Call No.: 464.9 AM31R).

1192

Soybean leaf blight caused by Cercospora kikuchii.

Walters, H.J. St. Paul, Minn., American Phytopathological Society. Plant disease. Oct 1980. v. 64 (10). p. 961-962. ill. 13 ref. (NAL Call No.: 1.9 P69P).

1193

Soybean rust: some considerations relevant to threat analysis (Phakopsora pachyrhizi).

Bromfield, K.R. Amsterdam, Elsevier Scientific Publishing Company. Protection ecology. Nov 1980. Literature review. v. 2 (3). p. 251-257. 15 ref. (NAL Call No.: S589.7.P7).

1194

Soybean seed and soil fungicide evaluation with no-till and conventional plow-plant systems, 1980 (Soybean (Glycine max 'McCurdy ML3'), pre- and postemergence damping-off, various seed and soil-borne organisms).

Shokes, F.M. Sprenkel, R.K.; Wright, D.L. (s.l.), The Society. Fungicide and nematicide tests; results - American Phytopathological Society. 1981. v. 36. p. 164. (NAL Call No.: 464.9 AM31R).

1195

Soybean seed decay: sources of inoculum and nature of infection (Phomopsis sp. and Diaporthe spp., spread of soybean plant populations).

Kmetz, K.T. Ellett, C.W. St. Paul, Minn., American Phytopathological Society. Phytopathology. Aug 1979. Aug 1979. . 69 (8). p. 798-801. ill. 14 ref. (NAL Call No.: 464.8 P56).

1196

Soybean seed lot contamination by Melanopsichium pennsylvanicum smut galls (Comparison with Melanopsichium missouriense).

Schiller, C.T. Sinclair, J.B. St. Paul, American Phytopathological Society. Phytopathology. June 1979. v. 69 (6). p. 605-608. ill. 7 ref. (NAL Call No.: 464.8 P56).

1197

Soybean seed quality losses associated with bean leaf beetles and Alternaria tenuissima (Glycine max, Cerotoma trifurcata).

Shortt, B.J. Sinclair, J.B.; Helm, C.G.; Jeffords, M.R.; Kogan, M. St. Paul, American Phytopathological Society. Phytopathology. June 1982. v. 72 (6). p. 615-618. ill. 11 ref. (NAL Call No.: 464.8 P56).

1198

Soybean seed treatment (to control Diaporthe infection) and storage study--1978.

Sullivan, G.A. n.p., The Association. News letter. Association of Official Seed Analysts. May 1979. v. 53 (2). p. 40-41. ill. (NAL Call No.: 61.9 AS7N).

1199

Soybean seed treatments, 1981 (Soybean (Glycine max 'Amsoy 71'), pre- and postemergence damping-off; Phomopsis sp., seed- and soil-borne microorganisms).

Mueller, J.D. Manandhar, J.B.; Bisht, V.S.; Sinclair, J.B. (s.l.), The Society. Fungicide and nematicide tests; results - American Phytopathological Society. 1982. v. 37. p. 173. (NAL Call No.: 464.9 AM31R).

1200

Soybean seed treatments, 1982 (Fungicides used for pre- and postemergence damping off, seed and soilborne microorganisms, Glycine max).

Datnoff, L.E.FNETD. Cubeta, M.A.; Bisht, V.S.; Thapliyal, P.N.; Sinclair, J.B. (s.l.): The Society. Fungicide and nematicide tests: results - American Phytopathological Society. 1983. v. 38. p. 32. (NAL Call No.: 464.9 AM31R).

1201

Soybean stem canker, a major disease in 1981 (caused by the fungus Diaporthe phaseolorum, Tennessee).

Hilty, J.W.TFHS. Knoxville: The Station. Tennessee farm and home science - Tennessee Agricultural Experiment Station. Oct/Dec 1981. Oct/Dec 1981. (120). p. 16-17. ill. (NAL Call No.: 100 T25F).

1202

Soybean stem canker: a serious disease in Alabama (Diaporthe phaseolorum).

Backman, P.A. Crawford, M.A.; White, J. Auburn, The Station. Highlights of agricultural research - Alabama, Agricultural Experiment Station. Winter 1981. v. 28 (4). p. 6. ill. (NAL Call No.: 100 AL1H).

1203

Soybean varieties: fungicide seed treatments, foliar fungicides, nematicides.

Schmitt, D.P. Ross, J.P. Raleigh, N.C., The Service. AG - North Carolina State University, Agricultural Extension Service. Aug 1980. Aug 1980. (218, suppl.). 4 p. (NAL Call No.: S544.3.N6N62).

1204

Stem canker: a soybean disease recently found in Louisiana (Diaporthe phaseolorum var. caulivora, symptoms).

Snow, J.P. Berggeren, G.T.; Harville, B.G.; Whitman, H.K. Baton Rouge, La.: The Station. Louisiana agriculture - Louisiana Agricultural Experiment Station. Spring 1984. v. 27 (3). p. 8-9, 24. ill., maps. (NAL Call No.: 100 L939).

1205

Stimulation of oospore production in Phytophthora megasperma f. sp. medicaginis by medicarpin (Medicago sativa, alfalfa, Canavalia ensiformis, jack beans, Glycine max, soybeans). Vaziri, A.PHYTA. Keen, N.T.; Erwin, D.C. St. Paul: American Phytopathological Society. Phytopathology. May 1983. v. 73 (5). p. 730-734. Includes references. (NAL Call No.: 464.8 P56).

1206

Storage and use of Phytophthora megasperma var. sojae oospores as inoculum (causes of root and stem rot in soybeans).

Kittle, D.R. Gray, L.E. St. Paul, Minn., American Phytopathological Society. Phytopathology. Aug 1979. Aug 1979. . 69 (8). p. 821-823. ill. 19 ref. (NAL Call No.: 464.8 P56).

1207

Studies on the epidemic regulation and control of soybean rust caused by Phakopsora pachyrhizi Sydow.

Tan, Y.J.ISSODB. Yu, Z.L.; Liu, J.L. Urbana: International Agricultural Publications, College of Agriculture, University of Illinois. INTSOY International Soybean Program series. July 1983. July 1983. (25). p. 169-174. Includes references. (NAL Call No.: TX558.S715).

1208

Suppression of anthracnose of soybeans by calcium (Caused by Colletotrichum dematium).

Muchovej, J.U. Muchovej, R.M.C.; Dhingra, O.D.; Maffia, L.A. St. Paul, Minn., American Phytopathological Society. Plant disease. Dec 1980. v. 64 (12). p. 1088-1089. ill. 12 ref. (NAL Call No.: 1.9 P69P).

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1209

Surface disinfection of soybean seeds for selective recovery of seedborne microorganisms (*Phomopsis sojae*, *Bacillus subtilis*, *Cercospora kikuchii*, *Cercospora sojae*).

Grybauskas, A.P. Sinclair, J.B. Beltsville, Md., The Administration. Plant disease reporter. United States. Dept. of Agriculture. Science and Education Administration. Oct 1979. v. 63 (10). p. 887-891. ill. 4 ref. (NAL Call No.: 1.9 P69P).

1210

Survival of *Macrophomina phaseolina* in soil and in residue of soybean (Charcoal rot, Missouri).

Short, G.E. Wylie, T.D.; Bristow, P.R. St. Paul, Minn., American Phytopathological Society. Phytopathology. Jan 1980. v. 70 (1). p. 13-17. ill. 21 ref. (NAL Call No.: 464.8 P56).

1211

Systemic fungicides for controlling *Phytophthora (megasperma sojae)* root rot and damping-off of soybean.

Papavizas, G.C. Schwenk, F.W. Beltsville, Md., Science and Education Administration, U.S. Dept. of Agriculture. Plant disease reporter. Aug 1979. v. 63 (8). p. 708-712. ill. 16 ref. (NAL Call No.: 1.9 P69P).

1212

Systemicity and fungicidal activity of three systemic fungicides in soybean / by Poorna Nand Thapliyal.

Thapliyal, Poorna Nand, 1970. Thesis (Ph.D.)--University of Illinois, 1970. Photocopy. Ann Arbor, Mich. : University Microfilms, 1971. ix, 51 leaves ; 21 cm. Bibliography: leaves 46-48. (NAL Call No.: DISS 71-14,967).

1213

Systemicity of ¹⁴C-labeled chloroneb in soybean tissues / by Prem Dutt Kharbada.

Kharbada, Prem Dutt, 1940. 1971. Thesis (Ph.D.)--University of Illinois, Urbana-Champaign, 1971. Photocopy of typescript. Ann Arbor: University Microfilms, 1972. vii, 46 leaves ; 21 cm. Bibliography: leaves 41-44. (NAL Call No.: DISS 72-6,976).

1214

Temperature-induced changes in specificity in the interaction of soybeans with *Phytophthora megasperma* f. sp. *glycinea*.

Ward, E.W.B. Lazarovits, G. St. Paul, American Phytopathological Society. Phytopathology. July 1982. v. 72 (7). p. 826-830. 29 ref. (NAL Call No.: 464.8 P56).

1215

Tests during storage of *Phomopsis sojae*-infected soybean seeds from benomyl-treated field plots.

Schoen, J.F. n.p., The Association. The News letter of the Association of Official Seed Analysts. May 1980. v. 54 (2). p. 50-53. 5 ref. (NAL Call No.: 61.9 AS7N).

1216

Tests on *Phomopsis*-infected soybean seed under controlled storage conditions.

Schoen, J.F. Schlub, P. (s.l.), The Association. The News letter of the Association of Official Seed Analysts. Sept 1980. v. 54 (3). p. 78-79. 2 ref. (NAL Call No.: 61.9 AS7N).

1217

Thermotherapy of soybean seeds to control seedborne fungi (*Phomopsis* spp.).

Zinnen, T.M. Sinclair, J.B. St. Paul, American Phytopathological Society. Phytopathology. July 1982. v. 72 (7). p. 831-834. 10 ref. (NAL Call No.: 464.8 P56).

1218

Top dieback of soybean caused by *Diaporthe phaseolorum* var. *caulivora*.

Hobbs, T.W. Schmitthenner, A.F.; Ellett, C.W.; Hite, R.E. St. Paul, Minn., American Phytopathological Society. Plant disease. July 1981. v. 65 (7). p. 618-620. ill. Includes 17 ref. (NAL Call No.: 1.9 P69P).

1219

Treating soybean seed to control soil-borne seedling disease, 1979 (*Glycine max* 'Pomona', 'Forest' and 'Cumberland'), pre- and postemergence damping-off, various soil-borne microorganisms).

Crowe, F.J. Sanden, G.E. (s.l.), The Society. Fungicide and nematicide tests; results - American Phytopathological Society. 1980. v. 35. p. 191. (NAL Call No.: 464.9 AM31R).

1220

Treatment of soybean seed with Ridomil and Captan for control of *Phytophthora megasperma* f.sp. *glycinea*, 1981 (Soybean (*Glycine max* 'Amsoy', 'Amsoy 71', 'Corsoy', 'Corsoy 79', 'Harcor', 'Marshall', 'Pike', 'Pike II', 'Pride B216', 'Steele', 'A78-125029', 'A78-227013', 'A78-227015', 'A78-227016'), pre- and postemergence damping-off and root rot; *Phytophthora megasperma* f.sp. *glycinea*). Hatfield, J.D. Tachibana, H. (s.l.), The Society. Fungicide and nematicide tests; results - American Phytopathological Society. 1982. v. 37. p. 171-173. (NAL Call No.: 464.9 AM31R).

1221

Trifluralin enhancement of *Phytophthora* (*megasperma sojae*) root rot of soybean (Herbicides). Duncan, D.R. Paxton, J.D. St. Paul, Minn., American Phytopathological Society. Plant disease. May 1981. v. 65 (5). p. 435-436. 12 ref. (NAL Call No.: 1.9 P69P).

1222

Twin-stem abnormality disease of soybean seedlings caused by *Sclerotium* sp. Dhingra, O.D. Muchovej, J.U. St. Paul, Minn., American Phytopathological Society. Plant disease. Feb 1980. v. 64 (2). p. 176-178. ill. 1 ref. (NAL Call No.: 1.9 P69P).

1223

Two genes for resistance to race 5 of *Cercospora sojae* in soybeans (Frogeye leafspot, *Glycine max*). Phillips, D.V. Boerma, H.R. St. Paul, American Phytopathological Society. Phytopathology. July 1982. v. 72 (7). p. 764-766. 9 ref. (NAL Call No.: 464.8 P56).

1224

Use of paraquat to aid detection of fungi (*Diaporthe phaseolorum*) in soybean tissues. Cerkauskas, R.F. Sinclair, J.B. St. Paul, Minn., American Phytopathological Society. Phytopathology. Nov 1980. v. 70 (11). p. 1036-1038. 16 ref. (NAL Call No.: 464.8 P56).

1225

Variation among isolates of *Colletotrichum dematium* var. *truncata* from soybean and three *Colletotrichum* spp. to benomyl. Rodriguez-Marcano, A. Sinclair, J.B. Rio Piedras, The Station. The Journal of agriculture of the University of Puerto Rico - Puerto Rico, Agricultural Experiment Station.

Jan 1982. v. 66 (1). p. 35-43. ill. Includes 14 ref. (NAL Call No.: 8 P832J).

1226

Virulence and aggressiveness of *Phakopsora pachyrhizi* isolates causing soybean rust. Bromfield, K.R. AR-NE. Melching, J.S.; Kingsolver, C.H. St. Paul, Minn., American Phytopathological Society. Phytopathology. Jan 1980. v. 70 (1). p. 17-21. ill. 10 ref. (NAL Call No.: 464.8 P56).

1227

White mold of beans.

Hart, L. Patrick. Saettler, A. W. Document available from: Michigan State University, Bulletin Office, P.O.Box 231, East Lansing, Michigan 48824 1981. Discusses this pathogen; it's life cycle; symptoms; environmental factors; and control. 4 p. : ill. (NAL Call No.: Document available from source.). (NAL Call No.: EB E-892).

1228

Whoops!! Incorrect results caused by fungus (*Fusarium*, *Alternaria*, soybeans). Glenn, B. Jr. Hansen, B.F. n.p. News letter Association of Official Seed Analysts. Feb 1979. v. 53 (1). p. 33-34. (NAL Call No.: 61.9 AS7N).

1229

Widely virulent isolates of *Phytophthora megasperma* f. sp. *glycinea* causing root and stem rot of soybeans in New York (Multirace-resistant cultivar). Tooley, P.W. Bergstrom, G.C.; Wright, M.J. St. Paul, Minn. : American Phytopathological Society. Plant disease. Aug 1984. v. 68 (8). p. 726-727. Includes 12 references. (NAL Call No.: 1.9 P69P).

1230

Yield losses in soybeans from anthracnose caused by *Colletotrichum truncatum* (*Glycine max*, cultivars, southeastern United States). Backman, P.A. Williams, J.C.; Crawford, M.A. St. Paul, American Phytopathological Society. Plant disease. Nov 1982. v. 66 (11). p. 1032-1034. ill. 9 ref. (NAL Call No.: 1.9 P69P).

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1231

Yield losses in soybeans induced by powdery mildew (*Microsphaera diffusa*).

Dunleavy, J.M. AR-NC. St. Paul, Minn., American Phytopathological Society. Plant disease. Mar 1980. v. 64 (3). p. 291-292. ill. 8 ref. (NAL Call No.: 1.9 P69P).

PLANT DISEASES - BACTERIAL

1232

Association of volatile aldehyde production during germination with poor soybean and pea seed quality (Soilborne fungi and bacteria, vigor and viability).

Harman, G.E. Nedrow, B.L.; Clark, B.E.; Mattick, L.R. Madison, Wis., Crop Science Society of America. Crop science. July/Aug 1982. v. 22 (4). p. 712-716. ill. 19 ref. (NAL Call No.: 64.8 C883).

1233

Bacteria-free soybean plants / by Jerry Fred Strissel.

Strissel, Jerry Fred, 1942. 1970. Thesis (Ph.D.)--Iowa State University, 1970. Photocopy. Ann Arbor, Mich. : University Microfilms, 1971. iv, 85 leaves : ill. ; 21 cm. Bibliography: leaves 76-84. (NAL Call No.: DISS 71-7,333).

1234

Bacterial tan spot, a new foliar disease of soybeans (*Corynebacterium flaccumfaciens*).

Dunleavy, J.M. CRPSA. Madison : Crop Science Society of America. Crop science. May/June 1983. v. 23 (3). p. 473-476. ill., maps. Includes references. (NAL Call No.: 64.8 C883).

1235

Effect of light on bacteria (*Erwinia amylovora*)-induced hypersensitivity in soybean.

Giddix, L.R. Jr. Lukezic, F.L.; Pell, E.J. St. Paul, Minn., American Phytopathological Society. Phytopathology. Feb 1981. v. 71 (2). p. 111-115. ill. 38 ref. (NAL Call No.: 464.8 P56).

1236

Effects of sulfur dioxide on expansion of lesions caused by *Corynebacterium nebraskense* in maize and by *Xanthomonas phaseoli* var. *sojensis* in soybean (Air pollution injuries).

Laurence, J.A. Aluisio, A.L. St. Paul, Minn., American Phytopathological Society. Phytopathology. Apr 1981. v. 71 (4). p. 445-448. 11 ref. (NAL Call No.: 464.8 P56).

1237

Fungicide evaluation for control of foliar, pod and stem diseases of soybeans, 1979 (Soybean (Glycine max, 'Crawford', 'Essex', 'Cumberland'), foliar, pod and stem diseases, brown spot; *Septoria glycines*, downy mildew; *Peonospora manshurica*, bacterial blight; *Pseudomonas glycinea*, bacterial pustule; *Xanthomonas phaseoli*).

Crowe, F.J. Sanden, G.E. (s.l.), The Society.

Fungicide and nematicide tests; results - American Phytopathological Society. 1981. v. 36. p. 94-95. (NAL Call No.: 464.9 AM31R).

1238

Host-pathogen interactions. XVIII. Isolation and biological activity of glycinol, a pterocarpin phytoalexin synthesized by soybeans.

Weinstein, L.I. Hahn, M.G.; Albersheim, P. Rockville, Md., American Society of Plant Physiologists. Plant physiology. Aug 1981. v. 68 (2). p. 358-363. ill. 24 ref. (NAL Call No.: 450 P692).

1239

Host-pathogen interactions. XXII. A galacturonic acid oligosaccharide from plant cell walls elicits phytoalexins (*Glycine max*, soybeans, *Colletotrichum lindemuthianum*, *Erwinia carotovora*).

Nothnagel, E.A. PLPHA. McNeil, M.; Albersheim, P.; Dell, A. Rockville : American Society of Plant Physiologists. Plant physiology. Apr 1983. v. 71 (4). p. 916-926. Includes references. (NAL Call No.: 450 P692).

1240

Host-pathogen interactions. XXV. Endopolygalacturonic acid lyase from *Erwinia carotovora* elicits phytoalexin accumulation by releasing plant cell wall fragments (*Glycine max*, soybeans).

Davis, K.R. Lyon, G.D.; Darvill, A.G.; Albersheim, P. Rockville, Md. : American Society of Plant Physiologists. Plant physiology. Jan 1984. v. 74 (1). p. 52-60. ill. Includes references. (NAL Call No.: 450 P692).

1241

Inhibition of bacteria by the soybean isoflavonoids glyceollin and coumestrol (*Pseudomonas syringae*, *Xanthomonas campestris*).

Fett, W.F. Osman, S.F. St. Paul, American Phytopathological Society. Phytopathology. July 1982. v. 72 (7). p. 755-760. 28 ref. (NAL Call No.: 464.8 P56).

1242

Inhibition of chlorophyll synthesis by *Pseudomonas glycinea* (Bacterial blight of soybean).

Gulya, T. Jr. Dunleavy, J.M. Madison, Crop Science Society of America. Crop science. Mar/Apr 1979. v. 19 (2). p. 261-264. ill. 22 ref. (NAL Call No.: 64.8 C883).

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1243

Leaf infection and yield losses caused by brown spot and bacterial blight diseases of soybean (*Septoria glycines* and *Pseudomonas glycinea*). Williams, D.J. APHIS. Nyvall, R.F. St. Paul, Minn., American Phytopathological Society. Phytopathology. Sept 1980. v. 70 (9). p. 900-902. 15 ref. (NAL Call No.: 464.8 P56).

1244

Monitoring soybeans in Illinois for foliar diseases (*Septoria glycines*, *Peronospora manshurica*, *Pseudomonas glycinea*). Pataky, J.K. Lim, S.M. St. Paul, American Phytopathological Society. Phytopathology. May 1979. v. 69 (5). p. 541. (NAL Call No.: 464.8 P56).

1245

A new bacterial agglutinin (*Xanthomonas phaseoli* var. *sojensis*) from soybean. I. Isolation, partial purification, and characterization. Fett, W.F. Sequeira, L. Rockville, Md., American Society of Plant Physiologists. Plant physiology. Nov 1980. v. 66 (5). p. 847-852. 111. 29 ref. (NAL Call No.: 450 P692).

1246

A new bacterial agglutinin (*Xanthomonas phaseoli* var. *sojensis*) from soybean. II. Evidence against a role in determining pathogen specificity. Fett, W.F. Sequeira, L. Rockville, Md., American Society of Plant Physiologists. Plant physiology. Nov 1980. v. 66 (5). p. 853-858. 111. 33 ref. (NAL Call No.: 450 P692).

1247

A new race of *Pseudomonas glycinea* (and the pathogenic response of seven soybean cultivars to it). Thomas, M.D. Leary, J.V. St. Paul, Minn., American Phytopathological Society. Phytopathology. Apr 1980. v. 70 (4). p. 310-312. 111. 18 ref. (NAL Call No.: 464.8 P56).

1248

Occurrence of a leafhopper-transmitted disease of soybeans in Louisiana (*Scaphytopius acutus*, possible mycoplasmal disease, soybean bud proliferation, insect vectors). Derrick, K.S. Newsom, L.D. St. Paul, Minn., American Phytopathological Society. Plant disease. Apr 1984. v. 68 (4). p. 343-344. 111. Includes references. (NAL Call No.: 1.9 P69P).

1249

Occurrence of *Pseudomonas syringae* on bean and soybean in Kenya. Kaiser, W.J. Ramos, A.H. St. Paul, Minn., American Phytopathological Society. Plant disease. June 1980. v. 64 (6). p. 593-595. 111. 20 ref. (NAL Call No.: 1.9 P69P).

1250

Role of bacterial immobilization in race-specific resistance of soybean to *Pseudomonas syringae* pv. *glycinea* (Bacterial blight of *Glycine max*). Fett, W.F. Jones, S.B. St. Paul, Minn., American Phytopathological Society. Phytopathology. May 1982. v. 72 (5). p. 488-492. 111. Includes 23 ref. (NAL Call No.: 464.8 P56).

1251

The role of phytoalexins in the resistance of soybean leaves to bacteria: effect of glyphosate on glyceollin accumulation (*Glycine max*, *Pseudomonas syringae* pv. *glycinea*, herbicides). Holliday, M.J. PHYTA. Keen, N.T. St. Paul : American Phytopathological Society. Phytopathology. Nov 1982. v. 72 (11). p. 1470-1474. 27 ref. (NAL Call No.: 464.8 P56).

1252

Seasonal variation in populations of pathogenic pseudomonads on soybean leaves (*Pseudomonas glycinea*, *Glycine max*). Mew, T.W. Kennedy, B.W. St. Paul, Minn., American Phytopathological Society. Phytopathology. Jan 1982. v. 72 (1). p. 103-105. Includes 13 ref. (NAL Call No.: 464.8 P56).

1253

The seed: a microcosm of microbes (Soybeans). Sinclair, J.B. East Lansing, Association of Official Seed Analysts. Journal of seed technology. 1979. v. 4 (2). p. 68-73. 111. 8 ref. (NAL Call No.: SB113.2J6).

1254

The seed-borne nature of some soybean pathogens, the effect of *Phomopsis* spp. and *Bacillus subtilis* on germination, and their occurrence in soybeans produced in Illinois. Sinclair, J.B. Zurich, International Seed Testing Association. Seed science and technology. 1978. v. 6 (4). p. 957-964. 111. 24 ref. (NAL Call No.: SB117.S455).

1255

Soybean diseases.

Scott, Donald H. Sharvelle, Eric G. & An aid to identification. Document available from: Purdue University, Publication Mailing Room, 301 South Second Street, Lafayette, Indiana 47905 1969. Lists soybean diseases and how to identify them. 1 sheet : ill. (NAL Call No.: Document available from source.). (NAL Call No.: BP-5-17).

1256

Soybean diseases (Fungal, bacterial, viral).
Crowe, F. Manhattan, Kan., The Service. C - Kansas State University, Cooperative Extension Service. May 1982. May 1982. (449). p. 16-19. (NAL Call No.: 275.29 K13EX).

1257

Soybeans susceptible to tan spot (*Erwinia herbicola*).

Pierce, R.G. Washington, Science and Education Administration, U.S. Dept. of Agriculture. Agricultural research. Apr 1979. v. 27 (10). p. 7. (NAL Call No.: 1.98 AG84).

1258

Specific elicitors of glyceollin accumulation in the *Pseudomonas glycinea*-soybean host-parasite system.

Bruegger, B.B. Keen, N.T. London, Academic. Physiological plant pathology. July 1979. v. 15 (1). p. 43-51. ill. 29 ref. (NAL Call No.: SB599.P45).

1259

Studies of the epidemiology of bacterial blight of soybean / by Gilbert Clayton Daft.

Daft, Gilbert Clayton, 1916. 1970. Thesis (Ph.D.)--Ohio State University, 1970. Photocopy. Ann Arbor, Mich. : University Microfilms, 1971. xiii, 107 leaves ; 21 cm. Bibliography: leaves 105-107. (NAL Call No.: DISS 71-17,979).

1260

Studies on natural occurrence of plant pathogenic fluorescent pseudomonads in the phyllosphere of soybean.

Mew, Twng Wah. Ann Arbor, Mich. University Microfilms 1973. Thesis--University of Minnesota, 1972. (5), (82) leaves. Bibliography: leaves 72-75. (NAL Call No.: DISS 73-1,044).

1261

A study of distribution and sampling of soybean plants naturally infected with *Pseudomonas syringae* pv. *glycinea* (Bacterial blight, *Glycine max*).

Poushinsky, G. Basu, P.K. St. Paul : American Phytopathological Society. Phytopathology. Mar 1984. v. 74 (3). p. 319-326. Includes references. (NAL Call No.: 464.8 P56).

1262

Surface disinfestation of soybean seeds for selective recovery of seedborne microorganisms (*Phomopsis sojae*, *Bacillus subtilis*, *Cercospora kikuchii*, *Cercospora sojae*).

Grybauskas, A.P. Sinclair, J.B. Beltsville, Md., The Administration. Plant disease reporter. United States. Dept. of Agriculture. Science and Education Administration. Oct 1979. v. 63 (10). p. 887-891. ill. 4 ref. (NAL Call No.: 1.9 P69P).

PLANT DISEASES - VIRAL

1263

Bean pod mottle disease in soybeans in Mississippi (Cerotoma trifurcata, vector).
Pitre, H.N. MS. Mississippi State, The Station. Research report - Mississippi Agricultural & Forestry Experiment Station. July 1980. v. 5 (12). 4 p. ill., map. 8 ref. (NAL Call No.: S79.E37).

1264

Bean pod mottle virus and cowpea mosaic virus in Louisiana soybeans / by Kenneth Cosmas Gremillion.
Gremillion, Kenneth Cosmas, 1939. 1971. Thesis (Ph.D.)--Louisiana State University and Agricultural and Mechanical College, 1971. Photocopy. Ann Arbor, Mich. : University Microfilms, 1972. viii, 74 leaves ; 21 cm. Bibliography: leaves 69-73. (NAL Call No.: DISS 72-3,489).

1265

Bean pod mottle (virus) disease in soybeans (Cerotoma trifurcata, vectors).
Pitre, H.N. MS. Mississippi State, The Station. MAFES research highlights - Mississippi Agricultural & Forestry Experiment Station. Sept 1980. v. 43 (9). p. 1-3. ill., map. (NAL Call No.: 100 M69MI).

1266

Calico mosaic of soybean: sources of resistance and inheritance of reaction (caused by alfalfa mosaic virus).
Almeida, A.M.R. Kiihl, R.A.S.; Almeida, L.A. Ames, Iowa, The Service. Soybean genetics newsletter - United States, Agricultural Research Service. Apr 1982. v. 9. p. 18-21. 4 ref. (NAL Call No.: aSB205.S7S6).

1267

Control of yellow mosaic of soybean by systemic insecticides, 1976-78 (Soybean (Glycine max 'Bragg'), mung bean yellow mosaic, MYMV, whitefly; Bemisia tabaci Genn, (Vector).
Dhingra, K.L. Chenulu, V.V. (s.l.), The Society. Fungicide and nematocide tests; results - American Phytopathological Society. 1982. v. 37. p. 103. (NAL Call No.: 464.9 AM31R).

1268

Cytopathology of soybean tissue culture cells infected with southern bean mosaic virus.
Wu, F.S. Hooper, G.R.; Murskishi, H.M. Gaithersburg, Md., The Association. In vitro; journal of the Tissue Culture Association. June 1982. v. 18 (6). p. 525-530. ill. 10 ref. (NAL

Call No.: QH585.A1I58).

1269

Detection of pathogenic strains of soybean mosaic virus by enzyme-linked immunosorbent assay with polystyrene plates and beads as the solid phase (Glycine max).
Chen, L.C. Durand, D.P.; Hill, J.H. St. Paul, Minn., American Phytopathological Society. Phytopathology. Sept 1982. v. 72 (9). p. 1177-1181. 35 ref. (NAL Call No.: 464.8 P56).

1270

Detection of seedborne plant viruses using serologically specific electron microscopy (Tobacco ringspot virus, barley stripe mosaic virus, lettuce mosaic virus, soybean mosaic virus).
Brlansky, R.H. Derrick, K.S. St. Paul, American Phytopathological Society. Phytopathology. Jan 1979. v. 69 (1). p. 96-100. ill. 14 ref. (NAL Call No.: 464.8 P56).

1271

Detection of soybean mosaic virus in seed by solid-phase radioimmunoassay.
Bryant, G.R. Hill, J.H.; Bailey, T.B.; Tachibana, H.; Durand, D.P.; Benner, H.I. St. Paul, American Phytopathological Society. Plant disease. Aug 1982. v. 66 (8). p. 693-695. 15 ref. (NAL Call No.: 1.9 P69P).

1272

Development of a solid-phase radioimmunoassay for detection of soybean mosaic virus (Glycine max).
Bryant, G.R. PHYTA. Durand, D.P.; Hill, J.H. St. Paul : American Phytopathological Society. Phytopathology. Apr 1983. v. 73 (4). p. 623-629. Includes references. (NAL Call No.: 464.8 P56).

1273

Distribution of bean pod mottle virus in Arkansas soybean as related to the bean leaf beetle, Cerotoma trifurcata, (Coleoptera:Chrysomelidae) population.
Hopkins, J.D.EVETB. Mueller, A.J. College Park : Entomological Society of America. Environmental entomology. Oct 1983. v. 12 (5). p. 1564-1567. Includes references. (NAL Call No.: QL461.E532).

1274

Diversity and abundance of aphid species associated with soybean mosaic virus in Iowa (Rhopalosiphum maidis, Macrosiphum euphorbiae).
Hammond, R.B. Pedigo, L.P. Lawrence : The Society. Journal of the Kansas Entomological Society. Oct 1982. v. 55 (4). p. 754-758. 4 ref. (NAL Call No.: 420 K13).

1275

Dynamics of aphid transmission of soybean mosaic virus.
Halbert, S.E. ISSODB. Irwin, M.E.; Goodman, R.M. Urbana : International Agricultural Publications, College of Agriculture, University of Illinois. INTSOY International Soybean Program series. July 1983. July 1983. (25). p. 175-179. Includes references. (NAL Call No.: TX558.S715).

1276

Effect of bean pod mottle virus and soybean mosaic virus on nitrogen fixation in soybeans (Glycine max).
Hicks, P.M. PLAAA. Bollich, P.K.; Dunigan, E.P.; Harville, B.G.; Mitchell, P. (s.l.) : The Academy. The proceedings of the Louisiana Academy of Sciences. 1983. v. 46. p. 106-108. Includes references. (NAL Call No.: 500 L932).

1277

Effect of soybean mosaic virus on root volume and dry weight of soybean plants.
Keeling, B.L. Madison, Wis., Crop Science Society of America. Crop science. May/June 1982. v. 22 (3). p. 629-630. 10 ref. (NAL Call No.: 64.8 C883).

1278

Effect of soybean yellow mosaic on growth and yield of soybean (Glycine max).
Suteri, B.D. Srivastava, S.B. Beltsville, Md., Science and Education Administration, U.S. Dept. of Agriculture. Plant disease reporter. Feb 1979. v. 63 (2). p. 151-153. ill. 11 ref. (NAL Call No.: 1.9 P69P).

1279

Effects of antiviral compounds on symptoms and infectivity of cowpea chlorotic mottle virus (Vigna unguiculata, Glycine max, 2-thiouracil, ribavirin, amantadine, formycin, methisazone, methyl bromide with chloropicrin).
Mancino, L.J.C. Agrios, G.N. St. Paul, Minn. : American Phytopathological Society. Plant disease. Mar 1984. v. 68 (3). p. 219-222. Includes references. (NAL Call No.: 1.9 P69P).

1280

Enhancement by soybean mosaic virus of bean pod mottle virus titer in doubly infected soybean (Glycine max).
Calvert, L.A. PHYTA. Ghabrial, S.A. St. Paul : American Phytopathological Society. Phytopathology. July 1983. v. 73 (7). p. 992-997. Includes references. (NAL Call No.: 464.8 P56).

1281

Evaluation of resistance in soybeans to soybean mosaic virus strains (Cultivars).
Cho, E.K. CRPSA. Goodman, R.M. Madison : Crop Science Society of America. Crop science. Nov/Dec 1982. v. 22 (6). p. 1133-1136. 16 ref. (NAL Call No.: 64.8 C883).

1282

Evaluation of virus contents in soybean by enzyme-linked immunosorbent assay.
Moore, D.L. Lister, R.M.; Abney, T.S.; Athow, K.L. St. Paul, Minn., American Phytopathological Society. Plant disease. Sept 1982. v. 66 (9). p. 790-793. 8 ref. (NAL Call No.: 1.9 P69P).

1283

Factors associated with the epidemiology of soybean mosaic virus in Iowa.
Hill, J.H. Lucas, B.S.; Benner, H.I.; Tachibana, H.; Hammond, R.B.; Pedigo, L.P. St. Paul, Minn., American Phytopathological Society. Phytopathology. June 1980. v. 70 (6). p. 536-540. 29 ref. (NAL Call No.: 464.8 P56).

1284

Identification and varietal response of soybeans to soybean mosaic virus and tobacco ringspot virus / by John Patterson Kay.
Kay, John Patterson, 1944. 1971. Thesis (Ph.D.)--Louisiana State University and Agricultural and Mechanical College, 1971. Photocopy. Ann Arbor, Mich. : University Microfilms, 1972. viii, 46 leaves ; 21 cm. Bibliography: leaves 42-45. (NAL Call No.: DISS 72-3,501).

1285

Identification of soybean germplasm lines and cultivars with low incidence of soybean mosaic virus transmission through seed.
Goodman, R.M. Bowers, G.R. Jr. Madison, Crop Science Society of America. Crop science. Mar/Apr 1979. v. 19 (2). p. 264-267. ill. 25 ref. (NAL Call No.: 64.8 C883).

(PLANT DISEASES - VIRAL)

1286

Immunochemical and microscopical techniques for detecting blackeye cowpea mosaic and soybean mosaic viruses in hypocotyls of germinated seeds.

Lima, J.A.A. Purcifull, D.E. St. Paul, Minn., American Phytopathological Society. Phytopathology. Feb 1980. v. 70 (2). p. 142-147. ill. 29 ref. (NAL Call No.: 464.8 P56).

1287

Increased incidence of *Phomopsis* sp. in seeds from soybeans infected with bean pod mottle virus (*Glycine max*, *Phomopsis sojae*).

Stuckey, R.E. Ghabrial, S.A.; Reicosky, D.A. St. Paul, Minn., American Phytopathological Society. Plant disease. Sept 1982. v. 66 (9). p. 826-829. 16 ref. (NAL Call No.: 1.9 P69P).

1288

Inheritance of reaction to soybean mosaic virus in soybeans (*Cultivars*).

Kiihl, R.A.S. Hartwig, E.E. Madison, Crop Science Society of America. Crop science. May/June 1979. v. 19 (3). p. 372-375. ill. 9 ref. (NAL Call No.: 64.8 C883).

1289

Inheritance of resistance to soybean mosaic virus in *Phaseolus vulgaris*.

Providenti, R. Gonsalves, D.; Ranalli, P. Washington, D.C., American Genetic Association. The Journal of heredity. July/Aug 1982. v. 73 (4). p. 302-303. 14 ref. (NAL Call No.: 442.8 AM3).

1290

Inheritance of resistance to yellow mosaic in soybean.

Singh, B.B. Mallick, A.S. New Delhi, Indian Society of Genetics & Plant Breeding. Indian journal of genetics & plant breeding. July 1978. v. 38 (2). p. 258-261. ill. 2 ref. (NAL Call No.: 64.8 IN2).

1291

Isolation and beetle transmission of cowpea mosaic virus (severe subgroup) from *Desmodium canescens* and soybeans in Illinois (Insect vectors).

McLaughlin, M.R. Thongmeearkom, P. Beltsville, Md., Plant Science Research Division, Agricultural Research Service, U.S. Dept. of Agriculture. Plant disease reporter. Dec 1978. v. 62 (12). p. 1069-1073. ill. 16 ref. (NAL Call No.: 1.9 P69P).

1292

Isolation and comparison of two strains of soybean mosaic virus.

Hunst, P.L. Tolin, S.A. St. Paul, American Phytopathological Society. Phytopathology. July 1982. v. 72 (7). p. 710-713. ill. 19 ref. (NAL Call No.: 464.8 P56).

1293

Isolation of specific antibody to plant viruses by acid sucrose density gradient centrifugation (Southern bean mosaic (cowpea strain) and soybean mosaic viruses).

McLaughlin, M.R. Bryant, G.R.; Hill, J.H.; Benner, H.I.; Durand, D.P. St. Paul, Minn., American Phytopathological Society. Phytopathology. Aug 1980. v. 70 (8). p. 831-834. ill. 11 ref. (NAL Call No.: 464.8 P56).

1294

Machismo disease of soybeans (induced by a mycoplasma-like organism). II. Suppressive effects of tetracycline on symptom development (*Scaphytopius fuliginosus* as insect vector).

anada, G.A. Beltsville, Md., Science and Education Administration, U.S. Dept. of Agriculture. Plant disease reporter. Apr 1979. v. 63 (4). p. 309-312. ill. 11 ref. (NAL Call No.: 1.9 P69P).

1295

Nature of the interaction of soybean mosaic virus and bean pod mottle virus in bean and soybean / by Yih-Shyong Lee.

Lee, Yih-Shyong. 1939. 1971. Thesis (Ph.D)--North Carolina State University, 1971. Photocopy of typescript. Ann Arbor: University Microfilms, 1972. vi, 26 leaves; 21 cm. Bibliography: leaf 26. (NAL Call No.: DISS 72-11,988).

1296

A new gene for peanut mottle virus resistance in soybean.

Buss, G.R. Roane, C.W.; Tolin, S.A. Ames: The Service. Soybean genetics newsletter - United States, Agricultural Research Service. Apr 1983. v. 10. p. 102-104. Includes references. (NAL Call No.: aSB205.57S6).

1297

New sources of resistance to seed transmission of soybean mosaic virus in soybeans.

Bowers, G.R. Jr. Goodman, R.M. Madison, Wis., Crop Science Society of America. Crop science. Jan/Feb 1982. v. 22 (1). p. 155-156. Includes 11 ref. (NAL Call No.: 64.8 C883).

1298

Non-movement of cowpea chlorotic mottle virus from cowpea and soybean (*Diabrotica undecimpunctata howardii*, insect vectors).

Demski, J. Chalkley, J. Beltsville, Md., Science and Education Administration, U.S. Dept. of Agriculture. Plant disease reporter. Sept 1979. v. 63 (9). p. 761-764. ill. 9 ref. (NAL Call No.: 1.9 P69P).

1299

Observations on seasonal developmental of bean leaf beetle, *Cerotoma trifurcata* (Forster) and incidence of bean pod mottle virus in Arkansas soybean.

Mueller, A.J. Haddox, A.W. Athens, Ga., The Society. Journal of the Georgia Entomological Society. Oct 1980. v. 15 (4). p. 398-403. ill. 9 ref. (NAL Call No.: QL461.G4).

1300

Plant disease detection and Minnesota crop disease problems (Maize dwarf mosaic virus, soybean cyst nematode, *Heterodera glycines*, and head scab caused by *Fusarium* spp.).

Stromberg, E.L. APHIS. Minneapolis, The Council. Crop production conference report - Crop Quality Council. Crop Quality Council. 1978. 1978. (45th). p. 37-40. 2 ref. (NAL Call No.: 464.9 N813).

1301

Predisposition to seed infection by *Phomopsis sojae* in soybean plants infected by soybean mosaic virus.

Hepperly, P.R. Bowers, G.R. Jr. St. Paul, Minn., American Phytopathological Society. Phytopathology. Aug 1979. Aug 1979. . 69 (8). p. 846-848. ill. 10 ref. (NAL Call No.: 464.8 P56).

1302

Properties of soybean mosaic virus ribonucleic acid.

Hill, J.H. Benner, H.I. St. Paul, Minn., American Phytopathological Society. Phytopathology. Mar 1980. v. 70 (3). p. 236-239. ill. 31 ref. (NAL Call No.: 464.8 P56).

1303

Purification, partial characterization, and serological comparison of soybean mosaic virus and its coat protein.

Soong, M.M. Milbrath, G.M. St. Paul, Minn., American Phytopathological Society. Phytopathology. May 1980. v. 70 (5). p. 388-391. ill. 18 ref. (NAL Call No.: 464.8

P56).

1304

Resistance to a necrotic strain of soybean mosaic virus in soybean.

Kwon, S.H. Oh, J.H. Madison, Wis., Crop Science Society of America. Crop science. May/June 1980. v. 20 (3). p. 403-404. ill. 8 ref. (NAL Call No.: 64.8 C883).

1305

Resistance to bud blight in introductions from the germ plasm of wild soybean (*Tobacco ringspot virus*).

Orellana, R.G. St. Paul, Minn., American Phytopathological Society. Plant disease. July 1981. v. 65 (7). p. 594-595. Includes 12 ref. (NAL Call No.: 1.9 P69P).

1306

Resistance to peanut mottle virus (PMV) in soybean (*Glycine max*) plant introductions.

Shipe, E.R. Buss, G.R. Beltsville, Md., Science and Education Administration, U.S. Dept. of Agriculture. Plant disease reporter. Sept 1979. v. 63 (9). p. 757-760. ill. 11 ref. (NAL Call No.: 1.9 P69P).

1307

A second gene for resistance to peanut mottle virus in soybeans.

Shipe, E.R. Buss, G.R. Madison, Wis., Crop Science Society of America. Crop science. Sept/Oct 1979. v. 19 (5). p. 656-658. ill. 18 ref. (NAL Call No.: 64.8 C883).

1308

Seed transmission and yield losses in tropical soybeans infected by soybean mosaic virus.

Goodman, R.M. Dard, J.H. St. Paul, Minn., American Phytopathological Society. Plant disease. Oct 1980. v. 64 (10). p. 913-914. ill. 4 ref. (NAL Call No.: 1.9 P69P).

1309

Serological detection of bean pod mottle virus in bean leaf beetles (*Ceratoma trifurcata*, soybeans, *Glycine max*).

Ghabrial, S.A. PHYTA. Schultz, F.J. St. Paul : American Phytopathological Society. Phytopathology. Mar 1983. v. 73 (3). p. 480-483. Includes references. (NAL Call No.: 464.8 P56).

(PLANT DISEASES - VIRAL)

1310

Some properties of an isolate of the soybean stunt strain of cucumber mosaic virus.

Hanada, K. Tochiwara, H. St. Paul, American Phytopathological Society. Phytopathology. July 1982. v. 72 (7). p. 761-764. ill. 18 ref. (NAL Call No.: 464.8 P56).

1311

Soybean diseases (Fungal, bacterial, viral).

Crowe, F. Manhattan, Kan., The Service. C - Kansas State University, Cooperative Extension Service. May 1982. May 1982. (449). p. 16-19. (NAL Call No.: 275.29 K13EX).

1312

Soybean green stem caused by bean pod mottle virus.

Schwenk, F.W. Nickell, C.D. St. Paul, Minn., American Phytopathological Society. Plant disease. Sept 1980. v. 64 (9). p. 863-865. 11 ref. (NAL Call No.: 1.9 P69P).

1313

Soybean mosaic / by Sebastian Sarceda Quiniones.

Quiniones, Sebastian Sarceda, 1922. 1968. Thesis (Ph.D.)--Iowa State University, 1968. Photocopy. Ann Arbor, Mich. : University Microfilms, 1970. iv, 74 leaves : ill. ; 21 cm. Bibliography: leaves 72-74. (NAL Call No.: DISS 69-4,274).

1314

Soybean mosaic virus.

Nyvall, R.F. Hill, J.H. Pullman, Wash., The Service. EM. Washington State University. Cooperative Extension Service. July 1979. July 1979. (888). 2 p. ill. (NAL Call No.: 275.29 W27MI).

1315

Soybean mosaic virus: infection of soybean seed parts and seed transmission.

Bowers, G.R. Jr. Goodman, R.M. St. Paul, American Phytopathological Society. Phytopathology. June 1979. v. 69 (6). p. 569-572. ill. 26 ref. (NAL Call No.: 464.8 P56).

1316

Soybean mosaic virus investigations with susceptible and resistant soybeans.

Hartwig, E.E. Keeling, B.L. Madison, Crop Science Society of America. Crop science. Sept/Oct 1982. v. 22 (5). p. 955-957. 5 ref. (NAL Call No.: 64.8 C883).

1317

Soybean mosaic virus (Vectors, epidemiology).

Harville, B.G. Green, A. Baton Rouge : The Department. Report of projects - Louisiana Agricultural Experiment Station, Department of Agronomy. 1982. 1982. p. 276. (NAL Call No.: 100 L936).

1318

Specific effects of soybean mosaic virus on total N (nitrogen), ureide-N, and symbiotic N₂-fixation activity in Glycine max and Glycine soja (Soybeans and wild annual soybeans).

Orellana, R.G. PHYTA. Reynolds, S.L.; Van Berkum, P. St. Paul : American Phytopathological Society. Phytopathology. Aug 1983. v. 73 (8). p. 1156-1160. ill. Includes references. (NAL Call No.: 464.8 P56).

1319

Strains of soybean mosaic virus: classification based on virulence in resistant soybean cultivars.

Cho, E.K. Goodman, R.M. St. Paul, American Phytopathological Society. Phytopathology. May 1979. v. 69 (5). p. 467-470. ill. 20 ref. (NAL Call No.: 464.8 P56).

1320

Synthesis of virus and virus-induced RNA in southern bean mosaic virus-infected soybean cell cultures.

Wu, F.S. Murakishi, H.H. Cambridge, Cambridge University Press. The Journal of general virology. Oct 1979. v. 45 (1). p. 149-160. ill. Bibliography p. 159-160. (NAL Call No.: QR360.A1J6).

1321

Tolerance/resistance to soybean mosaic virus (Heritability).

Buzzell, R.I. Ames : The Service. Soybean genetics newsletter - United States, Agricultural Research Service. Apr 1983. v. 10. p. 9-10. Includes references. (NAL Call No.: ASB205.S7S6).

1322

Translation of soybean mosaic virus RNA in vitro: evidence of protein processing (Infection of plants, *Glycine max*).
Vance, V.B. Beachy, R.N. New York : Academic Press. Virology. Jan 30, 1984. v. 132 (2). p. 271-281. ill. Includes references. (NAL Call No.: 448.8 V81).

1323

Transmission and localization of soybean mosaic virus in seed of some cultivars of *Phaseolus vulgaris* (Beans).
Provvidenti, R. Gonsalves, D. Geneva, N.Y. : Bean Improvement Cooperative. Annual report of the Bean Improvement Cooperative. 1984. v. 27. p. 173-174. Includes references. (NAL Call No.: SB327.A1B5).

1324

Ultrastructural cytology of soybean infected with mild and severe strains of soybean mosaic virus (*Glycine max*).
Hunst, P.L. PHYTA. Tolin, S.A. St. Paul : American Phytopathological Society. Phytopathology. Apr 1983. v. 73 (4). p. 615-619. ill. Includes references. (NAL Call No.: 464.8 P56).

1325

Yield reductions in soybeans infected with cowpea mosaic virus.
Thongmeearkom, P. Paschal, E.H. II. St. Paul, American Phytopathological Society. Phytopathology. Nov 1978. v. 68 (11). p. 1549-1551. ill. 8 ref. (NAL Call No.: 464.8 P56).

PLANT DISEASES - PHYSIOLOGICAL

1326

Agronomic performance of soybeans with differing levels of iron deficiency chlorosis on calcareous soil (Nutritional disorders).
Froehlich, D.M. Fehr, W.R. Madison, Wis., Crop Science Society of America. Crop science. May/June 1981. v. 21 (3). p. 438-441. 8 ref. (NAL Call No.: 64.8 C883).

1327

Band application of sulfuric acid or elemental sulfur for control of Fe (iron)-deficiency chlorosis of soybeans (Glycine max, cultivars, Iowa).
Frank, S.J. AGJDA. Fehr, W.R. Madison : American Society of Agronomy. Agronomy journal. May/June 1983. v. 75 (3). p. 451-454. Includes references. (NAL Call No.: 4 AM34P).

1328

Bicarbonate inhibits Fe (iron)-stress response and Fe uptake-translocation of chlorosis-susceptible soybean cultivars.
Fleming, A.L. Chaney, R.L.; Coulombe, B.A. New York, N.Y. : Marcel Dekker. Journal of plant nutrition. 1984. Presented at the "Second International Symposium on Iron Nutrition and Interactions in Plants," August 2-5, 1983, Utah State University, Logan. v. 7 (1/5). p. 699-714. ill. Includes references. (NAL Call No.: QK867.J67).

1329

Calcium suppression of sclerotium-induced twin stem abnormality of soybean.
Muchovej, R.M.C. Muchovej, J.J. Baltimore, Williams & Wilkins. Soil science. Sept 1982. v. 134 (3). p. 181-184. ill. 6 ref. (NAL Call No.: 56.8 S03).

1330

A comparative study of soil solution chemistry associated with chlorotic and nonchlorotic soybeans in western Minnesota (Iron nutritional status).
Inskip, W.P. Bloom, P.R. New York, N.Y. : Marcel Dekker. Journal of plant nutrition. 1984. Presented at the "Second International Symposium on Iron Nutrition and Interactions in Plants," August 2-5, 1983, Utah State University, Logan. v. 7 (1/5). p. 513-531. ill., maps. Includes references. (NAL Call No.: QK867.J67).

1331

Control of iron-deficiency chlorosis in soybeans by plant breeding (Glycine max).
Fehr, W.R. New York ; Basel : Marcel Dekker, 1982. Iron nutrition and interactions in plants : Brigham Young University, August 12-14, 1981 / edited by S.D. Nelson ... (et al.). p. 611-621. 11 ref. (NAL Call No.: QK867.J67 v. 5, nos. 4-7).

1332

Correcting iron chlorosis in soybeans.
Randall, Gyles W. 1981. This publication reports the results of various experiments involving foliar application of iron materials to iron-deficient soybeans in Minnesota. Document available from: University of Minnesota, Bulletin Room, 1420 Eckles Avenue, St. Paul, Minnesota 55108. 1 sheet : ill. (NAL Call No.: Not available at NAL.). (NAL Call No.: Soil FS27).

1333

Correction of lime-induced chlorosis in soybeans in a glasshouse with sulfur and an acidifying iron compound (Glycine max).
Wallace, A. Samman, Y.S.; Wallace, G.A. New York ; Basel : Marcel Dekker, 1982. Iron nutrition and interactions in plants : Brigham Young University, August 12-14, 1981 / edited by S.D. Nelson ... (et al.). p. 949-953. 9 ref. (NAL Call No.: QK867.J67 v. 5, nos. 4-7).

1334

Current practices for correcting iron deficiency in plants with emphasis on genetics (Oats, beans, sorghum, soybeans).
Fehr, W.R. New York, N.Y. : Marcel Dekker. Journal of plant nutrition. 1984. Presented at the "Second International Symposium on Iron Nutrition and Interactions in Plants," August 2-5, 1983, Utah State University, Logan. v. 7 (1/5). p. 347-354. Includes references. (NAL Call No.: QK867.J67).

1335

Diagnostic indices of zinc deficiency in tropical legumes (Soybeans, Lablab purpureus, Desmodium uncinatum, Macroptilium lathroides).
New York, Marcel Dekker. Journal of plant nutrition. 1979. v. 1 (2). p. 123-149. ill. 38 ref. (NAL Call No.: QK867.J67).

1336

Effect of fertilizer reaction and placement on availability of manganese (Deficiencies, sugarbeets, soybeans, navy beans).
Voth, R.D. Christenson, D.R. Madison, Wis., American Society of Agronomy. Agronomy journal. Sept/Oct 1980. v. 72 (5). p. 769-773. 13 ref. (NAL Call No.: 4 AM34P).

1337

Effect of iron on the correction of soybean chlorosis.
Evans, S.D.MXMR. Meredith, H.L. St. Paul : The Station. Miscellaneous publication - University of Minnesota, Agricultural Experiment Station. 1983. 1983. (2 rev.). p. 97. (NAL Call No.: S1.M52).

1338

Effect of nitrogen fertilizer and nodulation on lime-induced chlorosis in soybeans (Glycine max, iron deficiency).
Wallace, A. New York ; Basel : Marcel Dekker, 1982. Iron nutrition and interactions in plants : Brigham Young University, August 12-14, 1981 / edited by S.D. Nelson ... (et al.). p. 363-368. 7 ref. (NAL Call No.: QK867.J67 v. 5, nos. 4-7).

1339

Effect of nitrogen rates on iron chlorosis in PI54619-5-1 soybeans.
Wallace, A. Mueller, R.T. New York, Marcel Dekker. Journal of plant nutrition. 1980. v. 2 (1/2). p. 199-201. ill. 1 ref. (NAL Call No.: QK867.J67).

1340

Effect of phosphate on regulation of Fe (iron) stress response in soybean and peanut (Glycine max, Arachis hypogaea).
Chaney, R.L. Coulombe, B.A. New York ; Basel : Marcel Dekker, 1982. Iron nutrition and interactions in plants : Brigham Young University, August 12-14, 1981 / edited by S.D. Nelson ... (et al.). p. 469-487. ill. 36 ref. (NAL Call No.: QK867.J67 v. 5, nos. 4-7).

1341

Effect of soil pH (hydrogen-ion concentration) on iron uptake and its specific activity by two cultivars of soybeans differing in ability to accumulate iron and by (Nerium) oleander (Chlorosis).
Wallace, A. Mueller, R.T.; Alexander, G.V.; Soufi, S.M. New York, Marcel Dekker. Journal of plant nutrition. 1980. v. 2 (1/2). p. 205-211. ill. 10 ref. (NAL Call No.: QK867.J67).

1342

Effect of steam sterilization of soil on plants susceptible to iron deficiency (Maize, soybeans, manganese concentration, chlorosis).
Wallace, A. Mueller, R.T. New York, Marcel Dekker. Journal of plant nutrition. 1980. v. 2 (1/2). p. 197-198. ill. 4 ref. (NAL Call No.: QK867.J67).

1343

Evaluation of soil physical properties limiting soybean root development in Louisiana soils (Tillage treatments).
Selim, H.M. Wood, J.R. Jr.; Wilson, G.V.; Kingery, W.L. Baton Rouge, La., The Department. Report of projects - Louisiana Agricultural Experiment Station, Department of Agronomy. 1982. 1982. p. 170-183. ill. (NAL Call No.: 100 L936).

1344

Evaluation of the need for copper with several soil extractants (Deficiencies, critical levels, soybeans, Glycine max, corn, Zea mays, wheat, Triticum aestivum, soils from the Atlantic Coastal Plain, North Carolina).
Makarim, A.K.AGJOA. Cox, F.R. Madison : American Society of Agronomy. Agronomy journal. May/June 1983. v. 75 (3). p. 493-496. Includes references. (NAL Call No.: 4 AM34P).

1345

Experiments on correcting iron deficiency in plants (Atriplex lentiformis, soybeans, wheat).
Wallace, A. Wallace, G.A.; Abou-Zamzam, A.M. New York, N.Y. : Marcel Dekker. Journal of plant nutrition. 1984. Presented at the "Second International Symposium on Iron Nutrition and Interactions in Plants," August 2-5, 1983, Utah State University, Logan. v. 7 (1/5). p. 211-222. Includes references. (NAL Call No.: QK867.J67).

1346

Genetic control of iron deficiency chlorosis in soybeans.
Cianzio, S.R. de. Fehr, W.R. Ames, Iowa State University. Iowa state journal of research. Feb 1980. v. 54 (3). p. 367-375. ill. 10 ref. (NAL Call No.: 470 I09).

1347

Indigenous soil properties influencing the availability of Fe (iron) in calcareous hot spots (Deficiency associated with sorghum and soybeans, localized chlorosis, Texas).
Loeppert, R.H. Hossner, L.R.; Chmielewski, M.A. New York, N.Y. : Marcel Dekker. Journal of

(PLANT DISEASES - PHYSIOLOGICAL)

plant nutrition. 1984. Presented at the "Second International Symposium on Iron Nutrition and Interactions in Plants," August 2-5, 1983, Utah State University, Logan. v. 7 (1/5). p. 135-147. ill., maps. Includes references. (NAL Call No.: QK867.J67).

1348

Influence of washing of soybean leaves on identification of iron deficiency by leaf analysis (Glycine max).

Wallace, A. Mueller, R.T.; Cha, J.W.; Romney, E.M. New York ; Basel : Marcel Dekker, 1982. Iron nutrition and interactions in plants : Brigham Young University, August 12-14, 1981 / edited by S.D. Nelson ... (et al.). p. 805-810. 15 ref. (NAL Call No.: QK867.J67 v. 5, nos. 4-7).

1349

Inheritance of tolerance of high manganese supply in soybeans (Manganese toxicity).

Heenan, D.P. Campbell, L.C.; Carter, D.G. Madison, Wis., Crop Science Society of America. Crop science. July/Aug 1981. v. 21 (4). p. 625-627. Bibliography p. 627. (NAL Call No.: 64.8 C883).

1350

Manganese deficiency and toxicity sensitivities of soybean cultivars.

Ohki, K. USDA. Wilson, D.O.; Anderson, O.E. Madison, Wis., American Society of Agronomy. Agronomy journal. Sept/Oct 1980. v. 72 (5). p. 713-716. 12 ref. (NAL Call No.: 4 AM34P).

1351

Manganese deficiency in Indiana soils.

Hood, E. L. Spies, C. D. & Agronomy guide. 197?. This publication deals with manganese deficiencies in Indiana. Included in the article are the locations of deficiency problems and how to recognize manganese deficiencies in soybeans, oats, wheat, and corn. To correct a manganese deficiency a section discusses how to amend or correct the problem. Sampling plants for deficiency tests are also mentioned in the publication. Document available from: Mailing Room, Ag. Admin. Bldg., Purdue Univ., West Lafayette, IN 47907. 1 sheet. (NAL Call No.: AY-100).

1352

Manganese toxicity and iron nutrition of soybeans / by Stanley Sam Portch.

Portch, Stanley Sam, 1937. 1971. Thesis (Ph.D.)--University of Arkansas, 1971. Photocopy. Ann Arbor, Mich. : University Microfilms, 1971. xvi, 200 leaves ; 21 cm.

Bibliography: leaves 154-180. (NAL Call No.: DISS 71-19,554).

1353

Mixtures of soybean cultivars to minimize yield loss caused by iron-deficiency chlorosis.

Trimble, M.W. CRPSA. Fehr, W.R. Madison : Crop Science Society of America. Crop science. July/Aug 1982. v. 23 (4). p. 691-694. Includes references. (NAL Call No.: 64.8 C883).

1354

Phenotypic thermal stability of rhizobitoxine-induced chlorosis and the nodulation controlling gene, *rj* (Soybeans, *Rhizobium japonicum*).

Devine, T.E. AR-BARC. Breithaupt, B.H. Madison, Wis., Crop Science Society of America. Crop science. May/June 1980. v. 20 (3). p. 394-396. ill. 10 ref. (NAL Call No.: 64.8 C883).

1355

Photosynthetic capacity i potassium stressed soybean: comparison of CO₂ (carbon dioxide) fixation and O₂ (oxygen) evolution assays.

Wells, R. Liebhards, W.C.; Svec, L.V.; Frick, H. New York, Marcel Dekker. Journal of plant nutrition. 1979. v. 1 (3). p. 283-293. ill. 20 ref. (NAL Call No.: QK867.J67).

1356

Plant genotype differences to ferrous and total iron in emerging leaves. II. Dry beans and soybeans (Uptake and deficiency).

Pierson, E.E. Clark, R.B.; Coyne, D.P.; Maranville, J.W. New York, N.Y. : Marcel Dekker. Journal of plant nutrition. 1984. Presented at the "Second International Symposium on Iron Nutrition and Interactions in Plants," August 2-5, 1983, Utah State University, Logan. v. 7 (1/5). p. 355-369. ill. Includes references. (NAL Call No.: QK867.J67).

1357

Plant tissue tests tell troubles (Soybeans, nutritional deficiencies).

Marking, S. St. Louis, Mo., American Soybean Association. Soybean digest. Apr 1980. v. 40 (6). p. 28-29. ill. (NAL Call No.: 60.38 S09).

1358

The relationship of soil solution chemistry to iron chlorosis and yield of soybeans on high lime soils (Variety comparisons, Minnesota).
Bloom, P.R.MXMRA. Inskeep, W.P. St. Paul : The Station. Miscellaneous publication - University of Minnesota, Agricultural Experiment Station. 1983. 1983. (2 rev.). p. 213-215. (NAL Call No.: S1.M52).

1359

Screening soybeans for iron efficiency in the growth chamber (Genotypes, chlorosis).
Byron, D.F.CRPSAY. Lambert, J.W. Madison : Crop Science Society of America. Crop science. Sept/Oct 1983. v. 23 (5). p. 885-888. ill. Includes references. (NAL Call No.: 64.8 C883).

1360

Soil-plant manganese relationships with emphasis on soybeans (Glycine max, deficiency, USA).
Tierney, C.E.CSOSA. Martens, D.C. New York : Marcel Dekker. Communications in soil science and plant analysis. 1982. v. 13 (11). p. 909-925. 77 ref. (NAL Call No.: S590.C63).

1361

Temperature effects on soybean imbibition and leakage (Chilling injuries).
Leopold, A.C. Bethesda, Md., American Society of Plant Physiologists. Plant physiology. June 1980. v. 65 (6). p. 1096-1098. ill. 16 ref. (NAL Call No.: 450 P692).

1362

Use of bicarbonate in screening soybeans for resistance to iron chlorosis (Soybeans, cultivars, genetics).
Coulombe, B.A. Chaney, R.L.; Wiebold, W.J. New York, N.Y. : Marcel Dekker. Journal of plant nutrition. 1984. Presented at the "Second International Symposium on Iron Nutrition and Interactions in Plants," August 2-5, 1983, Utah State University, Logan. v. 7 (1/5). p. 411-425. ill. Includes references. (NAL Call No.: QK867.J67).

MISCELLANEOUS PLANT DISORDERS

1363

Absorption, translocation, and degradation of SN 533 by soybeans (*Glycine max*) and peanuts (*Arachis hypogaea*) (Herbicide, phytotoxicity). Harrison, H.F. Jr. WEESA. Slife, F.W. Champaign : Weed Science Society of America. Weed science. Mar 1983. v. 31 (2). p. 259-263. ill. Includes references. (NAL Call No.: 79.8 W41).

1364

Accumulation of fluoride by the soybean (*Glycine max* L. Merrill var Dare). I. Visible injury and related effects on seed yield (Hydrogen fluoride, air pollution). Ghiasseddin, M. Hughes, J.M.; Diem, J.E.; Mason, J.W. New York, Marcel Dekker. Journal of plant nutrition. 1981. v. 3 (1/4). p. 429-440. ill. Bibliography p. 437-440. (NAL Call No.: QK867.J67).

1365

Accumulation of fluoride by the soybean (*Glycine max* L. Merrill var Dare). II. Accumulation in leaves, fruit, and seeds (Hydrogen fluoride, air pollution). Ghiasseddin, M. Hughes, J.M.; Diem, J.E.; Mason, J.W. New York, Marcel Dekker. Journal of plant nutrition. 1981. v. 3 (1/4). p. 441-456. ill. 14 ref. (NAL Call No.: QK867.J67).

1366

The allelopathic potential of pigeon peas in Puerto Rico (*Cajanus cajan*, weed suppression, phytotoxicity to soybeans, self inhibition). Hepperly, P.R. JAUPA. Diaz, M. Rio Piedras : University of Puerto Rico, Agricultural Experiment Station. The Journal of agriculture of the University of Puerto Rico. Oct 1983. v. 67 (4). p. 453-463. ill. Includes references. (NAL Call No.: 8 P832J).

1367

Analysis of yield decline in soybeans planted at nonoptimal planting dates, Baton Rouge, 1981 Planting Date Study. Board, J.E. Baton Rouge, La., The Department. Report of projects - Louisiana Agricultural Experiment Station, Department of Agronomy. 1982. 1982. p. 107-111. (NAL Call No.: 100 L936).

1368

ASA-610 ability to detect changes in soybean seed quality (Vigor, seed deterioration). McDonald, M.B. Jr. Wilson, D.D. East Lansing, Association of Official Seed Analysts. Journal of seed technology. 1980. v. 5 (1). p. 56-66. 17 ref. (NAL Call No.: SB113.2.U6).

1369

Atrazine persistence in a corn-soybean doublecropping system (Herbicide residue). Brecke, B.J. Currey, W.L.; Teem, D.H. Madison, Wis., American Society of Agronomy. Agronomy journal. May/June 1981. v. 73 (3). p. 534-537. ill. 10 ref. (NAL Call No.: 4 AM34P).

1370

Buthidazole phytotoxicity (to cucumber and soybeans) as affected by placement and water. Weber, J.B. Lowder, S.W.; Swain, L.R.; Peter, C.J. Auburn, Ala., The Society. Proceedings - Southern Weed Science Society. 1980. 1980. (33d). p. 276-279. ill. 3 ref. (NAL Call No.: 79.9 S08).

1371

Calcium-trace metal interactions in soybean plants (Phytotoxicity). Wallace, A. Romney, E.M.; Mueller, R.T.; Alexander, G.V. New York, Marcel Dekker. Journal of plant nutrition. 1980. v. 2 (1/2). p. 79-86. ill. 18 ref. (NAL Call No.: QK867.J67).

1372

Characterization of solute efflux from dehydration injured soybean (*Glycine max* L. Merr) seeds. Senaratna, T. PLPHA. McKersie, B.D. Rockville : American Society of Plant Physiologists. Plant physiology. Aug 1983. v. 72 (4). p. 911-914. Includes references. (NAL Call No.: 450 P692).

1373

Chloride toxicity of soybeans grown on Atlantic Coast flatwoods soils (*Glycine max*, cultivars, leaf scorch, potassium chloride fertilizers, Georgia). Parker, M.B. AGJDA. Gascho, G.J.; Gaines, T.P. Madison : American Society of Agronomy. Agronomy journal. May/June 1983. v. 75 (3). p. 439-443. Includes references. (NAL Call No.: 4 AM34P).

1374

Chlorobiphenyl movement from soil to soybean plants. Fries, G.F. Marrow, G.S. Washington, D.C., American Chemical Society. Journal of agricultural and food chemistry. July/Aug 1981. v. 29 (4). p. 757-759. 11 ref. (NAL Call No.: 381 J8223).

1375

Comparative studies of foliar protection from ozone induced by EDU

("N-(2-(2-oxo-1-imidazolidinyl) ethyl)-N'-phenylurea,") in greenhouse and growth chamber preconditioned plants (Beans, red clover, soybeans, cotton).

Lee, E.H. AR-BARC. Bennett, J.H. Longmont, Colo., The Group. Proceedings - Plant Growth Regulator Working Group. Plant Growth Regulator Working Group. 1979. Abstract only. 1979. (6th). p. 218. (NAL Call No.: SB128.P5).

1376

A comparative study of pendimethalin and trifluralin on soybean and cotton root systems.

Pavlista, A.D. Auburn, Ala., The Society. Proceedings - Southern Weed Science Society. 1980. 1980. (33d). p. 257-267. ill. 8 ref. (NAL Call No.: 79.9 S08).

1377

Comparative toxicity of 131,596 chemicals to plant seeds (Corn, wild oats, cotton, soybean, radish).

Kenaga, E.E. New York, Academic Press. Ecotoxicology and environmental safety. Dec 1981. v. 5 (4). p. 469-475. Includes 5 ref. (NAL Call No.: QH545.A1E29).

1378

Comparison of experimental designs used to detect changes in yields of crops exposed to acidic precipitation (Glycine max, air pollution effects, statistical evaluation).

Evans, L.S. AGJOAT. Thompson, K.H. Madison : American Society of Agronomy. Agronomy journal. Jan/Feb 1984. v. 76 (1). p. 81-84. Includes references. (NAL Call No.: 4 AM34P).

1379

A comparison of various growth parameters of cell suspension cultures to determine phytotoxicity of xenobiotics (Soybean, Glycine max, einkorn, Triticum monococcum, detergent or herbicide).

Davis, D.G. Stolzenberg, R.L.; Dusky, J.A. Champaign : Weed Science Society of America. Weed science. Mar 1984. v. 32 (2). p. 235-242. ill. Includes references. (NAL Call No.: 79.8 W41).

1380

Compatibility of diclofop and BAS 9052 (2-(1-(ethoxyimino)-butyl)-5-2(2-(ethylthio)propyl)-3-hydroxy-2-cyclohexen-1-one) with Bentazon (Herbicides, soybeans, injury, antagonism).

Campbell, J.R. Penner, D. Champaign, Ill., Weed Science Society of America. Weed science. Sept 1982. v. 30 (5). p. 458-462. 12 ref. (NAL Call No.: 79.8 W41).

1381

Control of cowpea (*Vigna unguiculata*) in soybean (*Glycine max*) with acifluorfen (Herbicides evaluation, phytotoxicity, South Carolina).

Murphy, T.R. Gossett, B.J. Champaign, Ill. : Weed Science Society of America. Weed science. July 1984. v. 32 (4). p. 427-431. Includes 19 references. (NAL Call No.: 79.8 W41).

1382

Critical stages of development for defoliation of soybean (Yield components, economic-injury level).

Fehr, W.R. Lawrence, B.K.; Thompson, T.A. Madison, Wis., Crop Science Society of America. Crop science. Mar 1981. v. 21 (2). p. 259-262. 11 ref. (NAL Call No.: 64.8 C883).

1383

Crop production as related to irrigation for several crops at different locations: Soybean evapotranspiration and yield response to growth stage water deficits (Glycine max, irrigation timing, stress, Colorado).

Hanks, R.J. Danielson, R.E.; Pruitt, W.O.; Martin, P.E. Logan : The Station. Research report - Utah Agricultural Experiment Station. 1982. 1982. (65). p. 344-367. ill. 11 ref. (NAL Call No.: S1.U7).

1384

Dehydration injury in germinating soybean (*Glycine max* L. Merr.) seeds.

Senaratna, T. PLPHA. McKersie, B.D. Rockville : American Society of Plant Physiologists. Plant physiology. July 1983. v. 72 (3). p. 620-624. Includes references. (NAL Call No.: 450 P692).

1385

Determination of herbicide inhibition of photosynthetic electron transport by fluorescence (Soybeans, atrazine, diuron).

Richard, E.P. Jr. WEESA. Goss, J.R.; Arntzen, C.J.; Slife, F.W. Champaign : Weed Science Society of America. Weed science. May 1983. v. 31 (3). p. 361-367. ill. Includes references.

(MISCELLANEOUS PLANT DISORDERS)

(NAL Call No.: 79.8 W41).

1386

Effect of field weathering on the viability and vigor of soybean seed.

Tekrony, D.M. Egli, D.B.; Phillips, A.D. Madison, Wis., American Society of Agronomy. Agronomy journal. Sept/Oct 1980. v. 72 (5). p. 749-753. ill. Bibliography p. 752-753. (NAL Call No.: 4 AM34P).

1387

Effect of moisture stress on seed growth in soybeans (Kentucky).

Meckel, L. Efl, D.B.; Phillips, R.E.; Radcliffe, D.; Leggett, J.E. Madison, Wis. : American Society of Agronomy. Agronomy journal. July/Aug 1984. v. 76 (4). p. 647-650. ill. Includes references. (NAL Call No.: 4 AM34P).

1388

Effect of pyrethroid insecticides on soybean and its pathogen *Rhizoctonia solani* Kuehn (Phytotoxicity and fungitoxicity determination).

Tu, C.M. New York, Marcel Dekker. Journal of environmental science and health. Part A: Environmental science and engineering. 1982. v. 17 (1). p. 43-50. Includes 8 ref. (NAL Call No.: TD172.U6).

1389

Effect of 2,4-DB on soybeans (Glycine max) (Acetylene reduction, phytotoxicity, postemergence weed control, injury).

Barker, M.A. Thompson, L. Jr.; Patterson, R.P. Champaign, Ill. : Weed Science Society of America. Weed science. May 1984. v. 32 (3). p. 299-303. ill. Includes references. (NAL Call No.: 79.8 W41).

1390

Effects of air pollutants on soybeans (Glycine max).

Miller, J.E. Arlington, Va. : Izaak Walton League of America, 1982. Effects of air pollution on farm commodities : proceedings of the symposium, Hyatt Regency Hotel, Washington, D.C., February 18, 1982. Literature review. p. 57-77. 6 p. ref. (NAL Call No.: QK751.S92 1982).

1391

Effects of chronic doses of ozone and sulfur dioxide on injury and yield on soybeans in open-top field chambers (Glycine max, air pollution stress).

Heagle, A.S. CRPSAY. Heck, W.W.; Rawlings, J.O.; Philbeck, R.B. Madison : Crop Science Society of America. Crop science. Nov/Dec 1983. v. 23 (6). p. 1184-1191. ill. Includes references. (NAL Call No.: 64.8 C883).

1392

The effects of Fall application of glyphosate on corn (*Zea mays*), soybeans (*Glycine max*), and johnsongrass (*Sorghum halepense*) (Phytotoxicity).

Jeffery, L.S. English, J.R.; Connell, J. Champaign, Ill., Weed Science Society of America. Weed science. Mar 1981. v. 29 (2). p. 190-195. ill. 9 ref. (NAL Call No.: 79.8 W41).

1393

Effects of freezing field-grown soybean plants at various stages of podfill on yield and seed quality (Frost damage, ice nucleation active bacteria).

Saliba, M.R. Schrader, L.E.; Hirano, S.S.; Upper, C.D. Madison, Wis., Crop Science Society of America. Crop science. Jan/Feb 1982. v. 22 (1). p. 73-78. ill. Includes 13 ref. (NAL Call No.: 64.8 C883).

1394

Effects of glyphosate on metabolism of phenolic compounds. VI. Effects of glyphosine and glyphosate metabolites on phenylalanine ammonia-lyase activity, growth, and protein, chlorophyll, and anthocyanin levels in soybean (*Glycine max*) seedlings (Phytotoxicity).

Hoagland, R.E. AR-SO. Champaign, Ill., Weed Science Society of America. Weed science. July 1980. Literature review. v. 28 (4). p. 393-400. ill. 49 ref. (NAL Call No.: 79.8 W41).

1395

Effects of plant and row spacing on dryland soybean yield and water-use efficiency (*Glycine max*, water stress).

Alessi, J. Power, J.F. Madison, Wis., American Society of Agronomy. Agronomy journal. Sept/Oct 1982. v. 74 (5). p. 851-854. ill. 18 ref. (NAL Call No.: 4 AM34P).

1396

Effects of pyrethroid insecticide seed treatments on *Rhizobium japonicum* and its symbiotic relationship with, and growth of soybean.

Tu, C.M. JPFCD. New York : Marcel Dekker. Journal of environmental science and health. Part B. Pesticides, food contaminants, and agricultural wastes. 1983. v. 18 (3). p. 369-378. ill. Includes references. (NAL Call No.: TD172.J61).

1397

Effects of simulated ozone and sulfur dioxide fumigations on soybeans in open-top field chambers (Air pollution).

Pratt, G.C. Pittsburgh, Pa. : Air Pollution Control Association. Proceedings ... APCA annual meeting. 1983. v. 1 (76th). p. 83-2.1/1-83-2.1/21. ill. Includes references. (NAL Call No.: TD881.A56).

1398

Effects of sulfur dioxide on expansion of lesions caused by *Corynebacterium nebraskense* in maize and by *Xanthomonas phaseoli* var. *sojensis* in soybean (Air pollution injuries).

Laurence, J.A. Aluisio, A.L. St. Paul, Minn., American Phytopathological Society. Phytopathology. Apr 1981. v. 71 (4). p. 445-448. 11 ref. (NAL Call No.: 464.8 P56).

1399

Effects of (the nonselective herbicide) glyphosate on metabolism of phenolic compounds. V. L-alpha-aminooxy-beta-phenylpropionic acid and glyphosate effects on phenylalanine ammonia-lyase in soybean seedlings.

Duke, S.O. AR-SO. Hoagland, R.E.; Elmore, C.D. Bethesda, Md., American Society of Plant Physiologists. Plant physiology. Jan 1980. v. 65 (1). p. 17-21. ill. 27 ref. (NAL Call No.: 450 P692).

1400

Enhanced phytotoxicity of bentazon with organophosphate and carbamate insecticides (Injury to soybean and navy bean).

Campbell, J.R. Penner, D. Champaign, Ill., Weed Science Society of America. Weed science. May 1982. v. 30 (3). p. 324-326. Includes 12 ref. (NAL Call No.: 79.8 W41).

1401

Environmental sensitivity of acetylene reduction activity in prediction of N (nitrogen) fixation in soybeans (relationship between effects of water stress and temperature).

Raper, C.D. Jr. CR. Patterson, R.P. Madison, Wis., American Society of Agronomy. Agronomy journal. Sept/Oct 1980. v. 72 (5). p. 717-719. ill. 13 ref. (NAL Call No.: 4 AM34P).

1402

Ethanol and acetaldehyde in imbibing soybean seeds in relation to deterioration (Injurious treatments).

Woodstock, L.W. Taylorson, R.B. Rockville, Md., American Society of Plant Physiologists. Plant physiology. Mar 1981. v. 67 (3). p. 424-428. ill. 24 ref. (NAL Call No.: 450 P692).

1403

Evaluating hail-damaged soybeans.

Hardman, L.L. MN. Hicks, D.R. St. Paul, Minn., The Service. Extension bulletin - Agricultural Extension Service, University of Minnesota. 1980. 1980. (455). 16 p. ill. (NAL Call No.: 275.29 M66S).

1404

Factors affecting the toxicity of glyphosate applied in the recirculating sprayer to johnsongrass (*Sorghum halepense*) and soybeans (*Glycine max*) (Herbicides).

McWhorter, C.G. AR-SO. Williford, J.R. Champaign, Ill., Weed Science Society of America. Weed science. Jan 1980. v. 28 (1). p. 59-63. ill. 14 ref. (NAL Call No.: 79.8 W41).

1405

The factors of three herbicides on the growth factors and N2 (nitrogen)-fixation of two soybean cultivars (Stimulatory and inhibitory effects, Louisiana).

Chin, K.L. Abayneh, T.; Lee, W.J. Baton Rouge, La. : The University. Research bulletin - Southern University. Sept 1, 1983. v. 5 (1). p. 26-37. ill. Includes references. (NAL Call No.: S539.5.R42).

1406

Fertilizer reduces yield loss from weather stress (Corn, soybeans, research in Ohio).

Johnson, J.BCPFA. Atlanta : Potash & Phosphate Institute. Better crops with plant food. Summer 1983. v. 67. p. 6-7. (NAL Call No.: 6 B46).

(MISCELLANEOUS PLANT DISORDERS)

1407

Foliage injury, nutrient intake, and yield of soybeans as influenced by foliar fertilization. Parker, M.B. Boswell, F.C. Madison, Wis., American Society of Agronomy. Agronomy journal. Jan/Feb 1980. v. 72 (1). p. 110-113. ill. 9 ref. (NAL Call No.: 4 AM34P).

1408

Foliar uptake and injury from saline aerosol (Peppers, tomato, soybeans). Grattan, S.R. Maas, E.V.; Ogata, G. Madison, Wis., American Society of Agronomy. Journal of environmental quality. July/Sept 1981. v. 10 (3). p. 406-409. ill. 28 ref. (NAL Call No.: QH540.J6).

1409

Glyceollin: a site-specific inhibitor of electron transport in isolated soybean mitochondria (Glycine max, Zea mays, maize, autophytotoxicity). Boydston, R. PLPHA. Paxton, J.D.; Koeppe, D.E. Rockville : American Society of Plant Physiologists. Plant physiology. May 1983. v. 72 (1). p. 151-155. Includes references. (NAL Call No.: 450 P692).

1410

Herbicide effects on liposome leakage (Soybeans, permeability). Talbert, D.M. WEESA. Camper, N.D. Champaign : Weed Science Society of America. Weed science. May 1983. v. 31 (3). p. 329-332. ill. Includes references. (NAL Call No.: 79.8 W41).

1411

Host-pathogen interactions. XXI. Extraction of a heat-labile elicitor of phytoalexin accumulation from frozen soybean stems (Soybeans, Glycine max, injuries). Lyon, G.D. Albersheim, P. Rockville, Md., American Society of Plant Physiologists. Plant physiology. Aug 1982. v. 70 (2). p. 406-409. 17 ref. (NAL Call No.: 450 P692).

1412

How to handle herbicide damage (Atrazine, seeding rates, soybeans). Watkins, R. Hardwick, C. St. Louis, Mo., American Soybean Association. Soybean digest. May/June 1981. v. 41 (7). p. 60-61. ill. (NAL Call No.: 60.38 S09).

1413

Identification and evaluation of soil chemical and physical properties limiting root development in Louisiana soils (Soybeans, wheat, minimum tillage, yields). Dabney, S.M. Baton Rouge : The Department. Report of projects - Louisiana Agricultural Experiment Station, Department of Agronomy. 1982. 1982. p. 290-299. ill. (NAL Call No.: 100 L936).

1414

Imbibitional chilling injury in soybean axes: Relationship to stelar lesions and seasonal environments. Ashworth, E.N. Obendorf, R.L. Madison, Wis., American Society of Agronomy. Agronomy journal. Nov/Dec 1980. v. 72 (6). p. 923-928. ill. 16 ref. (NAL Call No.: 4 AM34P).

1415

Impact of ozone on soybean yield (Air pollution). Kress, L.W. JEVQA. Miller, J.E. Madison : American Society of Agronomy. Journal of environmental quality. Apr/June 1983. v. 12 (2). p. 276-281. Includes references. (NAL Call No.: QH540.J6).

1416

Increased success of the Mexican bean beetle on field-grown soybeans exposed to sulfur dioxide (Glycine max, Epilachna varivestis). Hughes, P.R. JEVQA. Dickie, A.I.; Penton, M.A. Madison : American Society of Agronomy. Journal of environmental quality. Oct/Dec 1983. v. 12 (4). p. 565-568. Includes references. (NAL Call No.: QH540.J6).

1417

Increasing herbicide (atrazine, metribuzin) tolerance of soybeans (Glycine max) by increasing seeding rates (Phytotoxicity). Andersen, R.N. Champaign, Ill., Weed Science Society of America. Weed science. May 1981. v. 29 (3). p. 336-338. 3 ref. (NAL Call No.: 79.8 W41).

1418

Influence of herbicide injury on the yield potential of soybeans (Glycine max). Hagood, E.S. Jr. Williams, J.L. Jr.; Bauman, T.T. Champaign, Ill., Weed Science Society of America. Weed science. Jan 1980. v. 28 (1). p. 40-45. ill. 15 ref. (NAL Call No.: 79.8 W41).

1419

Influence of soil reaction and manganese applications on yields and chemical composition of soybean plants (Includes phytotoxicity, Louisiana).

Sedberry, J.E. Jr. Bligh, D.P.; Mascagni, H.U.; Brupbacher, R.H.; Marshall, J.G. Baton Rouge : The Department. Report of projects - Louisiana Agricultural Experiment Station, Department of Agronomy. 1982. 1982. p. 277-280. Includes references. (NAL Call No.: 100 L936).

1420

Influence of the herbicides hexazinone and chlorsulfuron on the metabolism of isolated soybean leaf cells (Photosynthetic inhibitor).

Hatzios, K.K. Howe, C.M. New York, Academic Press. Pesticide biochemistry and physiology. June 1982. v. 17 (3). p. 207-214. 21 ref. (NAL Call No.: SB951.P49).

1421

Influence of water stress on the diurnal exchange of mass and energy between the atmosphere and a soybean canopy (Glycine max, Nebraska).

Baldocchi, D.D. AGJOA. Verma, S.B.; Rosenberg, N.U.; Blad, B.L.; Garay, A. Madison : American Society of Agronomy. Agronomy journal. May/June 1983. v. 75 (3). p. 543-548. ill. Includes references. (NAL Call No.: 4 AM34P).

1422

Inheritance of tolerance or resistance to manganese toxicity in soybeans.

Brown, J.C. Devine, T.E. Madison, Wis., American Society of Agronomy. Agronomy journal. Nov/Dec 1980. v. 72 (6). p. 898-904. ill. 17 ref. (NAL Call No.: 4 AM34P).

1423

Interaction of antioxidants with ozone and herbicide stress (Tested with navy beans, maize, and soybeans, includes phytotoxicity).

Rubin, B. AR-NC. Leavitt, J.R.C.; Penner, D.; Saettler, A.W. New York, Springer. Bulletin of environmental contamination and toxicology. Oct 1980. v. 25 (4). p. 623-629. 10 ref. (NAL Call No.: RA1270.P35A1).

1424

Interactions of herbicides with insecticides in soybeans (Glycine max) (Injury).

Waldrop, D.D. WEESA. Banks, P.A. Champaign : Weed Science Society of America. Weed science. Sept 1983. v. 31 (5). p. 730-734. Includes references. (NAL Call No.: 79.8 W41).

1425

Interactive effects of salinity and substrate phosphate on soybean (Phytotoxicity).

Grattan, S.R. Maas, E.V. Madison, Wis. : American Society of Agronomy. Agronomy journal. July/Aug 1984. v. 76 (4). p. 668-676. ill. Includes references. (NAL Call No.: 4 AM34P).

1426

Joint action of sulfur dioxide and nitrogen dioxide on foliar injury and stomatal behavior in soybean.

Amundson, R.G. Weinstein, L.H. Madison, Wis., American Society of Agronomy. Journal of environmental quality. Apr/June 1981. v. 10 (2). p. 204-206. ill. 12 ref. (NAL Call No.: QH540.J6).

1427

Manganese deficiency and toxicity sensitivities of soybean cultivars.

Ohki, K. USDA. Wilson, D.O.; Anderson, D.E. Madison, Wis., American Society of Agronomy. Agronomy journal. Sept/Oct 1980. v. 72 (5). p. 713-716. 12 ref. (NAL Call No.: 4 AM34P).

1428

Mefluidide-bentazon interactions on soybeans (Glycine max) and red rice (Oryza sativa) (Weed control in rice fields of southwest Louisiana, Phytotoxicity).

Rao, S.R. Harger, T.R. Champaign, Ill., Weed Science Society of America. Weed science. Mar 1981. v. 29 (2). p. 200-209. ill. 21 ref. (NAL Call No.: 79.8 W41).

1429

Metabolism of (14C) (carbon isotope)vernolate in soybeans (Herbicide, detoxification).

Wilkinson, R.E. PCBPB. New York : Academic Press. Pesticide biochemistry and physiology. Dec 1983. v. 20 (3). p. 347-353. ill. Includes references. (NAL Call No.: SB951.P49).

1430

Methanol stress as a test of seed vigor (Peas, soybeans, cultivars, germination).

Musgrave, M.E. Priestley, D.A.; Leopold, A.C. Madison, Wis., Crop Science Society of America. Crop science. Sept/Oct 1980. v. 20 (5). p. 626-630. ill. 20 ref. (NAL Call No.: 64.8 C883).

(MISCELLANEOUS PLANT DISORDERS)

1431

Metolachlor and alachlor effects on membrane permeability and lipid synthesis (Herbicides, phytotoxicity, using roots of corn, soybean, cotton, cucumber, onion).
Mellis, J.M. Pillai, P.; Davis, D.E.; Truelove, B. Champaign, Ill., Weed Science Society of America. Weed science. July 1982. v. 30 (4). p. 399-404. ill. 27 ref. (NAL Call No.: 79.8 W41).

1432

Metribuzin injury in soybeans as influenced by application timing and cultivation (Herbicide injury, Kansas).
Moshier, L.J. Russ, D.G. Madison, Wis., American Society of Agronomy. Agronomy journal. July/Aug 1981. v. 73 (4). p. 677-679. 9 ref. (NAL Call No.: 4 AM34P).

1433

Moisture stress and N (nitrogen) redistribution in soybeans (Glycine max).
Egli, D.B. AGUOA. Meckel, L.; Phillips, R.E.; Radcliffe, D.; Leggett, J.E. Madison : American Society of Agronomy. Agronomy journal. Nov/Dec 1983. v. 75 (6). p. 1027-1031. Includes references. (NAL Call No.: 4 AM34P).

1434

Mutagenicity of selected chemicals in soybean test systems (Includes agricultural chemicals, environmental pollutants).
Vig, B.K. Sung, R. New York, Plenum Press. Environmental science research. 1982. v. 24. p. 257-290. 40 ref. (NAL Call No.: TD172.E55).

1435

Open-air fumigation system for investigating sulfur dioxide effects on crops (Soybeans, air pollution effects).
Miller, J.E. Sprugel, D.G.; Muller, R.N.; Smith, H.J.; Xerikos, P.B. St. Paul, Minn., American Phytopathological Society. Phytopathology. Dec 1980. v. 70 (12). p. 1124-1128. ill. 14 ref. (NAL Call No.: 464.8 P56).

1436

Oxidants and acid precipitation: a method for identifying and modeling effects on United States soybean yield.
Medeiros, W.H. Moskowitz, P.D.; Coveney, E.A.; Thode, H.C. Jr. Pittsburgh, Pa. : Air Pollution Control Association. Proceedings ... APCA annual meeting. 1983. v. 1 (76th). p. 83-2.4/1-83-2.4/9. Includes references. (NAL Call No.: TD881.A56).

1437

Ozone and sulfur dioxide-induced changes in soybean growth (Air pollution, phytotoxicity).
Reinert, R.A. Weber, D.E. St. Paul, Minn., American Phytopathological Society. Phytopathology. Sept 1980. v. 70 (9). p. 914-916. 13 ref. (NAL Call No.: 464.8 P56).

1438

Persistence of cotton (Gossypium hirsutum) herbicides and injury to replacement soybeans (Glycine max) after stand failure.
Sharp, T. Frans, R.; Talbert, R. Champaign, Ill., Weed Science Society of America. Weed science. Jan 1982. v. 30 (1). p. 109-115. ill. Includes 16 ref. (NAL Call No.: 79.8 W41).

1439

Persistence of hormone-type herbicide residue in tissue of susceptible crop plants (Tomatoes, soybeans, turnips).
Siron, G.J. Anderson, G.W.; Frank, R.; Ripley, B.D. Champaign : Weed Science Society of America. Weed science. Nov 1982. v. 30 (6). p. 572-578. ill. 12 ref. (NAL Call No.: 79.8 W41).

1440

Phytotoxic interaction between phenylurea herbicides in a cotton (Gossypium hirsutum)-soybean (Glycine max) sequence.
Chandler, J.M. AR-SO. Savage, K.E. Champaign, Ill., Weed Science Society of America. Weed science. Sept 1980. v. 28 (5). p. 521-526. ill. 10 ref. (NAL Call No.: 79.8 W41).

1441

Phytotoxicity of soybean caused by the interaction of insecticide-nematicides and metribuzin.
Hammond, R.B. College Park, Md. : Entomological Society of America. Journal of economic entomology. Feb 1983. v. 76 (1). p. 17-19. Includes references. (NAL Call No.: 421 J822).

1442

Plutonium contents and fluxes in a soybean crop ecosystem near a nuclear fuel chemical separations facility.
Adriano, D.C. Pinder, J.E. III; McLeod, K.W.; Corey, J.C.; Boni, A.L. Madison, Wis., American Society of Agronomy. Journal of environmental quality. July/Sept 1982. v. 11 (3). p. 506-511. ill. 12 ref. (NAL Call No.: QH540.J6).

1443

A predictive model of water stress in corn and soybeans.

Sudar, R.A. Saxton, K.E.; Spomer, R.G. St. Joseph, Mich., The Society. Transactions of the ASAE - American Society of Agricultural Engineers. Jan/Feb 1981. v. 24 (1). p. 97-102. ill. 22 ref. (NAL Call No.: 290.9 AM32T).

1444

Premature flowering in soybean yield reductions at nonoptimal planting dates as influenced by temperature and photoperiod (Cultivar comparisons, daylengths, includes field studies in Louisiana).

Board, J.E. Hall, W. Madison, Wis. : American Society of Agronomy. Agronomy journal. July/Aug 1984. v. 76 (4). p. 700-704. ill. Includes references. (NAL Call No.: 4 AM34P).

1445

Productivity of field-grown soybeans exposed to acid rain and sulfur dioxide alone and in combination.

Irving, P.M. Miller, J.E. Madison, Wis., American Society of Agronomy. Journal of environmental quality. Oct/Dec 1981. v. 10 (4). p. 473-478. Includes 31 ref. (NAL Call No.: QH540.J6).

1446

Reaction of soybean cultivars to Temik (aldicarb) and inheritance of the reaction (Insecticides, tolerance).

Kihl, R.A.S. Almeida, L.A. Ames, Iowa, The Service. Soybean genetics newsletter - United States, Agricultural Research Service. Apr 1982. v. 9. p. 17-18. (NAL Call No.: aSB205.S7S6).

1447

Reflectorized soybean canopy in relation to transpiration and herbicide phytotoxicity.

Ogbuehi, S.N. Leavitt, J.R.C.; Brandle, J.R. New York, Springer. Bulletin of environmental contamination and toxicology. Dec 1980. v. 25 (6). p. 789-883. 12 ref. (NAL Call No.: RA1270.P35A1).

1448

Relationships among injury, growth, and yield responses of soybean cultivars exposed to ozone at different light intensities.

Heagle, A.S. Letchworth, M.B. Madison : American Society of Agronomy. Journal of environmental quality. Oct/Dec 1982. v. 11 (4). p. 690-694. 16 ref. (NAL Call No.: QH540.J6).

1449

Residual air pollution effects on soybean seed quality.

Howell, R.K. Rose, L.P. Jr. St. Paul, Minn., American Phytopathological Society. Plant disease. Apr 1980. v. 64 (4). p. 385-386. ill. 10 ref. (NAL Call No.: 1.9 P69P).

1450

Response of chronically ozonated soybean plants to an acute ozone exposure (Glycine max, air pollution, phytotoxic component).

Johnston, J.W. Jr. Heagle, A.S. St. Paul, Minn., American Phytopathological Society. Phytopathology. Apr 1982. v. 72 (4). p. 387-389. Includes 10 ref. (NAL Call No.: 464.8 P56).

1451

Response of corn and soybeans to simulated saline aerosol drift from brackish water cooling towers.

Mulchi, C.L. Armbruster, J.A. Madison, Wis., American Society of Agronomy. Journal of environmental quality. Oct/Dec 1981. v. 10 (4). p. 541-547. Includes 21 ref. (NAL Call No.: QH540.J6).

1452

Response of corn and soybeans to soil vs. foliar-applied salts of cooling tower origin (Zea mays, Glycine max, saline aerosol, air pollution).

Armbruster, J.A. Mulchi, C.L. Madison, Wis. : American Society of Agronomy. Journal of environmental quality. Apr/June 1984. v. 13 (2). p. 278-282. Includes references. (NAL Call No.: QH540.J6).

1453

Response of soybeans to flood irrigation (a preliminary report) (Water stress, yield effects, Louisiana).

Griffin, J.L. Habetz, R.J.; Regan, R.P. Crowley : The Station. Annual progress report - Louisiana, Rice Experiment Station. 1982. 1982. (74th). p. 350-358. ill. Includes references. (NAL Call No.: 100 L93 (3)).

1454

Response of soybeans to simulated acid rain in the field (Rhizobium nodulation).

Heagle, A.S. JEVQA. Philbeck, R.B.; Brewer, P.F.; Ferrell, R.E. Madison : American Society of Agronomy. Journal of environmental quality. Oct/Dec 1983. v. 12 (4). p. 538-543. ill. Includes references. (NAL Call No.: QH540.J6).

(MISCELLANEOUS PLANT DISORDERS)

1455

Responses of selected plant species to elevated carbon dioxide in the field (Zea mays, Glycine max, Pinus taeda, Liquidambar styraciflua).
Rogers, H.H.JEVQA. Bingham, G.E.; Cure, J.D.; Smith, J.M.; Surano, K.A. Madison : American Society of Agronomy. Journal of environmental quality. Oct/Dec 1983. v. 12 (4). p. 569-574. Includes references. (NAL Call No.: QH540.J6).

1456

Root system characteristics of two soybean isolines undergoing water stress conditions (Glycine max, Nebraska).
Garay, A.F.AGUOA. Wilhelm, W.W. Madison : American Society of Agronomy. Agronomy journal. Nov/Dec 1983. v. 75 (6). p. 973-977. ill. Includes references. (NAL Call No.: 4 AM34P).

1457

Screening of herbicidal antidotes for soybeans (Atrazine).
Bhagsari, A.S. USDA. Phillips, B.A. Fort Valley, Ga., The Division. Research bulletin - the Fort Valley State College. Fort Valley State College. Division of Agriculture. 1978. v. 2. p. 15-19. ill. 15 ref. (NAL Call No.: S537.F7F6).

1458

The seed coat as a control of imbibitional chilling injury (Soybeans).
Tully, R.E. Musgrave, M.E.; Leopold, A.C. Madison, Wis., Crop Science Society of America. Crop science. Mar/Apr 1981. v. 21 (2). p. 312-317. ill. 19 ref. (NAL Call No.: 64.8 C883).

1459

Selectivity mechanisms for foliar applications of diclofop-methyl. II. Metabolism (Studies with weeds, proso millet, soybeans and cucumber, uptake, tolerance).
Boldt, P.F. Putnam, A.R. Champaign, Ill., Weed Science Society of America. Weed science. Mar 1981. v. 29 (2). p. 237-241. ill. 15 ref. (NAL Call No.: 79.8 W41).

1460

Shrinkage of soybean roots (Glycine max, water stress effects).
Taylor, H.M.AGUOA. Willatt, S.T. Madison : American Society of Agronomy. Agronomy journal. Sept/Oct 1983. v. 75 (5). p. 818-820. ill. Includes references. (NAL Call No.: 4 AM34P).

1461

Single and multiple trace metal excess effects on three different species (Maize, soybeans, barley on contaminated soil).
Wallace, A. Romney, E.M.; Kinnear, J.; Alexander, G.V. New York, Marcel Dekker. Journal of plant nutrition. 1980. v. 2 (1/2). p. 11-23. ill. 11 ref. (NAL Call No.: QK867.J67).

1462

Soybean cultivar Hodgson response to ozone (Pollutant, injury).
Pratt, G.C. Krupa, S.V. St. Paul, Minn., American Phytopathological Society. Phytopathology. Nov 1981. v. 71 (11). p. 1129-1132. 14 ref. (NAL Call No.: 464.8 P56).

1463

Soybean plant damage and yields as affected by metribuzin and seed quality (Glycine max, Cassia obtusifolia, herbicide).
Gossett, B.J. Morgan, L.F.; Murphy, T.R. Madison, Wis., American Society of Agronomy. Agronomy journal. July/Aug 1982. v. 74 (4). p. 691-693. 13 ref. (NAL Call No.: 4 AM34P).

1464

Soybean seed quality as affected by impact damage (Mechanical damage during harvesting and handling).
Paulsen, M.R. Nave, W.R.; Gray, L.E. St. Joseph, Mich., The Society. Transactions of the ASAE - American Society of Agricultural Engineers. Nov/Dec 1981. v. 24 (6). p. 1577-1582, 1589. ill. 10 ref. (NAL Call No.: 290.9 AM32T).

1465

Stability of soybean harvest index (within cultivars, Drought stress effects, interplant competition, Florida, New York).
Spaeth, S.C. Randall, H.C.; Sinclair, T.R.; Vendeland, J.S. Madison, Wis. : American Society of Agronomy. Agronomy journal. May/June 1984. v. 76 (3). p. 482-486. ill. Includes references. (NAL Call No.: 4 AM34P).

1466

Storability of harvest-damaged soybeans.
Paulsen, M.R. Nave, W.R.; Mounts, T.L.; Gray, L.E. St. Joseph, Mich., The Society. Transactions of the ASAE - American Society of Agricultural Engineers. Nov/Dec 1981. v. 24 (6). p. 1583-1589. ill. 16 ref. (NAL Call No.: 290.9 AM32T).

1467

A study of soybeans and rhizobia tolerance to low phosphorus - high aluminum in acid soils (Cultivars).

Taylor, R.W. Patel, S. Normal : The School. Annual research report - School of Agriculture. Environmental Science and Home Economics. Alabama Agricultural and Mechanical University. 1983. 1983. (12th). p. 113-120. ill. Includes references. (NAL Call No.: S537.A2A34).

1468

Sulfur dioxide effects on yield and seed quality in field-grown soybeans.

Sprugel, D.G. Miller, J.E.; Muller, R.N.; Smith, H.J.; Xerikos, P.B. St. Paul, Minn., American Phytopathological Society. Phytopathology. Dec 1980. v. 70 (12). p. 1129-1133. ill. 27 ref. (NAL Call No.: 464.8 P56).

1469

Technetium: a toxic waste product of the nuclear fuel cycle: effects on soybean growth and development.

Berlyn, G.P. Dhillon, S.S.; Koslow, E.E. Mar 1980. v. 4 (2). Environmental management. Mar 1980. v. 4 (2). p. 149-156. ill. 15 ref. (NAL Call No.: HC79.E5E5).

1470

Tolerance of soybean genotypes to metribuzin (Herbicides, injury).

Eastin, E.F. Sij, J.W.; Craigmiles, J.P. Madison, Wis., American Society of Agronomy. Agronomy journal. Jan/Feb 1980. v. 72 (1). p. 167-168. ill. 6 ref. (NAL Call No.: 4 AM34P).

1471

Tolerance of three soybean (Glycine max) cultivars to metribuzin (Herbicides, injury).

Barrentine, W.L. Hartwig, E.E.; Edwards, C.J. Jr.; Kilen, T.C. Champaign, Ill., Weed Science Society of America. Weed science. July 1982. v. 30 (4). p. 344-348. 10 ref. (NAL Call No.: 79.8 W41).

1472

Translocation of 14C (carbon isotope)-glyphosate (herbicide) in soybeans (Glycine max) and johnsongrass (Sorghum halepense).

McWhorter, C.G. AR-SD. Jordan, T.N.; Wills, G.D. Champaign, Ill., Weed Science Society of America. Weed science. Jan 1980. v. 28 (1). p. 113-118. ill. 23 ref. (NAL Call No.: 79.8 W41).

1473

Use of nitrogen stress to demonstrate the effect of yield limiting factors on the yield response of soybean to narrow row systems (Glycine max, solid seeding, Ohio).

Cooper, R.L. Jeffers, D.L. Madison : American Society of Agronomy. Agronomy journal. Mar/Apr 1984. v. 76 (2). p. 257-259. Includes references. (NAL Call No.: 4 AM34P).

1474

Water stress effects on CO2 (carbon dioxide) assimilation, photosynthate partitioning, stomatal resistance, and nodule activity in soybean.

Finn, G.A. USDA. Brun, W.A. Madison, Wis., Crop Science Society of America. Crop science. July/Aug 1980. v. 20 (4). p. 431-434. ill. 14 ref. (NAL Call No.: 64.8 C883).

1475

Weather damage lowers quality of soybean crop.

Urbanski, G.E. IL. Wei, L.S.; Nelson, A.I. Urbana, The Station. Illinois research - Illinois Agricultural Experiment Station. Summer 1980. v. 22 (3). p. 10-11. ill. (NAL Call No.: 100 IL64).

1476

Yield of indeterminate soybeans in response to multiple periods of soil-water stress during reproduction (Glycine max, cultivars).

Snyder, R.L. Carlson, R.E.; Shaw, R.H. Madison, Wis., American Society of Agronomy. Agronomy journal. Sept/Oct 1982. v. 74 (5). p. 855-859. 2 p. ref. (NAL Call No.: 4 AM34P).

1477

Yield reduction from defoliation and plant cutoff of determinate and semideterminate soybean (Glycine max cultivars, plant-damage, Arkansas).

Pickle, C.S. Caviness, C.E. Madison, Wis. : American Society of Agronomy. Agronomy journal. May/June 1984. v. 76 (3). p. 474-476. Includes references. (NAL Call No.: 4 AM34P).

1478

Yield reduction from defoliation of irrigated and non-irrigated soybeans (Drought stress).

Caviness, C.E. Thomas, J.D. Madison, Wis., American Society of Agronomy. Agronomy journal. Nov/Dec 1980. v. 72 (6). p. 977-980. 13 ref. (NAL Call No.: 4 AM34P).

(MISCELLANEOUS PLANT DISORDERS)

1479

Yield reduction of soybean due to exposure to sulfur dioxide and nitrogen dioxide in combination (Air pollution).

Amundson, R.G. JEVQA. Madison : American Society of Agronomy. Journal of environmental quality. Oct/Dec 1983. v. 12 (4). p. 454-459. Includes references. (NAL Call No.: QH540.J6).

PROTECTION OF PLANT PRODUCTS – GENERAL AND MISC.

1480

Constraints in using seed leachate characteristics to estimate seed vigor for varietal seed keeping quality comparisons in soybeans.

Gumisiriza, G. Kueneman, E.A. Ames, Iowa, The Service. Soybean genetics newsletter - United States, Agricultural Research Service. Apr 1982. v. 9. p. 87-91. 8 ref. (NAL Call No.: aSB205.S7S6).

1481

An economic engineering study of commercial grain storage in South Carolina (Corn, wheat, soybeans, costs and returns).

Shedd, D.T.SCAEA. Miller, S.E. Clemson : The Station. Bulletin - South Carolina Agricultural Experiment Station. July 1983. July 1983. (649). 18 p. Includes references. (NAL Call No.: 100 S08 (1)).

1482

Effect of deterioration in soybean (Glycine max) seed on storability and field performance / by Harold Wayne Byrd.

Byrd, Harold Wayne, 1941. 1970. Thesis (Ph.D.)--Mississippi State University, 1970. Photocopy. Ann Arbor, Mich. : University Microfilms, 1971. iv, 96 leaves ; 21 cm. Bibliography: leaves 92-96. (NAL Call No.: DISS 71-8,836).

1483

The effect of diflubenzuron and fentin hydroxide on soybean seed quality (Cultivars, pesticides injury).

Hatzios, K.K. Penner, D. East Lansing, Association of Official Seed Analysts. Journal of seed technology. 1977. v. 2 (1). p. 73-80. ill. 16 ref. (NAL Call No.: SB113.2.U6).

1484

The effects of temperature on longevity and vitality of soybean seeds (Storage).

Bailey, Z.E. Ames, Iowa, The Service. Soybean genetics newsletter - United States, Agricultural Research Service. Apr 1982. v. 9. p. 109-111. ill. (NAL Call No.: aSB205.S7S6).

1485

Improved indoxyl acetate test for detecting soybean seedcoat damage.

Paulsen, M.R. Nave, W.R. St. Joseph, Mich., The Society. Transactions of the ASAE. American Society of Agricultural Engineers. Nov/Dec 1979. v. 22 (6). p. 1475-1479. ill. 9 ref. (NAL Call No.: 290.9 AM32T).

1486

Predicting the storability of soybean seed lots (Germination, accelerated aging, regression analysis).

Baskin, C.C. East Lansing, Mich., Association of Official Seed Analysts. Journal of seed technology. 1980. v. 5 (2). p. 1-6. 6 ref. (NAL Call No.: SB113.2.U6).

1487

The quality of soybean seed as affected by benomyl (foliar fungicide) treatment.

Johnson, R.R. Keith, G.M. Urbana, Agricultural Experiment Station. Illinois research. Winter 1979. v. 21 (1). p. 8-9. ill. (NAL Call No.: 100 IL64).

1488

Seed coat damage in deep-bed drying of soybeans (Storage moisture content).

Ting, K.C. White, G.M.; Ross, I.J.; Loewer, O.J. St. Joseph, Mich., The Society. Transactions of the ASAE - American Society of Agricultural Engineers. Sept/Oct 1980. v. 23 (5). p. 1293-1296. 1300. ill. 9 ref. (NAL Call No.: 290.9 AM32T).

1489

Soybean handbook (Includes culture, pests and diseases, processing, cost and return planning).

Manhattan, Kan., The Service. C.Kansas State University. Cooperative Extension Service. May 1978. May 1978. (449). 24 p. ill. (NAL Call No.: 275.29 K13EX).

1490

Soybean physiology, agronomy, and utilization.

Norman, A. Geoffrey. New York Academic Press 1978. Abstract: Soybean uses, agricultural and industrial, depend on the high protein content (40%) and high oil content (20%) in the bean. As a cash crop, soybeans provide a significant part of farm income in the eight states of the Mississippi River valley. Developments have resulted from research on the physiology, genetics and related characteristics of the plant, and on agronomic aspects of its management and incorporation into farm systems. New varieties have been produced; pest and disease control measures are effective. The high probability of increased crop planting will depend on environmental factors, growth and development of the plant and the requirements of management and use. The environmental aspects of growth and development, assimilation factors, agronomic characteristics, breeding, management, production, processing, and utilization are discussed. 249 p. : ill. Includes bibliographies and index. (NAL Call No.:

(PROTECTION OF PLANT PRODUCTS - GENERAL AND MISC.)

SB205.S7S62 F&N B-2227).

1491

Soybean seed treatment (to control Diaporthe infection) and storage study--1978.

Sullivan, G.A. n.p., The Association. News letter. Association of Official Seed Analysts. May 1979. v. 53 (2). p. 40-41. ill. (NAL Call No.: 61.9 AS7N).

PROTECTION OF PLANT PRODUCTS - INSECTS

1492

Damage of soybean (seeds) by *Lasioderma serricorne* (Fabricius).

Bhattacharya, A.K. Vyas, H.J. Hapur, Foodgrain Technologists Research Association of India. Bulletin of grain technology. Aug 1977. v. 15 (2). p. 151-152. ill. 7 ref. (NAL Call No.: TS2120.B8).

1493

Effects of weed density and defoliated or undefoliated soybeans (*Glycine max*) on velvetleaf (*Abutilon theophrasti*) development (Role of insects in weed and crop competition, Iowa).

Higgins, R.A. Staniforth, D.W.; Pedigo, L.P. Champaign, Ill. : Weed Science Society of America. Weed science. July 1984. v. 32 (4). p. 511-519. ill. Includes 27 references. (NAL Call No.: 79.8 W41).

1494

Evaluation of the nutritional quality of foods with the red flour beetle (*Tribolium castaneum*). II. Evaluation of corn, wheat and processed soybean: corn preparation.

Medrano, J.F. Bressani, R. Los Altos, Calif., Geron-X. Nutrition reports international. July 1979. v. 20 (1). p. 11-24. ill. 19 ref. (NAL Call No.: RC620.A1N8).

1495

Stored soybeans and stink bug (*Acrosternum hilare*) damage.

Miner, F.D. AR-AR. Dumas, B. Fayetteville, Ark., The Station. Arkansas farm research - Arkansas Agricultural Experiment Station. July/Aug 1980. v. 29 (4). p. 14. (NAL Call No.: 100 AR42F).

WEEDS

1496

Absorption, translocation, and activity of fluazifop-butyl as influenced by plant growth stage and environment (*Agropyron repens*, tolerant soybean, herbicide).
Kells, J.J. Meggitt, W.F.; Penner, D. Champaign : Weed Science Society of America. Weed science. Mar 1984. v. 32 (2). p. 143-149. ill. Includes references. (NAL Call No.: 79.8 W41).

1497

Abutilon theophrasti: wild host for three fungal parasites of soybean (*Phomopsis sojae* (*Diaporthe phaseolorum sojae*), *Colletotrichum dematium truncata*, and *Colletotrichum gloeosporioides* (*Glomerella cingulata*, Champaign County, Illinois).
Hepperly, P.R. Kirkpatrick, B.L.; Sinclair, J.B. St. Paul, Minn., American Phytopathological Society. Phytopathology. Apr 1980. v. 70 (4). p. 307-310. ill. 15 ref. (NAL Call No.: 464.8 P56).

1498

Acifluorfen metabolism in soybean: diphenylether bond cleavage and the formation of homogluthathione cysteine, and glucose conjugates (Herbicide).
Frear, D.S.PCBPB. Swanson, H.R.; Mansager, E.R. New York : Academic Press. Pesticide biochemistry and physiology. Dec 1983. v. 20 (3). p. 299-310. ill. Includes references. (NAL Call No.: SB951.P49).

1499

The allelopathic effect of yellow nutsedge (*Cyperus esculentus*) on corn (*Zea mays*) and soybeans (*Glycine max*) (United States).
Drost, D.C. Doll, J.D. Champaign, Ill., Weed Science Society of America. Weed science. Mar 1980. v. 28 (2). p. 229-233. ill. 23 ref. (NAL Call No.: 79.8 W41).

1500

Allelopathic effects of annual weed residues on growth and nutrient uptake of corn and soybeans (Inhibition).
Bhowmik, P.C. Doll, J.D. Madison, Wis. : American Society of Agronomy. Agronomy journal. May/June 1984. v. 76 (3). p. 383-388. Includes references. (NAL Call No.: 4 AM34P).

1501

Allelopathic mechanisms of velvetleaf (*Abutilon theophrasti* Medic., Malvaceae) on soybean (Weed, plant production interference).
Colton, G.E. Einhellig, F.A. Columbus, Ohio, Botanical Society of America. American journal of botany. Nov/Dec 1980. v. 67 (10). p. 1407-1413. 37 ref. (NAL Call No.: 450 AM36).

1502

The allelopathic potential of pigeon peas in Puerto Rico (*Cajanus cajan*, weed suppression, phytotoxicity to soybeans, self inhibition).
Hepperly, P.R. JAUPA. Diaz, M. Rio Piedras : University of Puerto Rico, Agricultural Experiment Station. The Journal of agriculture of the University of Puerto Rico. Oct 1983. v. 67 (4). p. 453-463. ill. Includes references. (NAL Call No.: 8 P832J).

1503

Analysis of weed control components for full-season, conventional-tillage soybeans in Delaware.
Regehr, D.L. Beltsville, Md., The Society. Proceedings - annual meeting of the Northeastern Weed Science Society. 1982. v. 36. p. 45-49. Includes 6 ref. (NAL Call No.: 79.9 N814).

1504

Annual grass control in soybeans with DOWCO 453 ME herbicide (Haloxifop-methyl).
Handly, J.V. DOEAA. Hammond, L.E. Midland : Agricultural Products Dept., Dow Chemical Co. Down to earth. Oct 1983. v. 39 (2). p. 10-14. ill. Includes references. (NAL Call No.: 381 D75).

1506

Annual progress report - 1980 / Iowa State University.
Document available from: Iowa State University, Publications Distribution, Printing & Publications Bldg., Ames, Iowa 50011 1981. This publication is a progress report in the following areas: soil moisture, corn and soybean herbicides, delayed planting of soybeans, plant populations for sunflowers, rock phosphate and superphosphate comparison, rates of N and P fertilizers, brown stem rot, tillage observations, seedbed preparations for corn and soybean, and crop variety research. 25 p. : ill. (NAL Call No.: Document available from source.) (NAL Call No.: ORC 80-29).

1505

Annual progress report - 1980 / Iowa State University.

Document available from: Iowa State University, Publications Distribution, Printing & Publications Bldg., Ames, Iowa 50011 1980. This publication is a progress report and should not be considered conclusive. The topics covered are soil moisture report, K fertilization for corn and soybeans, sunflower populations, conservation tillage, crop disease trap plots, corn herbicides, spring wheat variety demonstration, musk thistle control, grain sorghum trial, and small grain selection. 17 p. : ill. (NAL Call No.: Document available from source.). (NAL Call No.: ORC 80-10).

1507

Annual progress report - 1980 : Northern Research Center, Clarion- Webster Research Center / Iowa State University of Science and Technology.

1981. This publication contains researched information on planting dates verses plant population, breeding, cold tolerance and Zn, S, K fertilization for corn. Soybean information on brown stem rot and bacterial tan spot is provided. Additional topics include herbicide evaluation, small grain tests, and vegetable garden demonstrations. Document available from: Iowa State Univ., Publications Distribution, Printing & Publications Bldg., Ames, Iowa 50011. 24 p. : ill. (NAL Call No.: Not available at NAL.). (NAL Call No.: ORC 80-14,22).

1508

Antogonism with glyphosate and residual herbicide combinations (Used for control of perennial weeds and vegetation minimum-till cropping systems, maize, soybeans).

Selleck, G.W. Baird, D.D. Champaign, Ill., Weed Science Society of America. Weed science. Mar 1981. v. 29 (2). p. 185-190. 7 ref. (NAL Call No.: 79.8 W41).

1509

Application of herbicides in small grain stubble (with the boom mounted on a combine and incorporation with a rolling cultivator for weed control in soybeans).

Barker, G.L. TAAEA. Buehring, N.W.; Whisler, F.D.; Colwick, R.F. St. Joseph : The Society. Transactions of the ASAE - American Society of Agricultural Engineers. Sept/Oct 1982. v. 25 (5). p. 1232-1236. ill. 11 ref. (NAL Call No.: 290.9 AM32T).

1510

Applicators tested for soybean herbicide control.

Lang, R. NE. Furrer, J.D. Lincoln, The Station. Farm, ranch and home quarterly. Nebraska. Agricultural Experiment Station. Winter 1980. v. 26 (4). p. 12-13. ill. (NAL Call No.: 100 N27N).

1511

Balloonvine (*Cardiospermum halicacabum* L.)--A noxious weed (in soybeans).

Hurst, S.J. AMS. (s.l.), The Association. The News letter of the Association of Official Seed Analysts. Sept 1980. v. 54 (3). p. 69-71. ill. 9 ref. (NAL Call No.: 61.9 AS7N).

1512

Barnyardgrass control in soybeans following rice (*Echinochloa crus-galli*, *Oryza sativa*, *Glycine max*, weed control, Mississippi).

Kurtz, M.E. RRMSD. Street, J.E. Mississippi State : The Station. Research report - Mississippi Agricultural and Forestry Experiment Station. May 1983. v. 8 (6). 4 p. Includes references. (NAL Call No.: S79.E37).

1513

Benazolin and admixtures for common cocklebur (*Xanthium pensylvanicum*) and prickly sida (*Sida spinosa*) control in soybeans (*Glycine max*) (Weeds).

Walker, R.H. Jolley, E.R.; McGuire, J.A.; Murray, D.S. Champaign, Ill., Weed Science Society of America. Weed science. Jan 1982. v. 30 (1). p. 50-53. Includes 16 ref. (NAL Call No.: 79.8 W41).

1514

Bifenox alone and with selected herbicides applied incorporated versus preemergence for soybean weed control.

Parochetti, J.V. Harris, T.C. Beltsville, Md. Proceedings of the ... annual meeting Northeastern Weed Science Society. 1979. v. 33. p. 11-16. ill. 4 ref. (NAL Call No.: 79.9 N814).

1515

Biological properties of amino acid conjugates of (the herbicide) 2,4,5-trichlorophenoxyacetic acid (Effect on soybean root tissue, oat coleoptiles).

Davidonis, G.H. Arjmand, M. Washington, D.C., American Chemical Society. Journal of agricultural and food chemistry. July 1979. v. 36 (1). p. 1086-1088. ill. 8 ref. (NAL Call No.: 381 J8223).

(WEEDS)

1516

Black nightshade (*Solanum nigrum* L.) (Poisonous to livestock, weed of soybeans, chemical control).

Fawatt, R.S. Jennings, V.M. Champaign, Ill. Weeds today. Spring 1979. v. 10 (2). p. 21. ill. (NAL Call No.: SB610.W4).

1517

Blazer, Basagran (herbicide) evaluated as overtop sprays in soybeans.

Rogers, R.L. Crawford, S.H.; Retzinger, E.J. Baton Rouge, The Station. Louisiana agriculture - Louisiana Agricultural Experiment Station. Spring 1981. v. 24 (3). p. 20-21. ill. (NAL Call No.: 100 L939).

1518

Blazer herbicide expands postemergence weed control for soybeans.

Hobart, D. Champaign : Weeds Today, Inc. Weeds today. Late Spring 1982. v. 13 (2). p. 19. (NAL Call No.: SB610.W4).

1519

Buthidazole phytotoxicity (to cucumber and soybeans) as affected by placement and water.

Weber, J.B. Lowder, S.W.; Swain, L.R.; Peter, C.J. Auburn, Ala., The Society. Proceedings - Southern Weed Science Society. 1980. 1980. (33d). p. 276-279. ill. 3 ref. (NAL Call No.: 79.9 S08).

1520

Bye bye broadleaf blues (Chemical control of weeds in soybeans).

Parker, R. Champaign, Ill. Weeds today. Spring 1979. v. 10 (2). p. 16-17. ill. (NAL Call No.: SB610.W4).

1521

Chemical control of cocklebur and morningglory in soybeans (Seeds, Arkansas).

Baldwin, F.L. Nester, R.P. Little Rock, Ark., The Service. Leaflet EL - Arkansas University, Cooperative Extension Service. May 1982. May 1982. (446). 8 p. ill. (NAL Call No.: 275.29 AR4LE).

1522

Chemical weed control for doublecrop soybeans (following harvest of winter wheat).

Triplett, G.B. Jr. Wooster, Ohio Agricultural Research and Development Center. Ohio report on research and development in agriculture, home economics, and natural resources. July/Aug 1979. v. 64 (4). p. 56-59. ill. (NAL Call No.: 100 OH35 (3)).

1523

Chemical weed control in soybeans.

Miller, J.F. Athens : The Service. Bulletin - Cooperative Extension Service, University of Georgia, College of Agriculture. Jan 1983. Jan 1983. (832). 12 p. (NAL Call No.: 275.29 G29B).

1524

Chemical weed control in soybeans.

French, C.M. Athens : The Service. Bulletin - Cooperative Extension Service, University of Georgia, College of Agriculture. Jan 1984. Jan 1984. (832, rev.). 11 p. (NAL Call No.: 275.29 G29B).

1525

Chemical weed control in soybeans.

Lunsford, J.N. GA. Athens, Ga., The Service. Bulletin - Cooperative Extension Service, University of Georgia College of Agriculture, Athens, Georgia. University. Cooperative Extension Service. Apr 1980. Apr 1980. (832). 17 p. (NAL Call No.: 275.29 G29B).

1526

Combinations of flowable lignin and metribuzin for weed control in soybeans.

Baumley, J.J. Vitolo, D.; Ilnicki, R.D. Beltsville, Md., The Society. Proceedings - annual meeting of the Northeastern Weed Science Society. Northeastern Weed Science Society. p. 52-55. 1 ref. (NAL Call No.: 79.9 N814).

1527

Common cocklebur (*Xanthium pensylvanicum*) control in soybeans with Basagran, Blazer, and Dyanap.

Hayes, R.M. Overton, J.R. Knoxville, Agricultural Experiment Station, University of Tennessee. Tennessee farm and home science. Progress report. Jan/Mar 1979. Jan/Mar 1979. (109). p. 2-6. ill. 5 ref. (NAL Call No.: 100 T25F).

1528

Common ragweed (*Ambrosia artemisiifolia*) interference in soybeans (*Glycine max*).
Coble, H.D. Williams, F.M.; Ritter, R.L. Champaign, Ill., Weed Science Society of America. Weed science. May 1981. v. 29 (3). p. 339-342. 16 ref. (NAL Call No.: 79.8 W41).

1529

A comparative study of pendimethalin and trifluralin on soybean and cotton root systems.
Pavlista, A.D. Auburn, Ala., The Society. Proceedings - Southern Weed Science Society. 1980. 1980. (33d). p. 257-267. ill. 8 ref. (NAL Call No.: 79.9 S08).

1530

Comparative water relations, photosynthesis, and growth of soybean (*Glycine max*) and seven associated weeds (Stomatal resistance).
Patterson, D.T. WEESA. Flint, E.P. Champaign : Weed Science Society of America. Weed science. May 1983. v. 31 (3). p. 318-323. Includes references. (NAL Call No.: 79.8 W41).

1531

Comparison of postemergence overtop and directed herbicides for broad spectrum weed control in soybeans.
Griffin, J.L. Habetz, R.J.; Taylor, R.W. Crowley, La., The Station. Annual progress report - Louisiana, Rice Experiment Station. 1981. 1981. (73rd). p. 327-329. Includes 2 ref. (NAL Call No.: 100 L93 (3)).

1532

Comparison of various preemergence herbicides for weed control in soybeans.
Griffin, J.L. Harger, T.R.; Habetz, R.J. Crowley, La., The Station. Annual progress report - Louisiana, Rice Experiment Station. 1981. 1981. (73rd). p. 322-323. (NAL Call No.: 100 L93 (3)).

1533

Compatibility of BAS 9052 OH with acifluorfen and bentazon (*Digitaria sanguinalis*, *Panicum dichotomiflorum*, *Glycine max*, antagonism, herbicide interactions).
Hartzler, R.G. WEESA. Foy, C.L. Champaign : Weed Science Society of America. Weed science. Sept 1983. v. 31 (5). p. 597-599. Includes references. (NAL Call No.: 79.8 W41).

1534

Compatibility of diclofop and BAS 9052 (2-(1-(ethoxyimino)-butyl)-5-2(2-(ethylthio)propyl)-3-hydroxy-2-cyclohexen-1-one) with Bentazon (Herbicides, soybeans, injury, antagonism).
Campbell, J.R. Penner, D. Champaign, Ill., Weed Science Society of America. Weed science. Sept 1982. v. 30 (5). p. 458-462. 12 ref. (NAL Call No.: 79.8 W41).

1535

Competition and alleloathy between soybeans and weeds (*Abutilon theophrasti*, *Setaria italica*, phytotoxins, comparisons of soybean cultivars).
Rose, S.J. Burnside, O.C.; Specht, J.E.; Swisher, B.A. Madison, Wis. : American Society of Agronomy. Agronomy journal. July/Aug 1984. v. 76 (4). p. 523-528. ill. Includes references. (NAL Call No.: 4 AM34P).

1536

Competition of common cocklebur (*Xanthium pensylvanicum*) with soybean (*Glycine max*) (Yield reduction, weeds, in Illinois).
Bloomberg, J.R. Kirkpatrick, B.L.; Wax, L.M. Champaign, Ill., Weed Science Society of America. Weed science. Sept 1982. v. 30 (5). p. 507-513. ill. 14 ref. (NAL Call No.: 79.8 W41).

1537

Competition of jimsonweed with soybean (*Datura stramonium*, *Glycine max*, weeds, control, herbicide).
Kirkpatrick, B.L. AGJDA. Wax, L.M.; Stoller, E.W. Madison : American Society of Agronomy. Agronomy journal. Sept/Oct 1983. v. 75 (5). p. 833-836. ill. Includes references. (NAL Call No.: 4 AM34P).

1538

Competition of three malvaceous weed species in soybeans, (*Glycine max* (L.) Merr.) / by Benny Joe Eaton.
Eaton, Benny Joe, 1943. 1971. Thesis (Ph.D.)--Kansas State University, 1971. Photocopy. Ann Arbor, Mich. : University Microfilms, 1971. v. 68 leaves ; 21 cm. Bibliography: leaves 54-56. (NAL Call No.: DISS 71-26,607).

1539

Competitive and allelopathic effects of sunflower (*Helianthus annuus*) (*Sorghum*, soybean, growth inhibition, growth reduction, interference, root exudates, controlled with herbicides).
Irons, S.M. Burnside, O.C. Champaign, Ill.,

(WEEDS)

Weed Science Society of America. Weed science. July 1982. v. 30 (4). p. 372-377. ill. 26 ref. (NAL Call No.: 79.8 W41).

1540

Competitive control of common lambsquarters (*Chenopodium album*) in a corn-soybean intercrop.

Moss, P.A. Hartwig, N.L. Beltsville, Md., The Society. Proceedings - annual meeting of the Northeastern Weed Science Society. Northeastern Weed Science Society. 1980. v. 34. p. 21-28. ill. 12 ref. (NAL Call No.: 79.9 N814).

1541

Competitive effects of fall panicum on soybeans (Herbicide, alachlor, abstract only).

Sollazzo, P.J. Ilnicki, R.D. Beltsville, Md., The Society. Proceedings - annual meeting of the Northeastern Weed Science Society. Northeastern Weed Science Society. 1980. v. 34. p. 59. (NAL Call No.: 79.9 N814).

1542

Control and management of itchgrass (*Rottboellia exaltata*, weeds, herbicides effective in soybean fields).

Harger, T.R. Vidrine, P.R.; Nester, P.R. Baton Rouge, La., The Station. Louisiana agriculture - Louisiana Agricultural Experiment Station. Summer 1982. v. 25 (4). p. 20-21, 24. ill. (NAL Call No.: 100 L939).

1543

Control of annual grasses in soybeans and cotton with DOWCO 453 ME herbicide (Haloxypol-methyl).

Hunter, J.H. DOEAA. Barton, M.J. Midland : Agricultural Products Dept., Dow Chemical Co. Down to earth. Oct 1983. v. 39 (2). p. 15-21. ill. (NAL Call No.: 381 D75).

1544

Control of burcucumber in corn and soybeans (*Sicyos angulatus*, weed, abstract only).

Webb, F. Johnston, G. Beltsville, Md., The Society. Proceedings - annual meeting of the Northeastern Weed Science Society. Northeastern Weed Science Society. p. 34. (NAL Call No.: 79.9 N814).

1545

Control of cowpea (*Vigna unguiculata*) in soybean (*Glycine max*) with acifluorfen (Herbicides evaluation, phytotoxicity, South Carolina).

Murphy, T.R. Gossett, B.J. Champaign, Ill. : Weed Science Society of America. Weed science. July 1984. v. 32 (4). p. 427-431. Includes 19 references. (NAL Call No.: 79.8 W41).

1546

Control of ivyleaf morningglory (*Ipomoea hederacea*) in soybeans with acifluorfen.

Parochetti, J.V. EX. Harris, T.C. Beltsville, Md., The Society. Proceedings - annual meeting of the Northeastern Weed Science Society. Northeastern Weed Science Society. 1980. Abstract only. v. 34. p. 3. (NAL Call No.: 79.9 N814).

1547

Control of johnsongrass (*Sorghum halepense*) and volunteer corn (*Zea mays*) in soybeans (*Glycine max*).

Dale, J.E. Champaign, Ill., Weed Science Society of America. Weed science. Nov 1981. v. 29 (6). p. 708-711. ill. 15 ref. (NAL Call No.: 79.8 W41).

1548

Control of johnsongrass (*Sorghum halepense*) in soybeans (*Glycine max*) with foliar applied herbicides.

Banks, P.A. WEESA. Tripp, T.N. Champaign : Weed Science Society of America. Weed science. Sept 1983. v. 31 (5). p. 628-633. Includes references. (NAL Call No.: 79.8 W41).

1549

Control of quackgrass (*Agropyron repens*) in soybeans (*Glycine max*) with HOE 29152 (2-(4-(trifluoromethyl phenoxy)phenoxy)propanoate).

Young, F.L. Wyse, D.L. Champaign, Ill., Weed Science Society of America. Weed science. Sept 1980. v. 28 (5). p. 493-498. 13 ref. (NAL Call No.: 79.8 W41).

1550

Control of sicklepod (*Cassia obtusifolia* L.) in soybeans.

Hovermale, C.H. Hurst, H.R. Mississippi State, The Station. Bulletin - Mississippi Agricultural & Forestry Experiment Station. Nov 1981. Nov 1981. (898). 5 p. Includes 1 ref. (NAL Call No.: S79.E3).

1551

Control of sicklepod (*Cassia obtusifolia* L.) in soybeans (Weed).
Hovermale, C.H. Hurst, H.R. Mississippi State, The Station. MAFES research highlights - Mississippi Agricultural & Forestry Experiment Station. May 1982. v. 45 (5). p. 4-6. ill. (NAL Call No.: 100 M69MI).

1552

Control of six morningglory (*Ipomoea*) species in soybeans (*Glycine max*).
Mathis, W.D. Oliver, L.R. Champaign, Ill., Weed Science Society of America. Weed science. July 1980. v. 28 (4). p. 409-415. 15 ref. (NAL Call No.: 79.8 W41).

1553

Control of volunteer corn in soybeans, 1979 (Illinois).
McKibben, G.E. Urbana-Champaign, Ill., Illinois Agricultural Experiment Station. DSAC - Dixon Springs Agricultural Center. Jan 1980. Jan 1980. (8). p. 61-62. (NAL Call No.: S1.D5).

1554

Control of weeds in an oat (*Avena sativa*)-soybean (*Glycine max*) ecofarming rotation (Herbicides and reduced tillage).
Burnside, D.C. Wicks, G.A.; Carlson, D.R. Champaign, Ill., Weed Science Society of America. Weed science. Jan 1980. v. 28 (1). p. 46-50. ill. 15 ref. (NAL Call No.: 79.8 W41).

1555

Controlling volunteer corn (*Zea mays*) in soybeans (*Glycine max*) with diclofop and glyphosate.
Andersen, R.N. Ford, J.H.; Lueschen, W.E. Champaign, Ill., Weed Science Society of America. Weed science. Mar 1982. v. 30 (2). p. 132-136. Includes 5 ref. (NAL Call No.: 79.8 W41).

1556

Controlling weeds in soybeans with postemergence herbicides (Texas).
Wiese, A.F. TAEMA. Lavake, D.E.; Chenault, E.W. College Station: The Station. Miscellaneous publication MP - Texas Agricultural Experiment Station. Apr 1983. Apr 1983. (1532). 12 p. ill. (NAL Call No.: 100 T31M).

1557

Corn and soybean response to allelopathic effects of weed and crop residues.
Bhowmik, P.C. Doll, J.D. Madison, Wis.; American Society of Agronomy. Agronomy journal. July/Aug 1982. v. 74 (4). p. 601-606. 17 ref. (NAL Call No.: 4 AM34P).

1558

Corn residue management and weed control in close-drilled soybeans (Herbicide adsorption).
Moomaw, R.S. Burnside, D.C. Madison. Agronomy journal American Society of Agronomy. Jan/Feb 1979. v. 71 (1). p. 78-80. ill. 6 ref. (NAL Call No.: 4 AM34P).

1559

Cost effectiveness of postemergence glyphosate and sethoxydim to johnsongrass in soybeans and cotton (*Sorghum halepense*, herbicides).
Derting, C.W. SWSPB. Sandberg, C.L.; Whatley, T.L.; Wu, C.H. Champaign: The Society. Proceedings - Southern Weed Science Society. 1983. 1983. (36th). p. 21-25. Includes references. (NAL Call No.: 79.9 S08).

1560

Cultural and chemical weed control in soybeans.
Majek, B.A. St. Paul, Minn., The Service. Extension folder - Minnesota University, Agricultural Extension Service. 1981. 1981. (580). 4 p. (NAL Call No.: 275.29 M66EX).

1561

Cultural and chemical weed control systems in soybeans (*Glycine max*).
Gebhardt, M.R. Champaign, Ill., Weed Science Society of America. Weed science. Jan 1981. v. 29 (1). p. 133-138. ill. 13 ref. (NAL Call No.: 79.8 W41).

1562

Dicamba volatility (Herbicide drift injury to soybeans, maize and *Abutilon theophrasti*).
Behrens, R. Lueschen, W.E. Champaign, Ill., Weed Science Society of America. Weed science. Sept 1979. v. 27 (5). p. 486-493. ill. 12 ref. (NAL Call No.: 79.8 W41).

(WEEDS)

1563

Diclofop modification of soybean/annual grass competition (Abstract only).
Albaugh, G.P. Regehr, D.L. Beltsville, Md., The Society. Proceedings - annual meeting of the Northeastern Weed Science Society. Northeastern Weed Science Society. p. 97. p. 97. (NAL Call No.: 79.9 N814).

1564

Dictyledonous weeds as a source of Fusarium oxysporum pathogenic on soybean (Symptomless hosts, pathogenicity study of 21 weed species, Delaware).
Helbig, J.B. Carroll, R.B. St. Paul, Minn. : American Phytopathological Society. Plant disease. Aug 1984. v. 68 (8). p. 694-696. Includes 16 references. (NAL Call No.: 1.9 P69P).

1565

Differential response of soybean varieties to metribuzin (Herbicide tolerance).
Bhowmik, F.C. PNWSB. Beltsville : The Society. Proceedings - annual meeting of the Northeastern Weed Science Society. 1983. 1983. (37th). p. 27-32. Includes references. (NAL Call No.: 79.9 N814).

1566

Differentiation of soybean cultivars by metribuzin sensitivity.
Payne, R.C. Koszykowski, T.J. East Lansing, Association of Official Seed Analysts. Journal of seed technology. 1977. v. 2 (1). p. 1-10. 111. 18 ref. (NAL Call No.: SB113.2.J6).

1567

Distribution, competition, and phenology of hemp dogbane (Apocynum cannabinum) in Nebraska (Weed pest of oats, soybeans, alfalfa, wheat, maize and sorghum).
Schultz, M.E. Burnside, D.C. Champaign, Ill., Weed Science Society of America. Weed science. Sept 1979. v. 27 (5). p. 565-570. 111. 17 ref. (NAL Call No.: 79.8 W41).

1568

DOWCO 453 ME, a new post selective herbicide for annual and perennial grass control in cotton and soybeans.
Robertson, A.S. Memphis : National Cotton Council of America. Proceedings of the ... Beltwide Cotton Production-Mechanization Conference. 1983. 1983. p. 78-79. (NAL Call No.: 72.9 C8292).

1569

Dowco 453 ME, a new postemergence herbicide for annual and perennial grass control in cotton and soybeans.
Ryder, J. Champaign : Weeds Today, Inc. Weeds today. Late Spring 1982. v. 13 (2). p. 21-22. (NAL Call No.: SB610.W4).

1570

Duration of red rice control with selected soybean herbicides (Oryza rufipogon).
Barrentine, W.L. Street, J.E.; Richard, E.P. Jr. Mississippi State, Miss. : The Station. Research report - Mississippi Agricultural and Forestry Experiment Station. Apr 1984. v. 9 (3). 4 p. Includes references. (NAL Call No.: S79.E37).

1571

Early preplant herbicide applications for no-till soybean (Glycine max) weed control.
Stougaard, R.N. Kapusta, G.; Roskamp, G. Champaign, Ill. : Weed Science Society of America. Weed science. May 1984. v. 32 (3). p. 293-298. Includes references. (NAL Call No.: 79.8 W41).

1572

Economic consequences of bans on corn (Zea mays) and soybean (Glycine max) herbicides commonly used on Indiana farms.
Cashman, C.M. Martin, M.A.; McCarl, B.A. Champaign, Ill., Weed Science Society of America. Weed science. May 1981. v. 29 (3). p. 323-328. 4 ref. (NAL Call No.: 79.8 W41).

1573

Economic losses due to weeds in soybeans in the Northeastern United States in 1977.
Parochetti, J.V. Beltsville, Md. Proceedings of the ... annual meeting Northeastern Weed Science Society. 1979. v. 33. p. 44-47. 111. (NAL Call No.: 79.9 N814).

1574

An economic threshold model for weeds in soybeans (Glycine max) (Herbicide application).
Marra, M.C. WEESA. Carlson, G.A. Champaign : Weed Science Society of America. Weed science. Sept 1983. v. 31 (5). p. 604-609. 111. Includes references. (NAL Call No.: 79.8 W41).

1575

Effect of alachlor on PEG6000 (polyethylene glycol) uptake, root osmotic potential, and root leakage (Herbicides, sweet corn, soybeans).
 Vavrina, C.S.WEESA. Ashley, R.A. Champaign : Weed Science Society of America. Weed science. Sept 1983. v. 31 (5). p. 600-603. Includes references. (NAL Call No.: 79.8 W41).

1576

Effect of feeding by Lema trivittata (Coleoptera: Chrysomelidae) on the growth, reproduction and competitive ability of jimsonweed (Datura stramonium) in soybeans (Abstract only).
 Peterson, B.L. Dively, G.P. Beltsville, Md., The Society. Proceedings - annual meeting of the Northeastern Weed Science Society. p. 78.p. 78. (NAL Call No.: 79.9 N814).

1577

Effect of incorporation methods and time of application on the performance of trifluralin plus metribuzin (Disk harrowing, spring tooth harrowing, and bed conditioning, in soybeans).
 Barrentine, W.L. Wooten, O.B. Champaign, Ill., Weed Science Society of America. Weed science. Jan 1979. v. 27 (1). p. 64-68. ill. 13 ref. (NAL Call No.: 79.8 W41).

1578

Effect of irrigation on quackgrass (Agropyron repens) interference in soybeans (Glycine max) (Leaf water potential, soil moisture, weed control, Minnesota).
 Young, F.L.WEESA. Wyse, D.L.; Jones, R.J. Champaign : Weed Science Society of America. Weed science. Sept 1983. v. 31 (5). p. 720-727. ill. Includes references. (NAL Call No.: 79.8 W41).

1579

The effect of parentage on the control of volunteer corn (Zea mays) in soybeans (Glycine max) (Weeds, herbicides, diclofop, glyphosate).
 Andersen, R.N. Geadelmann, J.L. Champaign, Ill., Weed Science Society of America. Weed science. Mar 1982. v. 30 (2). p. 127-131. ill. Includes 5 ref. (NAL Call No.: 79.8 W41).

1580

Effect of plant protectant additives used with metribuzin on soybean production and weed control.
 Griffin, J.L. Harger, T.R.; Habetz, R.J. Crowley. Annual progress report Louisiana. Rice Experiment Station. 1980. 1980. (72nd). p. 363-364. (NAL Call No.: 100 L93 (3)).

1581

The effect of sprinkler irrigation on herbicide efficacy, distribution, and penetration in some Coastal Plain soils (Applied on corn, peanuts and soybeans, weed control, southwest Georgia).
 Dowler, C.C.GARRA. Rohde, W.A.; Fetzer, L.E.; Scott, D.E. Sr.; Sklany, T.E. Athens : The Stations. Research report - University of Georgia, College of Agriculture, Experiment Stations. Aug 1982. Aug 1982. (281). 27 p. ill. Includes references. (NAL Call No.: S51.E22).

1582

The effect of surfactant and environment on the toxicity of metriflufen to soybeans (Glycine max) and johnsongrass (Sorghum halepense).
 McWhorter, C.G. Champaign, Ill., Weed Science Society of America. Weed science. Nov 1979. v. 27 (6). p. 675-679. ill. 11 ref. (NAL Call No.: 79.8 W41).

1583

Effect of three desiccant herbicides on soybean (Glycine max) seed quality (Seedborne fungi, in Illinois and Brazil).
 Cerkauskas, R.F. Dhingra, D.D.; Sinclair, J.B.; Foor, S.R. Champaign, Ill., Weed Science Society of America. Weed science. Sept 1982. v. 30 (5). p. 484-490. 21 ref. (NAL Call No.: 79.8 W41).

1584

Effect of three weed control regimes on no-till and tilled soybeans (Glycine max) (Conservation tillage, compacted soil).
 Robinson, E.L.WEESA6. Langdale, G.W.; Stuedmann, J.A. Champaign : Weed Science Society of America. Weed science. Jan 1984. v. 32 (1). p. 17-19. Includes references. (NAL Call No.: 79.8 W41).

1585

Effects of CO2 (carbon dioxide) enrichment on competition between a C3 crop (Johnsongrass (Sorghum halepense), soybean (Glycine max), southern United States).
 Patterson, D.T.WEESA6. Flint, E.P.; Beyers, J.L. Champaign : Weed Science Society of America. Weed science. Jan 1984. v. 32 (1). p.

(WEEDS)

101-105. Includes references. (NAL Call No.: 79.8 W41).

1586

Effects of environment on the toxicity of glyphosate to johnsongrass (*Sorghum halepense*) and soybeans (*Glycine max*).

McWhorter, C.G. Azlin, W.R. Champaign, Ill., Weed Science Society of America. Weed science. Nov 1978. v. 26 (6). p. 605-608. ill. 26 ref. (NAL Call No.: 79.8 W41).

1587

The effects of Fall application of glyphosate on corn (*Zea mays*), soybeans (*Glycine max*), and johnsongrass (*Sorghum halepense*) (Phytotoxicity).

Jeffery, L.S. English, J.R.; Connell, J. Champaign, Ill., Weed Science Society of America. Weed science. Mar 1981. v. 29 (2). p. 190-195. ill. 9 ref. (NAL Call No.: 79.8 W41).

1588

Effects of flooding on dinitroaniline persistence in soybean (*Glycine max*)--rice (*Oryza sativa*) rotations (Herbicides in soil).

Brewer, F. Lavy, T.L.; Talbert, R.E. Champaign, Ill., Weed Science Society of America. Weed science. Sept 1982. v. 30 (5). p. 531-539. 25 ref. (NAL Call No.: 79.8 W41).

1589

Effects of glyphosate on metabolism of phenolic compounds. VI. Effects of glyphosate and glyphosate metabolites on phenylalanine ammonia-lyase activity, growth, and protein, chlorophyll, and anthocyanin levels in soybean (*Glycine max*) seedlings (Phytotoxicity).

Hoagland, R.E. AR-SO. Champaign, Ill., Weed Science Society of America. Weed science. July 1980. Literature review. v. 28 (4). p. 393-400. ill. 49 ref. (NAL Call No.: 79.8 W41).

1590

Effects of row-spacing, weed control treatment and cultivar on the competitive ability of soybeans.

Bundick, E.L. Regehr, D.L. Beltsville, Md., The Society. Proceedings - annual meeting of the Northeastern Weed Science Society. Northeastern Weed Science Society. p. 95. p. 95. (NAL Call No.: 79.9 N814).

1591

Effects of simulated field temperatures and chilling on itchgrass (*Rottboellia exaltata*), corn (*Zea mays*), and soybean (*Glycine max*). Patterson, D.T. Flint, E.P. Champaign, Ill., Weed Science Society of America. Weed science. Nov 1979. v. 27 (6). p. 645-650. ill. 17 ref. (NAL Call No.: 79.8 W41).

1592

Effects of soil water content on pendimethalin dissipation (*Oryza sativa*, *Glycine max*, herbicide).

Barrett, M.R. JEVQA. Lavy, T.L. Madison : American Society of Agronomy. Journal of environmental quality. Oct/Dec 1983. v. 12 (4). p. 504-508. Includes references. (NAL Call No.: QH540.J6).

1593

Effects of weed density and defoliated or undefoliated soybeans (*Glycine max*) on velvetleaf (*Abutilon theophrasti*) development (Role of insects in weed and crop competition, Iowa).

Higgins, R.A. Staniforth, D.W.; Pedigo, L.P. Champaign, Ill. : Weed Science Society of America. Weed science. July 1984. v. 32 (4). p. 511-519. ill. Includes 27 references. (NAL Call No.: 79.8 W41).

1594

Effects of weeds on the diversity and abundance of insects in soybeans.

Shelton, M.D. EVETB. Edwards, C.R. College Park : Entomological Society of America. Environmental entomology. Apr 1983. v. 12 (2). p. 296-298. Includes references. (NAL Call No.: QL461.E532).

1595

Effects of wetting agent, stage of growth, and species on the selectivity of diclofop (wheat, soybeans, cucumber, sorghum).

Schreiber, M.M. Warren, G.F. Champaign, Ill., Weed Science Society of America. Weed science. Nov 1979. v. 27 (6). p. 679-683. ill. 13 ref. (NAL Call No.: 79.8 W41).

1596

Efficacy of postemergence spray dates in soybeans (Bentazon, herbicide, abstract only).

Crane, S. Sollazzo, P.J.; Ilnicki, R.D. Beltsville, Md., The Society. Proceedings - annual meeting of the Northeastern Weed Science Society. Northeastern Weed Science Society. p. 61. p. 61. (NAL Call No.: 79.9 N814).

1597

Electronic moisture sensor for maintaining herbicide solution on a roller applicator (Selective weed control, soybeans).
 Schepers, J.S. Burnside, D.C. Champaign, Ill., Weed Science Society of America. Weed science. Sept 1979. v. 27 (5). p. 559-561. ill. 12 ref. (NAL Call No.: 79.8 W41).

1598

Establishing soybeans in a no-tillage double-crop system with several herbicide combinations (Abstract only).
 Chitapong, P. Ilnicki, R.D.; Horng, L.C. Beltsville, Md., The Society. Proceedings - annual meeting of the Northeastern Weed Science Society. Northeastern Weed Science Society. p. 47. p. 47. (NAL Call No.: 79.9 N814).

1599

Evaluation of five communication tools in a soybean weed control pilot project.
 Lunsford, J.N. Champaign : The Society. Proceedings - Southern Weed Science Society. 1982. 1982. (35th). p. 370-372. (NAL Call No.: 79.9 S08).

1600

Evaluation of poast (BASF 9052) herbicide for postemergence overtop grass control in soybeans.
 Griffin, J.L. Taylor, R.W.; Habetz, R.J. Crowley, La., The Station. Annual progress report - Louisiana, Rice Experiment Station. 1981. 1981. (73rd). p. 324-326. (NAL Call No.: 100 L93 (3)).

1601

Expanded Vistar (herbicide) label: over-the-top johnsongrass control now available in the Midwest (USA, for soybean, cotton).
 San Francisco, California Farmer Publishing Co. Agrichemical age. June 1981. v. 25 (6). p.22-23. ill. (NAL Call No.: 381 AG85).

1602

Exudation of glyphosate from wheat (Triticum aestivum) plants and its effects on interplanted corn (Zea mays) and soybeans (Glycine max) (Growth regulator, herbicide uptake, no-tillage).
 Rodrigues, J.J.V. Worsham, A.D.; Corbin, F.T. Champaign, Ill., Weed Science Society of America. Weed science. May 1982. v. 30 (3). p. 316-320. Includes 22 ref. (NAL Call No.: 79.8 W41).

1603

Factors affecting the toxicity of glyphosate applied in the recirculating sprayer to johnsongrass (Sorghum halepense) and soybeans (Glycine max) (Herbicides).
 McWhorter, C.G. AR-SO. Williford, J.R. Champaign, Ill., Weed Science Society of America. Weed science. Jan 1980. v. 28 (1). p. 59-63. ill. 14 ref. (NAL Call No.: 79.8 W41).

1604

Fate of MBR-18337 in soybean (Glycine max) and Johnsongrass (Sorghum halepense) plants and cell cultures (Herbicide, plant growth regulators).
 Swisher, B.A. WEESA. Corbin, F.T. Champaign : Weed Science Society of America. Weed science. Mar 1983. v. 31 (2). p. 242-246. ill. Includes references. (NAL Call No.: 79.8 W41).

1605

Field competition between ivyleaf morningglory (Ipomea hederacea) and soybeans (Glycine max) (Weed control).
 Cordes, R.C. Bauman, T.T. Champaign, Ill. : Weed Science Society of America. Weed science. May 1984. v. 32 (3). p. 364-370. ill. Includes references. (NAL Call No.: 79.8 W41).

1606

Field evaluation of dried fungus spores for biocontrol of curly indigo in rice and soybeans (Aeschynomene virginica).
 Templeton, G.E. Smith, R.J. Jr.; TeBeest, D.D.; Beasley, J.N.; Klerk, R.A. Fayetteville, Ark., The Station. Arkansas farm research - Arkansas Agricultural Experiment Station. Nov/Dec 1981. v. 30 (6). p. 8. (NAL Call No.: 100 AR42F).

1607

Field results with oryzalin applied overtop of growing wheat for weed control in no-till soybeans (Herbicide).
 Burnside, K.R. PNWSB. Rivera, C.M.; Schumann, F.W. Beltsville : The Society. Proceedings - annual meeting of the Northeastern Weed Science Society. 1983. 1983. (37th). p. 33-38. Includes references. (NAL Call No.: 79.9 N814).

1608

Fit herbicide needs to your own program (Weed control in no-till soybeans).
 Waukesha, Wis. : No-Till Farmer, Inc. No-till farmer. May 1984. v. 12 (5). p. 10. ill. (NAL Call No.: S604.N6).

(WEEDS)

1609

Foliar nitrogen loss and CO₂ (carbon dioxide) equilibrium as influenced by three soybean (*Glycine max*) (infested with *Ipomoea hederacea integrisusula*) postemergence herbicides (Physiological responses).

Weiland, R.T. Stutte, C.A. Champaign, Ill., Weed Science Society of America. Weed science. Sept 1979. v. 27 (5). p. 545-548. ill. 20 ref. (NAL Call No.: 79.8 W41).

1610

Forage production and weed control in a double-cropping program (*Avena sativa*, *Zea mays*, *Glycine max*, *Sorghum bicolor*, Wisconsin). Okoli, P.S.O. Drolsom, P.N.; Scholl, J.M.

Madison, Wis. : American Society of Agronomy. Agronomy journal. May/June 1984. v. 76 (3). p. 363-366. Includes references. (NAL Call No.: 4 AM34P).

1611

Gang up on sicklepod and *Sesbania* (Weed control in soybeans, chemicals).

St. Louis, Mo., American Soybean Association. Soybean digest. Apr 1981. v. 41 (6). p. 12b-12c. (NAL Call No.: 60.38 S09).

1612

Germination and emergence of balloonvine (*Cardiospermum halicacabum*) (Compared with soybean seeds).

Johnston, S.K. Murray, D.S. Champaign, Ill., Weed Science Society of America. Weed science. Jan 1979. v. 27 (1). p. 73-76. ill. 9 ref. (NAL Call No.: 79.8 W41).

1613

Germination and emergence of hemp sesbania (*Sesbania exaltata*) (Weed control, soybeans).

Johnston, S.K. Walker, R.H. Champaign, Ill., Weed Science Society of America. Weed science. May 1979. v. 27 (3). p. 290-293. ill. 11 ref. (NAL Call No.: 79.8 W41).

1614

Germination, control, and competition of cutleaf groundcherry (*Physalis angulata*) in soybeans (*Glycine max*).

Bell, V.D. Oliver, L.R. Champaign, Ill., Weed Science Society of America. Weed science. Jan 1979. v. 27 (1). p. 133-138. ill. 30 ref. (NAL Call No.: 79.8 W41).

1615

Germination of Texas gourd (*Cucurbita texana*) and its control in soybeans (*Glycine max*) (Herbicides).

Oliver, L.R. WEESA. Harrison, S.A.; McClelland, M. Champaign : Weed Science Society of America. Weed science. Sept 1983. v. 31 (5). p. 700-706. ill. Includes references. (NAL Call No.: 79.8 W41).

1616

Germination techniques and metribuzin bioassay for large-seeded crops (Soybean, corn, cowpeas, herbicide).

Singh, M.P.FSHA. Phatak, S.C.; Glaze, N.C. Lake Alfred : The Society. Proceedings of the ... annual meeting - Florida State Horticultural Society. 1982. v. 95. p. 336-339. ill. Includes references. (NAL Call No.: 81 F66).

1617

Giant foxtail control in soybeans (*Setaria faberi*, *Ambrosia artemisiifolia*, herbicide, abstract only).

Hahn, R.R. Beltsville, Md., The Society. Proceedings - annual meeting of the Northeastern Weed Science Society. Northeastern Weed Science Society. p. 57-58. (NAL Call No.: 79.9 N814).

1618

Graminicides--new technology for controlling grasses in soybeans (Herbicides).

Retzinger, E.J. Jr. Baton Rouge, The Station. Louisiana agriculture - Louisiana Agricultural Experiment Station. Spring 1982. v. 25 (3). p. 12-13. (NAL Call No.: 100 L939).

1619

Growth analysis of soybeans (*Glycine max*) in competition with jimsonweed (*Datura stramonium*).

Hagood, E.S. Jr. Bauman, T.T.; Williams, J.L. Jr.; Schreiber, M.M. Champaign, Ill., Weed Science Society of America. Weed science. July 1981. v. 29 (4). p. 500-504. 15 ref. (NAL Call No.: 79.8 W41).

1620

Growth and water use by common cocklebur (*Xanthium pensylvanicum*) and soybeans (*Glycine max*) under field conditions.

Geddes, R.D. Scott, H.D. Champaign, Ill., Weed Science Society of America. Weed science. Mar 1979. v. 27 (2). p. 206-212. ill. 15 ref. (NAL Call No.: 79.8 W41).

1621

Hemp Sesbania (exaltata) control with acifluorfen applied with the box-type recirculating sprayer (Soybeans).

Barrentine, W.L. Reames, J.E. Auburn, Ala., The Society. Proceedings - Southern Weed Science Society. 1980. 1980. (33d). p. 341-346. ill. 10 ref. (NAL Call No.: 79.9 S08).

1622

Hemp sesbania (Sesbania exaltata) competition in soybeans (Glycine max).

McWhorter, C.G. Anderson, J.M. Champaign, Ill., Weed Science Society of America. Weed science. Jan 1979. v. 27 (1). p. 58-64. ill. 17 ref. (NAL Call No.: 79.8 W41).

1623

Herbicide applications in tillered winter wheat for doublecrop soybean weed control.

McHarry, M.J. Kapusta, G. Madison, Wis., American Society of Agronomy. Agronomy journal. Nov/Dec 1979. v. 71 (6). p. 1051-1055. ill. 8 ref. (NAL Call No.: 4 AM34P).

1624

Herbicide field trials on field crops, 1980 (Cotton, soybeans, yields).

Frans, R. McClelland, M.; Terhune, E. Fayetteville, Ark., The Station. Mimeograph series - Arkansas, Agricultural Experiment Station. Apr 1981. Apr 1981. (288). 62 p. (NAL Call No.: 100 AR42M).

1625

Herbicide response of common weeds.

Anderson, L. E. Aldrich, R. J.; Fletcher, O. Hale. 1981. This publication examines herbicide performance on common weeds that are found among corn, soybeans, and grain sorghum. Document available from: Extension Publications, 211 Whitten Hall, Univ. of Missouri, Columbia, Missouri 65201. 3 p. (NAL Call No.: Not available at NAL.). (NAL Call No.: 4904).

1626

Herbicides and dates of application for control and eradication of wild garlic (Allium vineale) (Glycine max, Festuca arundinacea, Poa pratense).

Peters, E.J. McKelvey, R.A. Champaign, Ill., Weed Science Society of America. Weed science. Sept 1982. v. 30 (5). p. 557-560. 7 ref. (NAL Call No.: 79.8 W41).

1627

Herbicides for controlling a mixed population of johnsongrass and common cocklebur in soybeans (Sorghum halepense, Xanthium pennsylvanicum, Mississippi).

Mississippi State : The Station. MAFES research highlights - Mississippi Agricultural & Forestry Experiment Station. Nov 1982. v. 45 (11). p. 1-4. ill. 4 ref. (NAL Call No.: 100 M69MI).

1628

Herbicides for controlling a mixed population of johnsongrass and common cocklebur in soybeans (Sorghum halepense, Xanthium pennsylvanicum, Mississippi).

Arnold, B.L. MAEBB. Hurst, H.R. Mississippi State : The Station. Bulletin - Mississippi Agricultural & Forestry Experiment Station. Aug 1982. Aug 1982. (906). 6 p. ill. 4 ref. (NAL Call No.: S79.E3).

1629

Herbicides for 0 (zero)-till corn in soybean stubble, 1978.

McKibben, G.E. Urbana-Champaign, Ill., Illinois Agricultural Experiment Station. DSAC. Dixon Springs Agricultural Center. Jan 1979. Jan 1979. (7). p. 54-57. ill. 1 ref. (NAL Call No.: S1.D5).

1630

Hit 'em when they're up (Post-emergence herbicides, weed control in soybeans).

Hardwick, C. St. Louis, Mo., American Soybean Association. Soybean digest. May/June 1979. v. 39 (7). p. 14-15. ill. (NAL Call No.: 60.38 S09).

1631

Increasing herbicide (atrazine, metribuzin) tolerance of soybeans (Glycine max) by increasing seeding rates (Phytotoxicity).

Andersen, R.N. Champaign, Ill., Weed Science Society of America. Weed science. May 1981. v. 29 (3). p. 336-338. 3 ref. (NAL Call No.: 79.8 W41).

1632

Influence of crop canopy, weed maturity, and rainfall on acifluorfen activity (Ragweed, Ambrosia artemisiifolia, cocklebur, Xanthium pennsylvanicum, in soybeans).

Ritter, R.L. Coble, H.D. Champaign : Weed Science Society of America. Weed science. Mar 1984. v. 32 (2). p. 185-190. Includes references. (NAL Call No.: 79.8 W41).

(WEEDS)

1633

Influence of napropamide on the uptake and translocation of mineral nutrients (Herbicide, radish, wheat, corn, soybean).
Devlin, R.M. Zbiec, I.I.; Karczmarczyk, S.J. Champaign, Ill., Weed Science Society of America. Weed science. Sept 1982. v. 30 (5). p. 503-506. 7 ref. (NAL Call No.: 79.8 W41).

1634

Influence of quackgrass (*Agropyron repens*) density and duration of interference on soybeans (*Glycine max*) (Herbicide control).
Young, F.L. Wyse, D.L.; Jones, R.J. Champaign : Weed Science Society of America. Weed science. Nov 1982. v. 30 (6). p. 614-619. ill. 19 ref. (NAL Call No.: 79.8 W41).

1635

Influence of shading by soybeans (*Glycine max*) on weed suppression.
Murphy, T.R. Gossett, B.J. Champaign, Ill., Weed Science Society of America. Weed science. Sept 1981. v. 29 (5). p. 610-615. ill. 17 ref. (NAL Call No.: 79.8 W41).

1636

Influence of soybean (*Glycine max*) planting date on velvetleaf (*Abutilon theophrasti*) competition.
Oliver, L.R. Champaign, Ill., Weed Science Society of America. Weed science. Mar 1979. v. 27 (2). p. 183-188. ill. 8 ref. (NAL Call No.: 79.8 W41).

1637

Influence of the herbicide, chloramben, on severity of root rot of soybean caused by *Thielaviopsis basicola* / by May Lee Chen.
Chen, May Lee, 1947. Ann Arbor, Mich. University Microfilms International 1977. Thesis--Michigan State University, 1975. Facsimile produced by microfilm-xerography. ix, 72 : ill. ; 29 cm. Bibliography: leaves 67-72. (NAL Call No.: DISS 76-18,646).

1638

An integrated approach to red rice control (a preliminary report) (Weed control in soybean-rice rotation systems and in continuous-cropped rice, Louisiana).
Griffin, J.L. Regan, R.P.; Dunand, R.T.; Baker, J.B.; Cohn, M.A. Crowley : The Station. Annual progress report - Louisiana, Rice Experiment Station. 1982. (74th). p. 376. (NAL Call No.: 100 L93 (3)).

1639

Interaction of selected insecticide-herbicide combinations on soybeans (*Glycine max*) (Injury, population stand, and grain yield).
Hayes, R.M. Yeargan, K.V. Champaign, Ill., Weed Science Society of America. Weed science. Jan 1979. v. 27 (1). p. 51-54. ill. 17 ref. (NAL Call No.: 79.8 W41).

1640

Interactions of postemergence soybean herbicides (Abstract only).
Ritter, R.L. Harris, T.C. Beltsville, Md., The Society. Proceedings - annual meeting of the Northeastern Weed Science Society. Northeastern Weed Science Society. p. 63. (NAL Call No.: 79.9 N814).

1641

Interference and temperature effects on growth in soybean (*Glycine max*) and associated C3 and C4 (carbon pathway) weeds (*Amaranthus hybridus*, *Xanthium pensylvanicum*, competition).
Flint, E.P. WEESA. Patterson, D.T. Champaign : Weed Science Society of America. Weed science. Mar 1983. v. 31 (2). p. 193-199. Includes references. (NAL Call No.: 79.8 W41).

1642

Interference of redroot pigweed (*Amaranthus retroflexus*) and robust foxtail (*Setaria viridis* var. *robusta-alba* or var. *robusta-purpurea*) in soybeans (*Glycine max*) (Weed density).
Orwick, P.L. Schreiber, M.M. Champaign, Ill., Weed Science Society of America. Weed science. Nov 1979. v. 27 (6). p. 665-674. ill. 28 ref. (NAL Call No.: 79.8 W41).

1643

IPM: weed management program for the control of sicklepod (*Cassia obtusifolia*) and cocklebur (*Xanthium pensylvanicum*) in soybeans.
Lunsford, J.N. Auburn, Ala., The Society. Proceedings - Southern Weed Science Society. 1981. (34th). p. 281-283. (NAL Call No.: 79.9 S08).

1644

Itchgrass: predicting its potential range (*Rottboellia exaltata*, weed in maize, soybean and sugarcane fields).
Duncan, N. Washington, D.C. : The Administration. Agricultural research - U.S. Department of Agriculture, Agricultural Research Service. Oct 1983. v. 32 (3). p. 13. ill. (NAL Call No.: 1.98 AG84).

1645

Ivyleaf morningglory (*Ipomoea hederacea*) control with herbicides in soybeans (*Glycine max*).
 Prosch, S.D. WEESA. Kapusta, G. Champaign : Weed Science Society of America. Weed science. Jan 1983. v. 31 (1). p. 23-27. 10 ref. (NAL Call No.: 79.8 W41).

1646

Jimsonweed (*Datura stramonium*) control in soybeans.
 Oliver, L.R. AR. Howe, D.W. III. Fayetteville, The Station. Arkansas farm research - Arkansas, Agricultural Experiment Station. Mar/Apr 1980. v. 29 (2). p. 2. (NAL Call No.: 100 AR42F).

1647

Johnsongrass (*Sorghum halepense*) competition in soybean (*Glycine max*) (Sethoxydim, Tennessee).
 Williams, C.S. Hayes, R.M. Champaign, Ill. : Weed Science Society of America. Weed science. July 1984. v. 32 (4). p. 498-501. ill. Includes 18 references. (NAL Call No.: 79.8 W41).

1648

Johnsongrass (*Sorghum halepense*) control in soybeans (*Glycine max*) with metriflufen).
 Rogers, N.K. Talbert, R.E.; Oliver, L.R. Champaign, Ill., Weed Science Society of America. Weed science. May 1981. v. 29 (3). p. 291-296. 12 ref. (NAL Call No.: 79.8 W41).

1649

Johnsongrass (*Sorghum halepense*) control in soybeans (*Glycine max*) with metriflufen applied postemergence.
 Azlin, W.R. McWhorter, C.G. Champaign, Ill., Weed Science Society of America. Weed science. Jan 1981. v. 29 (1). p. 139-143. 5 ref. (NAL Call No.: 79.8 W41).

1650

Mefluidide-bentazon interactions on soybeans (*Glycine max*) and red rice (*Oryza sativa*) (Weed control in rice fields of southwest Louisiana, Phytotoxicity).
 Rao, S.R. Harger, T.R. Champaign, Ill., Weed Science Society of America. Weed science. Mar 1981. v. 29 (2). p. 200-209. ill. 21 ref. (NAL Call No.: 79.8 W41).

1651

Metabolism and selectivity of fluchloralin (Herbicides) in soybean roots.
 Marquis, L.Y. Shimabukuro, R.H. Washington, D.C., American Chemical Society. Journal of agricultural and food chemistry. Nov/Dec 1979. v. 27 (6). p. 1148-1156. ill. 28 ref. (NAL Call No.: 381 J8223).

1652

The mode of action of chlorsulfuron: the lack of direct inhibition of plant DNA synthesis (Herbicide, barley, corn, soybean).
 Ray, T.B. New York, Academic Press. Pesticide biochemistry and physiology. Oct 1982. v. 18 (2). p. 262-266. 8 ref. (NAL Call No.: SB951.P49).

1653

Morningglory survey of cotton and soybean fields in the Mississippi Delta: 1981 (*Ipomoea* species, weeds).
 Elmore, C.D. Wiseman, J.B.; McDaniel, S. Champaign : The Society. Proceedings - Southern Weed Science Society. 1982. 1982. (35th). p. 319-328. ill. 4 ref. (NAL Call No.: 79.9 S08).

1654

New developments for Vistar (Postemergence soybean herbicide).
 Gates, D.W. Champaign : Weeds Today, Inc. Weeds today. Late Spring 1982. v. 13 (2). p. 19-20. (NAL Call No.: SB610.W4).

1655

New postemergence herbicides for controlling grass weeds in soybeans.
 Velovitch, J.J. Champaign : Weeds Today, Inc. Weeds today. Late Spring 1982. v. 13 (2). p. 12, 17-18. ill. (NAL Call No.: SB610.W4).

1656

Nightshade--a soybean harvest nightmare (*Solanum nigrum*).
 San Francisco, California Farmer Publishing Co. Agrichemical age. Feb 1981. v. 25 (2). p. 12-13. ill. (NAL Call No.: 381 AG85).

1657

Noncompetitive effects of Johnsongrass (*Sorghum halepense*) on soybeans (*Glycine max*) (Weed, residues).
 Lolas, P.C. Coble, H.D. Champaign : Weed Science Society of America. Weed science. Nov 1982. v. 30 (6). p. 589-593. ill. 25 ref. (NAL

(WEEDS)

Call No.: 79.8 W41).

1658

Outfield johnsongrass control in soybeans.
Langston, V.B. LA. Melville, D.R.; Kinard, H.C.
Bossier City, The Station. Annual research
report - Red River Valley Agricultural
Experiment Station. Louisiana. Red River Valley
Agricultural Experiment Station. 1979. 1979. p.
251-261. (NAL Call No.: 100 L9333).

1659

**Outsmart the wind (Application of herbicides,
control of chemical drift, soybeans).**
Klinsky, S. St. Louis, Mo., American Soybean
Association. Soybean digest. May/June 1979. v.
39 (7). p. 27. ill. (NAL Call No.: 60.38 S09).

1660

**Oxyfluorfen (a selective pre- and postemergence
herbicide that controls broadleaf weeds in
economically important crops such as soybeans,
rice, peanuts, cotton, corn, forest, orchard,
and plantation crops).**
Adler, I.L. Hofmann, C.K. New York, Academic
Press, 1980. Updated general techniques and
additional pesticides, edited by Gunter Zweig
and Joseph Sherma. p. 331-341. ill. 3 ref. (NAL
Call No.: 395).

1661

Paraquat as a harvest aid for soybeans.
Wilson, H.P. VA. Norfolk, Va., The Service. The
Vegetable growers news - Virginia Polytechnic
Institute and State University, Cooperative
Extension Service. Sept 1980. v. 35 (3). p. 1.
(NAL Call No.: 275.28 V52).

1662

**Penetration, translocation, and metabolism of
acifluorfen in soybean (Glycine max), common
ragweed (Ambrosia artemisiifolia), and common
cocklebur (Xanthium pensylvanicum)
(Diphenylether herbicide).**
Ritter, R.L. Coble, H.D. Champaign, Ill., Weed
Science Society of America. Weed science. July
1981. v. 29 (4). p. 474-480. ill. 18 ref. (NAL
Call No.: 79.8 W41).

1663

**Pennsylvania smartweed (Polygonum
pensylvanicum) interference in soybeans
(Glycine max).**
Coble, H.D. Ritter, R.L. Champaign, Ill., Weed
Science Society of America. Weed science. Nov
1978. v. 26 (6). p. 556-559. ill. 12 ref. (NAL

Call No.: 79.8 W41).

1664

**Performance of BAS 9052 applied to Johnsongrass
(Sorghum halepense) and soybeans (Glycine max)
(Weed control).**
Retzinger, E.J. Jr. WEESA. Rogers, R.L.; Mowers,
R.P. Champaign : Weed Science Society of
America. Weed science. Nov 1983. v. 31 (6). p.
796-800. ill. Includes references. (NAL Call
No.: 79.8 W41).

1665

**Performance of overtop soybean herbicides in
southwest Louisiana.**
Harger, T.R. Lawrence, R.M. Baton Rouge,
Louisiana Agricultural Experiment Station.
Louisiana agriculture. Summer 1979. v. 22 (4).
p. 12-13. ill. (NAL Call No.: 100 L939).

1666

Pest control in soybeans, 1980.
Doersch, R.E. WI. Doll, J.D.; Harvey, R.G.;
Wedberg, J.L.; Grau, C.R. Madison, Wis., The
Programs. Publication - Cooperative Extension
Programs. University of Wisconsin -
Extension. Wisconsin. University. Cooperative
Extension Programs. Jan 1980. Jan 1980.
(A2782). 28 p. (NAL Call No.: S544.3.W6W53).

1667

**Pest control in soybeans, 1981 (Weeds, insects,
diseases).**
Doersch, R.E. Doll, J.D.; Harvey, R.G.;
Wedberg, J.L.; Grau, C.R. Madison, Wis., The
Programs. Publication - Cooperative Extension
Programs. University of Wisconsin Extension.
Jan 1981. Jan 1981. (A2782). 28 p. (NAL Call
No.: S544.3.W6W53).

1668

Pest management for soybeans--weed control.
Knake, E.L. Minneapolis, Minn. : Published for
the Congress by Burgess Pub., c1981.
Proceedings of symposia : IX International
Congress of Plant Protection, Washington, D.C.,
U.S.A., August 5-11, 1979 / editor, Thor
Kommedahl. p. 522-523. (NAL Call No.: SB951.I5
1979).

1669

Phenolic deposits and kranz syndrome in leaf tissues of spotted (*Euphorbia maculata*) and prostrate (*Euphorbia supina*) spurge (Weeds in cotton and soybean, leaf anatomy, *Chamaesyce Euphorbias*, in the mid-southern United States). Elmore, C.D. WEESA. Paul, R.N. Champaign : Weed Science Society of America. Weed science. Jan 1983. v. 31 (1). p. 131-136. ill. 26 ref. (NAL Call No.: 79.8 W41).

1670

Picloram (herbicide) translocation and redistribution in soybean plants following root uptake.

Gaudiel, R. Born, W.H. vanden. New York, Academic Press. Pesticide biochemistry and physiology. July 1979. v. 11 (1/3). p. 129-134. ill. 17 ref. (NAL Call No.: SB951.P49).

1671

Plant uptake of dinitroaniline herbicide-related nitrosamines (soybeans). Kearney, P.C. AR-BARC-ERRC. Oliver, J.E.; Kontson, A.; Fiddler, W.; Pensabene, J.W. Washington, D.C., American Chemical Society. Journal of agricultural and food chemistry. May/June 1980. v. 28. May/June 1980. v. 28 (3). p. 633-635. ill. 8 ref. (NAL Call No.: 381 J8223).

1672

Plant water stress of soybean (*Glycine max*) and common cocklebur (*Xanthium pensylvanicum*): a comparison under field conditions (Intraspecific competition, interspecific competition).

Scott, H.D. Geddes, R.D. Champaign, Ill., Weed Science Society of America. Weed science. May 1979. v. 27 (3). p. 285-289. ill. 16 ref. (NAL Call No.: 79.8 W41).

1673

Postemergence control of annual grasses. (*Eragrostis pilosa*, *Paspalum boscianum*, *Panicum dicotomiflorum*, *Digitaria sanguinalis*) in soybeans.

Wilson, H.P. Hines, T.E. Beltsville, Md., The Society. Proceedings - annual meeting of the Northeastern Weed Science Society. Northeastern Weed Science Society. 1980. v. 34. p. 6-10. ill. 5 ref. (NAL Call No.: 79.9 N814).

1674

Postemergence grass control for soybeans in 1982 (Herbicides).

Wilson, H.P. Virginia Beach, Va., Virginia Polytechnic Inst. and State University Cooperative Extension Service. The Vegetable growers news. Apr 1982. v. 36 (10). p. 2. (NAL Call No.: 275.28 V52).

1675

Postemergence grass herbicide for soybeans.

Wilson, H.P. Norfolk, Va., The Service. The Vegetable growers news - Virginia Polytechnic Institute and State University, Cooperative Extension Service. Apr 1981: v. 35 (10). p. 3-4. (NAL Call No.: 275.28 V52).

1676

Postemergence Johnsongrass control in no-tillage soybeans (*Sorghum halepense*, herbicides).

Wiepke, T.P. NWSB. Peregoy, R.; Hook, B.J.; Glenn, S. Beltsville : The Society. Proceedings - annual meeting of the Northeastern Weed Science Society. 1983. 1983. (37th). p. 44. (NAL Call No.: 79.9 N814).

1677

Postemergence weed control in soybeans.

Bauman, T.T. Jordan, T.N. Champaign, Ill., Weeds Today, Inc. Weeds today. Late Spring 1981. v. 12 (2). p. 7-8. (NAL Call No.: SB610.W4).

1678

Potential use of response surface analyses for weed management in soybeans (*Glycine max*) (Weed interference, mathematical models).

Keisling, T.C. Oliver, L.R.; Crowley, R.H.; Baldwin, F.L. Champaign, Ill. : Weed Science Society of America. Weed science. July 1984. v. 32 (4). p. 552-557. ill. Includes 16 references. (NAL Call No.: 79.8 W41).

1679

Predisposition by preemergence herbicides improve the control of cocklebur by acifluorfen in soybeans (*Xanthium pensylvanicum*).

Lunsford, J.N. Champaign : The Society. Proceedings - Southern Weed Science Society. 1982. 1982. (35th). p. 378-380. (NAL Call No.: 79.9 S08).

(WEEDS)

1680

Preemergence herbicides and cultivation for soybeans (*Glycine max*) (Weed control).
Gebhardt, M.R. Champaign, Ill., Weed Science Society of America. Weed science. Mar 1981. v. 29 (2). p. 165-168. 7 ref. (NAL Call No.: 79.8 W41).

1681

Preemergence metolachlor followed by postemergence acifluorfen and bentazon in soybeans (Herbicides).
Hornig, L.C.PNWSB. Ilnicki, R.D.; Beale, M.W. Beltsville : The Society. Proceedings - annual meeting of the Northeastern Weed Science Society. 1983. 1983. (37th). p. 39-43. Includes references. (NAL Call No.: 79.9 N814).

1682

Preemergence pendimethalin in combination with chloramben, linuron, and metribuzin in soybeans.
Vitolo, D. Ilnicki, R.D.; Sollazzo, P. Beltsville, Md., The Society. Proceedings - annual meeting of the Northeastern Weed Science Society. Northeastern Weed Science Society. p. 44-46. p. 44-46. (NAL Call No.: 79.9 N814).

1683

Preharvest effects of applying glyphosate to soybeans (*Glycine max*) (Weed control).
Azlin, W.R. McWhorter, C.G. Champaign, Ill., Weed Science Society of America. Weed science. Jan 1981. v. 29 (1). p. 123-127. ill. 10 ref. (NAL Call No.: 79.8 W41).

1684

Preliminary studies in early planted no-tillage soybeans (Herbicides, abstract only).
Wilson, H.P. Hines, T.E. Beltsville, Md., The Society. Proceedings - annual meeting of the Northeastern Weed Science Society. Northeastern Weed Science Society. p. 51. p. 51. (NAL Call No.: 79.9 N814).

1685

Quackgrass (*Agropyron repens*) control in soybeans (*Glycine max*) with BAS 9052 OH, KK-80, and Ro-13-8895 (Herbicides, northern United States and southeastern Canada).
Waldecker, M.A.WEESA6. Wyse, D.L. Champaign : Weed Science Society of America. Weed science. Jan 1984. v. 32 (1). p. 67-75. Includes references. (NAL Call No.: 79.8 W41).

1686

Reduce tillage--but not weed control (Soybeans).
Mangold, G. St. Louis, Mo., American Soybean Association. Soybean digest. Feb 1981. v. 41 (4). p. 10-11. ill. (NAL Call No.: 60.38 S09).

1687

Redvine (*Brunnichia cirrhosa*) and trumpetcreeper (*Campsis radicans*) control in soybeans and grain sorghum.
DeFelice, M.S. AR. Oliver, L.R. Fayetteville, University of Arkansas Agricultural Experiment Station. Arkansas farm research. May/June 1980. v. 29 (3). p. 5. (NAL Call No.: 100 AR42F).

1688

Relationships between phenylalanine ammonia-lyase activity and physiological responses of soybean (*Glycine max*) seedlings to herbicides.
Hoagland, R.E.WEESA. Duke, S.O. Champaign : Weed Science Society of America. Weed science. Nov 1983. v. 31 (6). p. 845-852. ill. Includes references. (NAL Call No.: 79.8 W41).

1689

Response of soybeans (*Glycine max*) to planting in untilled, weedy seedbed on clay soil (Herbicides).
Heatherly, L.G.WEESA. Elmore, C.D. Champaign : Weed Science Society of America. Weed science. Jan 1983. v. 31 (1). p. 93-99. 16 ref. (NAL Call No.: 79.8 W41).

1690

Response of soybeans to delayed planting after double rates of dinitroaniline herbicides.
Overton, J.R. Jeffery, L.S. Knoxville, Agricultural Experiment Station, University of Tennessee. Tennessee farm and home science. Progress report. Oct/Dec 1978. Oct/Dec 1978. (108). p. 32-36. ill. 1 ref. (NAL Call No.: 100 T25F).

1691

Rhizome johnsongrass control in cotton and soybeans.
Hunter, J.H.DOEEA. Barton, M.J. Midland : Agricultural Products Dept., Dow Chemical Co. Down to earth. Oct 1983. v. 39 (2). p. 22-23. ill. Includes references. (NAL Call No.: 381 D75).

1692

Screening of herbicidal antidotes for soybeans (Atrazine).

Bhagsari, A.S. USDA. Phillips, B.A. Fort Valley, Ga., The Division. Research bulletin - the Fort Valley State College. Fort Valley State College. Division of Agriculture. 1978. v. 2. p. 15-19. ill. 15 ref. (NAL Call No.: S537.F7F6).

1693

Seed coat impermeability and germination of showy crotonia (*Crotalaria spectabilis*) seeds (Weed in soybean fields).

Egley, G.H. Champaign, Ill., Weed Science Society of America. Weed science. July 1979. v. 27 (4). p. 355-361. ill. 18 ref. (NAL Call No.: 79.8 W41).

1694

Seedbed tillage and herbicide influence on soybean (*Glycine max*) weed control and yield.

Kapusta, G. Champaign, Ill., Weed Science Society of America. Weed science. Sept 1979. v. 27 (5). p. 520-526. ill. 10 ref. (NAL Call No.: 79.8 W41).

1695

Selected factors in the adoption of a recommended farm practice / by Billy A. Dick.

Dick, Billy A. 1968. Extension Repository Collection ~Typescript ~"A project in agricultural extension education submitted to the College of Agriculture, University of Georgia, in partial fulfillment of the requirements for course credit in Agricultural Extension 921.". ix, 35 leaves ; 29 cm. Bibliography: leaves (30)-31. (NAL Call No.: S544.3.G4D5).

1696

Selective control of sunflower in soybeans (*Helianthus annuus*).

Irons, S.M. Burnside, D.C. Madison, Wis., American Society of Agronomy. Agronomy journal. Mar/Apr 1982. v. 74 (2). p. 291-296. Includes 8 ref. (NAL Call No.: 4 AM34P).

1697

Selective postemergence herbicidal control of johnsongrass (*Sorghum halepense*) in soybeans (*Glycine max*).

Swisher, B.A. Kapusta, G. Champaign, Ill., Weed Science Society of America. Weed science. Sept 1980. v. 28 (5). p. 529-534. 12 ref. (NAL Call No.: 79.8 W41).

1698

Shattercane (weedy sorghum) control in narrow-row soybeans.

Burnside, D.C. Madison, Wis., American Society of Agronomy. Agronomy journal. Sept/Oct 1980. v. 72 (5). p. 753-757. 13 ref. (NAL Call No.: 4 AM34P).

1699

Sicklepod (*Cassia obtusifolia*) management in soybeans (*Glycine max*) (Herbicides, in North Carolina, southeastern United States).

Sherman, M.E. WEESA. Thompson, L. Jr.; Wilkinson, R.E. Champaign : Weed Science Society of America. Weed science. Sept 1983. v. 31 (5). p. 622-627. Includes references. (NAL Call No.: 79.8 W41).

1700

Sicklepod (*Cassia tora*) control in soybeans.

Jordan, C.W. Houston, D.W. Starkville, Cooperative Extension Service, Mississippi State University. Information sheet - Cooperative Extension Service, Mississippi State University. Mississippi State University. Cooperative Extension Service. Feb 1979. Feb 1979. (1024). 2 p. (NAL Call No.: S544.3.M7M5).

1701

Sicklepod in Mississippi soybeans / W.L. Barrentine ... (et al.).

Barrentine, W. L.; (William Lewis); 1937. Mississippi State, Miss. Mississippi Agricultural & Forestry Experiment Station 1983. "September 1983". 36 p. : ill., map ; 28 cm. -. Bibliography: p. 36. (NAL Call No.: S79.E8 no.119).

1702

Sicklepod in Mississippi soybeans (*Cassia obtusifolia*, weeds).

Barrentine, W.L. Hurst, H.R.; Tyner, F.H.; Kilby, W.W.; Hovermale, C.H.; Brown, W.E. Mississippi State, Miss. : The Station. MAFES research highlights - Mississippi Agricultural & Forestry Experiment Station. Nov 1983. v. 46 (11). p. 1-8. ill., maps. (NAL Call No.: 100 M69MI).

1703

Smallflower morningglory (*Jacquemontia tamnifolia*) germination as influenced by scarification, temperature, and seeding depth (Weed in tropical America and the southeast United States, in soybeans and other row crops).

Eastin, E.F. WEESA. Champaign : Weed Science Society of America. Weed science. Sept 1983. v.

(WEEDS)

31 (5). p. 727-730. ill. Includes references.
(NAL Call No.: 79.8 W41).

1704

Smartweed: easy to outsmart! (Control in maize and soybeans).

San Francisco, California Farmer Publishing Company. Agrichemical age. Nov/Dec 1979. v. 23 (9). p. 61E. ill. (NAL Call No.: 381 AG85).

1705

Soybean desiccation with paraquat, glyphosate, and ametryn (to hasten soybean maturity to allow early seed harvest).

Stoller, E.W. Whigham, D.K. Champaign, Ill., The Conference. Proceedings ... annual meeting. North Central Weed Control Conference. 1978. v. 33. p. 68-69. (NAL Call No.: 79.9 N81).

1706

Soybean (Glycine max) and grain sorghum (Sorghum bicolor) tolerance to residues of tetrafluron and fluometuron.

Reasons, D.L. Jeffery, L.S. Champaign, Ill., Weed Science Society of America. Weed science. Nov 1978. v. 26 (6). p. 553-538. ill. 3 ref. (NAL Call No.: 79.8 W41).

1707

Soybean (Glycine max) cultivar response (Herbicides).

Eastin, E.F. Champaign, Ill., Weed Science Society of America. Weed science. Jan 1979. v. 27 (1). p. 4-6. ill. 20 ref. (NAL Call No.: 79.8 W41).

1708

Soybean (Glycine max) cultivar response to metribuzin in solution culture (Phytotoxicity).

Hardcastle, W.S. Champaign, Ill., Weed Science Society of America. Weed science. May 1979. v. 27 (3). p. 278-279. ill. 20 ref. (NAL Call No.: 79.8 W41).

1709

Soybean (Glycine max) growth as affected by weed removal, cultivar, and row spacing.

Burnside, D.C. Champaign, Ill., Weed Science Society of America. Weed science. Sept 1979. v. 27 (5). p. 562-565. ill. 21 ref. (NAL Call No.: 79.8 W41).

1710

Soybean (herbicide) applicators--new weapons against weeds.

Furrer, J.D. NE. Lincoln, The Station. Farm, ranch and home quarterly. Nebraska. Agricultural Experiment Station. Spring 1980. v. 27 (1). p. 10-12. ill. (NAL Call No.: 100 N27N).

1711

Soybean herbicides for conventional seedbeds, 1978.

McKibben, G.E. Urbana-Champaign, Ill., Illinois Agricultural Experiment Station. DSAC. Dixon Springs Agricultural Center. Jan 1979. Jan 1979. (7). p. 71-77. ill. 1 ref. (NAL Call No.: S1.D5).

1712

Soybean plant damage and yields as affected by metribuzin and seed quality (Glycine max, Cassia obtusifolia, herbicide).

Gossett, B.J. Morgan, L.F.; Murphy, T.R. Madison, Wis., American Society of Agronomy. Agronomy journal. July/Aug 1982. v. 74 (4). p. 691-693. 13 ref. (NAL Call No.: 4 AM34P).

1713

Soybean protection from triazine injury by pendimethalin (Herbicide, abstract only).

Malefyt, T. Duke, W.B. Beltsville, Md., The Society. Proceedings - annual meeting of the Northeastern Weed Science Society. Northeastern Weed Science Society. p. 56.p. 56. (NAL Call No.: 79.9 N814).

1714

Soybean stand establishment and yield as affected by herbicides and cultural practices.

Johnson, R.R. Wax, L.M. Madison, The Society. Agronomy journal. American Society of Agronomy. Sept/Oct 1979. v. 71 (5). p. 880-884. ill. 11 ref. (NAL Call No.: 4 AM34P).

1715

Soybean weed control research.

Melville, D.R. LA. Rabb, J.L.; Willis, L.D. Jr.; Moppert, K.B.; Harger, T.R. Bossier City, The Station. Annual research report - Red River Valley Agricultural Experiment Station. Louisiana. Red River Valley Agricultural Experiment Station. 1979. 1979. p. 248-250. (NAL Call No.: 100 L9333).

1716

Soybean weed control studies (a preliminary report) (Louisiana).
Griffin, J.L. Harger, T.R.; Habetz, R.J.; Regan, R.P. Crowley : The Station. Annual progress report - Louisiana, Rice Experiment Station. 1982. 1982. (74th). p. 379-385. ill. (NAL Call No.: 100 L93 (3)).

1717

Soybeans (Glycine max) as a rescue crop following cyanazine and procyazine application.
Brewer, P.E. Slife, F.W. Champaign, Ill., Weed Science Society of America. Weed science. May 1979. v. 27 (3). p. 263-266. ill. 11 ref. (NAL Call No.: 79.8 W41).

1718

Spot spraying for johnsongrass (Sorghum halepense) control in soybeans (Glycine max).
McWhorter, C.G. Barrentine, W.L. Champaign, Ill., Weed Science Society of America. Weed science. Jan 1979. v. 27 (1). p. 119-121. ill. 8 ref. (NAL Call No.: 79.8 W41).

1719

Spurred anoda (Anoda cristata): a potential weed in southern crops (Cotton, soybeans).
Chandler, J.M. Oliver, L.R. New Orleans, The Region. Agricultural reviews and manuals. ARM-S.United States. Dept. of Agriculture. Science and Education Administration. Agricultural Research. Southern Region. Feb 1979. Feb 1979. (2). 19 p. ill., map. (NAL Call No.: aS21.A75U65).

1720

Survey of herbicides used in Iowa corn and soybean production, 1977.
Jennings, V.M. Champaign, Ill., The Conference. Proceedings ... annual meeting. North Central Weed Control Conference. 1978. v. 33. p. 76-79. ill. (NAL Call No.: 79.9 N81).

1721

The synergistic interaction of alachlor and trifluralin (Weed control in soybeans, Glycine max).
Prosch, S.D. SWSPB. Weber, J.B. Champaign : The Society. Proceedings - Southern Weed Science Society. 1983. 1983. (36th). p. 359-365. ill. Includes references. (NAL Call No.: 79.9 S08).

1722

Synthetic polymers for controlled-release of herbicides (Metribuzin, used for weed control in soybeans).
McCormick, C.L. Lichatowich, D.K. n.p. Journal Mississippi Academy of Sciences. 1978. v. 23. p. 6-10. ill. 14 ref. (NAL Call No.: 500 M697).

1723

The technical and economic effects of johnsongrass (Sorghum halepense) control in soybeans (Glycine max).
McWhorter, C.G. Anderson, J.M. Champaign, Ill., Weed Science Society of America. Weed science. May 1981. v. 29 (3). p. 245-253. 11 ref. (NAL Call No.: 79.8 W41).

1724

Tillage and weed control practices in soybeans grown on Sharkey clay soil.
Barrentine, W.L. Tupper, G.R. Mississippi State, Miss. : The Station. MAFES research highlights - Mississippi Agricultural & Forestry Experiment Station. Dec 1983. v. 46 (12). p. 1-4. ill. Includes references. (NAL Call No.: 100 M69MI).

1725

Tillage effects on weed control (Herbicides, for corn and soybean production).
Pope, R.A. Siemens, J.C.; Bode, L.E. St. Joseph, Mich. (P.O. Box 410), American Society of Agricultural Engineers, 1980. Crop production with conservation in the 80's : proceedings of the American Society of Agricultural Engineers Conference on Crop Production with Conservation in the 80's, December 1-2, 1980, Palmer House, Chicago, Illinois. p. 134-142. ill. 4 ref. (NAL Call No.: S494.5.P75C7).

1726

Today's herbicides (Metribuzin, weed control in soybeans, sugarcane and asparagus).
Carlson, W.C. Champaign, Ill. Weeds today. Winter 1979. v. 10 (1). p. 6-7, 27. ill. (NAL Call No.: SB610.W4).

1727

Today's weed: sicklepod (Cassia obtusifolia)--how to control it in soybeans.
Gossett, B.J. Champaign, Ill., Weeds Today, Inc. Weeds today. Late Spring 1981. v. 12 (2). p. 29-30. ill. (NAL Call No.: SB610.W4).

(WEEDS)

1728

Toxaphene vs acifluorfen in the control of sicklepod (*Cassia obtusifolia*) in soybeans.
Lunsford, J.N. Auburn, Ala., The Society. Proceedings - Southern Weed Science Society. 1981. 1981. (34th). p. 63-65. (NAL Call No.: 79.9 S08).

1729

Translocation of different 2,4-D, bentazon, diclofop, or diclofop-methyl combinations in oat (*Avena sativa*) and soybean (*Glycine max*) (Herbicides, antagonism).
Hall, C. Edgington, L.V.; Switzer, C.M. Champaign : Weed Science Society of America. Weed science. Nov 1982. v. 30 (6). p. 676-682. 23 ref. (NAL Call No.: 79.8 W41).

1730

Translocation of ¹⁴C (carbon isotope)-glyphosate (herbicide) in soybeans (*Glycine max*) and johnsongrass (*Sorghum halepense*).
McWhorter, C.G. AR-SO. Jordan, T.N.; Wills, G.D. Champaign, Ill., Weed Science Society of America. Weed science. Jan 1980. v. 28 (1). p. 113-118. ill. 23 ref. (NAL Call No.: 79.8 W41).

1731

Two new herbicides for soybeans (Blazer 2L (based on sodium salt of acifluorfen), and Goal).
San Francisco, California Farmer. Agrichemical age. Sept/Oct 1979. v. 23 (8). p. 34-35, 44. ill. (NAL Call No.: 381 AG85).

1732

Use of paraquat to aid detection of fungi (*Diaporthe phaseolorum*) in soybean tissues.
Cerkaskas, R.F. Sinclair, J.B. St. Paul, Minn., American Phytopathological Society. Phytopathology. Nov 1980. v. 70 (11). p. 1036-1038. 16 ref. (NAL Call No.: 464.8 P56).

1733

Use of preemergence herbicides in reduced tillage soybeans.
Simonds, B.L. Banks, P.A. Auburn, Ala., The Society. Proceedings - Southern Weed Science Society. 1981. 1981. (34th). p. 80-84. (NAL Call No.: 79.9 S08).

1734

Use of the recirculating sprayer to control tall weed escapes in crops (*Asclepius syriaca*, soybeans).
Carlson, D.R. Burnside, O.C. Champaign, Ill., Weed Science Society of America. Weed science. Mar 1981. v. 29 (2). p. 174-179. ill. 11 ref. (NAL Call No.: 79.8 W41).

1735

Volatilization of microencapsulated and conventionally applied chlorpropham (herbicide) in the field (Soil residues, soybeans).
Turner, B.C. Glotfelty, D.E. Madison. Agronomy journal American Society of Agronomy. Nov/Dec 1978. v. 70 (6). p. 933-937. ill. 16 ref. (NAL Call No.: 4 AM34P).

1736

Volunteer corn (in soybeans): new controls for '79.
Fawcett, R.S. Champaign, Ill. Weeds today. Spring 1979. v. 10 (2). p. 4-6. ill. (NAL Call No.: SB610.W4).

1737

War on cocklebur--a follow-up evaluation (Soybeans, weed control).
Baldwin, F.L. Nester, R.P. Auburn, Ala., The Society. Proceedings - Southern Weed Science Society. 1980. 1980. (33d). p. 310-313. 8 ref. (NAL Call No.: 79.9 S08).

1738

Weed (chemical, mechanical, cultural) control in soybeans.
Wax, L.M. Champaign, Ill., Weeds Today, Inc. Weeds today. Winter 1979. v. 10 (4). p. 16, 18. ill. (NAL Call No.: SB610.W4).

1739

Weed-control evaluations in no-till soybeans (*Glycine max*) double-cropped with rye (*Secale cereale*) (Georgia).
Banks, P.A. GARRA, Kvien, J.S. Athens : The Stations. Research report - University of Georgia, College of Agriculture, Experiment Stations. July 1983. July 1983. (431). 6 p. Includes references. (NAL Call No.: S51.E22).

1740

Weed control experiments in soybeans.

Leasure, J.K. Carbondale, Ill., Southern Illinois University. AG review Southern Illinois University. School of Agriculture. 1981. 1981. p. PLSS54-PLSS60. (NAL Call No.: S537.S5S6).

1741

Weed control for corn and soybeans in reduced tillage systems.

Miller, G. R. Coultas, J. S. & Agricultural chemicals. Document available from: University of Minnesota, Bulletin Room, 1420 Eckles Avenue, St. Paul, Minnesota 55108 1979. Lists herbicides for corn and soybean grown in reduced tillage system. 1 sheet : ill. (NAL Call No.: Document available from source.). (NAL Call No.: Fs No.12).

1742

Weed control for soybeans in 1981.

Wax, L.M. Champaign, Ill., Weeds Today, Inc. Weeds today. Spring 1981. v. 12 (1). p. 4-5. ill. (NAL Call No.: SB610.W4).

1743

Weed control in a low-till oat (Avena sativa)-soybean (Glycine max) rotation.
Burnside, D.C. WEESA. Carlson, D.R. Champaign : Weed Science Society of America. Weed science. Nov 1983. v. 31 (6). p. 853-856. Includes references. (NAL Call No.: 79.8 W41).

1744

Weed control in double crop no-till soybeans.
Crane, S. Sollazzo, P.J.; Ilnicki, R.D. Beltsville, Md., The Society. Proceedings - annual meeting of the Northeastern Weed Science Society. Northeastern Weed Science Society. p. 48-50. p. 48-50. (NAL Call No.: 79.9 N814).

1745

Weed control in double cropped corn, grain sorghum, or soybeans minimum-till planted following canning peas.

Ndon, B.A. Harvey, R.G.; Scholl, J.M. Madison, Wis., American Society of Agronomy. Agronomy journal. Mar/Apr 1982. v. 74 (2). p. 266-269. Includes 21 ref. (NAL Call No.: 4 AM34P).

1746

Weed control in double-cropped no-tilled soybeans planted in wheat stubble.

Jeffery, L.S. TN. McCutchen, T.; Overton, J.R.; Hayes, R.M. Knoxville, The Station. Tennessee farm and home science - Tennessee Agricultural Experiment Station. Apr/June 1980. Apr/June 1980. (114). p. 11-15. ill. (NAL Call No.: 100 T25F).

1747

Weed control in doublecrop soybeans.

Kapusta, G. Champaign : Weeds Today, Inc. Weeds today. Late Spring 1982. v. 13 (2). p. 26-27. ill. (NAL Call No.: SB610.W4).

1748

Weed control in no-till soybeans.

Lewis, W.M. Athens, The Stations. Special publication - University of Georgia, Agriculture Experiment Stations. 1978. 1978. (5). p. 39-45. (NAL Call No.: HD1775.G4G43).

1749

Weed control in rill-irrigated soybeans.

Ogg, A.G. Jr. Evans, D.W. Pullman, Wash., The Center. Bulletin. Washington State University. College of Agriculture Research Center. Apr 1979. Apr 1979. (869). 6 p. ill. 12 ref. (NAL Call No.: 100 W27E).

1750

Weed control (in soybean crops).

Russ, D.G. Manhattan, Kan., The Service. C - Kansas State University, Cooperative Extension Service. May 1982. May 1982. (449). p. 11-12. (NAL Call No.: 275.29 K13EX).

1751

Weed control in soybeans.

Wax, L.M. ISSODB. Slife, F.W. Urbana : International Agricultural Publications, College of Agriculture, University of Illinois. INTSOY International Soybean Program series. July 1983. July 1983. (25). p. 143-145. (NAL Call No.: TX558.S715).

1752

Weed control in soybeans (Glycine max) with mefluidide applied postemergence.

McWhorter, C.G. Barrentine, W.L. Champaign, Ill., Weed Science Society of America. Weed science. Jan 1979. v. 27 (1). p. 42-47. ill. 8 ref. (NAL Call No.: 79.8 W41).

(WEEDS)

1753

Weed control (Soybeans).

Russ, D.G. Manhattan, Kan., The Service. C.Kansas State University. Cooperative Extension Service. May 1978. May 1978. (449). p. 11-12. (NAL Call No.: 275.29 K13EX).

1754

Weed control systems in soybeans for the control of sicklepod (*Cassia obtusifolia*) Cocklebur (*Xanthium pensylvanicum*) Florida beggarweed (*Desmodium tortuosum*) and redroot pigweed (*Amaranthus retroflexus*).

Lunsford, J.N. Auburn, Ala., The Society. Proceedings - Southern Weed Science Society. 1981. 1981. (34th). p. 69-79. (NAL Call No.: 79.9 S08).

1755

Weed control systems in soybeans with acidfluorfen.

Dowler, C.C. AR-SO. Auburn, Ala., The Society. Proceedings - Southern Weed Science Society. 1980. 1980. (33d). p. 48. ill. (NAL Call No.: 79.9 S08).

1756

Weed pest management in soybean presented by Virginia Tech Extension ; (author, James R. Martin ; editor, S.J. Fleischer). Martin, James R. Fleischer, S. J. (Blacksburg, Va.) Virginia Polytechnic Institute and State University (1981?). Pesticide Applicator Training Collection. 66 slides : col. + 1 sound cassette (13:30 mins.) + 1 script. (NAL Call No.: Slide no.26).

1757

Weed watch--wild poinsettia (*Euphorbia heterophylla*, soybeans).

Nester, P.R. Harger, T.R. Champaign, Ill. Weeds today. Spring 1979. v. 10 (2). p. 24-25. ill. (NAL Call No.: SB610.W4).

1758

Whip weeds in no-till soybeans (Control).

Ehmke, V. St. Louis, Mo., American Soybean Association. Soybean digest. Apr 1981. v. 41 (6). p. 26-27. ill. (NAL Call No.: 60.38 S09).

1759

Wick-applied glyphosate reduces johnsongrass population (*Sorghum halepense* in soybeans).

Dale, J.E. Auburn, Ala., The Society. Proceedings - Southern Weed Science Society. 1981. 1981. (34th). p. 297-299. Includes 1 ref. (NAL Call No.: 79.9 S08).

1760

Wild mustard competition in soybeans and control with chloroxuron / by Duane Raymond Berglund.

Berglund, Duane Raymond, 1942. 1971. Thesis (Ph.D.)--North Dakota State University, 1971. Photocopy of typescript. Ann Arbor: University Microfilms, 1972. vii, 70 leaves ; 21 cm. Bibliography: leaves (66)-70. (NAL Call No.: DISS 72-16,026).

1761

Wild oat (*Avena fatua*) competition in soybean (*Glycine max*).

Rathmann, D.P. Miller, S.D. Champaign, Ill., Weed Science Society of America. Weed science. July 1981. v. 29 (4). p. 410-414. 18 ref. (NAL Call No.: 79.8 W41).

1762

Wild poinsettia (*Euphorbia heterophylla*): a major soybean weed.

Harger, T.R. LA. Nester, P.R. Baton Rouge, The Station. Louisiana agriculture. Louisiana. Agricultural Experiment Station. Spring 1980. v. 23 (3). p. 4-5, 7. ill. (NAL Call No.: 100 L939).

1763

Wild proso millet (*Panicum miliaceum*) control in processing peas (*Pisum sativum*) and soybeans (*Glycine max*) (Herbicide treatments).

McNevin, G.R. Harvey, R.G. Champaign, Ill., Weed Science Society of America. Weed science. July 1982. v. 30 (4). p. 365-368. 13 ref. (NAL Call No.: 79.8 W41).

1764

With no-tillage, hit weeds early! (Early preplant application of herbicides, maize, soybeans, Iowa).

Waukesha, Wis. : No-Till Farmer, Inc. No-till farmer. Apr 1984. Apr 1984. p. 12. ill. (NAL Call No.: S604.N6).

1765

Yellow nutsedge (Cyperus esculentus) control, regrowth, and tuber production as affected by herbicides (in cotton and soybeans).

Banks, P.A. WEESA. Champaign : Weed Science Society of America. Weed science. May 1983. v. 31 (3). p. 419-422. Includes references. (NAL Call No.: 79.8 W41).

1766

0-till soybean culture (Effectiveness of herbicides).

McKibben, G.E. IL. Urbana-Champaign, Ill., Illinois Agricultural Experiment Station. DSAC - Dixon Springs Agricultural Center. Jan 1980. Jan 1980. (8). p. 66-76. 1 ref. (NAL Call No.: S1.D5).

1767

0 (zero)-till soybean culture (in cornstalks and in wheat stubble, varieties, herbicides).

McKibben, G.E. Urbana-Champaign, Ill., Illinois Agricultural Experiment Station. DSAC. Dixon Springs Agricultural Center. Jan 1979. Jan 1979. (7). p. 61-70. ill. 1 ref. (NAL Call No.: S1.D5).

1768

138 no-till tank mixes compared (Maize, soybeans, herbicide trials).

Lessiter, F. Waukesha, Wis. : No-Till Farmer, Inc. No-till farmer. Mar 1984. v. 13 (3). p. 12. ill. (NAL Call No.: S604.N6).

PESTICIDES - GENERAL

1769

Absorption, translocation, and degradation of SN 533 by soybeans (*Glycine max*) and peanuts (*Arachis hypogaea*) (Herbicide, phytotoxicity). Harrison, H.F. Jr. WEESA. Slife, F.W. Champaign : Weed Science Society of America. Weed science. Mar 1983. v. 31 (2). p. 259-263. ill. Includes references. (NAL Call No.: 79.8 W41).

1770

Absorption, translocation, and metabolism of 4-(2,4-dichlorophenoxy) butyric acid in soybean and cocklebur / by Srisurang Wathana. Wathana, Srisurang, 1936. 1970. Thesis (Ph.D)--North Carolina State University. Raleigh, 1970. Photocopy. Ann Arbor, Mich. : University Microfilms, 1971. viii, 108 leaves ; 21 cm. Bibliography: leaves 103-108. (NAL Call No.: DISS 71-15,945).

1771

Annual progress report-1980 / Iowa State University. Document available from: Iowa State University. Publications Distribution, Printing & Publications Bldg., Ames, Iowa 50011 1981. This publication discusses the research center experiments on tiling methods, time of planting corn, S and Zn fertilizers, fuel and time requirements for tillage system, organic and chemical farming, soybean bacterial tan spot loss, and pasture nutrient losses. Herbicide evaluation and crop variety tests are included. 19 p. : ill. (NAL Call No.: Document available from source.). (NAL Call No.: ORC 80-13).

1772

Antagonism with glyphosate and residual herbicide combinations (Used for control of perennial weeds and vegetation minimum-till cropping systems, maize, soybeans). Selleck, G.W. Baird, D.D. Champaign, Ill., Weed Science Society of America. Weed science. Mar 1981. v. 29 (2). p. 185-190. 7 ref. (NAL Call No.: 79.8 W41).

1773

Atrazine persistence in a corn-soybean doublecropping system (Herbicide residue). Brecke, B.J. Currey, W.L.; Teem, D.H. Madison, Wis., American Society of Agronomy. Agronomy journal. May/June 1981. v. 73 (3). p. 534-537. ill. 10 ref. (NAL Call No.: 4 AM34P).

1774

Behavior of BAS-9052 OH in soybean (*Glycine max*) and johnsongrass (*Sorghum halepense*) plant and cell cultures (Herbicide metabolism, mode of action). Swisher, B.A. Corbin, F.T. Champaign : Weed Science Society of America. Weed science. Nov 1982. v. 30 (6). p. 640-650. ill. 21 ref. (NAL Call No.: 79.8 W41).

1775

Bioactivity of the postemergent herbicides acifluorfen and bentazon on *Geocoris punctipes* (Say) (Hemiptera: Lygaeidae) (*Glycine max*). Farlow, R.A. Pitre, H.N. College Park, Md. : Entomological Society of America. Journal of economic entomology. Feb 1983. v. 76 (1). p. 200-203. Includes references. (NAL Call No.: 421 J822).

1776

Biological properties of amino acid conjugates of (the herbicide) 2,4,5-trichlorophenoxyacetic acid (Effect on soybean root tissue, oat coleoptiles). Davidonis, G.H. Arjmand, M. Washington, D.C., American Chemical Society. Journal of agricultural and food chemistry. July 1979. v. 36 (1). p. 1086-1088. ill. 8 ref. (NAL Call No.: 381 J8223).

1777

Biological properties of D-amino acid conjugates of 2,4-D (2,4-dichlorophenoxyacetic acid, *Glycine max*, soybeans, *Avena sativa*, oats, herbicides). Davidonia, G.H. Hamilton, R.H.; Vallejo, R.P.; Buly, R.; Mumma, R.O. Rockville, Md., American Society of Plant Physiologists. Plant physiology. Aug 1982. v. 70 (2). p. 357-360. 19 ref. (NAL Call No.: 450 P692).

1778

Comparative metabolism of (the herbicide) 2,4-dichlorophenoxyacetic acid in cotyledon and leaf callus from two varieties of soybean. Davidonis, G.H. Hamilton, R.H.; Mumma, R.O. Bethesda, Md., American Society of Plant Physiologists. Plant physiology. Jan 1980. v. 65 (1). p. 94-97. ill. 8 ref. (NAL Call No.: 450 P692).

1779

A comparison of various growth parameters of cell suspension cultures to determine phytotoxicity of xenobiotics (Soybean, Glycine max, einkorn, Triticum monococcum, detergent or herbicide).

Davis, D.G. Stolzenberg, R.L.; Dusky, J.A. Champaign : Weed Science Society of America. Weed science. Mar 1984. v. 32 (2). p. 235-242. ill. Includes references. (NAL Call No.: 79.8 W41).

1780

Compatibility and phytotoxicity of herbicide-fertilizer combinations (Tested on oats and soybeans, phytotoxicity).

Martens, A.R. Burnside, D.C. Madison. Agronomy Journal American Society of Agronomy. Nov/Dec 1978. v. 70 (6). p. 1089-1098. ill. 9 ref. (NAL Call No.: 4 AM34P).

1781

Compatibility of diclofop and BAS 9052 (2-(1-(ethoxyimino)-butyl)-5-2(2-(ethylthio)propyl)-3-hydroxy-2-cyclohexen-1-one) with Bentazon (Herbicides, soybeans, injury, antagonism).

Campbell, J.R. Penner, D. Champaign. Ill., Weed Science Society of America. Weed science. Sept 1982. v. 30 (5). p. 458-462. 12 ref. (NAL Call No.: 79.8 W41).

1782

The contribution of herbicides and other technologies to soybean production in the Corn Belt Region, 1965 to 1979.

Schroder, D. Headley, J.C.; Finley, R.M. Columbia, Missouri, The Department. Extract: This report attempts to identify the contributions of technology and weather to soybean yield variation for the period 1965 to 1979 in the Corn Belt Region. Technology variables included were genetic improvement, herbicides, and row-width. A pooled cross-sectional time-series data base was used to estimate regression parameters for herbicides and other variables. A marginal private benefit/cost return of \$2.3 per dollar of herbicide cost was estimated for additional land treated with herbicides. Paper - University of Missouri-Columbia, Dept. of Agricultural Economics. (1981?). (1981?). (1981-33). 25 p. 35 ref. (NAL Call No.: 917437(AGE)).

1783

Control and management of itchgrass (*Rottboellia exaltata*, weeds, herbicides effective in soybean fields).

Harger, T.R. Vidrine, P.R.; Nester, P.R. Baton Rouge, La., The Station. Louisiana agriculture - Louisiana Agricultural Experiment Station. Summer 1982. v. 25 (4). p. 20-21, 24. ill. (NAL Call No.: 100 L939).

1784

Control of cowpea (*Vigna unguiculata*) in soybean (*Glycine max*) with acifluorfen (Herbicides evaluation, phytotoxicity, South Carolina).

Murphy, T.R. Gossett, B.J. Champaign, Ill. : Weed Science Society of America. Weed science. July/Aug 1982. v. 32 (4). p. 427-431. Includes 19 references. (NAL Call No.: 79.8 W41).

1785

Corn and soybean response to allelopathic effects of weed and crop residues.

Bhowmik, P.C. Doll, J.D. Madison, Wis., American Society of Agronomy. Agronomy journal. July/Aug 1982. v. 74 (4). p. 601-606. 17 ref. (NAL Call No.: 4 AM34P).

1786

Determination of herbicide inhibition of photosynthetic electron transport by fluorescence (Soybeans, atrazine, diuron).

Richard, E.P. Jr. WEESA. Goss, J.R.; Arntzen, C.J.; Slife, F.W. Champaign : Weed Science Society of America. Weed science. May 1983. v. 31 (3). p. 361-367. ill. Includes references. (NAL Call No.: 79.8 W41).

1787

Diffusion of selected herbicides in water and in soil to soybeans / by H. Don Scott.

Scott, H. Don (Hubert Donovan), 1944. 1971. Thesis (Ph.D.)--University of Kentucky, 1971. Photocopy of typescript. Ann Arbor: University Microfilms, 1972. xiv, 215 leaves ; 21 cm. Bibliography: leaves 203-215. (NAL Call No.: DISS 72-21,483).

1788

Distribution of chlorinated pesticides in soybeans, soybean oil, and its by-products during processing (Effectiveness of processing steps on the removal of residues).

Chaudry, M.M. Nelson, A.I. Champaign, Ill. Journal American Oil Chemists' Society. Dec 1978. v. 55 (12). p. 851-853. ill. 12 ref. (NAL Call No.: 307.8 J82).

(PESTICIDES - GENERAL)

1789

Ecological impact of parathion in soybeans. I. Vegetative fauna. (Predatory arthropods, detrimental effects, insecticides, *Plathypena scabra*, natural control, Missouri field experiments).
Marston, N.L.XATBA. Hennessey, M.K. Washington : The Department. Technical bulletin - United States Dept. of Agriculture. Dec 1982. Dec 1982. (1665). p. 1-7. ill. Includes references. (NAL Call No.: 1 AG84TE).

1790

Ecological impact of parathion in soybeans (Insecticides, adverse effects, natural control, predatory arthropods).
Washington : The Department. Technical bulletin - United States Dept. of Agriculture. Dec 1982. Dec 1982. (1665). 23 p. ill. Includes references. (NAL Call No.: 1 AG84TE).

1791

Ecological impact of parathion in soybeans. II. Soil arthropod fauna (Insecticides, nontarget species, sampling, Missouri).
Hennessey, M.K.XATBA. Marston, N.L. Washington : The Department. Technical bulletin - United States Dept. of Agriculture. Dec 1982. Includes taxonomic list of soil arthropods collected. Dec 1982. (1665). p. 8-23. ill. Includes references. (NAL Call No.: 1 AG84TE).

1792

Economic consequences of bans on corn (*Zea mays*) and soybean (*Glycine max*) herbicides commonly used on Indiana farms.
Cashman, C.M. Martin, M.A.; McCarl, B.A. Champaign, Ill., Weed Science Society of America. Weed science. May 1981. v. 29 (3). p. 323-328. 4 ref. (NAL Call No.: 79.8 W41).

1793

Effect of fungicides and herbicides on nodulation and N₂ (nitrogen) fixation in soybean fields lacking indigenous *Rhizobium japonicum* (Survival of granular and seed-applied inoculants of *Rhizobium*).
Rennie, R.J. Dubetz, S. Madison, Wis. : American Society of Agronomy. Agronomy journal. May/June 1984. v. 76 (3). p. 451-454. Includes references. (NAL Call No.: 4 AM34P).

1794

Effect of insecticides, fungicides, and insecticide-fungicide combinations on development of lepidopterous larval populations in soybean (Non-target organisms, entomopathogenic fungi).
Livingston, J.M. Yearian, W.C. College Park, Md., Entomological Society of America. Environmental entomology. Dec 1978. v. 7 (6). p. 823-828. ill. 18 ref. (NAL Call No.: QL461.E532).

1795

The effect of sprinkler irrigation on herbicide efficacy, distribution, and penetration in some Coastal Plain soils (Applied on corn, peanuts and soybeans, weed control, southwest Georgia).
Dowler, C.C.GARRA. Rohde, W.A.; Fetzer, L.E.; Scott, D.E. Sr.; Sklany, T.E. Athens : The Stations. Research report - University of Georgia, College of Agriculture, Experiment Stations. Aug 1982. Aug 1982. (281). 27 p. ill. Includes references. (NAL Call No.: S51.E22).

1796

Effect of 2,4-DB on soybeans (*Glycine max*) (Acetylene reduction, phytotoxicity, postemergence weed control, injury).
Barker, M.A. Thompson, L. Jr.; Patterson, R.P. Champaign, Ill. : Weed Science Society of America. Weed science. May 1984. v. 32 (3). p. 299-303. ill. Includes references. (NAL Call No.: 79.8 W41).

1797

The effects of Fall application of glyphosate on corn (*Zea mays*), soybeans (*Glycine max*), and johnsongrass (*Sorghum halepense*) (Phytotoxicity).
Jeffery, L.S. English, J.R.; Connell, J. Champaign, Ill., Weed Science Society of America. Weed science. Mar 1981. v. 29 (2). p. 190-195. ill. 9 ref. (NAL Call No.: 79.8 W41).

1798

Effects of glyphosate on glyceollin production and the expression of resistance to *Phytophthora megasperma* f. sp. *glycinea* in soybean (*Glycine max*, herbicides).
Keen, N.T.PHYTA. Holliday, M.J.; Yoshikawa, M. St. Paul : American Phytopathological Society. Phytopathology. Nov 1982. v. 72 (11). p. 1467-1470. 14 ref. (NAL Call No.: 464.8 P56).

1799

Effects of glyphosate on metabolism of phenolic compounds. VI. Effects of glyphosine and glyphosate metabolites on phenylalanine ammonia-lyase activity, growth, and protein, chlorophyll, and anthocyanin levels in soybean (*Glycine max*) seedlings (Phytotoxicity). Hoagland, R.E. AR-SO. Champaign, Ill., Weed Science Society of America. Weed science. July 1980. Literature review. v. 28 (4). p. 393-400. ill. 49 ref. (NAL Call No.: 79.8 W41).

1800

Effects of herbicidal applications of toxaphene on the soybean thrips, certain predators and corn earworm in soybeans (*Sericothrips variabilis*). Huckaba, R.M.GENSA. Bradley, J.R.; Van Duyn, J.W. Athens : The Society. Journal of the Georgia Entomological Society. Apr 1983. v. 18 (2). p. 200-207. Includes references. (NAL Call No.: QL461.G4).

1801

Effects of herbicides on growth and extractable phenylalanine ammonia-lyase activity in light- and dark-grown soybean (*Glycine max*) seedlings. Hoagland, R.E. Duke, S.O. Champaign, Ill., Weed Science Society of America. Weed science. July 1981. v. 29 (4). p. 433-439. 44 ref. (NAL Call No.: 79.8 W41).

1802

Effects of pyrethroid insecticide seed treatments on *Rhizobium japonicum* and its symbiotic relationship with, and growth of soybean. Tu, C.M.JPFCD. New York : Marcel Dekker. Journal of environmental science and health. Part B. Pesticides, food contaminants, and agricultural wastes. 1983. v. 18 (3). p. 369-378. ill. Includes references. (NAL Call No.: TD172.J61).

1803

Effects of selected pesticide application routines on pest and beneficial arthropods on soybean in Mississippi. Farlow, R.A.EVETB. Pitre, H.N. College Park : Entomological Society of America. Environmental entomology. Apr 1983. v. 12 (2). p. 552-557. Includes references. (NAL Call No.: QL461.E532).

1804

Effects of soil water content on pendimethalin dissipation (*Oryza sativa*, *Glycine max*, herbicide). Barrett, M.R.JEVQA. Lavy, T.L. Madison : American Society of Agronomy. Journal of environmental quality. Oct/Dec 1983. v. 12 (4). p. 504-508. Includes references. (NAL Call No.: QH540.J6).

1805

The effects of some N-phenylurea herbicides on water loss and stomatal movement in soybeans. Lay, Ming-Muh, 1941. Ann Arbor, Mich. University Microfilms 1973. Thesis--Rutgers University, 1973. xi, 117 leaves. Bibliography: leaves 106-116. (NAL Call No.: DISS 73-15,677).

1806

Effects of systemic insecticide-nematicides on midseason pest and predator populations in soybean (*Cerotoma trifurcata*, *Empoasca fabae*, *Sericothrips variabilis*, *Heterodera glycines*). Lentz, G.L.JEENA. Chambers, A.Y.; Hayes, R.M. College Park : Entomological Society of America. Journal of economic entomology. Aug 1983. v. 76 (4). p. 836-840. Includes references. (NAL Call No.: 421 J822).

1807

Effects of (the nonselective herbicide) glyphosate on metabolism of phenolic compounds. V. L-alpha-aminoxy-beta-phenylpropionic acid and glyphosate effects on phenylalanine ammonia-lyase in soybean seedlings. Duke, S.O. AR-SO. Hoagland, R.E.; Elmore, C.D. Bethesda, Md., American Society of Plant Physiologists. Plant physiology. Jan 1980. v. 65 (1). p. 17-21. ill. 27 ref. (NAL Call No.: 450 P692).

1808

Enhanced phytotoxicity of bentazon with organophosphate and carbamate insecticides (Injury to soybean and navy bean). Campbell, J.R. Penner, D. Champaign, Ill., Weed Science Society of America. Weed science. May 1982. v. 30 (3). p. 324-326. Includes 12 ref. (NAL Call No.: 79.8 W41).

1809

Enzyme immunoassay and fluoroimmunoassay for the herbicide diclofop-methyl (Residue analysis of pesticides, quantification in soil, urine, serum, wheat, soybeans, sugar beets). Schwalbe, M. Dorn, E.; Beyermann, K. Washington, D.C. : American Chemical Society. Journal of agricultural and food chemistry.

(PESTICIDES - GENERAL)

July/Aug 1984. v. 32 (4). p. 734-741. ill.
Includes 17 references. (NAL Call No.: 381 J8223).

1810

Extraction procedures for oilseeds and related high fat-low moisture products (Oil crops-soybeans, Brassica campestris, nut crops, cocoa, pesticides, residues chemical analysis, methods, mustard seed, endrin, DDT).
Sawyer, L.D. JANCA. Arlington : The Association. Journal of the Association of Official Analytical Chemists. Sept 1982. v. 65 (5). p. 1122-1128. 7 ref. (NAL Call No.: 381 AS7).

1811

Factors affecting the toxicity of glyphosate applied in the recirculating sprayer to johnsongrass (Sorghum halepense) and soybeans (Glycine max) (Herbicides).
McWhorter, C.G. AR-SO. Williford, J.R. Champaign, Ill., Weed Science Society of America. Weed science. Jan 1980. v. 28 (1). p. 59-63. ill. 14 ref. (NAL Call No.: 79.8 W41).

1812

The factors of three herbicides on the growth factors and N₂ (nitrogen)-fixation of two soybean cultivars (Stimulatory and inhibitory effects, Louisiana).
Chin, K.L. Abayneh, T.; Lee, W.J. Baton Rouge, La. : The University. Research bulletin - Southern University. Sept 1, 1983. v. 5 (1). p. 26-37. ill. Includes references. (NAL Call No.: S539.5.R42).

1813

Fate of an insect growth regulator EL-494 in soybean callus tissue, soybean plants, and gypsy moth larvae (Lymantria dispar).
AbdelMonem, A.E. Mumma, R.O. Washington, D.C., American Chemical Society. Journal of agricultural and food chemistry. May/June 1982. v. 30 (3). p. 536-542. ill. Includes 12 ref. (NAL Call No.: 381 J8223).

1814

Field crops herbicide manual for dealers and custom applicators.
Doersch, Ron. Doll, Jerry. 1982. This publication focuses information on annual weed control for corn, soybeans, sweet corn, peas, beans, sunflowers, grasses, small grains, legumes, alfalfa, and grass pastures. Document available from: Agricultural Bulletin Bldg., 1535 Observatory Drive, University of Wisconsin, Madison, Wisconsin 53706. 99 p. (NAL Call No.: Not available at NAL.). (NAL Call No.: A2296).

1815

Herbicide effects on liposome leakage (Soybeans, permeability).
Talbert, D.M. WEESA. Camper, N.D. Champaign : Weed Science Society of America. Weed science. May 1983. v. 31 (3). p. 329-332. ill. Includes references. (NAL Call No.: 79.8 W41).

1816

Herbicides for soybeans planted in conventional seedbeds, 1979 (Illinois).
McKibben, G.E. Urbana-Champaign, Ill., Illinois Agricultural Experiment Station. DSAC - Dixon Springs Agricultural Center. Jan 1980. Jan 1980. (8). p. 77-84. (NAL Call No.: S1.D5).

1817

Herbicides for 0-till corn in soybean stubble, 1979 (No-tillage systems, Illinois).
McKibben, G.E. Urbana-Champaign, Ill., Illinois Agricultural Experiment Station. DSAC - Dixon Springs Agricultural Center. Jan 1980. Jan 1980. (8). p. 57-60. Includes 1 ref. (NAL Call No.: S1.D5).

1818

Impact of reduction in use of dibromochloropropane (DBCP) on 1979 soybean yields.
Park, J. Schmidt, K.; Swanson, E.R. Urbana, Ill., The Department. Illinois agricultural economics staff paper, series E agricultural economics - Dept. of Agricultural Economics, University of Illinois. Mar 1981. Mar 1981. (81 E-158). 25 p. (NAL Call No.: 916937(AGE)).

1819

Impacts of pesticide withdrawal on a typical Indiana farm: an economic analysis.
Cashman, C.M. Martin, M.A.; McCarl, B.A. West Lafayette, The Station. Extract: This bulletin analyzes the short-run, farm-level economic impacts of possible Environmental Protection Agency bans on the use of selected corn and soybean pesticides commonly used in Indiana and elsewhere in the Corn Belt. Station bulletin - Dept. of Agricultural Economics, Agricultural Experiment Station, Purdue University. Sept 1980. Sept 1980. (291). 119 p. 19 ref. (NAL Call No.: HD1775.I615).

1820

Influence of herbicide injury on the yield potential of soybeans (Glycine max).
Hagood, E.S. Jr. Williams, J.L. Jr.; Bauman, T.T. Champaign, Ill., Weed Science Society of America. Weed science. Jan 1980. v. 28 (1). p. 40-45. ill. 15 ref. (NAL Call No.: 79.8 W41).

1821

The influence of straw mulch on the soil reception and persistence of metribuzin (Herbicide, in a no-till soybean system).
Banks, P.A. Robinson, E.L. Champaign, Ill., Weed Science Society of America. Weed science. Mar 1982. v. 30 (2). p. 164-168. ill. Includes 9 ref. (NAL Call No.: 79.8 W41).

1822

Influence of the herbicides hexazinone and chlorsulfuron on the metabolism of isolated soybean leaf cells (Photosynthetic inhibitor).
Hatzios, K.K. Howe, C.M. New York, Academic Press. Pesticide biochemistry and physiology. June 1982. v. 17 (3). p. 207-214. 21 ref. (NAL Call No.: SB951.P49).

1823

Information and restrictions on insecticide recommendations for field corn, small grains, soybeans and forages / Ohio State University, Cooperative Extension Service, Columbus, Ohio.
1981. This publication discusses current pest problems, general pest control, and includes tables on insecticide recommendation restrictions. Document available from: Ext. Office of Information, Ohio State University, 2120 Fyffe Road, Columbus, OH 43210. 9 p. (NAL Call No.: Not available at NAL.). (NAL Call No.: Field Ent Series 1).

1824

Inhibition of chlorophyll accumulation by glyphosate (Soybeans, barley, maize).
Kitchen, L.M. Witt, W.W.; Rieck, C.E. Champaign, Ill., Weed Science Society of America. Weed science. July 1981. v. 29 (4). p. 513-516. 19 ref. (NAL Call No.: 79.8 W41).

1825

Interaction of antioxidants with ozone and herbicide stress (Tested with navy beans, maize, and soybeans, includes phytotoxicity).
Rubin, B. AR-NC. Leavitt, J.R.C.; Penner, D.; Saettler, A.W. New York, Springer. Bulletin of environmental contamination and toxicology. Oct 1980. v. 25 (4). p. 623-629. 10 ref. (NAL Call No.: RA1270.P35A1).

1826

Interaction of fensulfothion and phorate with preemergence herbicides on soybean parasitic nematodes.
Schmitt, D.P. Corbin, F.T. Ames, Iowa, Society of Nematologists. Journal of nematology. Jan 1981. v. 13 (1). p. 37-41. 14 ref. (NAL Call No.: QL391.N4J62).

1827

Interactions of herbicides with insecticides in soybeans (Glycine max) (Injury).
Waldrop, D.D. WEESA. Banks, P.A. Champaign : Weed Science Society of America. Weed science. Sept 1983. v. 31 (5). p. 730-734. Includes references. (NAL Call No.: 79.8 W41).

1828

A manual for implementing an integrated pest management program for insects in soybean / William A. Allen, Robert M. McPherson.
Allen, William A. (William Albert), 1939. Blacksburg Extension Division, Virginia Polytechnic Institute and State University 1982. Pesticide Applicator Training collection ~"July 1982.". 12 p. : ill. ; 28 cm. -. (NAL Call No.: S544.3.V8V52 no.444-016).

1829

Metabolism of AC 206,784 herbicide (2-chloro-N-(2,3-dimethylphenyl)-N-(1-methylethyl)acetamide) in soybean plants (Glycine max).
Hussain, M. JAFCA. Kapoor, I.P.; Ku, C.C.; Stout, S. Washington : American Chemical Society. Journal of agricultural and food chemistry. Mar/Apr 1983. v. 31 (2). p. 232-236. Includes references. (NAL Call No.: 381 J8223).

1830

Metabolism of (14C) (carbon isotope) vernolate in soybeans (Herbicide, detoxification).
Wilkinson, R.E. PCBPB. New York : Academic Press. Pesticide biochemistry and physiology. Dec 1983. v. 20 (3). p. 347-353. ill. Includes references. (NAL Call No.: SB951.P49).

1831

Metolachlor and alachlor effects on membrane permeability and lipid synthesis (Herbicides, phytotoxicity, using roots of corn, soybean, cotton, cucumber, onion).
Mellis, J.M. Pillai, P.; Davis, D.E.; Truelove, B. Champaign, Ill., Weed Science Society of America. Weed science. July 1982. v. 30 (4). p. 399-404. ill. 27 ref. (NAL Call No.: 79.8 W41).

1832

Metribuzin injury in soybeans as influenced by application timing and cultivation (Herbicide injury, Kansas).
Moshier, L.J. Russ, D.G. Madison, Wis., American Society of Agronomy. Agronomy journal. July/Aug 1981. v. 73 (4). p. 677-679. 9 ref. (NAL Call No.: 4 AM34P).

(PESTICIDES - GENERAL)

1833

Mutagenicity of selected chemicals in soybean test systems (Includes agricultural chemicals, environmental pollutants).

Vig, B.K. Sung, R. New York, Plenum Press. Environmental science research. 1982. v. 24. p. 257-290. 40 ref. (NAL Call No.: TD172.E55).

1834

Noncompetitive effects of Johnsongrass (Sorghum halepense) on soybeans (Glycine max) (Weed, residues).

Lolas, P.C. Coble, H.D. Champaign : Weed Science Society of America. Weed science. Nov 1982. v. 30 (6). p. 589-593. ill. 25 ref. (NAL Call No.: 79.8 W41).

1835

Oxyfluorfen (a selective pre- and postemergence herbicide that controls broadleaf weeds in economically important crops such as soybeans, rice, peanuts, cotton, corn, forest, orchard, and plantation crops).

Adler, I.L. Hofmann, C.K. New York, Academic Press, 1980. Updated general techniques and additional pesticides, edited by Gunter Zweig and Joseph Sherma. p. 331-341. ill. 3 ref. (NAL Call No.: 395).

1836

The persistence and disappearance by washoff and dryfall of methoxychlor from soybean foliage--a preliminary study (Insecticide).

Smith, C.N. Payne, W.R. Jr.; Mulkey, L.A.; Benner, J.E.; Parrish, R.S.; Smith, M.C. New York, Marcel Dekker. Journal of environmental science and health. Part B: Pesticides, food contaminants, and agricultural wastes. 1981. v. 16 (6). p. 77-794. ill. Includes 19 ref. (NAL Call No.: TD172.J61).

1837

Persistence of cotton (Gossypium hirsutum) herbicides and injury to replacement soybeans (Glycine max) after stand failure.

Sharp, T. Frans, R.; Talbert, R. Champaign, Ill., Weed Science Society of America. Weed science. Jan 1982. v. 30 (1). p. 109-115. ill. Includes 16 ref. (NAL Call No.: 79.8 W41).

1838

Persistence of hormone-type herbicide residue in tissue of susceptible crop plants (Tomatoes, soybeans, turnips).

Sirons, G.J. Anderson, G.W.; Frank, R.; Ripley, B.D. Champaign : Weed Science Society of America. Weed science. Nov 1982. v. 30 (6). p. 572-578. ill. 12 ref. (NAL Call No.: 79.8 W41).

1839

Pesticide applicator certification.

(United States? s.n.) 1982. Pesticide Applicator Training Collection ~Title from container ~Beta format. 4 videocassettes (ca. 60 min. each) : sd., col. ; 1/2 in. (NAL Call No.: Videocassette no.5).

1840

Pesticide effects on natural enemies (of soybean pests).

Van Duyn, J.W.SCSBA. McLeod, P.J. Mississippi State : Mississippi Agricultural and Forestry Experiment Station. Southern cooperative series bulletin. June 1983. Regional Research Project S-74. June 1983. (285). p. 56-62. Includes references. (NAL Call No.: 100 G2950).

1841

Pesticide interactions on soybeans (Phytotoxicity, field study, Ohio).

Hammond, R.B. ORRDA. Wooster : The Center. Ohio report on research and development in agriculture, home economics, and natural resources - Ohio Agricultural Research and Development Center. Jan/Feb 1983. v. 68 (1). p. 11-12. ill. (NAL Call No.: 100 OH35 (3)).

1842

Pesticides used in Iowa crop production in 1978 and 1979.

Becker, Roger. Stockdale, Harold. Document available from: Iowa State University, Publications Distribution, Printing & Publications Bldg., Ames, Iowa 50011 1980. This publication looks at a survey that examined Iowa's rate and application of pesticides on corn, soybean, grain sorghum, wheat, small grains, alfalfa, other hay, and pasture. Chemicals are either listed by trade or chemical name. 23 p. : ill. (NAL Call No.: Document available from source.). (NAL Call No.: Pm-964).

1843

Phytotoxic interaction between phenylurea herbicides in a cotton (Gossypium hirsutum)-soybean (Glycine max) sequence.

Chandler, J.M. AR-SD. Savage, K.E. Champaign, Ill., Weed Science Society of America. Weed science. Sept 1980. v. 28 (5). p. 521-526. ill. 10 ref. (NAL Call No.: 79.8 W41).

1844

Phytotoxicity of soybean caused by the interaction of insecticide-nematicides and metribuzin.

Hammond, R.B. College Park, Md. : Entomological Society of America. Journal of economic entomology. Feb 1983. v. 76 (1). p. 17-19. Includes references. (NAL Call No.: 421 J822).

1845

Polyploidy in an amphimictic population of *Heterodera glycines* (Soybean cyst nematode).

Triantaphyllou, A.C. Riggs, R.D. Ames, Iowa, Society of Nematologists. Journal of nematology. Oct 1979. v. 11 (4). p. 371-376. ill. 11 ref. (NAL Call No.: QL391.N4J62).

1846

Populations of corn earworm (*Heliothis zea*) and associated predators (*Orius insidiosus*, *Greocoris punctipes* and *Nabis* spp., beneficial insects) after applications of certain soil-applied pesticides to soybeans (Integrated pest control).

Morrison, D.E. Bardley, J.R. Jr. Baltimore, Entomological Society of America. Journal of economic entomology. Feb 15, 1979. v. 72 (1). p. 97-100. ill. 11 ref. (NAL Call No.: 421 J822).

1847

Postemergence and harvest aid herbicides for soybeans.

Bauman, T. T. Williams, J. L. Jr.; Jordan, T. N. & Weed science. Document available from: Purdue University, Publication Mailing Room, 301 South Second Street, Lafayette, Indiana 47905 1979. Examines postemergence herbicides and directed postemergence for soybean. 4 p. (NAL Call No.: Document available from source.). (NAL Call No.: BP-10-7).

1848

Pyrethroids blast (soybean) insects.

Ehmke, V. St. Louis, Mo., American Soybean Association. Soybean digest. July/Aug 1980. v. 40 (8). p. 285. (NAL Call No.: 60.38 S09).

1849

Reflectorized soybean canopy in relation to transpiration and herbicide phytotoxicity.

Ogbuehi, S.N. Leavitt, J.R.C.; Brandle, J.R. New York, Springer. Bulletin of environmental contamination and toxicology. Dec 1980. v. 25 (6). p. 789-883. 12 ref. (NAL Call No.: RA1270.P35A1).

1850

Regulatory pest control.

DeWitt, Jerald R. Document available from: Iowa State University, Publications Distribution, Printing & Publications Bldg., Ames, Iowa 50011 1977. This publication offers information on control principles, control methods, and pesticide useage on japanese beetles, gypsy moths, cereal leaf beetle, soybean nematode and barberry. 12 p. (NAL Call No.: Document available from source.). (NAL Call No.: CS-24).

1851

Residual activity of selected insecticides against the adult Mexican bean beetle (*Coleoptera:Coccinellidae*) on soybeans (*Epilachna varivestis*, *Glycine max*).

Dobrin, G.C. JEENAI. Hammond, R.B. College Park : Entomological Society of America. Journal of economic entomology. Dec 1983. v. 76 (6). p. 1456-1459. Includes references. (NAL Call No.: 421 J822).

1852

Selectivity mechanisms for foliar applications of diclofop-methyl. II. Metabolism (Studies with weeds, prosomillet, soybeans and cucumber, uptake, tolerance).

Boldt, P.F. Putnam, A.R. Champaign, Ill., Weed Science Society of America. Weed science. Mar 1981. v. 29 (2). p. 237-241. ill. 15 ref. (NAL Call No.: 79.8 W41).

1853

Some effects of certain insecticides on soybeans / Ronnie H. Shehane.

Shehane, Ronnie. 1971. Thesis (Ph.D.)--Auburn University, 1971. Photocopy of typescript. Ann Arbor: University Microfilms, 1972. xvii, 256 leaves ; 21 cm. Bibliography: leaves 122-124. (NAL Call No.: DISS 72-11,285).

1854

Soybean herbicides: recommendations, use surveys and treatment costs.

Park, J.K. Nafziger, E.D.; Swanson, E.R. Urbana, Ill., The Department. Illinois agricultural economics staff paper, series E agricultural economics - Dept. of Agricultural Economics, University of Illinois. July 1981. Predominantly tables. July 1981. (81 E-181). 93 p. 43 ref. (NAL Call No.: 916937(AGE)).

(PESTICIDES - GENERAL)

1855

Soybean insect control recommendations-1981.
Edwards, Richard C. Matthew, David L. & Field
crops insects. Document available from: Purdue
University, Publication Mailing Room, 301 South
Second Street, Lafayette, Indiana 47905 1980.
Lists a table consisting of pest, material,
amount per acre, placement and time of
pesticide application for soybean insect
control. 4 p. : ill. (NAL Call No.: Document
available from source.). (NAL Call No.: E-77).

1856

**Soybean insect management guidelines number 1
-- corn earworms / John C. Smith and Robert M.
McPherson.**
Smith, John C. Blacksburg Extension Division,
Virginia Polytechnic Institute and State
University 1984. Pesticide Applicator Training
collection ~Caption title ~"February 1984.". 2
p. : ill. ; 28 cm. -. (NAL Call No.:
S544.3.V8V52 no.444-041 1984).

1857

**Soybean insect management guidelines number 2 -
Mexican bean beetles / Robert M. McPherson and
John C. Smith.**
McPherson, Robert M. Blacksburg Extension
Division, Virginia Polytechnic Institute and
State University 1984. Pesticide Applicator
Training collection ~Caption title ~"February
1984.". 2 p. : ill. ; 28 cm. -. (NAL Call No.:
S544.3.V8V52 no.444-042 1984).

1858

**Soybean insect management guidelines number 3 -
stink bugs / Robert M. McPherson and John C.
Smith.**
McPherson, Robert M. Blacksburg Extension
Division, Virginia Polytechnic Institute and
State University 1983. Pesticide Applicator
Training collection ~Caption title ~"August
1983.". 2 p. : ill. ; 28 cm. -. (NAL Call No.:
S544.3.V8V52 no.444-043).

1859

**Soybean insect management guidelines, number 4
-- bean leaf beetles / Robert M. McPherson.**
McPherson, Robert M. Blacksburg Extension
Division, Virginia Polytechnic Institute and
State University 1984. Pesticide Applicator
Training collection ~Caption title ~"February
1984.". 2 p. : ill. ; 28 cm. -. (NAL Call No.:
S544.3.V8V52 no.444-044).

1860

**Soybean insect management guidelines number 5 -
green cloverworms / Robert M. McPherson.**
McPherson, Robert M. Blacksburg Extension
Division, Virginia Polytechnic Institute and
State University 1983. Pesticide Applicator
Training collection ~Caption title ~"May
1983.". 2 p. : ill. ; 28 cm. -. (NAL Call No.:
S544.3.V8V52 no.444-045).

1861

**Soybean insect management guidelines, number 6
-- Spider mites / John C. Smith and Robert M.
McPherson.**
Smith, John C. Blacksburg Extension Division,
Virginia Polytechnic Institute and State
University 1984. Pesticide Applicator Training
collection ~Caption title ~"February 1984.". 2
p. : ill. ; 28 cm. -. (NAL Call No.:
S544.3.V8V52 no.444-046).

1862

**Soybean insect management guidelines number 7 -
natural enemies / Holly J. Ferguson and Robert
M. McPherson.**
Ferguson, Holly J. Blacksburg Extension
Division, Virginia Polytechnic Institute and
State University 1983. Pesticide Applicator
Training collection ~Caption title ~"May
1983.". 2 p. : ill. ; 28 cm. -. (NAL Call No.:
S544.3.V8V52 no.444-047).

1863

**Soybean insect management guidelines, number 8
-- Trap crops / Robert M. McPherson.**
McPherson, Robert M. Blacksburg Extension
Division, Virginia Polytechnic Institute and
State University 1983. Pesticide Applicator
Training collection ~Caption title ~"July
1983.". 3 p. : ill. ; 28 cm. -. (NAL Call No.:
S544.3.V8V52 no.444-048).

1864

**Soybean insect pest management for Virginia /
Robert M. McPherson and John C. Smith.**
McPherson, Robert M. Blacksburg Extension
Division, Virginia Polytechnic Institute and
State University 1984. Pesticide Applicator
Training collection ~"March 1984.". 10 p. :
ill. ; 28 cm. -. (NAL Call No.: S544.3.V8V52
no.444-040 1984).

1865

Soybean insecticides: recommendations, use surveys and treatment costs.

Park, J.K. Nafziger, E.D.; Swanson, E.R. Urbana, Ill., The Department. Illinois agricultural economics staff paper, series E agricultural economics - Dept. of Agricultural Economics, University of Illinois. July 1981. July 1981. (81 E-182). 48 p. 51 ref. (NAL Call No.: 916937(AGE)).

1866

Soybean nematocides/fungicides: recommendations, use surveys and treatment costs.

Park, J.K. Nafziger, E.D.; Swanson, E.R. Urbana, Ill., The Department. Illinois agricultural economics staff paper, series E agricultural economics - Dept. of Agricultural Economics, University of Illinois. July 1981. July 1981. (81 E-183). 35 p. 53 ref. (NAL Call No.: 916937(AGE)).

1867

Synthetic polymers for controlled-release of herbicides (Metribuzin, used for weed control in soybeans).

McCormick, C.L. Lichatowich, D.K. n.p. Journal Mississippi Academy of Sciences. 1978. v. 23. p. 6-10. ill. 14 ref. (NAL Call No.: 500 M697).

1868

Tolerance of soybean genotypes to metribuzin (Herbicides, injury).

Eastin, E.F. Sij, J.W.; Craigmiles, J.P. Madison, Wis., American Society of Agronomy. Agronomy journal. Jan/Feb 1980. v. 72 (1). p. 167-168. ill. 6 ref. (NAL Call No.: 4 AM34P).

1869

Tolerance of three soybean (Glycine max) cultivars to metribuzin (Herbicides, injury).

Barrentine, W.L. Hartwig, E.E.; Edwards, C.J. Jr.; Kilen, T.C. Champaign, Ill., Weed Science Society of America. Weed science. July 1982. v. 30 (4). p. 344-348. 10 ref. (NAL Call No.: 79.8 W41).

1870

Translocation of different 2,4-D, bentazon, diclofop, or diclofop-methyl combinations in oat (Avena sativa) and soybean (Glycine max) (Herbicides, antagonism).

Hall, C. Edgington, L.V.; Switzer, C.M. Champaign : Weed Science Society of America. Weed science. Nov 1982. v. 30 (6). p. 676-682. 23 ref. (NAL Call No.: 79.8 W41).

1871

Uptake and release of herbicides by soybean roots in culture solutions.

Moody, Keith, 1940. Ann Arbor, Mich. University Microfilms 1971. Thesis--University of Wisconsin, 1969. (iv), 136 leaves. Bibliography: leaves (119)-128. (NAL Call No.: DISS 70-3,635).

1872

Volatilization of microencapsulated and conventionally applied chlorpropham (herbicide) in the field (Soil residues, soybeans).

Turner, B.C. Glotfelty, D.E. Madison. Agronomy journal American Society of Agronomy. Nov/Dec 1978. v. 70 (6). p. 933-937. ill. 16 ref. (NAL Call No.: 4 AM34P).

1873

1980 Kansas field crop insect control recommendations.

Brooks, Leroy. Gates, Dell E. 1980. First this publication discusses some safety tips for using insecticides, then it discusses the control of insects attacking alfalfa, corn, sorghum, wheat, and soybeans. It also includes a list of the Poison Control Information Centers in Kansas. Document available from: Distribution Center, Umberger Hall, Kansas State University, Manhattan, KS 66506. 27 p. (NAL Call No.: C 431).

1874

1980 pesticide use on soybeans in the major producing states.

Hanthorn, M. Osteen, C.; McDowell, R.; Roberson, L. Washington, D.C., The Service. Extract: Farmers reported that 124.6 million pounds (a.i.) of pesticides were applied to soybeans in the major producing States during 1980. This consisted of 114.4 million pounds (a.i.) of herbicides, 8 million pounds (a.i.) of insecticides, 1.5 million pounds (a.i.) of nematocides, and 600,000 pounds (a.i.) of fungicides. Pesticide acre-treatments totaled 106.6 million and consisted of 95.5 million with herbicides, 9.3 million with insecticides, 600,000 with nematocides, and 1.2 million with fungicides. The primary herbicides were alachlor, bentazon, and trifluralin. The major insecticides were carbaryl, methomyl, and methyl parathion. Aldicarb and ethylene dibromide were the primary nematocides and benomyl was the major fungicide. ERS staff report - U.S. Dept. of Agriculture, Economic Research Service. Jan 1982. Available from NTIS. Jan 1982. (AGES820106). 32 p. 4 ref. (NAL Call No.: 916762(AGE)).

(PESTICIDES - GENERAL)

1875

1980 pesticide use on soybeans in the Mississippi Valley.

Hanthorn, M. Osteen, C.; McDowell, R.; Roberson, L. Washington, D.C., The Service. Extract: Farmers reported that 28.5 million pounds (a.i.) of pesticides were applied to soybeans in the Mississippi Valley during 1980. This consisted of 26 million pounds (a.i.) of herbicides, 2.3 million pounds (a.i.) of insecticides, 51,000 pounds (a.i.) of nematocides, and 201,000 pounds (a.i.) of fungicides. Pesticide acre-treatments totaled 31.9 million and consisted of 28.4 million with herbicides, 2.8 million with insecticides, 68,000 with nematocides, and 721,000 with fungicides. The primary herbicides were alachlor, bentazon, metribuzin, and trifluralin. The major insecticides were carbaryl, methomyl, and methyl parathion. Benomyl was the primary fungicide. ERS staff report - United States Dept. of Agriculture, Economic Research Service. Jan 1982. Available from NTIS. Jan 1982. (AGES820127). 32 p. 4 ref. (NAL Call No.: 916762(AGE)).

1876

1980 pesticide use on soybeans in the North Central States.

Hanthorn, M. Osteen, C.; McDowell, R.; Roberson, L. Washington, D.C., The Service. Extract: Farmers reported that 77.8 million pounds (a.i.) of pesticides were applied to soybeans in the North Central States during 1980. This consisted of 77.1 million pounds (a.i.) of herbicides and 700,000 pounds (a.i.) of insecticides. Pesticide acre-treatments totaled 58.1 million and consisted of 44.8 million with single material herbicides, 12.6 million with herbicide mixes, and 700,000 with insecticides. The primary herbicides were alachlor, bentazon, metribuzin, and trifluralin. The major insecticide was carbaryl. ERS staff report - United States Dept. of Agriculture, Economic Research Service. Feb 1982. Available from NTIS. Feb 1982. (AGES820209). 32 p. 4 ref. (NAL Call No.: 916762(AGE)).

1877

1980 pesticide use on soybeans in the Southeast.

Hanthorn, M. Osteen, C.; McDowell, R.; Roberson, L. Washington, D.C., The Service. Extract: Farmers reported that 18.1 million pounds active ingredient (a.i.) of pesticides were applied to soybeans in the Southeast during 1980. This consisted of 11.3 million pounds (a.i.) of herbicides, 5.1 million pounds (a.i.) of insecticides, 1.4 million pounds (a.i.) of nematocides, and 234,000 pounds (a.i.) of fungicides. Pesticide acre-treatments totaled 16.4 million and consisted of 9.7 million with herbicides, 5.8 million with insecticides, 555,000 with nematocides, and 384,000 with fungicides. The primary herbicides were alachlor, bentazon, metribuzin, and

trifluralin. The major insecticides were carbaryl and methomyl. Aldicarb and ethylene dibromide were the primary nematocides and benomyl was the major fungicide. ERS staff report - U.S. Dept. of Agriculture, Economic Research Service. Feb 1982. Available from NTIS. Feb 1982. (AGES820203). 28 p. 4 ref. (NAL Call No.: 916762(AGE)).

1878

1981 Kansas field crops insect control recommendations.

Brooks, Leroy. Gates, Dell E. 1981. First this publication discusses some safety tips for using insecticides, then it discusses the control of insects attacking alfalfa, corn, sorghum, wheat, and soybeans. It also includes a list of the Poison Control Information Centers in Kansas. Document available from: Distribution Center, Umberger Hall, Kansas State University, Manhattan, KS 66506. 28 p. (NAL Call No.: C 431).

1879

1982 weed control guide for field crops.

Barrett, Michael. Meggitt, William F. 1981. This publication has information on how to control weeds in corn, soybeans, small grains, field beans, sunflowers, potatoes, mint, sugarbeets, forages, & sorghum crops. Document available from: Michigan State University, Bulletin Office, P.O. Box 231, East Lansing, MI 48824. 35 p. (NAL Call No.: Not available at NAL.). (NAL Call No.: Ext. Bulletin E-434).

1880

2,4-D (2,4-dichlorophenoxy acetic acid) metabolism in soybean cell suspensions.

Davis, D.G. Lamoureux, G.L. Grand Forks, N.D., The Academy. Proceedings of the North Dakota Academy of Science. Apr 1981. v. 35. p. 36. (NAL Call No.: 500 N813).

SOIL SCIENCE

1881

Effects of (the root-knot nematode) *Meloidogyne incognita* on nitrogen fixation in soybean.

Baldwin, J.G. Barker, K.R. Ames, Iowa, Society of Nematologists. Journal of nematology. Apr 1979. v. 11 (2). p. 156-161. ill. 18 ref. (NAL Call No.: QL391.N4J62).

1882

Manganese concentration in soybean leaves as affected by cultivars and soil properties (Includes toxicity).

Jones, W.F. Nelson, L.E. New York, Dekker. Communications in soil science and plant analysis. 1979. v. 10 (5). p. 821-830. ill. 10 ref. (NAL Call No.: S590.C63).

SOIL BIOLOGY

1883

Description of *Hoplolaimus magnistylus* n. sp. (Nematoda: Hoplolaimidae) (found in soil about roots of soybean in Arkansas and Mississippi).
Robbins, R.T.JONEB. Ames : Society of Nematologists. Journal of nematology. Oct 1982. v. 14 (4). p. 500-506. ill. Includes references. (NAL Call No.: QL391.N4J62).

1884

Ecological impact of parathion in soybeans. II. Soil arthropod fauna (Insecticides, nontarget species, sampling, Missouri).
Hennessey, M.K.XATBA. Marston, N.L. Washington : The Department. Technical bulletin - United States Dept. of Agriculture. Dec 1982. Includes taxonomic list of soil arthropods collected. Dec 1982. (1665). p. 8-23. ill. Includes references. (NAL Call No.: 1 AG84TE).

1885

Effect of chemical soil treatment on plant growth, nitrogen fixation, and fungal colonization of *Rhizobium* nodules of soybeans (*Rhizotonia japonicum*, *Glycine max*, fungal pathogens).
Widin, K.D.PHYTA. Kennedy, B.W. St. Paul : American Phytopathological Society. Phytopathology. Mar 1983. v. 73 (3). p. 429-434. Includes references. (NAL Call No.: 464.8 P56).

1886

Effects of pyrethroid insecticide seed treatments on *Rhizobium japonicum* and its symbiotic relationship with, and growth of soybean.
Tu, C.M.JPFCD. New York : Marcel Dekker. Journal of environmental science and health. Part B. Pesticides, food contaminants, and agricultural wastes. 1983. v. 18 (3). p. 369-378. ill. Includes references. (NAL Call No.: TD172.J61).

1887

Investigation of possible abscisic acid control of nitrogen fixation in soybean nodules / by Allan James Ciha.
Ciha, Allan James. 1949. 1976. Thesis (Ph.D.)--University of Minnesota, 1976. Photocopy. Ann Arbor, Mich. : University Microfilms International, 1978. 75 leaves ; 21 cm. Bibliography: leaves 74-75. (NAL Call No.: DISS 77-12,793).

1888

Parasitic and mutualistic associations between a mycorrhizal fungus and soybean: development of the host plant.
Bethlenfalvay, G.J. Brown, M.S.; Pacovsky, R.S. St. Paul, American Phytopathological Society. Phytopathology. July 1982. v. 72 (7). p. 889-893. ill. 26 ref. (NAL Call No.: 464.8 P56).

1889

Phenotypic thermal stability of rhizobitoxine-induced chlorosis and the nodulation controlling gene, *rj* (*Soybeans*, *Rhizobium japonicum*).
Devine, T.E. AR-BARC. Breithaupt, B.H. Madison, Wis., Crop Science Society of America. Crop science. May/June 1980. v. 20 (3). p. 394-396. ill. 10 ref. (NAL Call No.: 64.8 C883).

1890

Response of soybeans and soybean pathogens to soil fumigation and foliar fungicide sprays.
Kittle, D.R. Gray, L.E. St. Paul, Minn., American Phytopathological Society. Plant disease. Mar 1982. v. 66 c (3). p. 213-215. Includes 20 ref. (NAL Call No.: 1.9 P69P).

SOIL CHEMISTRY AND PHYSICS

1891

Annual progress report - 1980 / Iowa State University.

Document available from: Iowa State University, Publications Distribution, Printing & Publications Bldg., Ames, Iowa 50011 1980. This publication is a progress report and should not be considered conclusive. The topics covered are soil moisture report, K fertilization for corn and soybeans, sunflower populations, conservation tillage, crop disease trap plots, corn herbicides, spring wheat variety demonstration, musk thistle control, grain sorghum trial, and small grain selection. 17 p. : ill. (NAL Call No.: Document available from source.). (NAL Call No.: ORC 80-10).

1892

Annual progress report - 1980 / Iowa State University.

Document available from: Iowa State University, Publications Distribution, Printing & Publications Bldg., Ames, Iowa 50011 1981. This publication is a progress report in the following areas: soil moisture, corn and soybean herbicides, delayed planting of soybeans, plant populations for sunflowers, rock phosphate and superphosphate comparison, rates of N and P fertilizers, brown stem rot, tillage observations, seedbed preparations for corn and soybean, and crop variety research. 25 p. : ill. (NAL Call No.: Document available from source.). (NAL Call No.: ORC 80-29).

1893

Chlorobiphenyl movement from soil to soybean plants.

Fries, G.F. Marrow, G.S. Washington, D.C., American Chemical Society. Journal of agricultural and food chemistry. July/Aug 1981. v. 29 (4). p. 757-759. 11 ref. (NAL Call No.: 381 J8223).

1894

A comparative study of soil solution chemistry associated with chlorotic and nonchlorotic soybeans in western Minnesota (Iron nutritional status).

Inskeep, W.P. Bloom, P.R. New York, N.Y. : Marcel Dekker. Journal of plant nutrition. 1984. Presented at the "Second International Symposium on Iron Nutrition and Interactions in Plants," August 2-5, 1983, Utah State University, Logan. v. 7 (1/5). p. 513-531. ill., maps. Includes references. (NAL Call No.: QK867.J67).

1895

The effect of sprinkler irrigation on herbicide efficacy, distribution, and penetration in some Coastal Plain soils (Applied on corn, peanuts and soybeans, weed control, southwest Georgia). Dowler, C.C.GARRA. Rohde, W.A.; Fetzer, L.E.; Scott, D.E. Sr.; Sklany, T.E. Athens : The Stations. Research report - University of Georgia, College of Agriculture, Experiment Stations. Aug 1982. Aug 1982. (281). 27 p. ill. Includes references. (NAL Call No.: S51.E22).

1896

Effects of soil water content on pendimethalin dissipation (Oryza sativa, Glycine max, herbicide).

Barrett, M.R.JEVQA. Lavy, T.L. Madison : American Society of Agronomy. Journal of environmental quality. Oct/Dec 1983. v. 12 (4). p. 504-508. Includes references. (NAL Call No.: QH540.J6).

1897

The effects of vesicular-arbuscular mycorrhizae on uptake of Sr 90 by soybeans and on growth and phosphorus content of three agronomic crops / by Nelroy Evan Jackson.

Jackson, Nelroy Evan, 1942. 1970. Thesis (Ph.D.)--Ohio State University, 1970. Photocopy. Ann Arbor, Mich. : University Microfilms, 1971. viii, 59 leaves ; 21 cm. Bibliography: leaves 58-59. (NAL Call No.: DISS 71-18,026).

1898

Soybean emergence from field seedbed environments (Soil penetration resistance, different planter and drill press-wheel tires, fungicide seed treatment).

Hummel, J.W. Gray, L.E.; Nave, W.R. St. Joseph, Mich., The Society. Transactions of the ASAE - American Society of Agricultural Engineers. July/Aug 1981. v. 24 (4). p. 872-879. ill. 9 ref. (NAL Call No.: 290.9 AM32T).

SOIL FERTILITY - FERTILIZERS

1899

Annual progress report - 1980 / Iowa State University.

Document available from: Iowa State University, Publications Distribution, Printing & Publications Bldg., Ames, Iowa 50011 1980. This publication is a progress report and should not be considered conclusive. The topics covered are soil moisture report, K fertilization for corn and soybeans, sunflower populations, conservation tillage, crop disease trap plots, corn herbicides, spring wheat variety demonstration, musk thistle control, grain sorghum trial, and small grain selection. 17 p. : ill. (NAL Call No.: Document available from source.). (NAL Call No.: ORC 80-10).

1900

Annual progress report-1980 / Iowa State University.

Document available from: Iowa State University, Publications Distribution, Printing & Publications Bldg., Ames, Iowa 50011 1981. This publication discusses the research center experiments on tiling methods, time of planting corn, S and Zn fertilizers, fuel and time requirements for tillage system, organic and chemical farming, soybean bacterial tan spot loss, and pasture nutrient losses. Herbicide evaluation and crop variety tests are included. 19 p. : ill. (NAL Call No.: Document available from source.). (NAL Call No.: ORC 80-13).

1901

Diffusion of selected herbicides in water and in soil to soybeans / by H. Don Scott.

Scott, H. Don (Hubert Donovan), 1944. 1971. Thesis (Ph.D.)--University of Kentucky, 1971. Photocopy of typescript. Ann Arbor: University Microfilms, 1972. xiv, 215 leaves ; 21 cm. Bibliography: leaves 203-215. (NAL Call No.: DISS 72-21,483).

1902

Effect of fertilizer-N and herbicides on the growth and N (nitrogen) content of soybeans and cowpeas.

Behran, S. Maftoun, M. Madison. Agronomy journal American Society of Agronomy. July/Aug 1979. v. 71 (4). p. 533-538. ill. 28 ref. (NAL Call No.: 4 AM34P).

1903

Effect of nitrogen fertilization on abundance of the bean leaf beetle (*Cerotoma trifurcata*) in soybean.

Burleigh, J.G. Katayama, R.W.; Hubbard, L. Fayetteville, Ark., The Station. Arkansas farm research - Arkansas Agricultural Experiment Station. Nov/Dec 1980. v. 29 (6). p. 5. (NAL Call No.: 100 AR42F).

1904

Evaluation of the need for copper with several soil extractants (Deficiencies, critical levels, soybeans, Glycine max, corn, Zea mays, wheat, Triticum aestivum, soils from the Atlantic Coastal Plain, North Carolina). Makarim, A.K.AGUOA. Cox, F.R. Madison : American Society of Agronomy. Agronomy journal. May/June 1983. v. 75 (3). p. 493-496. Includes references. (NAL Call No.: 4 AM34P).

1905

Improving the field production environment for soybeans (Cultivation practices, application of fertilizers, crop protection from weeds, insects and diseases).

Lam-Sanchez, A. Champaign, Ill., The Society. Journal of the American Oil Chemists' Society. Mar 1981. v. 58 (3). p. 128-130. Includes 15 ref. (NAL Call No.: 307.8 J82).

SOIL RESOURCES AND MANAGEMENT

1906

Tillage systems for Illinois (Includes pest and disease control for maize, soybeans, wheat).
Siemens, J.C. Shurtleff, M.C. Urbana, Ill., The Service. Circular. Illinois. University.
Cooperative Extension Service. June 1979. June 1979. (1172). 22 p. ill. 1 ref. (NAL Call No.: 275.29 IL62C).

SOIL CULTIVATION

1907

Annual progress report - 1980 / Iowa State University.

Document available from: Iowa State University, Publications Distribution, Printing & Publications Bldg., Ames, Iowa 50011 1981. This publication is a progress report in the following areas: soil moisture, corn and soybean herbicides, delayed planting of soybeans, plant populations for sunflowers, rock phosphate and superphosphate comparison, rates of N and P fertilizers, brown stem rot, tillage observations, seedbed preparations for corn and soybean, and crop variety research. 25 p. : ill. (NAL Call No.: Document available from source.).(NAL Call No.: ORC 80-29).

1908

Crop production as related to irrigation for several crops at different locations: Soybean evapotranspiration and yield response to growth stage water deficits (Glycine max, irrigation timing, stress, Colorado).

Hanks, R.J. Danielson, R.E.; Pruitt, W.O.; Martin, P.E. Logan : The Station. Research report - Utah Agricultural Experiment Station. 1982. 1982. (65). p. 344-367. ill. 11 ref. (NAL Call No.: S1.U7).

1909

Double cropping winter wheat and soybeans in Indiana.

Swearingin, Marvin L. Bauman, Thomas T.; Robbins, Paul R.; Edwards, Richard.; Doster, D. Howard.; Parsons, Samuel D. 1979. This publication extensively covers double cropping winter wheat and soybeans in Indiana. The contents of the article covers an overview of double cropping in Indiana. Management suggestions for no-till double cropping, profit potential of double cropping wheat and soybean, weed control in double cropping, insect control, along with harvesting and drying high moisture wheat. Document available from: Mailing Room, Ag. Administration Bldg., Purdue University, West Lafayette, IN 47907. 22 p. : ill. (NAL Call No.: IO-96).

1910

Effect of the soybean cyst nematode on soybean production under different management systems (Continuous cropping, 1976-1981, Mississippi).

Hartwig, E.E. Buehring, N.; Young, L.D. Mississippi State : The Station. MAFES research highlights - Mississippi Agricultural & Forestry Experiment Station. Apr 1983. v. 46 (4). p. 6-7. (NAL Call No.: 100 M69M1).

1911

Effect of three weed control regimes on no-till and tilled soybeans (Glycine max) (Conservation tillage, compacted soil).

Robinson, E.L.WEESA6. Langdale, G.W.; Stuedmann, J.A. Champaign : Weed Science Society of America. Weed science. Jan 1984. v. 32 (1). p. 17-19. Includes references. (NAL Call No.: 79.8 W41).

1912

Effects of rotations with susceptible and resistant peanuts, soybeans, and corn on inoculum efficiency of *Cylindrocladium crotalariae* on peanuts (*Arachis hypogaea*, *Glycine max*, *Zea mays*, root rot, North Carolina).

Black, M.C. Beute, M.K. St. Paul, Minn. : American Phytopathological Society. Plant disease. May 1984. v. 68 (5). p. 401-405. ill. Includes references. (NAL Call No.: 1.9 P69P).

1913

Evaluation of soil physical properties limiting soybean root development in Louisiana soils (Tillage treatments).

Selim, H.M. Wood, J.R. Jr.; Wilson, G.V.; Kingery, W.L. Baton Rouge, La., The Department. Report of projects - Louisiana Agricultural Experiment Station, Department of Agronomy. 1982. 1982. p. 170-183. ill. (NAL Call No.: 100 L936).

1914

Forage production and weed control in a double-cropping program (*Avena sativa*, *Zea mays*, *Glycine max*, *Sorghum bicolor*, Wisconsin).

Okoli, P.S.O. Orolsom, P.N.; Scholl, J.M. Madison, Wis. : American Society of Agronomy. Agronomy journal. May/June 1984. v. 76 (3). p. 363-366. Includes references. (NAL Call No.: 4 AM34P).

1915

Herbicides for 0-till corn in soybean stubble, 1979 (No-tillage systems, Illinois).

McKibben, G.E. Urbana-Champaign, Ill., Illinois Agricultural Experiment Station. DSAC - Dixon Springs Agricultural Center. Jan 1980. Jan 1980. (8). p. 57-60. Includes 1 ref. (NAL Call No.: S1.D5).

1916

Identification and evaluation of soil chemical and physical properties limiting root development in Louisiana soils (Soybeans, wheat, minimum tillage, yields).
Dabney, S.M. Baton Rouge : The Department. Report of projects - Louisiana Agricultural Experiment Station, Department of Agronomy. 1982. 1982. p. 290-299. ill. (NAL Call No.: 100 L936).

1917

Influence of maize rotations on the yield of soybean grown in Meloidogyne incognita infested soil (Root-knot nematode, cultivars, southeastern USA).
Kinloch, R.A. Ames, Iowa : Society of Nematologists. Journal of nematology. July 1983. v. 15 (3). p. 398-405. Includes references. (NAL Call No.: QL391.N4J62).

1918

No-till soybeans without herbicides (Iowa).
Thompson, D. Thompson, S. Emmaus, Pa., Rodale Press. The New farm. Sept/Oct 1982. v. 4 (6). p. 22-25. (NAL Call No.: S1.N32).

1919

Reduce tillage--but not weed control (Soybeans).
Mangold, G. St. Louis, Mo., American Soybean Association. Soybean digest. Feb 1981. v. 41 (4). p. 10-11. ill. (NAL Call No.: 60.38 S09).

1920

Soil and water management in soybean production systems (Conservation tillage, erosion control, double-cropping, no-till, strip-cropping).
Buntley, G.J. Atlanta, Potash & Phosphate Institute. Better crops with plant food. Summer 1982. v. 66. p. 3-5. (NAL Call No.: 6 B46).

1921

Tillage and weed control practices in soybeans grown on Sharkey clay soil.
Barrentine, W.L. Tupper, G.R. Mississippi State, Miss. : The Station. MAFES research highlights - Mississippi Agricultural & Forestry Experiment Station. Dec 1983. v. 46 (12). p. 1-4. ill. Includes references. (NAL Call No.: 100 M69MI).

1922

Tillage effects on weed control (Herbicides, for corn and soybean production).
Pope, R.A. Siemens, J.C.; Bode, L.E. St. Joseph, Mich. (P.O. Box 410), American Society of Agricultural Engineers, 1980. Crop production with conservation in the 80's : proceedings of the American Society of Agricultural Engineers Conference on Crop Production with Conservation in the 80's, December 1-2, 1980, Palmer House, Chicago, Illinois. p. 134-142. ill. 4 ref. (NAL Call No.: S494.5.P75C7).

1923

Use of nitrogen stress to demonstrate the effect of yield limiting factors on the yield response of soybean to narrow row systems (Glycine max, solid seeding, Ohio).
Cooper, R.L. Jeffers, D.L. Madison : American Society of Agronomy. Agronomy journal. Mar/Apr 1984. v. 76 (2). p. 257-259. Includes references. (NAL Call No.: 4 AM34P).

1924

Volunteer corn control (Weed corn in soybeans, crop rotation systems, glyphosate, Minnesota).
Pierce, R. Washington, D.C., The Service. Agricultural research - United States Agricultural Research Service. Nov 1981. v. 30 (5). p. 7. ill. (NAL Call No.: 1.98 AG84).

1925

Weed-control evaluations in no-till soybeans (Glycine max) double-cropped with rye (Secale cereale) (Georgia).
Banks, P.A. GARRA. Kvien, J.S. Athens : The Stations. Research report - University of Georgia, College of Agriculture, Experiment Stations. July 1983. July 1983. (431). 6 p. Includes references. (NAL Call No.: S51.E22).

1926

Weed control for corn and soybeans in reduced tillage systems.
Miller, G. R. Coultas, J. S. & Agricultural chemicals. Document available from: University of Minnesota, Bulletin Room, 1420 Eckles Avenue, St. Paul, Minnesota 55108 1979. Lists herbicides for corn and soybean grown in reduced tillage system. 1 sheet : ill. (NAL Call No.: Document available from source.). (NAL Call No.: Fs No.12).

(SOIL CULTIVATION)

1927

Weed control in a low-till oat (Avena sativa)-soybean (Glycine max) rotation.
Burnside, O.C.WEESA. Carlson, D.R. Champaign :
Weed Science Society of America. Weed science.
Nov 1983. v. 31 (6). p. 853-856. Includes
references. (NAL Call No.: 79.8 W41).

1928

Weed control in double cropped corn, grain sorghum, or soybeans minimum-till planted following canning peas.
Ndon, B.A. Harvey, R.G.; Scholl, J.M. Madison, Wis., American Society of Agronomy. Agronomy journal. Mar/Apr 1982. v. 74 (2). p. 266-269.
Includes 21 ref. (NAL Call No.: 4 AM34P).

1929

Whip weeds in no-till soybeans (Control).
Ehmke, V. St. Louis, Mo., American Soybean Association. Soybean digest. Apr 1981. v. 41 (6). p. 26-27. ill. (NAL Call No.: 60.38 S09).

1930

With no-tillage, hit weeds early! (Early preplant application of herbicides, maize, soybeans, Iowa).
Waukesha, Wis. : No-Till Farmer, Inc. No-till farmer. Apr 1984. Apr 1984. p. 12. ill. (NAL Call No.: S604.N6).

FORESTRY RELATED

1931

Host specificity of *Phytophthora megasperma* from Douglas fir (*Pseudotsuga menziesii*), soybean, and alfalfa.

Hamm, P.B. Hansen, E.M. St. Paul, Minn., American Phytopathological Society. *Phytopathology*. Jan 1981. v. 71 (1). p. 65-68. 20 ref. (NAL Call No.: 464.8 P56).

1932

Locust leaf miner development on soybean in Virginia (*Odontota dorsalis*).

McPherson, R.M.GENSA. Ravlin, F.W. Athens : The Society. *Journal of the Georgia Entomological Society*. Jan 1983. v. 18 (1). p. 58-60. Includes references. (NAL Call No.: QL461.G4).

1933

Responses of selected plant species to elevated carbon dioxide in the field (*Zea mays*, *Glycine max*, *Pinus taeda*, *Liquidambar styraciflua*).

Rogers, H.H.JEVQA. Bingham, G.E.; Cure, J.D.; Smith, J.M.; Surano, K.A. Madison : American Society of Agronomy. *Journal of environmental quality*. Oct/Dec 1983. v. 12 (4). p. 569-574. Includes references. (NAL Call No.: QH540.J6).

ANIMAL SCIENCE

1934

Bean leaf beetle (*Cerotoma trifurcata*): flight and dispersal behavior (Soybeans, maize).

Boiteau, G. Bradley, J.R. Jr. College Park, Md. AnnalsEntomological Society of America. Mar 15, 1979. v. 72 (2). p. 298-302. ill. 10 ref. (NAL Call No.: 420 EN82).

1935

Bean leaf beetle (*Cerotoma trifurcata*): some seasonal anatomical changes and dormancy (Soybean fields, in North Carolina).

Boiteau, G. Bradley, J.R. Jr. College Park, Md. AnnalsEntomological Society of America. Mar 15, 1979. v. 72 (2). p. 303-307. ill. 15 ref. (NAL Call No.: 420 EN82).

ENTOMOLOGY RELATED

1936

Common soybean insects of Indiana / Purdue University.

Document available from: Purdue University, Publication Mailing Room, 301 South Second Street, Lafayette, Indiana 47905 1979. Lists the common soybean insects. 1 sheet : ill. (NAL Call No.: Document available from source.). (NAL Call No.: E-85).

1937

Development of a sampling program for estimation of pupal densities of green cloverworm (Lepidoptera: Noctuidae) in soybeans and evaluation of alternative sampling procedures (Plathypena scabra).

Bechinski, E.J.EVETB. Pedigo, L.P. College Park : Entomological Society of America. Environmental entomology. Feb 1983. v. 12 (1). p. 96-100. Includes references. (NAL Call No.: QL461.E532).

1938

Diversity and abundance of aphid species associated with soybean mosaic virus in Iowa (Rhopalosiphum maidis, Macrosiphum euphorbiae).

Hammond, R.B. Pedigo, L.P. Lawrence : The Society. Journal of the Kansas Entomological Society. Oct 1982. v. 55 (4). p. 754-758. 4 ref. (NAL Call No.: 420 K13).

1939

Dynamics of insect adaptations to soybean: Impact of integrated pest management.

Kogan, M. College Park, Md., Entomological Society of America. Environmental entomology. June 1981. Paper presented at the Sixth International Congress of Plant Protection, Washington, D.C., August 1979. v. 10 (3). p. 363-371. ill. Bibliography p. 370-371. (NAL Call No.: QL461.E532).

1940

Dynamics of natural enemy populations (Natural control agents of pests of soybeans, particularly Nabis spp., Geocoris spp., Orius insidiosus, spiders, eastern United States).

Yeargan, K.V.SCSBA. Todd, J.W.; Mueller, A.J.; Yearian, W.C. Mississippi State : Mississippi Agricultural and Forestry Experiment Station. Southern cooperative series bulletin. June 1983. Regional Research Project S-74. June 1983. (285). p. 32-38. Includes references. (NAL Call No.: 100 G2950).

1941

Effect of feeding by Lema trivittata (Coleoptera: Chrysomelidae) on the growth, reproduction and competitive ability of jimsonweed (Datura stramonium) in soybeans (Abstract only).

Peterson, B.L. Dively, G.P. Beltsville, Md., The Society. Proceedings - annual meeting of the Northeastern Weed Science Society. p. 78.p. 78. (NAL Call No.: 79.9 N814).

1942

Flushing technique and sequential-count plan for green cloverworm (Lepidoptera: Noctuidae) moths in soybean (Plathypena scabra).

Pedigo, L.P.EVETB. Buntin, G.D.; Bechinski, E.J. College Park : Entomological Society of America. Environmental entomology. Dec 1982. v. 11 (6). p. 1223-1228. ill. Includes references. (NAL Call No.: QL461.E532).

1943

Immature stages of Anacamptodes herse (Schaus) (Geometridae) on soybean in Honduras.

Passoa, S. Lawrence, Kan. : The Society. Journal of the Lepidopterists' Society. 1983. v. 37 (3). p. 217-223. ill. Includes references. (NAL Call No.: 421 L554).

1944

A manual for implementing an integrated pest management program for insects in soybean / William A. Allen, Robert M. McPherson.

Allen, William A. (William Albert), 1939. Blacksburg Extension Division, Virginia Polytechnic Institute and State University 1982. Pesticide Applicator Training collection ~"July 1982.". 12 p. : ill. ; 28 cm. -. (NAL Call No.: S544.3.V8V52 no.444-016).

1945

Microspatial distribution of pupal green cloverworms, Plathypena scabra (F.) (Lepidoptera: Noctuidae), in Iowa soybean fields.

Bechinski, E.J.EVETB. Pedigo, P.L. College Park : Entomological Society of America. Environmental entomology. Feb 1983. v. 12 (1). p. 273-276. ill. Includes references. (NAL Call No.: QL461.E532).

(ENTOMOLOGY RELATED)

1946

Natural mortality of lepidopteran eggs and larvae in Missouri soybeans (*Trichoplusia ni*, *Glycine max*).

Marston, N.L. Hostetter, D.L.; Pinnell, R.E.; Dickerson, W.A.; Smith, D.B. College Park : The Society. Annals of the Entomological Society of America. Jan 1984. v. 77 (1). p. 21-28. Includes references. (NAL Call No.: 420 EN82).

1947

Partial life tables of the green cloverworm (*Lepidoptera: Noctuidae*) in soybean and a hypothesis of population dynamics in Iowa (*Plathypena scabra*).

Pedigo, L.P. EVETB. Bechinski, E.J.; Higgins, R.A. College Park : Entomological Society of America. Environmental entomology. Feb 1983. v. 12 (1). p. 186-195. Includes references. (NAL Call No.: QL461.E532).

1948

Seasonal distribution of *Trichogramma* (*Hymenoptera: Trichogrammatidae*) species associated with a Maryland soybean field (*Heliothis virescens*, biological control).

Thorpe, K.W. College Park, Md. : Entomological Society of America. Environmental entomology. Feb 1984. v. 13 (1). p. 127-132. Includes references. (NAL Call No.: QL461.E532).

1949

Soybean insect management guidelines number 1 -- corn earworms / John C. Smith and Robert M. McPherson.

Smith, John C. Blacksburg Extension Division, Virginia Polytechnic Institute and State University 1984. Pesticide Applicator Training collection ~Caption title ~"February 1984.". 2 p. : ill. ; 28 cm. -. (NAL Call No.: S544.3.V8V52 no.444-041 1984).

1950

Soybean insect management guidelines number 2 - Mexican bean beetles / Robert M. McPherson and John C. Smith.

McPherson, Robert M. Blacksburg Extension Division, Virginia Polytechnic Institute and State University 1984. Pesticide Applicator Training collection ~Caption title ~"February 1984.". 2 p. : ill. ; 28 cm. -. (NAL Call No.: S544.3.V8V52 no.444-042 1984).

1951

Soybean insect management guidelines number 3 - stink bugs / Robert M. McPherson and John C. Smith.

McPherson, Robert M. Blacksburg Extension Division, Virginia Polytechnic Institute and State University 1983. Pesticide Applicator Training collection ~Caption title ~"August 1983.". 2 p. : ill. ; 28 cm. -. (NAL Call No.: S544.3.V8V52 no.444-043).

1952

Soybean insect management guidelines, number 4 -- bean leaf beetles / Robert M. McPherson.

McPherson, Robert M. Blacksburg Extension Division, Virginia Polytechnic Institute and State University 1984. Pesticide Applicator Training collection ~Caption title ~"February 1984.". 2 p. : ill. ; 28 cm. -. (NAL Call No.: S544.3.V8V52 no.444-044).

1953

Soybean insect management guidelines number 5 - green cloverworms / Robert M. McPherson.

McPherson, Robert M. Blacksburg Extension Division, Virginia Polytechnic Institute and State University 1983. Pesticide Applicator Training collection ~Caption title ~"May 1983.". 2 p. : ill. ; 28 cm. -. (NAL Call No.: S544.3.V8V52 no.444-045).

1954

Soybean insect management guidelines, number 6 -- Spider mites / John C. Smith and Robert M. McPherson.

Smith, John C. Blacksburg Extension Division, Virginia Polytechnic Institute and State University 1984. Pesticide Applicator Training collection ~Caption title ~"February 1984.". 2 p. : ill. ; 28 cm. -. (NAL Call No.: S544.3.V8V52 no.444-046).

1955

Soybean insect management guidelines number 7 - natural enemies / Holly J. Ferguson and Robert M. McPherson.

Ferguson, Holly J. Blacksburg Extension Division, Virginia Polytechnic Institute and State University 1983. Pesticide Applicator Training collection ~Caption title ~"May 1983.". 2 p. : ill. ; 28 cm. -. (NAL Call No.: S544.3.V8V52 no.444-047).

1956

Soybean insect management guidelines, number 8

-- Trap crops / Robert M. McPherson.

McPherson, Robert M. Blacksburg Extension Division, Virginia Polytechnic Institute and State University 1983. Pesticide Applicator Training collection ~Caption title ~"July 1983.". 3 p. : ill. ; 28 cm. -. (NAL Call No.: S544.3.V8V52 no.444-048).

1957

Soybean insect pest management for Virginia / Robert M. McPherson and John C. Smith.

McPherson, Robert M. Blacksburg Extension Division, Virginia Polytechnic Institute and State University 1984. Pesticide Applicator Training collection ~"March 1984.". 10 p. : ill. ; 28 cm. -. (NAL Call No.: S544.3.V8V52 no.444-040 1984).

1958

Soybean insects : identification and management in Illinois / Marcos Kogan, Donald E. Kuhlman.

Kogan, Marcos. Kuhlman, Donald E. Urbana, Ill. Agricultural Experiment Station, College of Agriculture, University of Illinois at Urbana-Champaign 1982. "February, 1982". 58 p. : ill. (some col.) ; 28 cm. -. (NAL Call No.: 100 IL6S (1) no.773).

ANIMAL REPRODUCTION

1959

Effects of micrometeorological conditions on survival and fecundity of the Mexican bean beetle (*Epilachna varivestis*) in soybean fields.

Sprenkel, R.K. Rabb, R.L. College Park, Md., Entomological Society of America. Environmental entomology. Apr 1981. v. 10 (2). p. 219-221. 8 ref. (NAL Call No.: QL461.E532).

ANIMAL ECOLOGY

1960

Development of a sampling program for estimation of pupal densities of green cloverworm (Lepidoptera: Noctuidae) in soybeans and evaluation of alternative sampling procedures (*Plathypena scabra*).
Bechinski, E.J.EVETB. Pedigo, L.P. College Park : Entomological Society of America. Environmental entomology. Feb 1983. v. 12 (1). p. 96-100. Includes references. (NAL Call No.: QL461.E532).

1961

Dynamics of insect adaptations to soybean: Impact of integrated pest management.
Kogan, M. College Park, Md., Entomological Society of America. Environmental entomology. June 1981. Paper presented at the Sixth International Congress of Plant Protection, Washington, D.C., August 1979. v. 10 (3). p. 363-371. ill. Bibliography p. 370-371. (NAL Call No.: QL461.E532).

1962

Dynamics of natural enemy populations (Natural control agents of pests of soybeans, particularly *Nabis* spp., *Geocoris* spp., *Orius insidiosus*, spiders, eastern United States).
Yeargan, K.V.SCSBA. Todd, J.W.; Mueller, A.J.; Yearian, W.C. Mississippi State : Mississippi Agricultural and Forestry Experiment Station. Southern cooperative series bulletin. June 1983. Regional Research Project S-74. June 1983. (285). p. 32-38. Includes references. (NAL Call No.: 100 G29S0).

1963

Ecological impact of parathion in soybeans. I. Vegetative fauna. (Predatory arthropods, detrimental effects, insecticides, *Plathypena scabra*, natural control, Missouri field experiments).
Marston, N.L.XATBA. Hennessey, M.K. Washington : The Department. Technical bulletin - United States Dept. of Agriculture. Dec 1982. Dec 1982. (1665). p. 1-7. ill. Includes references. (NAL Call No.: 1 AG84TE).

1964

Ecological impact of parathion in soybeans (Insecticides, adverse effects, natural control, predatory arthropods).
Washington : The Department. Technical bulletin - United States Dept. of Agriculture. Dec 1982. Dec 1982. (1665). 23 p. ill. Includes references. (NAL Call No.: 1 AG84TE).

1965

Effects of cultural practices on natural enemies (Beneficial arthropod dynamics in soybean, role of plant phenology, pest control implications).
Mayse, M.SCSBA. Pitre, H.N.; Whitcomb, W. Mississippi State : Mississippi Agricultural and Forestry Experiment Station. Southern cooperative series bulletin. June 1983. Regional Research Project S-74. June 1983. (285). p. 49-55. Includes references. (NAL Call No.: 100 G29S0).

1966

Effects of micrometeorological conditions on survival and fecundity of the Mexican bean beetle (*Epilachna varivestis*) in soybean fields.
Sprenkel, R.K. Rabb, R.L. College Park, Md., Entomological Society of America. Environmental entomology. Apr 1981. v. 10 (2). p. 219-221. 8 ref. (NAL Call No.: QL461.E532).

1967

Establishment of infestation and behavior of *Heliothis zea* on soybeans in the greenhouse.
Pitre, H.N. Hillhouse, T.L. Athens, Ga., The Society. Journal of the Georgia Entomological Society. Jan 1981. v. 16 (1). p. 28-34. 17 ref. (NAL Call No.: QL461.G4).

1968

Flushing technique and sequential-count plan for green cloverworm (Lepidoptera: Noctuidae) moths in soybean (*Plathypena scabra*).
Pedigo, L.P.EVETB. Buntin, G.D.; Bechinski, E.J. College Park : Entomological Society of America. Environmental entomology. Dec 1982. v. 11 (6). p. 1223-1228. ill. Includes references. (NAL Call No.: QL461.E532).

1969

Microspatial distribution of pupal green cloverworms, *Plathypena scabra* (F.) (Lepidoptera: Noctuidae), in Iowa soybean fields.
Bechinski, E.J.EVETB. Pedigo, P.L. College Park : Entomological Society of America. Environmental entomology. Feb 1983. v. 12 (1). p. 273-276. ill. Includes references. (NAL Call No.: QL461.E532).

(ANIMAL ECOLOGY)

1970

Natural mortality of lepidopteran eggs and larvae in Missouri soybeans (*Trichoplusia ni*, *Glycine max*).

Marston, N.L. Hostetter, D.L.; Pinnell, R.E.; Dickerson, W.A.; Smith, D.B. College Park : The Society. Annals of the Entomological Society of America. Jan 1984. v. 77 (1). p. 21-28. Includes references. (NAL Call No.: 420 EN82).

1971

Partial life tables of the green cloverworm (Lepidoptera: Noctuidae) in soybean and a hypothesis of population dynamics in Iowa (*Plathypena scabra*).

Pedigo, L.P. EVETB. Bechinski, E.J.; Higgins, R.A. College Park : Entomological Society of America. Environmental entomology. Feb 1983. v. 12 (1). p. 186-195. Includes references. (NAL Call No.: QL461.E532).

1972

Quantitative assessment of the predators of *Nezara viridula* eggs and nymphs within a soybean agroecosystem using an ELISA (enzyme linked immunosorbent assay, Natural control).

Ragsdale, D.W. Larson, A.D.; Newsom, L.D. College Park, Md., Entomological Society of America. Environmental entomology. June 1981. v. 10 (3). p. 402-405. 10 ref. (NAL Call No.: QL461.E532).

1973

Seasonal distribution of *Trichogramma* (Hymenoptera: Trichogrammatidae) species associated with a Maryland soybean field (*Heliothis virescens*, biological control).

Thorpe, K.W. College Park, Md. : Entomological Society of America. Environmental entomology. Feb 1984. v. 13 (1). p. 127-132. Includes references. (NAL Call No.: QL461.E532).

ANIMAL NUTRITION

1974

Effect of feeding by *Lema trivittata*
(Coleoptera: Chrysomelidae) on the growth,
reproduction and competitive ability of
jimsonweed (*Datura stramonium*) in soybeans
(Abstract only).

Peterson, B.L. Dively, G.P. Beltsville, Md.,
The Society. Proceedings - annual meeting of
the Northeastern Weed Science
Society. Northeastern Weed Science Society. p.
78.p. 78. (NAL Call No.: 79.9 N814).

ANIMAL TAXONOMY AND GEOGRAPHY

1975

Common soybean insects of Indiana / Purdue University.

Document available from: Purdue University, Publication Mailing Room, 301 South Second Street, Lafayette, Indiana 47905 1979. Lists the common soybean insects. 1 sheet : ill. (NAL Call No.: Document available from source.)(NAL Call No.: E-85).

1976

Immature stages of *Anacamptodes herse* (Schaus) (Geometridae) on soybean in Honduras.

Passoa, S. Lawrence, Kan. : The Society. Journal of the Lepidopterists' Society. 1983. v. 37 (3). p. 217-223. ill. Includes references. (NAL Call No.: 421 L554).

1977

Soybean insects : identification and management in Illinois / Marcos Kogan, Donald E. Kuhlman.

Kogan, Marcos. Kuhlman, Donald E. Urbana, Ill. Agricultural Experiment Station, College of Agriculture, University of Illinois at Urbana-Champaign 1982. "February, 1982". 58 p. : ill. (some col.) ; 28 cm. -. (NAL Call No.: 100 IL6S (1) no.773).

VETERINARY PHARMACOLOGY, TOXICOLOGY AND IMMUNE THERAPEUTIC AGENTS

1978

Enzyme immunoassay and fluoroimmunoassay for the herbicide diclofop-methyl (Residue analysis of pesticides, quantification in soil, urine, serum, wheat, soybeans, sugar beets).

Schwalbe, M. Dorn, E.; Beyermann, K.

Washington, D.C. : American Chemical Society.

Journal of agricultural and food chemistry.

July/Aug 1984. v. 32 (4). p. 734-741. ill.

Includes 17 references. (NAL Call No.: 381

J8223).

PESTS OF ANIMALS - GENERAL AND MISC.

1978

Browsing deer feed on early bean growth (Damage to soybeans).

Humphries, B. NC. Raleigh, The Station.
Research and farming - North Carolina
Agricultural Research Service. North Carolina.
Agricultural Experiment Station. Winter/Spring
1979. v. 37 (3/4). p. 7. ill. (NAL Call No.:
100 N81R).

1980

Pesticide applicator certification.

(United States? s.n.) 1982. Pesticide
Applicator Training Collection ~Title from
container ~Beta format. 4 videocassettes (ca.
60 min. each) : sd., col. ; 1/2 in. (NAL Call
No.: Videocassette no.5).

PEST OF ANIMALS - INSECTS

1981

Corn silk volatiles attract many pest species of moths (European corn borer, soybean looper, tarnished plant bug, *Cisseps fulvicollis*, and forage looper).

Cantelo, W.W. AR-BARC. Jacobson, M. New York, Marcel Dekker. Journal of environmental science and health. Part A: Environmental science and engineering. 1979. v. A14 (8). p. 695-707. ill. 19 ref. (NAL Call No.: TD172.J6).

1982

Effect of soybean trypsin inhibitor-loaded erythrocytes on fecundity and midgut protease and hemolysis of stable flies (*Stomoxys calcitrans*).

Deloach, J.R. Spates, G.E. College Park, Md., Entomological Society of America. Journal of economic entomology. Aug 1980. v. 73 (4). p. 590-594. 13 ref. (NAL Call No.: 421 J822).

1983

A six-year population survey of eye gnats (*Hippelates pusio* Loew, Diptera:Chloropidae) at a large soybean farm in northern Bay County, Florida.

Floore, T.G. Ruff, J.P. Ft. Myers, Fla. : The Association. Proceedings of the Florida Anti-Mosquito Association. 1982. v. 53 (1). p. 27-30. ill. Includes references. (NAL Call No.: 420 F663).

1984

Socio-economic factors relating to the IFA (Imported Fire Ant) and its management (*Solenopsis*, pests of livestock, fruits, vegetables, hay, soybeans, agricultural losses).

Headley, J.C. Aspelin, A.; Adams, C.T.; Brooks, T.; Brown, R.E. (Washington, D.C.?) : U.S. Dept. of Agriculture, APHIS. 1982. Proceedings of the Symposium on the Imported Fire Ant, June 7-10, 1982, Atlanta American Hotel, Atlanta, Georgia / editor S.L. Battenfield. p. 41-50.5. Includes references. (NAL Call No.: SB945.F535S9 1982).

PEST OF ANIMALS - HELMINTHS

1985

Soybean cyst nematode.

Johnson, H. G. MacDonald, D. H. & Plant pathology fact sheet. Document available from: University of Minnesota, Bulletin Room, 1420 Eckles Avenue, St. Paul, Minnesota 55108 1980. Includes field symptoms, verification, infestation, development and control for soybean cyst nematode. 1 sheet : ill. (NAL Call No.: Document available from source.)(NAL Call No.: FS No.35).

ANIMAL DISORDERS - PHYSICAL TRAUMA

1986

Black nightshade (*Solanum nigrum* L.) (Poisonous to livestock, weed of soybeans, chemical control).

Fawatt, R.S. Jennings, V.M. Champaign, Ill.
Weeds today. Spring 1979. v. 10 (2). p. 21.
Ill. (NAL Call No.: SB610.W4).

FARM EQUIPMENT

1987

Applicators tested for soybean herbicide control.

Lang, R. NE. Furrer, J.D. Lincoln, The Station. Farm, ranch and home quarterly. Nebraska. Agricultural Experiment Station. Winter 1980. v. 26 (4). p. 12-13. ill. (NAL Call No.: 100 N27N).

1993

Storability of harvest-damaged soybeans.

Paulsen, M.R. Nave, W.R.; Mounts, T.L.; Gray, L.E. St. Joseph, Mich., The Society. Transactions of the ASAE - American Society of Agricultural Engineers. Nov/Dec 1981. v. 24 (6). p. 1583-1589. ill. 16 ref. (NAL Call No.: 290.9 AM32T).

1988

New machine paves way for three trip crop (Herbicides, cotton, soybeans).

Garner, T.H. Memphis, Tenn., Meister. Cotton. International edition. 1981. 1981. p. 70, 72. ill. (NAL Call No.: 72.8 C82141).

1989

Recirculating (herbicide) sprayers (Control of weeds in soybeans).

Gebhardt, M.R. Champaign, Ill. Weeds today. Spring 1979. v. 10 (2). p. 18-20. ill. (NAL Call No.: SB610.W4).

1990

Soybean emergence from field seedbed environments (Soil penetration resistance, different planter and drill press-wheel tires, fungicide seed treatment).

Hummel, J.W. Gray, L.E.; Nave, W.R. St. Joseph, Mich., The Society. Transactions of the ASAE - American Society of Agricultural Engineers. July/Aug 1981. v. 24 (4). p. 872-879. ill. 9 ref. (NAL Call No.: 290.9 AM32T).

1991

Soybean seed quality as affected by impact damage (Mechanical damage during harvesting and handling).

Paulsen, M.R. Nave, W.R.; Gray, L.E. St. Joseph, Mich., The Society. Transactions of the ASAE - American Society of Agricultural Engineers. Nov/Dec 1981. v. 24 (6). p. 1577-1582, 1589. ill. 10 ref. (NAL Call No.: 290.9 AM32T).

1992

Soybean seed quality (damage) as affected by planter meters.

Nave, W.R. Paulsen, M.R. St. Joseph, Mich., The Society. Transactions of the ASAE American Society of Agricultural Engineers. July/Aug 1979. v. 22 (4). p. 739-745. ill. 9 ref. (NAL Call No.: 290.9 AM32T).

NATURAL RESOURCES

1994

18 (4). p. 259-264. ill. 19 ref. (NAL Call No.: TD172.E52).

Differential responses of plant foliage (Tradescantia sp., Pteridium aquilinum, Quercus palustris, and soybeans) to simulated acid rain (Air pollutants, adverse effects).

Evans, L.S. Curry, T.M. Columbus, Ohio, Botanical Society of America. American journal of botany. Sept 1979. v. 66 (8). p. 953-962. ill. 21 ref. (NAL Call No.: 450 AM36).

1995

Effects of air pollutants (carbon monoxide, nitrogen dioxide and sulphur dioxide) on seed germinability (cocklebur (Xanthium pennsylvanicum), pigweed (Amaranthus retroflexus), wild mustard (Brassica kaber), giant ragweed (Ambrosia trifida) and soybean (Glycine max)).

Chakrabarti, A.G. New York. Bulletin of environmental contamination and toxicology. Apr 1979. v. 21 (6). p. 749-755. ill. 8 ref. (NAL Call No.: RA1270.P35A1).

1996

Effects of sulfuric acid mist on plant canopies (Corn and soybeans, injuries).

Wedding, J.B. Ligothe, M. Washington, American Chemical Society. Environmental science & technology. July 1979. v. 13 (7). p. 875-878. ill. 11 ref. (NAL Call No.: TD420.A1E5).

1997

Field assessment of air pollution-induced soybean yield losses (Ozone, photochemical oxidants).

Howell, R.K. Koch, E.J. Madison. Agronomy journal/American Society of Agronomy. Mar/Apr 1979. v. 71 (2). p. 285-288. ill. 21 ref. (NAL Call No.: 4 AM34P).

1998

Polychlorinated biphenyls: phytotoxicity, absorption and translocation by plants, and inactivation by activated carbon (Effects on soybeans and fescue).

Weber, J.B. Mrozek, E. Jr. New York, Springer Verlag. Bulletin of environmental contamination and toxicology. Oct 1979. v. 23 (3). p. 412-417. ill. 15 ref. (NAL Call No.: RA1270.P35A1).

1999

Residence time of sulphite in SO2 (sulfur dioxide) 'sensitive' and 'tolerant' soybean cultivars (Injuries, toxicity caused by pollutants).

Miller, J.E. Xerikos, P.B. Essex, Applied Science. Environmental pollution. Apr 1979. v.

WATER RESOURCES AND MANAGEMENT

2000

Leaf conductance and leaf-water potential relationships for two soybean cultivars grown under controlled irrigation.

Carlson, R.E. Momen, N.N. Madison. Agronomy journal American Society of Agronomy. Mar/Apr 1979. v. 71 (2). p. 321-325. ill. 27 ref. (NAL Call No.: 4 AM34P).

2001

Soil and water management in soybean production systems (Conservation tillage, erosion control, double-cropping, no-till, strip-cropping).

Buntley, G.J. Atlanta, Potash & Phosphate Institute. Better crops with plant food. Summer 1982. v. 66. p. 3-5. (NAL Call No.: 6 B46).

DRAINAGE AND IRRIGATION

2002

Effect of irrigation on quackgrass (*Agropyron repens*) interference in soybeans (*Glycine max*) (Leaf water potential, soil moisture, weed control, Minnesota).

Young, F.L.WEESA. Wyse, D.L.; Jones, R.U.

Champaign : Weed Science Society of America.

Weed science. Sept 1983. v. 31 (5). p. 720-727.

111. Includes references. (NAL Call No.: 79.8 W41).

FOOD STORAGE

2003

Tests on Phomopsis-infected soybean seed under controlled storage conditions.

Schoen, J.F. Schlub, P. (s.l.), The Association. The News letter of the Association of Official Seed Analysts. Sept 1980. v. 54 (3). p. 78-79. 2 ref. (NAL Call No.: 61.9 AS7N).

FOOD STORAGE, FIELD CROP

2004

The effects of temperature on longevity and vitality of soybean seeds (Storage).

Bailey, Z.E. Ames, Iowa, The Service. Soybean genetics newsletter - United States, Agricultural Research Service. Apr 1982. v. 9. p. 109-111. 111. (NAL Call No.: aSB205.S7S6).

2005

Storability of harvest-damaged soybeans.

Paulsen, M.R. Nave, W.R.; Mounts, T.L.; Gray, L.E. St. Joseph, Mich., The Society. Transactions of the ASAE - American Society of Agricultural Engineers. Nov/Dec 1981. v. 24 (6). p. 1583-1589. 111. 16 ref. (NAL Call No.: 290.9 AM32T).

FOOD COMPOSITION, FIELD CROP

2006

Inheritance of fatty acid composition in soybean seed oil (Genetic control of oil biosynthesis).

Martin, B.A. Carver, B.F.; Burton, J.W.; Wilson, R.F. Ames : The Service. Soybean genetics newsletter - United States, Agricultural Research Service. Apr 1983. v. 10. p. 89-92. Includes references. (NAL Call No.: aSB205.S7S6).

2007

The role of the Northern Regional Research Center in the development of quality control procedures for fats and oils (Soybeans, flax, history, U.S. Department of Agriculture, Agricultural Research Service, Illinois).

List, G.R. Champaign, Ill. : The Society. Journal of the American Oil Chemists' Society. June 1984. v. 61 (6). p. 1017-1022. Includes references. (NAL Call No.: 307.8 J82).

2008

Weather damage lowers quality of soybean crop.

Urbanski, G.E. IL. Wei, L.S.; Nelson, A.I. Urbana, The Station. Illinois research - Illinois Agricultural Experiment Station. Summer 1980. v. 22 (3). p. 10-11. ill. (NAL Call No.: 100 IL64).

FEED CONTAMINATION TOXICOLOGY

2008

Screening methodology for resistance to field weathering of soybean seed (Genotypes, *Phomopsis* pathogens, seed storability).
Dassou, S. Kueneman, E.A. Madison, Wis. : Crop Science Society of America. Crop science. July/Aug 1984. v. 24 (4). p. 774-779. ill.
Includes references. (NAL Call No.: 64.8 C883).

HUMAN NUTRITION

2010

Evaluation of the nutritional quality of foods with the red flour beetle (*Tribolium castaneum*). II. Evaluation of corn, wheat and processed soybean: corn preparation.

Medrano, J.F. Bressani, R. Los Altos, Calif., Geron-X. Nutrition reports international. July 1979. v. 20 (1). p. 11-24. ill. 19 ref. (NAL Call No.: RC620.A1N8).

DIET AND DIET RELATED DISEASES

2011

Competitive and allelopathic effects of sunflower (*Helianthus annuus*) (Sorghum, soybean, growth inhibition, growth reduction, interference, root exudates, controlled with herbicides).

Irons, S.M. Burnside, D.C. Champaign, Ill., Weed Science Society of America. Weed science. July 1982. v. 30 (4). p. 372-377. ill. 26 ref. (NAL Call No.: 79.8 W41).

PARASITES OF HUMANS – INSECTS AND OTHER ARTHROPODS

2012

A six-year population survey of eye gnats
(*Hippelates pusio* Loew, Diptera:Chloropidae) at
a large soybean farm in northern Bay County,
Florida.

Floore, T.G. Ruff, J.P. Ft. Myers, Fla. : The
Association. Proceedings of the Florida
Anti-Mosquito Association. 1982. v. 53 (1). p.
27-30. ill. Includes references. (NAL Call No.:
420 F663).

POLLUTION

2013

Accumulation of fluoride by the soybean

(Glycine max L. Merrill var Dare). I. Visible injury and related effects on seed yield (Hydrogen fluoride, air pollution).

Ghiasseddin, M. Hughes, J.M.; Diem, J.E.; Mason, J.W. New York, Marcel Dekker. Journal of plant nutrition. 1981. v. 3 (1/4). p. 429-440. ill. Bibliography p. 437-440. (NAL Call No.: QK867.J67).

2014

Accumulation of fluoride by the soybean

(Glycine max L. Merrill var Dare). II. Accumulation in leaves, fruit, and seeds (Hydrogen fluoride, air pollution).

Ghiasseddin, M. Hughes, J.M.; Diem, J.E.; Mason, J.W. New York, Marcel Dekker. Journal of plant nutrition. 1981. v. 3 (1/4). p. 441-456. ill. 14 ref. (NAL Call No.: QK867.J67).

2015

Chlorobiphenyl movement from soil to soybean plants.

Fries, G.F. Marrow, G.S. Washington, D.C., American Chemical Society. Journal of agricultural and food chemistry. July/Aug 1981. v. 29 (4). p. 757-759. 11 ref. (NAL Call No.: 381 J8223).

2016

Comparative toxicity of 131,596 chemicals to plant seeds (Corn, wild oats, cotton, soybean, radish).

Kenaga, E.E. New York, Academic Press. Ecotoxicology and environmental safety. Dec 1981. v. 5 (4). p. 469-475. Includes 5 ref. (NAL Call No.: QH545.A1E29).

2017

Effects of air pollutants on soybeans (Glycine max).

Miller, J.E. Arlington, Va. : Izaak Walton League of America, 1982. Effects of air pollution on farm commodities : proceedings of the symposium, Hyatt Regency Hotel, Washington, D.C., February 18, 1982. Literature review. p. 57-77. 6 p. ref. (NAL Call No.: QK751.S92 1982).

2018

Effects of chronic doses of ozone and sulfur dioxide on injury and yield on soybeans in open-top field chambers (Glycine max, air pollution stress).

Heagle, A.S. CRPSAY. Heck, W.W.; Rawlings, J.D.; Philbeck, R.B. Madison : Crop Science Society of America. Crop science. Nov/Dec 1983. v. 23

(6). p. 1184-1191. ill. Includes references. (NAL Call No.: 64.8 C883).

2019

Effects of simulated ozone and sulfur dioxide fumigations on soybeans in open-top field chambers (Air pollution).

Pratt, G.C. Pittsburgh, Pa. : Air Pollution Control Association. Proceedings ... APCA annual meeting. 1983. v. 1 (76th). p. 83-2.1/1-83-2.1/21. ill. Includes references. (NAL Call No.: TD881.A56).

2020

Foliar uptake and injury from saline aerosol (Peppers, tomato, soybeans).

Grattan, S.R. Maas, E.V.; Ogata, G. Madison, Wis., American Society of Agronomy. Journal of environmental quality. July/Sept 1981. v. 10 (3). p. 406-409. ill. 28 ref. (NAL Call No.: QH540.J6).

2021

Impact of ozone on soybean yield (Air pollution).

Kress, L.W. JEVQA. Miller, J.E. Madison : American Society of Agronomy. Journal of environmental quality. Apr/June 1983. v. 12 (2). p. 276-281. Includes references. (NAL Call No.: QH540.J6).

2022

Increased success of the Mexican bean beetle on field-grown soybeans exposed to sulfur dioxide (Glycine max, Epilachna varivestis).

Hughes, P.R. JEVQA. Dickie, A.I.; Penton, M.A. Madison : American Society of Agronomy. Journal of environmental quality. Oct/Dec 1983. v. 12 (4). p. 565-568. Includes references. (NAL Call No.: QH540.J6).

2023

Interaction of antioxidants with ozone and herbicide stress (Tested with navy beans, maize, and soybeans, includes phytotoxicity).

Rubin, B. AR-NC. Leavitt, J.R.C.; Penner, D.; Saettler, A.W. New York, Springer. Bulletin of environmental contamination and toxicology. Oct 1980. v. 25 (4). p. 623-629. 10 ref. (NAL Call No.: RA1270.P35A1).

(POLLUTION)

2024

Joint action of sulfur dioxide and nitrogen dioxide on foliar injury and stomatal behavior in soybean.

Amundson, R.G. Weinstein, L.H. Madison, Wis., American Society of Agronomy. Journal of environmental quality. Apr/June 1981. v. 10 (2). p. 204-206. ill. 12 ref. (NAL Call No.: QH540.J6).

2025

Mutagenicity of selected chemicals in soybean test systems (Includes agricultural chemicals, environmental pollutants).

Vig, B.K. Sung, R. New York, Plenum Press. Environmental science research. 1982. v. 24. p. 257-290. 40 ref. (NAL Call No.: TD172.E55).

2026

Open-air fumigation system for investigating sulfur dioxide effects on crops (Soybeans, air pollution effects).

Miller, J.E. Sprugel, D.G.; Muller, R.N.; Smith, H.J.; Xerikos, P.B. St. Paul, Minn., American Phytopathological Society. Phytopathology. Dec 1980. v. 70 (12). p. 1124-1128. ill. 14 ref. (NAL Call No.: 464.8 P56).

2027

Oxidants and acid precipitation: a method for identifying and modeling effects on United States soybean yield.

Medeiros, W.H. Moskowitz, P.D.; Coveney, E.A.; Thode, H.C. Jr. Pittsburgh, Pa. : Air Pollution Control Association. Proceedings ... APCA annual meeting. 1983. v. 1 (76th). p. 83-2.4/1-83-2.4/9. Includes references. (NAL Call No.: TD881.A56).

2028

Ozone and sulfur dioxide-induced changes in soybean growth (Air pollution, phytotoxicity).

Reinert, R.A. Weber, D.E. St. Paul, Minn., American Phytopathological Society. Phytopathology. Sept 1980. v. 70 (9). p. 914-916. 13 ref. (NAL Call No.: 464.8 P56).

2029

Plutonium contents and fluxes in a soybean crop ecosystem near a nuclear fuel chemical separations facility.

Adriano, D.C. Pinder, J.E. III; McLeod, K.W.; Corey, J.C.; Boni, A.L. Madison, Wis., American Society of Agronomy. Journal of environmental quality. July/Sept 1982. v. 11 (3). p. 506-511. ill. 12 ref. (NAL Call No.: QH540.J6).

2030

Response of chronically ozonated soybean plants to an acute ozone exposure (Glycine max, air pollution, phytotoxic component).

Johnston, J.W. Jr. Heagle, A.S. St. Paul, Minn., American Phytopathological Society. Phytopathology. Apr 1982. v. 72 (4). p. 387-389. Includes 10 ref. (NAL Call No.: 464.8 P56).

2031

Response of corn and soybeans to simulated saline aerosol drift from brackish water cooling towers.

Mulchi, C.L. Armbruster, J.A. Madison, Wis., American Society of Agronomy. Journal of environmental quality. Oct/Dec 1981. v. 10 (4). p. 541-547. Includes 21 ref. (NAL Call No.: QH540.J6).

2032

Response of corn and soybeans to soil vs. foliar-applied salts of cooling tower origin (Zea mays, Glycine max, saline aerosol, air pollution).

Armbruster, J.A. Mulchi, C.L. Madison, Wis. : American Society of Agronomy. Journal of environmental quality. Apr/June 1984. v. 13 (2). p. 278-282. Includes references. (NAL Call No.: QH540.J6).

2033

Response of soybeans to simulated acid rain in the field (Rhizobium nodulation).

Heagle, A.S. JEVQA. Philbeck, R.B.; Brewer, P.F.; Ferrell, R.E. Madison : American Society of Agronomy. Journal of environmental quality. Oct/Dec 1983. v. 12 (4). p. 538-543. ill. Includes references. (NAL Call No.: QH540.J6).

2034

Sulfur dioxide effects on yield and seed quality in field-grown soybeans.

Sprugel, D.G. Miller, J.E.; Muller, R.N.; Smith, H.J.; Xerikos, P.B. St. Paul, Minn., American Phytopathological Society. Phytopathology. Dec 1980. v. 70 (12). p. 1129-1133. ill. 27 ref. (NAL Call No.: 464.8 P56).

2035

Yield reduction of soybean due to exposure to sulfur dioxide and nitrogen dioxide in combination (Air pollution).

Amundson, R.G. JEVQA. Madison : American Society of Agronomy. Journal of environmental quality. Oct/Dec 1983. v. 12 (4). p. 454-459. Includes references. (NAL Call No.: QH540.J6).

MATHEMATICS AND STATISTICS

2036

Comparison of experimental designs used to detect changes in yields of crops exposed to acidic precipitation (Glycine max, air pollution effects, statistical evaluation).
Evans, L.S.AGUDAT. Thompson, K.H. Madison : American Society of Agronomy. Agronomy journal. Jan/Feb 1984. v. 76 (1). p. 81-84. Includes references. (NAL Call No.: 4 AM34P).

2037

An economic threshold model for weeds in soybeans (Glycine max) (Herbicide application).
Marra, M.C.WEESA. Carlson, G.A. Champaign : Weed Science Society of America. Weed science. Sept 1983. v. 31 (5). p. 604-609. ill. Includes references. (NAL Call No.: 79.8 W41).

2038

Farm efficiency and insect infestation forecasts: the case of soybeans in Illinois.
Moffitt, L.J. Farnsworth, R.L.; Zavaleta, L.R.; Kogan, M. Washington, D.C. : The Service. Extract: A preposterior decision model and a scouting model are used to estimate the economic benefits of an area-wide soybean insect prediction system in Illinois. Results suggest forecast reliabilities of the insect prediction system must exceed 90 percent accuracy before grower profits increase and acres scouted by consultants decrease. Insecticide use, however, can increase or decrease over a range of forecast reliabilities because of the shift from insect consultants to an area-wide public supported insect prediction system. If risk averse behavior is assumed, growers will likely apply more insecticides and hence reduce forecast prediction benefits. ERS staff report - United States Dept. of Agriculture, Economic Research Service. Oct 1982. Available from NTIS, order no. PB83-128728. Oct 1982. (AGES821013). 31 p. Includes 15 references. (NAL Call No.: 916762(AGE)).

2039

Indiana farm-level impacts of possible Environmental Protection Agency bans on selected soybean insecticides.
Cashman, C.M. Martin, M.A.; McCarl, B.A. Lexington, Ky., Southern Agricultural Economics Assoc. Extract: The primary purpose of our study was to determine the economic impacts of a possible ban by the Environmental Protection Agency on selected soybean insecticides used by some farmers in Indiana who face periodic soybean yield losses due to insect damage. A 600-acre Indiana corn-soybean farm was analyzed by means of a linear programming model. The economic impacts of possible bans on soybean insecticides were measured in terms of changes in per-acre yields, production costs, farm income, per-acre profits, machinery and labor use, and timeliness of field operations. Yield

and related information on alternative soybean insecticides was derived from test plot data. Southern journal of agricultural economics. Dec 1980. v. 12 (2). p. 147-152. 8 ref. (NAL Call No.: HD101.S6).

2040

Modeling the impact of natural enemies on insect pests of soybean (Pest population models, agroecosystems).
Stimac, J.L.SCSBA. O'Neil, R.J. Mississippi State : Mississippi Agricultural and Forestry Experiment Station. Southern cooperative series bulletin. June 1983. Regional Research Project S-74. June 1983. (285). p. 78-87. ill. Includes references. (NAL Call No.: 100 G29S0).

2041

Potential use of response surface analyses for weed management in soybeans (Glycine max) (Weed interference, mathematical models).
Keisling, T.C. Oliver, L.R.; Crowley, R.H.; Baldwin, F.L. Champaign, Ill. : Weed Science Society of America. Weed science. July 1984. v. 32 (4). p. 552-557. ill. Includes 16 references. (NAL Call No.: 79.8 W41).

INSECT PESTS AND CONTROL, ANIMALS AND MAN

2042

Fecundity of the stable fly (*Stomoxys calcitrans*): Effect of soybean trypsin inhibitor and phospholipase A inhibitor on the fecundity.

Spates, G. College Park, Md., The Society. Annals. Entomological Society of America. Nov 1979. v. 72 (6). p. 845-849. ill. 17 ref. (NAL Call No.: 420 EN82).

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