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August 1989

The Protection of Rice, 1980-April 1989

Citations from AGRICOLA Concerning Diseases and Other Environmental Considerations

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Compiled and Edited by
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United States Department
of Agriculture
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Beltsville, Maryland 20705

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Washington, DC 20460

FOREWORD

This is the 29th volume in a series of commodity-oriented environmental bibliographies resulting from a memorandum of understanding between the U.S. Department of Agriculture, National Agricultural Library (USDA-NAL), and the U.S. 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 U.S. 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

DOUGLAS D. CAMPT, Director
Office of Pesticide Programs

INTRODUCTION

The citations in this bibliography are selected from the AGRICOLA database limited to those produced by North American authors. They cover articles or monographic publications added to the database from 1980 - April 1989.

This is the 29th bibliography in a series of commodity-oriented listings of citations from AGRICOLA jointly sponsored by the National Agricultural Library, U.S. Department of Agriculture (USDA-NAL), and the Office of Pesticide Programs, U.S. Environmental Protection Agency (EPA-OPP). Additional volumes issued recently are Plant Growth Regulators for Higher Plants, The Protection of Sugarcane and Sugar Beets, The Protection of Turf Grasses, The Protection of Hays, The Protection of Citrus, The Protection of Leaf Vegetables, The Protection of Root Vegetables, and The Protection of Corn. The 1989 volumes will include The Protection of Cotton, The Protection of Soybeans, The Protection of Wheat, The Protection of Small Fruits and Berries, The Protection of Grapes and Cherries, The Protection of Ornamental Plants, The Protection of Farm Animals, The Protection of Wildlife, and Vertebrate Pest Control.

Entries in the bibliography are subdivided into a series of section headings used in the contents of the Bibliography of Agriculture. Each item appears under every section heading assigned to the cited document. A personal author index is also included in the publication.

The U.S. Environmental Protection Agency contact for this project is Richard B. Peacock, Office of Pesticides and Toxic Substances.

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JAUPA. Lui, L.C. Almodovar-Vega, L.; Lozano, J.M. Mayaguez : University of Puerto Rico, Agricultural Experiment Station. The Journal of agriculture of the University of Puerto Rico. Oct 1986. v. 70 (4). p. 293-297. Includes references. (NAL Call No.: DNAL 8 P832J).

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AGJOAT. Akkari, K.H. Talbert, R.E.; Ferguson, J.A.; Gilmour, J.T.; Khodayari, K. Madison, Wis. : American Society of Agronomy. Agronomy Journal. Sept/Oct 1986. v. 78 (5). p. 927-929. Includes references. (NAL Call No.: DNAL 4 AM34P).

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AKFRAC. Parsch, L.D. Norman, M.D. Fayetteville, Ark. : The Station. Arkansas farm research - Arkansas Agricultural Experiment Station. Sept/Oct 1986. v. 35 (5). p. 4. (NAL Call No.: DNAL 100 AR42F).

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J.B. Penn and W.H. Brown. --. Penn, J. B. Washington, D.C. : U.S. Dept. of Agriculture, Economic Research Service, 1976. ii, 21 p. : ill. --. (NAL Call No.: DNAL Fiche S-82 no.641).

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Influence of calcium peroxide coated seed on the performance of three rice varieties (a preliminary report) (Seedling vigor, production, dry weight, yield, Louisiana).

Brandon, D.M. Leonards, W.J.; Rawls, S.M.; Simoneaux, N.J. Crowley : The Station. Annual progress report - Louisiana, Rice Experiment Station. 1982. 1982. (74th). p. 126-158. (NAL Call No.: 100 L93 (3)).

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Oelke, E.A. Albrecht, K.A. Madison, Wis., Crop Science Society of America. Crop science. Sept/Oct 1980. v. 20 (5). p. 595-598. ill. 12 ref. (NAL Call No.: 64.8 C883).

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CRPSAY. Venkateswarlu, B. Vergara, B.S.; Visperas, R.M. Madison, Wis. : Crop Science Society of America. Crop science. Nov/Dec 1987. v. 27 (6). p. 1210-1214. Includes references. (NAL Call No.: DNAL 64.8 C883).

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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)).

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Mefluidide plant growth regulator--applications in agriculture.

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Molasses distillery slops supply nitrogen and potassium fertilizer to flooded rice.

JAUPA. Vicente-Chandler, J. Abruna, F.; Lozano, J. Mayaguez : University of Puerto Rico, Agricultural Experiment Station. The Journal of agriculture of the University of Puerto Rico. Oct 1984. v. 68 (4). p. 395-403. Includes 7 references. (NAL Call No.: DNAL 8 P832J).

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Lozano, J.M. Abruna, F. Rio Piedras, The Station. Abstract: Yields of rough rice increased from 3,830 to 7,950 kg/ha when N rates were increased from 0 to 224 kg/ha in one application. Rice yields increased from 3,830 to 8,210 kg/ha when N rates were increased from 0 to 112 kg/ha, used in two applications. Yields were not increased further by heavier applications of N. The N rates from the single applications did not affect yields of a subsequently planted rice crop that received no N fertilizer. The split applications, however, did increase yields of the following crop. In another experiment, applications of more than 112 kg of N/ha sharply increased damage by blast, when the fungus was not controlled by spraying, and limited yield response to N applications. The Journal of agriculture of the University of Puerto Rico - Puerto Rico, Agricultural Experiment Station. Jan 1981. v. 65 (1). p. 35-42. ill. 18 ref. (NAL Call No.: 8 P832J).

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Nitrogen use efficiency and nitrogen-15 balances in broadcast-seeded flooded and transplanted rice.

SSSJD4. De Datta, S.K. Buresh, R.J.; Samson, M.I.; Kai-Rong, W. Madison, Wis. : The Society. Increased irrigated areas, availability of short-duration modern rices (*Oryza sativa* L.) and cost-efficient herbicides, and high labor cost have motivated Asian farmers to shift from transplanting to broadcast seeding in flooded rice. Information on fate of N in broadcast-seeded flooded rice (BSFR), however, in Asia is limited. Thus, two field experiments were conducted on a Vertic Tropaquept to evaluate efficient N management practices in BSFR using ¹⁵N-labeled fertilizers and to compare the performance of BSFR and transplanted rice (TPR) under similar N management practices. For urea, basal deep placement (DP) as supergranules and a three-split application gave the lowest mean ¹⁵N losses (4 and 11%, respectively) and highest mean grain yields (6.9 and 7.1 Mg ha⁻¹, respectively) for BSFR. Mean ¹⁵N losses from urea applied to BSFR were 20 and 18%, respectively, for the researchers' split (RS) (two-thirds basally incorporated into mud plus one-third at 5 to 7 d before panicle initiation) and the farmers' split (FS) (one-half topdressed into water at 15 d and one-half topdressed at 10 d after panicle initiation). The agronomic efficiency (kg grain per kg applied N) for 40 kg applied urea-N was 57, 43, and 28 with DP, RS, and FS, respectively. Under the same urea management practices, the mean plant recovery of ¹⁵N was greater for BSFR (47%) than for TPR (37%). This resulted in lower ¹⁵N loss for BSFR (20%) than for TPR (32%). However, total plant N accumulation was similar for BSFR (96 kg ha⁻¹) and TPR (95 kg ha⁻¹), and mean grain yields over the two experiments were not different (P = 0.05) between BSFR and TPR. Transplanted rice produced 10 kg more grain per kilogram of applied N than did BSFR, in part because mean grain yield in the absence of applied N was 0.3 Mg ha⁻¹ lower with TPR. Results suggest that considerable potential exists to increase N use efficiency and grain yield in BSFR by manipulating N fertilizer and water management practices. Soil Science Society of America journal. May/June 1988. v. 52 (3). p. 849-855. Includes references. (NAL Call No.: DNAL 56.9 S03).

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Plant growth regulator effects on rice.

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Dunand, R. Dilly, R. Crowley : The Station. Annual progress report - Louisiana, Rice Experiment Station. 1982. 1982. (74th). p. 210-213. (NAL Call No.: 100 L93 (3)).

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Projected costs and returns cotton, soybeans, rice, corn, milo and wheat, northeast Louisiana, 1986.

LAXDA. Paxton, K.W. Laverigne, D.R.; Zacharias, T.; McManus, B. Baton Rouge, La. : The Station. D.A.E. research report - Department of Agricultural Economics and Agribusiness, Louisiana State University, Louisiana Agricultural Experiment Station. Includes statistical data. Jan 1986. (645). 93 p. maps. (NAL Call No.: DNAL 100 L935).

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Red rice studies: cultural management experiment (a preliminary report) (Water management practices, seeding rates, planting dates, weed control, Louisiana).

Sonnier, E.A. Baker, J.B.; White, L.M. III. Crowley : The Station. Annual progress report - Louisiana, Rice Experiment Station. 1982. 1982.

(74th). p. 234-241. ill. (NAL Call No.: 100 L93 (3)).

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Relationship of rice grain yield, dry biomass, and leaf area index with evapotranspiration in south Florida.

Shih, S.F. Rahi, G.S.; Snyder, G.H.; Harrison, D.S. St. Joseph, Mich. : The Society. Paper - American Society of Agricultural Engineers (Microfiche collection). 1982. Paper presented at the 1982 Winter Meeting of the American Society of Agricultural Engineers. Available for purchase from: The American Society of Agricultural Engineers, Order Dept., 2950 Niles Road, St. Joseph, Michigan 49085. Telephone the Order Dept. at (616) 429-0300 for information and prices. 1982. (fiche no. 82-2597). 1 microfiche : ill. Includes references. (NAL Call No.: FICHE S-72).

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Seeding rate and row spacing effects on yield and yield components of drill-seeded rice.
AGUDAT. Jones, D.B. Snyder, G.H. Madison, Wis. : American Society of Agronomy. Agronomy journal. July/Aug 1987. v. 79 (4). p. 623-626. Includes references. (NAL Call No.: DNAL 4 AM34P).

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AGUDAT. Jones, D.B. Snyder, G.H. Madison, Wis. : American Society of Agronomy. Agronomy journal. July/Aug 1987. v. 79 (4). p. 627-629. Includes references. (NAL Call No.: DNAL 4 AM34P).

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Edling, R.J. LAXBA. Miller, B.J.; Obeten, F. Baton Rouge : The Station. Bulletin - Louisiana Agricultural Experiment Station. Apr 1983. Apr 1983. (745). 11 p. ill. Includes references. (NAL Call No.: 100 L93 (1)).

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LOAGA. McKenzie, K.S. Jodon, N.E.; Brandon, D.M.; Rush, M.C.; Robinson, J.F.; Miller, M.F. Baton Rouge, La. : The Station. Louisiana agriculture - Louisiana Agricultural Experiment Station. Fall 1984. v. 28 (1). p. 16-17. (NAL Call No.: DNAL 100 L939).

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PLANT PRODUCTION - RANGE

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PLANT BREEDING

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Cogburn, R.R. TX-AR-SO. Bollich, C.N. College Station, Tex., The Station. MP - Texas Agricultural Experiment Station. July 1980. July 1980. (1451). p. 355-358. 6 ref. (NAL Call No.: 100 T31M).

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Climatic effects on yield and yield components of rice grown in Louisiana (Solar radiation as a possible limitation, variety differences).

Williams, L.E. Dunand, R.T. Baton Rouge : The Department. Report of projects - Louisiana Agricultural Experiment Station, Department of Agronomy. 1982. 1982. p. 142-147. Includes references. (NAL Call No.: 100 L936).

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SOSCAK. App, A.A. Watanabe, I.; Ventura, T.S.; Bravo, M.; Jurey, C.D. Baltimore, Md. : Williams & Wilkins. Soil science. June 1986. v. 141 (6). p. 448-452. Includes references. (NAL Call No.: DNAL 56.8 S03).

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The effect of temperature and light on the rate of photosynthesis of 20 rice varieties and hybrids / by Donald John McDonald. -.

McDonald, Donald John, 1934-. 1971. Thesis (Ph.D.)--Texas A&M University, 1971. Photocopy. Ann Arbor, Mich. : University Microfilms, 1971. xii, 129 leaves ; 21 cm. Bibliography: leaves 123-128. (NAL Call No.: DISS 71-24,689).

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The effect of temperature regime and substrate Mn (manganese) on growth and manganese concentrations in rice (*Oryza sativa*, tolerance to manganese, cultivar screening).

Nelson, L.E. JPNUD. New York : Marcel Dekker. Journal of plant nutrition. 1982. v. 5 (10). p. 1241-1257. 13 ref. (NAL Call No.: QK867.J67).

0134

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PLDIDE. Hwang, B.K. Koh, Y.U.; Chung, H.S. St. Paul, Minn. : American Phytopathological Society. Plant disease. Nov 1987. v. 71 (11). p. 1035-1038. Includes references. (NAL Call No.: DNAL 1.9 P69P).

0135

Efficient plant regeneration from rice protoplasts through somatic embryogenesis.

Abdullah, R. Cocking, E.C.; Thompson, J.A. New York, N.Y. : Nature Pub. Co. Bio/technology. Dec 1986. v. 4 (12). p. 1087-1090. ill. Includes references. (NAL Call No.: DNAL QH442.B5).

0136

Ethylene as an indicator of salt tolerance in rice.

CRPSAY. Khan, A.A. Akbar, M.; Seshu, D.V. Madison, Wis. : Crop Science Society of America. Crop science. Nov/Dec 1987. v. 27 (6). p. 1242-1247. Includes references. (NAL Call No.: DNAL 64.8 C883).

0137

Factors that affect the relative resistance of rough rice to angoumois grain moths and lesser grain borers (*Sitotroga cerealella*, *Rhyzopertha dominica*).

Cogburn, R.R. EVETB. Bollich, C.N.; Meola, S. College Park : Entomological Society of America. Environmental entomology. June 1983. v. 12 (3). p. 936-942. ill. Includes references. (NAL Call No.: QL461.E532).

(PLANT BREEDING)

0138

Gene effects on inbreeding depression in autotetraploid maize / by James Shelby Rice. -.
Rice, James Shelby, 1944-. 1971. Thesis (Ph.D.)--University of Illinois, 1971.
Photocopy of typescript. Ann Arbor: University Microfilms, 1972. iv, 78 leaves ; 21 cm.
Bibliography: leaves 62-63. (NAL Call No.: DISS 72-12,353).

0139

Genetics of fertility restoration of WA' type cytoplasmic male sterility in rice.
CRPSAY. Govinda Raj, K. Virmani, S.S. Madison, Wis. : Crop Science Society of America.
Information on the genetics of fertility restoration in a cytoplasmic male sterility (CMS) system facilitates breeding and/or selection of restorer lines use in hybrid breeding programs involving CMS. Inheritance of fertility restoration of 'WA' type CMS in rice, (*Oryza sativa* L.) was studied utilizing two CMS lines in combination with five restorers. Each cross was used to develop a set of materials consisting of the following generations; parent lines (A, B, and R lines); (A/R) F1; (A/F1) BC1; (F1/B) BC2; and (A/R) F2. These materials were grown in the field setwise during 1985 to 1986. Results indicated that fertility restoration in all the restorers studied ('IR26', 'IR36', 'IR54', 'IR9761-19-1' and 'IR2797-105-2-2-3') was governed by two independent and dominant genes, and one of the genes appeared to be stronger in action than the other. The mode of action of the two genes varied in different CMS/restorer combinations revealing three types of interaction: epistasis with dominance (F2 ratio, 12 fertile:3 partially fertile/partially sterile:1 sterile); epistasis with recessive gene action (F2 ratio, 9:3:4); or epistasis with incomplete dominance (F2 ratio, 9:6:1). The mode of interaction of the genes of a restorer differed with the CMS line used. An allelism test involving six R lines revealed that IR26 and IR36, and IR54 and IR9761-19-1 possessed identical restorer genes; 'IR42' and IR2797-105-2-2-3 had different restorer genes. Four groups of restorers with different pairs of restorer genes were identified. Testcross observations involving parental lines in the pedigree of IR36 and IR42 revealed that 'Cina' 'Latisail', 'Tadukan', 'TN1', 'TKM 6' and (two accessions) 'PTB 18' and 'SLO 17' are the probable original sources of R genes in the two restorer lines. Crop science. Sept/Oct 1988. v. 28 (5). p. 787-792. Includes references. (NAL Call No.: DNAL 64.8 C883).

0140

Greenhouse selection for drought resistance in rice (Leaf water potential).
O'Toole, J.C. Maguling, M.A. Madison, Wis., Crop Science Society of America. Crop science. Mar/Apr 1981. v. 21 (2). p. 325-327. ill. 9 ref. (NAL Call No.: 64.8 C883).

0141

Harvest moisture effects on rice milling quality.
CAGRA. Geng, S. Williams, J.F.; Hill, J.E. Berkeley : The Station. California agriculture - California Agricultural Experiment Station. Nov/Dec 1984. v. 38 (11/12). p. 11-12. (NAL Call No.: DNAL 100 C12CAG).

0142

Influence of flood interval and cultivar on rice (*Oryza sativa*) tolerance to fenoxaprop.
WEESA6. Snipes, C.E. Street, J.E.; Boykin, D.L. Champaign, Ill. : Weed Science Society of America. Weed science. Nov 1987. v. 35 (6). p. 842-845. Includes references. (NAL Call No.: DNAL 79.8 W41).

0143

Inheritance of resistance to blast in some traditional and improved rice cultivars.
PHYTAJ. Yu, Z.H. Mackill, D.J.; Bonman, J.M. St. Paul, Minn. : American Phytopathological Society. Phytopathology. Feb 1987. v. 77 (2). p. 323-326. Includes references. (NAL Call No.: DNAL 464.8 P56).

0144

Interaction of a gibberellin-induced factor with the upstream region of an alpha-amylase gene in rice aleurone tissue.
PNASA. Ou-Lee, T.M. Turgeon, R.; Wu, R. Washington, D.C. : The Academy. Proceedings of the National Academy of Sciences of the United States of America. Sept 1988. v. 85 (17). p. 6366-6369. ill. Includes references. (NAL Call No.: DNAL 500 N21P).

0145

IRRI and the rice of life.
Cowan, J.R. Ames, Iowa : Council for Agricultural Science and Technology. Science of food and agriculture. Mar 1988. v. 6 (2). p. 8-12. ill. Includes references. (NAL Call No.: DNAL S1.S44).

0146

Management of the brown planthopper, *Nilaparvata lugens* (Homoptera: Delphacidae), with early maturing rice cultivars.
EVETEX. Heinrichs, E.A. Aquino, G.B.; Valencia, S.L.; De Sagun, S.; Arceo, M.B. College Park, Md. : Entomological Society of America. Environmental entomology. Feb 1986. v. 15 (1). p. 93-95. Includes references. (NAL Call No.: DNAL QL461.E532).

(PLANT BREEDING)

0147

Manipulating panicle transpiration resistance to increase rice spikelet fertility during flowering stage water stress.

CRPSAY. Garrity, D.P. Vidal, E.T.; O'Toole, J.C. Madison, Wis. : Crop Science Society of America. Crop science. July/Aug 1986. v. 26 (4). p. 789-795. ill. Includes references. (NAL Call No.: DNAL 64.8 C883).

0148

Mechanisms of salinity resistance in rice and their role as physiological criteria in plant breeding.

Yeo, A.R. Flowers, T.J. New York : Wiley, c1984. Salinity tolerance in plants : strategies for crop improvement / edited by Richard C. Staples, Gary H. Toenniessen. Literature review. p. 151-170. ill. Includes 42 references. (NAL Call No.: DNAL QK753.S3S24).

0149

Milling characteristics and capabilities of unreleased varieties of rice (a preliminary report) (Grain quality, yield, harvest moisture).

Miller, M.F. McKenzie, K.S.; Mowers, R.P. Crowley : The Station. Annual progress report - Louisiana, Rice Experiment Station. 1982. 1982. (74th). p. 219-223. ill. (NAL Call No.: 100 L93 (3)).

0150

Mutagenic effects of sodium azide in rice.

Awan, M.A. AR-W. Konzak, C.F.; Rutger, J.N.; Nilan, R.A. Madison, Wis., Crop Science Society of America. Crop science. Sept/Oct 1980. v. 20 (5). p. 663-668. ill. 23 ref. (NAL Call No.: 64.8 C883).

0151

Nitrogen volatilization from rice leaves. I. Effects of genotype and air temperature (Temperature stress).

Stutte, C.A. Silva, P.R.F. da. Madison, Wis., Crop Science Society of America. Crop science. July/Aug 1981. v. 21 (4). p. 596-600. 20 ref. (NAL Call No.: 64.8 C883).

0152

Occurrence of *Aphelenchoides besseyi* in Louisiana rice seed and its interaction with *Sclerotium oryzae* in selected cultivars.

JONEB. McGawley, E.C. Rush, M.C.; Hollis, J.P. Raleigh, N.C. : Society of Nematologists. Journal of nematology. Jan 1984. v. 16 (1). p. 65-68. Includes 9 references. (NAL Call No.: DNAL QL391.N4J62).

0153

Plant introductions.

Groth, D.E. Crowley : The Station. Annual progress report - Louisiana, Agricultural Experiment Station. 1984. (76th). p. 225-232. Includes 1 references. (NAL Call No.: DNAL 100 L93 (3)).

0154

Pollen shedding and combining ability for high temperature tolerance in rice (Diallel analysis, anthesis, phytotron, sterility).

Mackill, D.J. Coffman, W.R.; Rutger, J.N. Madison, Wis., Crop Science Society of America. Crop science. July/Aug 1982. v. 22 (4). p. 730-733. ill. 15 ref. (NAL Call No.: 64.8 C883).

0155

Production of commercial rice varieties resistant to herbicides effective on red rice.

Croughan, T.P. Baker, J.B.; Dunand, R.T.; Pizzolatto, M.M. Crowley : The Station. Annual progress report - Louisiana, Agricultural Experiment Station. 1984. (76th). p. 67-68. (NAL Call No.: DNAL 100 L93 (3)).

0156

Registration of 'Tebonnet' rice.

CRPSAY. Kuenzel, K.A. Johnston, T.H.; Lee, F.N.; Wells, B.R.; Henry, S.E.; Dilday, R.H. Madison, Wis. : Crop Science Society of America. Crop science. Nov/Dec 1985. v. 25 (6). p. 1126-1127. Includes 9 references. (NAL Call No.: DNAL 64.8 C883).

0157

Registration of two disease-resistant germplasm lines of rice.

CRPSAY. McKenzie, K.S. Rush, M.C.; Groth, D.E. Madison, Wis. : Crop Science Society of America. Crop science. July/Aug 1986. v. 26 (4). p. 839-840. Includes references. (NAL Call No.: DNAL 64.8 C883).

0158

Resistance to the lesser grain borer in Dawn' and Labelle' varieties of rice.

JEENAI. McGaughey, W.H. College Park, Md. : Entomological Society of America. Journal of economic entomology. Aug 1973. v. 66 (4). p. 1005. Includes references. (NAL Call No.: DNAL 421 J822).

(PLANT BREEDING)

0159

Rice insect pests and agricultural change.
Loevinsohn, M.A. Litsinger, J.A.; Heinrichs, E.A. Boulder : Westview Press, 1988. The Entomology of indigenous and naturalized systems in agriculture / edited by Marvin K. Harris and Charles E. Rogers. p. 161-182. maps. Includes references. (NAL Call No.: DNAL SB931.E57).

0160

Rice tissue culture research. Tissue culture production of commercial rice varieties resistant to herbicides effective on red rice.
Croughan, T.P. Baker, J.B.; Sonnier, E.A.; Pizzolatto, M.M. Crowley, La., The Station. Annual progress report - Louisiana, Rice Experiment Station. 1981. 1981. (73rd). p. 196-199. (NAL Call No.: 100 L93 (3)).

0161

Role of panicle exertion in water stress induced sterility (Rice, *Oryza sativa*).
D'Toole, J.C. CRPSAY. Namuco, O.S. Madison : Crop Science Society of America. Crop science. Nov/Dec 1983. v. 23 (6). p. 1093-1097. ill. Includes references. (NAL Call No.: 64.8 C883).

0162

Seeding rate and row spacing effects on yield and yield components of drill-seeded rice.
AGJOAT. Jones, D.B. Snyder, G.H. Madison, Wis. : American Society of Agronomy. Agronomy journal. July/Aug 1987. v. 79 (4). p. 623-626. Includes references. (NAL Call No.: DNAL 4 AM34P).

0163

Seeding rate and row spacing effects on yield and yield components of ratoon rice.
AGJOAT. Jones, D.B. Snyder, G.H. Madison, Wis. : American Society of Agronomy. Agronomy journal. July/Aug 1987. v. 79 (4). p. 627-629. Includes references. (NAL Call No.: DNAL 4 AM34P).

0164

Selection for heading date synchrony in wild rice.
CRPSAY. Hayes, P.M. Stucker, R.E. Madison, Wis. : Crop Science Society of America. Crop science. July/Aug 1987. v. 27 (4). p. 653-658. Includes references. (NAL Call No.: DNAL 64.8 C883).

0165

Stigma exertion in rice and its effect on the seed set of male sterile plants.
Hoff, B.J. De la Torre, M. Crowley, La., The Station. Annual progress report - Louisiana, Rice Experiment Station. 1981. 1981. (73rd). p. 240-243. (NAL Call No.: 100 L93 (3)).

0166

Susceptibility of rice planthoppers *Nilaparvata lugens* and *Sogatella furcifera* (Homoptera: Delphacidae) to insecticides as influenced by level of resistance in the host plant.
Heinrichs, E.A. Fabellar, L.T.; Basilio, R.P.; Wen, T.C.; Medrano, F. College Park, Md. : Entomological Society of America. Environmental entomology. Apr 1984. v. 13 (2). p. 455-458. Includes references. (NAL Call No.: QL461.E532).

0167

Technology and research issues.
Rutger, J.N. Davis, Calif. : Agricultural Issues Center, University of California, 1986? . Impacts of farm policy and technological change on U.S. and California agriculture / edited by Harold O. Carter. p. 206-210. Includes references. (NAL Call No.: DNAL HD1405.I46).

0168

Tetrazolium test for predicting the seedling vigor of rice at optimal and low temperatures.
CRPSAY. Sung, F.J.M. Chen, J.J. Madison, Wis. : Crop Science Society of America. The amount of formazan extracted from tetrazolium salt-treated embryos has been used to predict seedling vigor in some cereal crops. Our objective was to determine whether this technique could be used to evaluate the seedling vigor of rice (*Oryza sativa* L.) cultivars grown at different temperatures. In this study, the genetic differences in formazan production capability of the embryo and its relationship to seedling vigor, as indicated by seedling dry weight accumulation within a 7-d growing period, were examined in 21 cultivars. The results indicated that temperature treatments could play a crucial role in regulating the seedling growth response and formazan production capability in the embryo portion of the seed. Considerable variation in growth and formazan production level also existed in the rice cultivars. Seedling vigor was positively related to formazan production capability of the embryo, suggesting that the formazan extraction technique would be a simple and reliable method for screening rice cultivars for optimal and suboptimal temperature seedling vigor. Crop science. Nov/Dec 1988. v. 28 (6). p. 1012-1014. Includes references. (NAL Call No.: DNAL 64.8 C883).

0169

Tissue culture production of commercial rice varieties resistant to herbicides effective on red rice (a preliminary report) (Breeding, weed control).

Croughan, T.P. Baker, J.B.; Sonnier, E.A.; Pizzolatto, M.M. Crowley : The Station. Annual progress report - Louisiana, Rice Experiment Station. 1982. 1982. (74th). p. 32-38. (NAL Call No.: 100 L93 (3)).

0170

Tolerance of rice cultivars to iron toxicity.

JPNUDS. Fageria, N.K. Rabelo, N.A. New York, N.Y. : Marcel Dekker. Journal of plant nutrition. Apr 1987. v. 10 (6). p. 653-661. Includes references. (NAL Call No.: DNAL QK867.J67).

0171

Tolerance of rice seedlings to potassium salts (Oryza sativa, Soil salinity, phytotoxicity, cultivar resistance, Arkansas).

Baser, R.E.AKABA. Gilmour, J.T. Fayetteville : The Station. Bulletin - Arkansas, Agricultural Experiment Station. Aug 1982. Aug 1982. (860). 18 p. ill. 14 ref. (NAL Call No.: 100 AR42).

0172

Tolerances of 20 rice cultivars to excess Al and Mn (aluminum and manganese, toxicity, Oryza sativa).

Nelson, L.E.AGUOA. Madison : American Society of Agronomy. Agronomy journal. Jan/Feb 1983. v. 75 (1). p. 134-138. ill. 14 ref. (NAL Call No.: 4 AM34P).

0173

TORO-2: a new special purpose rice variety.

LOAGA. McKenzie, K.S. Jodon, N.E.; Brandon, D.M.; Rush, M.C.; Robinson, J.F.; Miller, M.F. Baton Rouge, La. : The Station. Louisiana agriculture - Louisiana Agricultural Experiment Station. Fall 1984. v. 28 (1). p. 16-17. (NAL Call No.: DNAL 100 L939).

0174

Twenty years of plant pathology at the IRRI (International Rice Research Institute).

Crill, P. St. Paul, Minn., American Phytopathological Society. Plant disease. July 1981. v. 65 (7). p. 569-574. Includes 7 ref. (NAL Call No.: 1.9 P69P).

PLANT ECOLOGY

0175

The effects of different climatic conditions between the inland and the seashore regions on growth and yield components of rice (Korea). KOREAN (USE FOR RELATED KOREAN LANGUAGES AND DIALECTS).

Chang, S.D. Suwon, The Office. The Research reports of the Office of Rural Development. Crops.Korea (Republic). Nongch'on Jin Heung Chung. Oct 1979. v. 21. p. 189-198. ill. 9 ref. (NAL Call No.: SB187.K8A3).

PLANT STRUCTURE

0176

Growth and morphological characteristics of red rice (*Oryza sativa*) biotypes.

WEESA6. Diarra, A. Smith, R.J. Jr.; Talbert, R.E. Champaign, Ill. : Weed Science Society of America. Weed science. May 1985. v. 33 (3). p. 310-314. Includes 16 references. (NAL Call No.: DNAL 79.8 W41).

0177

Ultrastructural and biochemical of endopectate lyase on cell walls from cell suspension cultures of bean and rice.

Baker, C.J. Aist, J.R.; Bateman, D.F. Ottawa, National Research Council of Canada. Canadian journal of botany. = Journal canadien de botanique. Apr 15, 1980. 58 (8). p. 867-880.. ill. 27 ref. (NAL Call No.: 470 C16C).

PLANT NUTRITION

0178

Absorption and transport of Na and Cl in rice cultivars differing in their tolerance to salinity: an examination of the effects of ammonium and potassium salts.

JPNUDS. Ramani, S. Kannan, S. New York, N.Y. : Marcel Dekker. Journal of plant nutrition. 1986. v. 9 (12). p. 1553-1564. Includes 19 references. (NAL Call No.: DNAL QK867.J67).

0179

Carbon isotope ratios demonstrate carbon flux for C4 host to C3 parasite.

PLPHA. Press, M.C. Shah, N.; Tuohy, J.H.; Stewart, G.R. Rockville, Md. : American Society of Plant Physiologists. Plant physiology. Dec 1987. v. 85 (4). p. 1143-1145. Includes references. (NAL Call No.: DNAL 450 P692).

0180

Effect of a urease inhibitor phenyl phosphorodiamidate on the efficiency of urea applied to rice.

Byrnes, B.H.SSSUD. Savant, N.K.; Craswell, E.T. Madison : The Society. Journal - Soil Science Society of America. Mar 1983. v. 47 (2). p. 270-274. ill. Includes references. (NAL Call No.: 56.9 S03).

0181

Effect of calcium and magnesium on 65zinc (isotope) absorption and translocation in rice seedlings (Oryza sativa).

Sadana, U.S.JPNUDS. Takkar, P.N. New York : Marcel Dekker. Journal of plant nutrition. 1983. v. 6 (8). p. 705-715. Includes references. (NAL Call No.: QK867.J67).

0182

The effect of different sources of P (phosphorus) and two rates of Zn (zinc) on the yield and concentration of mineral elements in the leaves of Labelle rice grown in a Crowley silt loam soil (a preliminary report) (1982, Louisiana).

Sedberry, J.E. Jr. Bligh, D.P.; Brandon, D.M.; Babcock, D.K. Crowley : The Station. Annual progress report - Louisiana, Rice Experiment Station. 1982. 1982. (74th). p. 120-123. (NAL Call No.: 100 L93 (3)).

0184

The effect of different sources of P (phosphorus) and two rates of Zn (zinc) on the yield and concentration of various elements in the leaves of Labelle rice grown on a Crowley silt loam soil (a preliminary report) (1981, Louisiana).

Sedberry, J.E. Bligh, D.P.; Brandon, D.M.; Wilson, F.E.; Babcock, D.K. Crowley : The Station. Annual progress report - Louisiana, Rice Experiment Station. 1982. 1982. (74th). p. 116-119. (NAL Call No.: 100 L93 (3)).

0183

The effect of different sources of P (phosphorus) and two rates of Zn (zinc) on the yield and concentration of various elements in the leaves of LaBelle rice grown on a Crowley silt loam soil (Louisiana).

Sedberry, J.E. Jr. Bligh, D.P.; Brandon, M.D.; Wilson, F.E.; Babcock, D.K. Baton Rouge, La., The Department. Report of projects - Louisiana Agricultural Experiment Station, Department of Agronomy. 1982. 1982. p. 73-77. (NAL Call No.: 100 L936).

0185

The effect of different sources of P (phosphorus) and two rates of Zn (zinc) on the yield and concentration of mineral elements in the leaves of LaBelle rice grown on a Crowley silt loam soil (Louisiana, interactions of fertilizers).

Sedberry, J.E. Jr. Bligh, D.P.; Brandon, M.D.; Babcock, D.K. Baton Rouge : The Department. Report of projects - Louisiana Agricultural Experiment Station, Department of Agronomy. 1982. 1982. p. 148-151. (NAL Call No.: 100 L936).

0186

The effect of nitrification inhibitors, slow release nitrogen sources, and time of urea application on nitrogen fertilizer efficiency in drill-seeded Mars rice (a preliminary report) (Denitrification loss, deficiency symptoms, Louisiana).

Brandon, D.M. Leonards, W.J.; Rawls, S.M.; Simoneaux, N.J. Crowley : The Station. Annual progress report - Louisiana, Rice Experiment Station. 1982. 1982. (74th). p. 101-107. Includes references. (NAL Call No.: 100 L93 (3)).

0187

Effect of nitrogen on pre-kharif direct seeded rice.

Samui, R.C. Maiti, B.K.; Jana, P.K. New Delhi, Indian Society of Agronomy. Indian journal of agronomy. Mar 1979. v. 24 (1). p. 77-80. ill. 3 ref. (NAL Call No.: 22 IN235).

0188

Effect of presowing soil water treatments on yield and iron nutrition of upland rice grown on calcareous Vertisol.

Ghugare, R.V. Sonar, K.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. 201-209. Includes references. (NAL Call No.: QK867.J67).

0189

The effect of redox on the solubility and availability of manganese in a calcareous soil (Rice plants).

Schwab, A.P.SSSJD. Lindsay, W.L. Madison : The Society. Journal - Soil Science Society of America. Mar 1983. v. 47 (2). p. 217-220. ill. Includes references. (NAL Call No.: 56.9 S03).

0190

The effect of temperature regime and substrate Mn (manganese) on growth and manganese concentrations in rice (Oryza sativa, tolerance to manganese, cultivar screening).

Nelson, L.E.JPNUD. New York : Marcel Dekker. Journal of plant nutrition. 1982. v. 5 (10). p. 1241-1257. 13 ref. (NAL Call No.: QK867.J67).

0191

The effects of a deficient level of nitrogen, potassium and manganese on growth, yield and nutrient content of the rice plant (Oryza sativa L.) grown under varying levels of phosphorus / by Roberto Espiritu Coronel. -. Coronel, Roberto Espiritu, 1939-. 1971. Thesis (Ph.D.)--University of California, Riverside, 1971. Photocopy. Ann Arbor, Mich. : University Microfilms, 1972. xiv, 129 leaves ; 21 cm. Bibliography: leaves 79-86. (NAL Call No.: DISS 71-27,083).

0192

Effects of lime, phosphorus, calcium silicate and rice hulls on availability of phosphorous to corn on an ultisol.

Tuisiri, B. Blue, W.G. S.I. : The Society. Proceedings - Soil and Crop Science Society of Florida. 1984. v. 43. p. 14-21. ill. Includes references. (NAL Call No.: DNAL 56.9 S032).

0193

Effects of soil acidity factors on yields and foliar composition of two rice varieties with supplementary overhead irrigation.

JAUPA. Abruna, F. Rivera, E. Mayaguez : University of Puerto Rico, Agricultural Experiment Station. The Journal of agriculture of the University of Puerto Rico. Oct 1984. v. 68 (4). p. 413-422. Includes 13 references. (NAL Call No.: DNAL 8 P832J).

0194

Effects of solution pH on the growth and chemical composition of rice plants (Oryza sativa, nutrient solution).

Alam, S.M.JPNUD. New York : Marcel Dekker. Journal of plant nutrition. 1981. Literature review. v. 4 (3). p. 247-260. 55 ref. (NAL Call No.: QK867.J67).

0195

The effects of some environmental factors on the partitioning of zinc and cadmium between roots and tops of rice plants.

Chino, M. Baba, A. New York, Marcel Dekker. Journal of plant nutrition. 1981. v. 3 (1/4). p. 203-214. 19 ref. (NAL Call No.: QK867.J67).

0196

The effects of using copper for mitigating histosol subsidence on. 4. The yield and nutrition of flooded rice grown on histosols, mineral sublayers, and their mixtures.

SOSCAK. Mathur, S.P. Levesque, M.P.; Singh, S.S. Baltimore, Md. : Williams & Wilkins. Soil science. Aug 1985. v. 140 (2). p. 133-142. Includes references. (NAL Call No.: DNAL 56.8 S03).

0197

Fate of fertilizer nitrogen in the rice root zone.

SSSJD4. Reddy, K.R. Patrick, W.H. Jr. Madison, Wis. : The Society. Soil Science Society of America journal. May/June 1986. v. 50 (3). p. 649-651. Includes references. (NAL Call No.: DNAL 56.9 S03).

0198

Interactions among ammonium, potassium, and calcium during their uptake by excised rice roots.

JPNUDS. Scherer, H.W. Leggett, J.E.; Sims, J.L.; Krasaesindhu, P. New York, N.Y. : Marcel Dekker. Journal of plant nutrition. Jan 1987. v. 10 (1). p. 67-81. Includes references. (NAL Call No.: DNAL QK867.J67).

(PLANT NUTRITION)

0199

Nitrogen uptake and growth of irrigated rice as affected by nitrogen rates.

JAUPA. Silva, S. Vicente Chandler, J. Mayaguez : University of Puerto Rico, Agricultural Experiment Station. The Journal of agriculture of the University of Puerto Rico. Oct 1984. v. 68 (4). p. 387-394. Includes 7 references. (NAL Call No.: DNAL 8 P832J).

0200

Nitrogen volatilization from rice leaves. II. Effects of source of applied nitrogen in nutrient culture solution.

Silva, P.R.F. da. Stutte, C.A. Madison, Wis., Crop Science Society of America. Crop science. Nov/Dec 1981. v. 21 (6). p. 913-916. ill. 19 ref. (NAL Call No.: 64.8 C883).

0201

Non-symbiotic nitrogen fixation in rice fields (a preliminary report) (Algae, Chara, Louisiana).

Dunigan, E.P. Brandon, M. Crowley : The Station. Annual progress report - Louisiana, Rice Experiment Station. 1982. 1982. (74th). p. 124-125. ill. (NAL Call No.: 100 L93 (3)).

0202

Non-symbiotic nitrogen fixation in rice fields (Algae, Chara, Nostoc-Anabaena type).

Dunigan, E.P. Brandon, M. Baton Rouge : The Department. Report of projects - Louisiana Agricultural Experiment Station, Department of Agronomy. 1982. 1982. p. 154-155. ill. (NAL Call No.: 100 L936).

0203

Plutonium, curium, and other radionuclide uptake by the rice plant from a naturally weathered, contaminated soil.

Adriano, D.C. McLeod, K.W.; Ciravolo, T.G. Baltimore, Williams & Wilkins. Soil science. July 1981. v. 132 (1). p. 83-88. 22 ref. (NAL Call No.: 56.8 S03).

0204

Potassium nutrition of rice.

De Datta, S.K. Mikkelsen, D.S. Madison, Wis. : American Society of Agronomy, 1985. Potassium in agriculture / Robert D. Munson, editor. Paper presented at an international symposium, 7-10 July 1985, Atlanta, Georgia.~ Literature review. p. 665-669. ill. Includes references. (NAL Call No.: DNAL S587.5.P6P68).

0205

Rice plant residue cycling in a rice field (a preliminary report) (Yield comparisons, Louisiana).

Dunigan, E.P. Brandon, M. Crowley : The Station. Annual progress report - Louisiana, Rice Experiment Station. 1982. 1982. (74th). p. 114-115. (NAL Call No.: 100 L93 (3)).

0206

Rice responses to a short-duration green manure. II. N recovery and utilization.

AGJOAT. Morris, R.A. Furoc, R.E.; Dizon, M.A. Madison, Wis. : American Society of Agronomy. Agronomy journal. May/June 1986. v. 78 (3). p. 413-416. Includes references. (NAL Call No.: DNAL 4 AM34P).

0207

Tolerance of rice cultivars to iron toxicity.

JPNUDS. Fageria, N.K. Rabelo, N.A. New York, N.Y. : Marcel Dekker. Journal of plant nutrition. Apr 1987. v. 10 (6). p. 653-661. Includes references. (NAL Call No.: DNAL QK867.J67).

0208

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JPNUDS. Ramani, S. Kannan, S. New York, N.Y. : Marcel Dekker. Journal of plant nutrition. 1986. v. 9 (12). p. 1553-1564. Includes 19 references. (NAL Call No.: DNAL QK867.J67).

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CRPSAY. Zhang, L.X. Li, P.H.; Tseng, M.J. Madison, Wis. : Crop Science Society of America. Crop science. May/June 1987. v. 27 (3). p. 531-534. Includes references. (NAL Call No.: DNAL 64.8 C883).

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AGJOAT. Counce, P.A. Madison, Wis. : American Society of Agronomy. Agronomy journal. Sept/Oct 1987. v. 79 (5). p. 864-869. Includes references. (NAL Call No.: DNAL 4 AM34P).

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0217

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PLPHA. Kutschera, U. Kende, H. Rockville, Md. : American Society of Plant Physiologists. Plant physiology. Oct 1988. v. 88 (2). p. 361-366. ill. Includes references. (NAL Call No.: DNAL 450 P692).

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PLPHA. Press, M.C. Shah, N.; Tuohy, J.H.; Stewart, G.R. Rockville, Md. : American Society of Plant Physiologists. Plant physiology. Dec 1987. v. 85 (4). p. 1143-1145. Includes references. (NAL Call No.: DNAL 450 P692).

0220

Chemical form of cadmium (and other heavy metals) in rice and wheat plants.
EVHPA. Kaneta, M. Hikichi, H.; Endo, S.; Sugiyama, N. Research Triangle Park, N.C. : National Institute of Environmental Health Sciences. E H P Environmental health perspectives. Mar 1986. v. 65. p. 33-37. Includes 13 references. (NAL Call No.: DNAL RA565.A1E54).

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PLPHA. Moll, M.A. Steinback, K.E. Rockville, Md. : American Society of Plant Physiologists. Plant physiology. Feb 1986. v. 80 (2). p. 420-423. ill. Includes 27 references. (NAL Call No.: DNAL 450 P692).

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Long, Nguyen Dang, 1937-. 1970. Thesis (Ph.D.)--Louisiana State University and Agricultural and Mechanical College, 1970. Photocopy. Ann Arbor, Mich. : University Microfilms, 1971. ix, 46 leaves ; 21 cm. Includes bibliographies. (NAL Call No.: DISS 71-3,422).

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Climatic effects on yield and yield components of rice grown in Louisiana (a preliminary report) (Varieties, grain filling characteristics).

Williams, L.E. Dunand, R.T. Crowley : The Station. Annual progress report - Louisiana, Rice Experiment Station. 1982. (74th). p. 214-218. Includes references. (NAL Call No.: 100 L93 (3)).

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Climatic effects on yield and yield components of rice grown in Louisiana (Solar radiation as a possible limitation, variety differences).

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Comparison of some crop water stress measurement methods.

CRPSAY. O'Toole, J.C. Turner, N.C.; Namuco, D.P.; Dingkuhn, M.; Gomez, K.A. Madison, Wis. : Crop Science Society of America. Crop science. Nov/Dec 1984. v. 24 (6). p. 1121-1128. Includes references. (NAL Call No.: DNAL 64.8 C883).

0226

A comparison of the submergence response of deepwater and non-deepwater rice.

PLPHA. Keith, K.A. Raskin, I.; Kende, H. Rockville, Md. : American Society of Plant Physiologists. Plant physiology. Feb 1986. v. 80 (2). p. 479-482. Includes 10 references. (NAL Call No.: DNAL 450 P692).

0227

Cool temperature seedling vigor of R2 and M2 short-stature rice (*Oryza sativa* L.) selections.

McKenzie, K.S. Croughan, T.P. Crowley : The Station. Annual progress report - Louisiana, Agricultural Experiment Station. 1984. (76th). p. 424-425. (NAL Call No.: DNAL 100 L93 (3)).

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Determination of tricyclazole and alcohol metabolite in rice grain and straw.

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CRPSAY. Yoo, I.D. Fujii, T.; Sano, Y.; Komagata, K.; Yoneyama, T.; Iyama, S.; Hirota, Y. Madison, Wis. : Crop Science Society of America. Crop science. Mar/Apr 1986. v. 26 (2). p. 297-301. Includes references. (NAL Call No.: DNAL 64.8 C883).

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Effect of anaerobiosis on ABA and IAA in rice: comparison between intact and cultured excised roots and coleoptiles.

PPGGD. Bertani, A. Pegoraro, R.; Mapelli, S. Lake Alfred, Fla. : The Society. Proceedings annual meeting - Plant Growth Regulator Society of America. 1987. (14th). p. 97-102. Includes references. (NAL Call No.: DNAL SB128.P5).

0232

The effect of different sources of P (phosphorus) and two rates of Zn (zinc) on the yield and concentration of various elements in the leaves of LaBelle rice grown on a Crowley silt loam soil (Louisiana).

Sedberry, J.E. Jr. Bligh, D.P.; Brandon, M.D.; Wilson, F.E.; Babcock, D.K. Baton Rouge, La., The Department. Report of projects - Louisiana Agricultural Experiment Station, Department of Agronomy. 1982. 1982. p. 73-77. (NAL Call No.: 100 L936).

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Effect of nitrogen nutrition and light on the chemical composition of rice phloem sap. Hayashi, H. Chino, M. New York : Alan R. Liss. Plant biology. In the series analytic: Phloem Transport / edited by J. Cronshaw, W.J. Lucas and R.T. Giaquinta. Proceedings of an International Conference, August 18-23, 1985, Asilomar, California. 1986. v. 1. p. 465-468. Includes references. (NAL Call No.: DNAL QH301.P535).

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The effect of temperature and light on the rate of photosynthesis of 20 rice varieties and hybrids / by Donald John McDonald. -. McDonald, Donald John, 1934-. 1971. Thesis (Ph.D.)--Texas A&M University, 1971. Photocopy. Ann Arbor, Mich. : University Microfilms, 1971. xii, 129 leaves ; 21 cm. Bibliography: leaves 123-128. (NAL Call No.: DISS 71-24,689).

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The effects of a deficient level of nitrogen, potassium and manganese on growth, yield and nutrient content of the rice plant (Oryza sativa L.) grown under varying levels of phosphorus / by Roberto Espiritu Coronel. -. Coronel, Roberto Espiritu, 1939-. 1971. Thesis (Ph.D.)--University of California, Riverside, 1971. Photocopy. Ann Arbor, Mich. : University Microfilms, 1972. xiv, 129 leaves ; 21 cm. Bibliography: leaves 79-86. (NAL Call No.: DISS 71-27,083).

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Effects of airborne fluoride on the fluoride content of rice and vegetables (Pollution). Sakurai, S. FLUDA. Itai, K.; Tsunoda, H. Warren : International Society for Fluoride Research. Fluoride. July 1983. v. 16 (3). p. 175-180. ill. Includes references. (NAL Call No.: QP981.F55F55).

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Effects of ammonium sulfate and urea on the growth of chlorophycean algae from rice fields. Barrett, M.R. Koch, A.R. Jr. Madison, Wis., American Society of Agronomy. Journal of environmental quality. Apr/June 1982. v. 11 (2). p. 187-191. Includes 23 ref. (NAL Call No.: QH540.U6).

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Effects of ammonium sulphate on Na/Cl uptake by rice cultivars differing in salt tolerance: experiments with soil and solution culture. JPNUDS. Kannan, S. Ramani, S. New York, N.Y. : Marcel Dekker. Journal of plant nutrition. Paper presented at the "Tenth International Plant Nutrition Colloquium", August 4-9, 1986, Beltsville, Maryland. 1987. v. 10 (9/16). p. 1795-1804. ill. Includes references. (NAL Call No.: DNAL QK867.U67).

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Effects of applications of copper and zinc on yield of saturn rice grown on Crowley soil and on chemical composition of rice-leaf tissue. Sedberry, J.E. Jr. LA. Eun, M.Y.; Wilson, F.E.; Brandon, D.M.; Bligh, D.F. Baton Rouge, The Department. Report of projects - Louisiana Agricultural Experiment Station, Department of Agronomy. Louisiana. Agricultural Experiment Station. Dept. of Agronomy. 1979. 1979. p. 69-71. ill. (NAL Call No.: 100 L936).

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The effects of moisture adsorption on the tensile strength of rice / by Mohammad Shahansha-ud-Din Choudhury. -. Choudhury, Mohammad Shahansha-ud-Din, 1937-. 1970. Thesis (Ph.D.)--Texas A&M University, 1970. Photocopy. Ann Arbor, Mich. : University Microfilms, 1971. xv, 107 leaves : ill. ; 21 cm. Bibliography: leaves 98-103. (NAL Call No.: DISS 70-16,717).

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Effects of O₂ (oxygen) concentration on rice seedlings (Oryza sativa). Alpi, A. PLPHA. Beevers, H. Rockville : American Society of Plant Physiologists. Plant physiology. Jan 1983. v. 71 (1). p. 30-34. 36 ref. (NAL Call No.: 450 P692).

0243

Effects of seedling method and time of fertilization on urea-nitrogen-15 recovery in rice.

AGJOAT. Westcott, M.P. Brandon, D.M.; Lindau, C.W.; Patrick, W.H. Jr. Madison, Wis. : American Society of Agronomy. Agronomy journal. May/June 1986. v. 78 (3). p. 474-478. Includes references. (NAL Call No.: DNAL 4 AM34P).

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Effects of selected rice-field herbicides on photosynthesis, respiration, and nitrogen assimilating enzyme systems of paddy soil diazotrophic cyanobacteria.

PCBPB. Singh, L.J. Tiwari, D.N. Duluth, Minn. : Academic Press. Pesticide biochemistry and physiology. Literature review. June 1988. v. 31 (2). p. 120-128. Includes references. (NAL Call No.: DNAL SB951.P49).

0245

Effects of solution pH on the growth and chemical composition of rice plants (*Oryza sativa*, nutrient solution).

Alam, S.M.JPNUD. New York : Marcel Dekker. Journal of plant nutrition. 1981. Literature review. v. 4 (3). p. 247-260. 55 ref. (NAL Call No.: QK867.J67).

0246

The effects of some environmental factors on the partitioning of zinc and cadmium between roots and tops of rice plants.

Chino, M. Baba, A. New York, Marcel Dekker. Journal of plant nutrition. 1981. v. 3 (1/4). p. 203-214. 19 ref. (NAL Call No.: QK867.J67).

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Effects of submersion, pH, time, and certain inhibitors on maize and rice root respiration (*Zea mays*, *Oryza sativa*).

Girton, R.E.PIACA. Indianapolis : The Academy. Proceedings of the Indiana Academy of Science. 1981. v. 91. p. 170-175. Includes references. (NAL Call No.: 500 IN2).

0248

Effects of temperature and moisture content on mechanical properties of brown rice / by Kwang-wu Lee. -.

Lee, Kwang-wu, 1935-. Ann Arbor, Mich. University Microfilms 1973. Thesis--Texas A&M University, 1972. Facsimile produced by microfilm-xerography. xvi, 103 leaves. Bibliography: leaves 90-92. (NAL Call No.: DISS 73-3,550).

0249

Effects of temperature on the dual rhythmicity of growth rate in the rice embryo.

BOGAA. Nagato, Y. Chicago, Ill. : University of Chicago Press. Botanical gazette. Sept 1985. v. 146 (3). p. 341-346. Includes references. (NAL Call No.: DNAL 450 B652).

0250

Effects of zeatin and abscisic acid on grain ripening in rice.

PPGGD. Yoshida, R. Lake Alfred, Fla. : The Society. Proceedings annual meeting - Plant Growth Regulator Society of America. 1987. (14th). p. 91-96. ill. Includes references. (NAL Call No.: DNAL SB128.P5).

0251 /

Effects of 2,5-norbornadiene on cocklebur seed germination and rice coleoptile elongation in response to CO₂ and C₂H₄.

JPGRDI. Ishizawa, K. Hoshina, M.; Kawabe, K.; Esashi, Y. New York, N.Y. : Springer. Journal of plant growth regulation. 1988. v. 7 (1). p. 45-58. Includes references. (NAL Call No.: DNAL QK745.J6).

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Efficient plant regeneration from rice protoplasts through somatic embryogenesis.

Abdullah, R. Cocking, E.C.; Thompson, J.A. New York, N.Y. : Nature Pub. Co. Bio/technology. Dec 1986. v. 4 (12). p. 1087-1090. ill. Includes references. (NAL Call No.: DNAL QH442.B5).

0253

Elements in major raw agricultural crops in the United States. 3. Cadmium, lead, and eleven other elements in carrots, field corn, onions, rice, spinach, and tomatoes.

JAFCAU. Wolnik, K.A. Fricke, F.L.; Capar, S.G.; Meyer, M.W.; Satzger, R.D.; Bonnin, E.; Gaston, C.M. Washington, D.C. : American Chemical Society. Journal of agricultural and food chemistry. Sept/Oct 1985. v. 33 (5). p. 807-811. Includes references. (NAL Call No.: DNAL 381 J8223).

0254

Ethylene as an indicator of salt tolerance in rice.

CRPSAY. Khan, A.A. Akbar, M.; Seshu, D.V. Madison, Wis. : Crop Science Society of America. Crop science. Nov/Dec 1987. v. 27 (6). p. 1242-1247. Includes references. (NAL Call No.: DNAL 64.8 C883).

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0255

Ethylene contamination of CO₂ (carbon dioxide) cylinders. Effects on plant growth in CO₂ enrichment studies (Tomatoes, rice, mung beans, *Phalaris aquatica*).

Morison, J.I.L. Gifford, R.M. Rockville, Md. : American Society of Plant Physiologists. Plant physiology. May 1984. v. 75 (1). p. 275-277. ill. Includes 8 references. (NAL Call No.: 450 P692).

0256

Evaluation of the sexual and asexual stages of *Lagenidium giganteum* for control of rice field mosquitoes.

Washino, R.K. Kerwin, J.L. Davis : University of California. Mosquito control research : annual report. 1983. p. 68-69. (NAL Call No.: DNAL RA640.M4).

0257

An evaluation of 2,5-norbornadiene as a reversible inhibitor of ethylene action in deepwater rice.

PLPHA. Bleecker, A.B. Rose-John, S.; Kende, H. Rockville, Md. : American Society of Plant Physiologists. Plant physiology. June 1987. v. 84 (2). p. 395-398. Includes references. (NAL Call No.: DNAL 450 P692).

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Explorations in the chemistry and microbiology of Louisiana rice plant-soil relations / by Robert Gary Pitts. -.

Pitts, Robert Gary, 1945-. 1971. Thesis (Ph.D.)--Louisiana State University and Agricultural and Mechanical College, 1971. Photocopy. Ann Arbor, Mich. : University Microfilms, 1972. vii, 60 leaves ; 21 cm. Bibliography: leaves 51-59. (NAL Call No.: DISS 71-29,386).

0259

Factors altering response of plants to triacontanol (Growth stimulation, *Oryza*, rice, *Zea*, maize).

Ries, S.JOSHB. Wert, V.; Biernbaum, J.A.; Gibson, T.; Bradley, W.J. Alexandria : The Society. Journal of the American Society for Horticultural Science. Nov 1983. v. 108 (6). p. 917-922. ill. Includes references. (NAL Call No.: 81 S012).

0260

Field evaluation of two urease inhibitors with transplanted lowland rice.

AGJDAT. Buresh, R.J. De Datta, S.K.; Padilla, J.L.; Samson, M.I. Madison, Wis. : American Society of Agronomy. Agronomy journal. Sept/Oct 1988. v. 80 (5). p. 763-768. Includes references. (NAL Call No.: DNAL 4 AM34P).

0261

A field study on leaf water potential, transpiration and plant resistance to water flow in rice.

Tomar, V.S. O'Toole, J.C. Madison, Wis. : Crop Science Society of America. Crop science. Jan/Feb 1982. v. 22 (1). p. 5-10. ill. Includes 2 p. ref. (NAL Call No.: 64.8 C883).

0262

Genetics of fertility restoration of WA' type cytoplasmic male sterility in rice.

CRPSAY. Govinda Raj, K. Virmani, S.S. Madison, Wis. : Crop Science Society of America. Information on the genetics of fertility restoration in a cytoplasmic male sterility (CMS) system facilitates breeding and/or selection of restorer lines use in hybrid breeding programs involving CMS. Inheritance of fertility restoration of 'WA' type CMS in rice, (*Oryza sativa* L.) was studied utilizing two CMS lines in combination with five restorers. Each cross was used to develop a set of materials consisting of the following generations; parent lines (A, B, and R lines); (A/R) F1; (A/F1) BC1; (F1/B) BC2; and (A/R) F2. These materials were grown in the field setwise during 1985 to 1986. Results indicated that fertility restoration in all the restorers studied ('IR26', 'IR36', 'IR54', 'IR9761-19-1' and 'IR2797-105-2-2-3') was governed by two independent and dominant genes, and one of the genes appeared to be stronger in action than the other. The mode of action of the two genes varied in different CMS/restorer combinations revealing three types of interaction: epistasis with dominance (F2 ration, 12 fertile:3 partially fertile/partially sterile:1 sterile); epistasis with recessive gene action (F2 ratio, 9:3:4); or epistasis with incomplete dominance (F2 ratio, 9:6:1). The mode of interaction of the genes of a restorer differed with the CMS line used. An allelism test involving six R lines revealed that IR26 and IR36, and IR54 and IR9761-19-1 possessed identical restorer genes; 'IR42' and IR2797-105-2-2-3 had different restorer genes. Four groups of restorers with different pairs of restorer genes were identified. Testcross observations involving parental lines in the pedigree of IR36 and IR42 revealed that 'Cina' 'Latisail', 'Tadukan', 'TN1', 'TKM 6' and (two accessions) 'PTB 18' and 'SLO 17' are the probable original sources of R genes in the two restorer lines. Crop science. Sept/Oct 1988. v. 28 (5). p. 787-792. Includes references. (NAL Call No.: DNAL 64.8 C883).

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0263

Greenhouse selection for drought resistance in rice (Leaf water potential).
O'Toole, J.C. Maguling, M.A. Madison, Wis., Crop Science Society of America. Crop science. Mar/Apr 1981. v. 21 (2). p. 325-327. ill. 9 ref. (NAL Call No.: 64.8 C883).

0264

Growth and morphological characteristics of red rice (*Oryza sativa*) biotypes.
WEESA6. Diarra, A. Smith, R.J. Jr.; Talbert, R.E. Champaign, Ill. : Weed Science Society of America. Weed science. May 1985. v. 33 (3). p. 310-314. Includes 16 references. (NAL Call No.: DNAL 79.8 W41).

0265

Growth capacity in response to auxin of coleoptile segments of normal and dwarf rice strains.
JPGRDI. Revilla, G. Zarra, I.; Masuda, Y. New York, N.Y. : Springer. Journal of plant growth regulation. 1985. v. 4 (3). p. 159-168. Includes references. (NAL Call No.: DNAL QK745.J6).

0266

Growth regulation of rice seedlings.
Takahashi, K. PPGGD. Kaufman, P.B. Lake Alfred : The Society. Proceedings annual meeting - Plant Growth Regulator Society of America. 1983. 1983. (10th). p. 228-234. Includes references. (NAL Call No.: SB128.P5).

0267

Growth stages of the rice plant.
Khodayari, K. Moldenhauer, K.A.K.; Huey, B.A. Little Rock : The Service. Fact sheet - University of Arkansas, Cooperative Extension Service. Dec 1986. (2027). 2 p. ill. (NAL Call No.: DNAL S541.5.A8F33).

0268

Hormonal regulation of elongation in floating rice during submergence.
CRPSAY. Khan, A.A. Thakur, R.; Akbar, M.; HilleRisLambers, D.; Seshu, D.V. Madison, Wis. : Crop Science Society of America. Crop science. Jan/Feb 1988. v. 28 (1). p. 121-127. Includes references. (NAL Call No.: DNAL 64.8 C883).

0269

In vivo 1-aminocyclopropane-1-carboxylate synthase activity in internodes of deepwater rice.
PLPHA. Cohen, E. Kende, H. Rockville, Md. : American Society of Plant Physiologists. Plant physiology. June 1987. v. 84 (2). p. 282-286. Includes references. (NAL Call No.: DNAL 450 P692).

0270

Increased lysine and seed storage protein in rice plants recovered from calli selected with inhibitory levels of lysine plus threonine and S-(2-aminoethyl)cysteine.
PLPHA. Schaeffer, G.W. Sharpe, F.T. Jr. Rockville, Md. : American Society of Plant Physiologists. Plant physiology. June 1987. v. 84 (2). p. 509-515. ill. Includes references. (NAL Call No.: DNAL 450 P692).

0271

Indole-3-acetic acid and rice coleoptile elongation under anoxia.
JPGRDI. Pegoraro, R. Mapelli, S.; Torti, G.; Bertani, A. New York, N.Y. : Springer. Journal of plant growth regulation. 1988. v. 7 (2). p. 85-94. ill. Includes references. (NAL Call No.: DNAL QK745.J6).

0272

Influence of calcium peroxide coated seed on the performance of three rice varieties (a preliminary report) (Seedling vigor, production, dry weight, yield, Louisiana).
Brandon, D.M. Leonards, W.U.; Rawls, S.M.; Simoneaux, N.J. Crowley : The Station. Annual progress report - Louisiana. Rice Experiment Station. 1982. 1982. (74th). p. 126-158. (NAL Call No.: 100 L93 (3)).

0273

Influence of chemical seed treatments on germination of dormant wild rice (*Zizania palustris*) seeds.
Delke, E.A. Albrecht, K.A. Madison, Wis., Crop Science Society of America. Crop science. Sept/Oct 1980. v. 20 (5). p. 595-598. ill. 12 ref. (NAL Call No.: 64.8 C883).

0274

Influence of osmotic adjustment on leaf rolling and tissue death in rice (*Oryza sativa* L.) (Water deficits).
Hsiao, T.C. Toole, J.C.; Yambao, E.B.; Turner, N.C. Rockville, Md. : American Society of Plant Physiologists. Plant physiology. June 1984. v. 75 (2). p. 338-341. ill. Includes 28

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references. (NAL Call No.: 450 P692).

0275

Influence of photosynthetically active radiation on grain density of rice.

CRPSAY. Venkateswarlu, B. Vergara, B.S.; Visperas, R.M. Madison, Wis. : Crop Science Society of America. Crop science. Nov/Dec 1987. v. 27 (6). p. 1210-1214. Includes references. (NAL Call No.: DNAL 64.8 C883).

0276

Influence of water deficits and osmotic adjustment on leaf elongation in rice.

Cutler, J.M. Shahan, K.W. Steponkus, P.L. Madison, Wis., Crop Science Society of America. Crop science. May/June 1980. v. 20 (3). p. 314-318. ill. 20 ref. (NAL Call No.: 64.8 C883).

0277

Interaction of a gibberellin-induced factor with the upstream region of an alpha-amylase gene in rice aleurone tissue.

PNASA. Ou-Lee, T.M. Turgeon, R.; Wu, R. Washington, D.C. : The Academy. Proceedings of the National Academy of Sciences of the United States of America. Sept 1988. v. 85 (17). p. 6366-6369. ill. Includes references. (NAL Call No.: DNAL 500 N21P).

0278

Interactions among ammonium, potassium, and calcium during their uptake by excised rice roots.

JPNUDS. Scherer, H.W. Leggett, J.E.; Sims, J.L.; Krasaesindhu, P. New York, N.Y. : Marcel Dekker. Journal of plant nutrition. Jan 1987. v. 10 (1). p. 67-81. Includes references. (NAL Call No.: DNAL QK867.J67).

0279

Iron coatings on rice roots: mineralogy and quantity influencing factors.

Chen, C.C. Dixon, J.B.; Turner, F.T. Madison, Wis., The Society. Journal - Soil Science Society of America. May/June 1980. v. 44 (3). p. 635-639. ill. 14 ref. (NAL Call No.: 56.9 S03).

0280

Manipulating panicle transpiration resistance to increase rice spikelet fertility during flowering stage water stress.

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CRPSAY. Sung, F.J.M. Chen, J.U. Madison, Wis. : Crop Science Society of America. The amount of formazan extracted from tetrazolium salt-treated embryos has been used to predict seedling vigor in some cereal crops. Our objective was to determine whether this technique could be used to evaluate the seedling vigor of rice (*Oryza sativa* L.) cultivars grown at different temperatures. In this study, the genetic differences in formazan production capability of the embryo and its relationship to seedling vigor, as indicated by seedling dry weight accumulation within a 7-d growing period, were examined in 21 cultivars. The results indicated that temperature treatments could play a crucial role in regulating the seedling growth response and formazan production capability in the embryo portion of the seed. Considerable variation in growth and formazan production level also existed in the rice cultivars. Seedling vigor was positively related to formazan production capability of the embryo, suggesting that the formazan extraction technique would be a simple and reliable method for screening rice cultivars for optimal and suboptimal temperature seedling vigor. Crop science. Nov/Dec 1988. v. 28 (6). p. 1012-1014. Includes references. (NAL Call No.: DNAL 64.8 C883).

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0413

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0425

***Lissorhoptrus oryzae* Kuschel**

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0431

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Smith, C.M. Cave, G.L.; Robinson, J.F. Crowley : The Station. Annual progress report - Louisiana, Rice Experiment Station. 1982. 1982. (74th). p. 264-265. (NAL Call No.: 100 L93 (3)).

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Robinson, J.F. Brandon, D.M.; Trahan, G.B.; Michot, R.J. Crowley : The Station. Annual progress report - Louisiana, Agricultural Experiment Station. 1984. (76th). p. 196-198. (NAL Call No.: DNAL 100 L93 (3)).

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0457

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0461

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0463

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Heinrichs, E.A. Fabellar, L.T.; Basilio, R.P.; Wen, T.C.; Medrano, F. College Park, Md. : Entomological Society of America. Environmental entomology. Apr 1984. v. 13 (2). p. 455-458. Includes references. (NAL Call No.: QL461.E532).

0464

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Drees, B.M. Plapp, F.W. College Station, Tex. : The Station. PR - Texas Agricultural Experiment Station. Aug 1986. (4415). 7 p. Includes references. (NAL Call No.: DNAL 100 T31P).

0465

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0466

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Ueji, M. Kanazawa, J. New York, Springer Verlag. Bulletin of environmental contamination and toxicology. Feb 1980. v. 24 (2). p. 204-210. ill. 11 ref. (NAL Call No.: RA1270.P35A1).

0467

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0468

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0470

Occurrence of *Aphelenchoides besseyi* in Louisiana rice seed and its interaction with *Sclerotium oryzae* in selected cultivars.

JONEB. McGawley, E.C. Rush, M.C.; Hollis, J.P. Raleigh, N.C. : Society of Nematologists. Journal of nematology. Jan 1984. v. 16 (1). p. 65-68. Includes 9 references. (NAL Call No.: DNAL QL391.N4J62).

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0471

Crop losses, rice : field losses to insects, diseases, weeds, and other pests / by Barbara A. Barr, Carlton S. Koehler, and Ray F. Smith.
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APPYA. Ou, S.H. Palo Alto : Annual Reviews, Inc. Annual review of phytopathology. 1984. v. 22. p. 1-10. plates. Includes 7 references.
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Uchida, M. New York, Academic Press. Pesticide biochemistry and physiology. Dec 1980. v. 14 (3). p. 249-255. ill. 23 ref. (NAL Call No.: SB951.P49).

0481

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0484

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0487

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0488

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Rush, M.C. Can, F.; Didier, D. Crowley, La., The Station. Annual progress report - Louisiana, Rice Experiment Station. 1981. 1981. (73rd). p. 482-506. (NAL Call No.: 100 L93 (3)).

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0490

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0492

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0493

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PLDRA. Honda, Y. Nemoto, M. St. Paul, Minn. : American Phytopathological Society. Plant disease. July 1985. v. 69 (7). p. 596-598. Includes 11 references. (NAL Call No.: DNAL 1.9 P69P).

0494

Control of stem rot, sheath blight, and brown spot with foliar applied fungicides, 1979 (Rice (Oryza sativa 'La Belle'), sheath blight; Rhizoctonia solani, stem rot; Sclerotium oryzae, brown spot; Helminthosporium oryzae).
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0495

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0496

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0497

Effect of fungicide seed treatment on rice seedling emergence, 1982 (Bipolaris oryzae, Sclerotium rolfsii, Pythium spp., Oryza sativa).
Whitney, N.G. FNETD. (s.l.) : The Society. Fungicide and nematocide tests : results - American Phytopathological Society. 1983. v. 38. p. 30-31. (NAL Call No.: 464.9 AM31R).

0498

Effect of fungicides on disease control and yield on three rice varieties in Texas, 1982 (Bipolaris oryzae, Rhizoctonia solani, Oryza sativa, Labelle, Lebonnet and Newrex cultivars compared).
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0499

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Groth, D.E. Brandon, D.M. Crowley : The Station. Annual progress report - Louisiana, Agricultural Experiment Station. 1984. (76th). p. 233-243. Includes 3 references. (NAL Call No.: DNAL 100 L93 (3)).

0500

Effect of seed treatment on rice seedling emergence, 1981 (Rice (Oryza sativa 'Labelle'), seedling disease complex; Helminthosporium oryzae, Sclerotium rolfsii, Pythium sp.).
Whitney, N.G. (s.l.), The Society. Fungicide and nematocide tests; results - American Phytopathological Society. 1982. v. 37. p. 169-170. (NAL Call No.: 464.9 AM31R).

0501

Effect of water management on the epidemic development of rice blast.
Kim, C.H. Rush, M.C.; MacKenzie, D.R. Crowley : The Station. Annual progress report - Louisiana, Agricultural Experiment Station. 1984. (76th). p. 274-276. (NAL Call No.: DNAL 100 L93 (3)).

0502

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PLDIDE. Hwang, B.K. Koh, Y.J.; Chung, H.S. St. Paul, Minn. : American Phytopathological Society. Plant disease. Nov 1987. v. 71 (11). p. 1035-1038. Includes references. (NAL Call No.: DNAL 1.9 P69P).

0503

Epidemiology of stem root disease (Magnaporthe salvinii) of rice: effects of burning vs. soil incorporation of rice residue.
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0504

Evaluation of Fungicides for control of foliar diseases on "new" rice land in Mississippi (Pyricularia oryzae, Rhizoctonia oryzae).
Sciumbato, G.L. Davis, R.G.; Miller, T.C.
Mississippi State, The Station. MAFES research highlights - Mississippi Agricultural & Forestry Experiment Station. Aug 1981. v. 44 (8). p. 3. (NAL Call No.: 100 M69MI).

0505

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Mississippi State, The Station. Research report - Mississippi Agricultural & Forestry Experiment Station. June 1981. v. 5 (20). 3 p. Includes 3 ref. (NAL Call No.: S79.E37).

0506

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MAEBB. Davis, R.G. Mississippi State, Miss. : The Station. Bulletin - Mississippi Agricultural & Forestry Experiment Station. Apr 1982. (904). 9 p. Includes references. (NAL Call No.: DNAL S79.E3).

0507

Evaluation of several fungicides and adjuvant materials for control of brown spot of wild rice (Zizania aquatica, Drechslera oryzae, Drechslera sorokiniana).
Percich, J.A. Nickelson, L.J. St. Paul, American Phytopathological Society. Plant disease. Nov 1982. v. 66 (11). p. 1001-1003. 3 ref. (NAL Call No.: 1.9 P69P).

0508

Exploring tropical rice diseases: a reminiscence Xanthomonas kresek.
APPYA. Du, S.H. Palo Alto : Annual Reviews, Inc. Annual review of phytopathology. 1984. v. 22. p. 1-10. plates. Includes 7 references. (NAL Call No.: DNAL 464.8 AN72).

0509

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LOAGA. Schneider, R.W. Rush, M.; Pillay, M. Baton Rouge, La. : The Station. Louisiana agriculture - Louisiana Agricultural Experiment Station. Spring 1988. v. 31 (3). p. 5-7. ill. (NAL Call No.: DNAL 100 L939).

0510

Field testing a computerized forecasting system for rice blast disease.
PHYTAU. Kim, C.H. MacKenzie, D.R.; Rush, M.C. St. Paul, Minn. : American Phytopathological Society. Phytopathology. July 1988. v. 78 (7). p. 931-934. Includes references. (NAL Call No.: DNAL 464.8 P56).

0511

Foliar fungicide control of rice diseases, 1979 (Rice (Oryza sativa 'La Belle'), narrow brown leaf spot; Cercospora oryzae, brown leaf spot; Helminthosporium oryzae, brown blotch; Cercospora oryzae, sheath spot; Rhizoctonia oryzae).
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0512

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Lee, F.N. Courtney, M.L. Fayetteville, Ark., The Station. Arkansas farm research - Arkansas Agricultural Experiment Station. May/June 1981. v. 30 (3). p. 11. (NAL Call No.: 100 AR42F).

0513

Fungicidal control of rice foliar and stem diseases.
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0514

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0515

Fungicidal control of rice foliar and stem diseases (a preliminary report) (Pyricularia oryzae, Helminthosporium oryzae, Rhizoctonia solani, Sclerotium oryzae, Cercospora oryzae, Louisiana).
Rush, M.C. Yu, Z.T.; Lindberg, G.D.; McLeod, J.M.; Castro, A. Crowley : The Station. Annual progress report - Louisiana, Rice Experiment Station. 1982. 1982. (74th). p. 327-338. (NAL Call No.: 100 L93 (3)).

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Genetic analysis of virulence in the rice blast fungus *Magnaporthe grisea*.

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Inheritance of resistance to blast in some traditional and improved rice cultivars.

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Ionization and adsorption-desorption of tricyclazole by soil organic matter, montmorillonite clay, and cape fear sandy loam soil (Systemic fungicide for the control of rice blast pathogen, *Piricularia oryzae*).

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JONEB. McGawley, E.C. Rush, M.C.; Hollis, J.P. Raleigh, N.C. : Society of Nematologists. *Journal of nematology*. Jan 1984. v. 16 (1). p. 65-68. Includes 9 references. (NAL Call No.: DNAL QL391.N4J62).

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0526

Rice disease control with foliar fungicides, 1981 (Rice (*Oryzae sativa* 'Labelle', 'Lebonnet', 'Newrex', 'Dawn'), narrow brown leaf spot; *Cercospora oryzae*, brown blotch; *Cercospora oryzae*, leaf smut; *Entylma oryzae*, brown spot; *Helminthosporium oryzae*, sheath spot; *Rhizoctonia oryzae*). Whitney, N.G. (s.l.), The Society. Fungicide and nematicide tests; results - American Phytopathological Society. 1982. v. 37. p. 101-102. (NAL Call No.: 464.9 AM31R).

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Bass, R.J. Koch, R.C.; Richards, H.C.; Thorpe, J.E. Washington, D.C., American Chemical Society. Journal of agricultural and food chemistry. May/June 1981. v. 29 (3). p. 576-579. ill. 11 ref. (NAL Call No.: 381 J8223).

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PLDRA. Kohls, C.L. Percich, J.A.; Huot, C.M. St. Paul, Minn. : American Phytopathological Society. Plant disease. May 1987. v. 71 (5). p. 419-422. Includes references. (NAL Call No.: DNAL 1.9 P69P).

PLANT DISEASES - BACTERIAL

0534

Biokinetics and metabolism of N-(2,3-dichlorophenyl)-3,4,5,6-tetrachlorophthalamic acid (a new systemic bactericide for the control of bacterial leaf blight (*Xanthomonas oryzae*)) in rice.

Kirkpatrick, D. Finn, C.M.; Conway, B.; Hawkins, D.R.; Honda, T.; Ishida, M.; Powell, G.P. Washington, D.C., American Chemical Society. Journal of agricultural and food chemistry. May/June 1981. v. 29 (3). p. 608-614. ill. 7 ref. (NAL Call No.: 381 J8223).

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Current status and future prospects of research on bacterial blight of rice.

APPYA. Mew, T.W. Palo Alto : Annual Reviews, Inc. Annual review of phytopathology. Literature review. 1987. v. 25. p. 359-382. Includes references. (NAL Call No.: DNAL 464.8 AN72).

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Efficacy of different chemicals in controlling bacterial blight of rice, 1977 (Rice (*Oryza sativa* L. 'Jaya'), bacterial leaf blight; *Xanthomonas oryzae*).

Chand, T. Singh, N.J. (s.l.), The Society. Fungicide and nematocide tests; results - American Phytopathological Society. 1981. v. 36. p. 91. (NAL Call No.: 464.9 AM31R).

0537

Evaluation of *Pseudomonas fluorescens* for suppression of sheath rot disease and for enhancement of grain yields in rice (*Oryza sativa* L.).

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0538

Field efficacy of stable bleaching powder in the control of bacterial leaf blight of rice, 1977 (Rice (*Oryza sativa* L. 'Jaya'), bacterial leaf blight; *Xanthomonas oryzae*).

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Field efficacy of stable bleaching powder to control bacterial blight of rice (*Xanthomonas oryzae*).

Chand, T. Singh, N.; Singh, H.; Thind, B.S. Manila, International Rice Research Institute. International rice research newsletter. Aug 1979. v. 4 (4). p. 12-13. (NAL Call No.: SB191.R5I6).

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Isolation, purification, and serology of rice tungro bacilliform and rice tungro spherical viruses.

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Loss of sigma-factor of RNA polymerase of *Xanthomonas campestris* pv. *oryzae* during phage Xp10 infection.

JBCHA3. Liao, Y.D. Kuo, T.T. Baltimore, Md. : American Society of Biological Chemists. The Journal of biological chemistry. Oct 15, 1986. v. 261 (29). p. 13714-13719. Includes references. (NAL Call No.: DNAL 381 J824).

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Chang, L.W.H. Hyattsville, Md. : The Service. APHIS 81 - U.S. Department of Agriculture, Animal and Plant Health Inspection Service. Sept 1987. (50). 11 p. ill., maps. Includes references. (NAL Call No.: DNAL aSB599.A3U5).

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Rice yellow dwarf disease.

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PLANT DISEASES - VIRAL

0545

Chloroplasts of hoja blanca-infected rice / by Nguyen Dang Long. -.

Long, Nguyen Dang, 1937-. 1970. Thesis (Ph.D.)--Louisiana State University and Agricultural and Mechanical College, 1970. Photocopy. Ann Arbor, Mich. : University Microfilms, 1971. ix, 46 leaves ; 21 cm. Includes bibliographies. (NAL Call No.: DISS 71-3,422).

0546

Effect of mixtures of custard-apple oil and neem oil on survival of *Nephotettix virescens* (Homoptera: Cicadellidae) and on rice tungro virus transmission (*Annona squamosa*, *Azadirachta indica*).

Mariappan, V. Saxena, R.C. College Park, Md. : Entomological Society of America. Journal of economic entomology. Apr 1984. v. 77 (2). p. 519-521. Includes references. (NAL Call No.: 421 J822).

0547

Environmental impact of the fungicide triphenyltin hydroxide after application to rice fields (California, mosquito control, mosquitofish, soil residues, stem rot disease).

Schaefer, C.H. Miura, T.; Dupras, E.F. Jr.; Wilder, W.H. College Park, Md., Entomological Society of America. Journal of economic entomology. Oct 1981. v. 74 (5). p. 597-600. 3 ref. (NAL Call No.: 421 J822).

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Evaluation of systemic insecticides for control of rice tungro (virus and its vector, *Nephotettix virescens*).

Shukla, V.D. Anjaneyulu, A. St. Paul, Minn., American Phytopathological Society. Plant disease. Aug 1980. v. 64 (8). p. 790-792. ill. 11 ref. (NAL Call No.: 1.9 P69P).

0549

Isolation, purification, and serology of rice tungro bacilliform and rice tungro spherical viruses.

PLDIDE. Cabauatan, P.Q. Hibino, H. St. Paul, Minn. : American Phytopathological Society. Plant disease. June 1988. v. 72 (6). p. 526-528. ill. Includes references. (NAL Call No.: DNAL 1.9 P69P).

0550

Management of the rice tungro virus vector *Nephotettix virescens* (Homoptera: Cicadellidae) with controlled-release formulations of carbofuran.

Wilkins, R.M. Batterby, S.; Heinrichs, E.A.; Aquino, G.B.; Valencia, S.L. College Park, Md. : Entomological Society of America. Journal of economic entomology. Apr 1984. v. 77 (2). p. 495-499. Includes references. (NAL Call No.: 421 J822).

0551

Ovicidal activity of insecticides against planthoppers (*Nilaparvata lugens*) on rice (Grassy stunt disease, ragged stunt virus, wilted stunt virus).

Heinrichs, E.A. Valencia, S.L. College Park, Md., Entomological Society of America. Journal of economic entomology. Feb 1981. v. 74 (1). p. 49-53. Bibliography p. 52-53. (NAL Call No.: 421 J822).

0552

Reduction of tungro virus transmission by *Nephotettix virescens* (Homoptera: Cicadellidae) in neem cake-treated rice seedlings.

JEENAI. Saxena, R.C. Khan, Z.R.; Bajet, N.B. College Park, Md. : Entomological Society of America. Journal of economic entomology. Oct 1987. v. 80 (5). p. 1079-1082. Includes references. (NAL Call No.: DNAL 421 J822).

0553

Serological and biochemical properties of the capsid and major noncapsid proteins of maize stripe, rice hoja blanca, and *Echinochloa* hoja blanca viruses.

PHYTAJ. Falk, B.W. Morales, F.J.; Tsai, J.H.; Niessen, A.I. St. Paul, Minn. : American Phytopathological Society. Phytopathology. Feb 1987. v. 77 (2). p. 196-201. ill. Includes references. (NAL Call No.: DNAL 464.8 P56).

PLANT DISEASES - PHYSIOLOGICAL

0554

Absorption and transport of Fe (iron) and Rb (rubidium) in rice cultivars differing in their Fe-stress response: an analysis of the patterns of uptake in relation to the tolerance (*Oryza sativa*, nutrient stress).
 Pandey, D.P. Kannan, S. New York, Marcel Dekker. Journal of plant nutrition. 1982. v. 5, i.e. 4 (1). p. 27-43. Includes 6 ref. (NAL Call No.: QK867.J67).

0555

Critical limits of deficiency and toxicity of zinc in paddy in a Typic Ustipsamment (Rice).
 Rattan, R.K. Shukla, L.M. New York, N.Y. : Marcel Dekker. Communications in soil science and plant analysis. 1984. v. 15 (9). p. 1041-1050. ill. Includes 15 references. (NAL Call No.: S590.C63).

0556

The effect of nitrification inhibitors, slow release nitrogen sources, and time of urea application on nitrogen fertilizer efficiency in drill-seeded Mars rice (a preliminary report) (Denitrification loss, deficiency symptoms, Louisiana).
 Brandon, D.M. Leonards, W.J.; Rawls, S.M.; Simoneaux, N.J. Crowley : The Station. Annual progress report - Louisiana, Rice Experiment Station. 1982. (74th). p. 101-107. Includes references. (NAL Call No.: 100 L93 (3)).

0557

Effect of organic matter on changes in soil zinc fractions found in wetland soils.
 CSOSA2. Ghanem, S.A. Mikkelsen, D.S. New York, N.Y. : Marcel Dekker. Communications in soil science and plant analysis. Nov 1987. v. 18 (11). p. 1217-1234. Includes references. (NAL Call No.: DNAL S590.C63).

0558

Effect of redox, zinc fertilization and incubation time on DTPA-extractable zinc, iron and manganese.
 CSOSA2. Sajwan, K.S. Lindsay, W.L. New York, N.Y. : Marcel Dekker. Communications in soil science and plant analysis. 1988. v. 19 (1). p. 1-11. Includes references. (NAL Call No.: DNAL S590.C63).

0559

Effects of redox on zinc deficiency in paddy rice.
 SSSJD4. Sajwan, K.S. Lindsay, W.L. Madison, Wis. : The Society. Soil Science Society of America journal. Sept/Oct 1986. v. 50 (5). p. 1264-1269. Includes references. (NAL Call No.: DNAL 56.9 S03).

0560

Mineral-deficiency symptoms displayed by rice plants grown under controlled conditions in the greenhouse.
 Cibes, H.R. Gaztambide, S. Rio Piedras, The Station. Abstract: Deficiency symptoms were induced by the omission of macro- and micronutrient elements on rice plants of the Sinaloa variety grown in solution culture in the greenhouse. The elements included in the study were N, P, K, Ca, Mg, S, Fe, Mn and B. The omission of N, K and Fe from the nutrient medium resulted in the poorest top growth of plants. The lowest values of either fresh or dry weight of roots were caused by lack of K. Omission of Ca, S, Mg, B and Mn treatments also caused the development of poor root systems. Lack of P was the least detrimental. Except for S and Fe, the concentration of the particular missing element in the leaf tissues was lower in plants from each deficiency treatment than in the control plants. Leaf analysis indicates that the absence of one element from the nutrient medium could cause either a reduction or an increase of other related elements in the leaf tissue. The Journal of agriculture of the University of Puerto Rico - Puerto Rico, Agricultural Experiment Station. Oct 1980. v. 64 (4). p. 369-378. ill. (NAL Call No.: 8 P832J).

0561

Prediction and prevention of iron-related rice seedling chlorosis on Everglades Histosols.
 SSSJD4. Snyder, G.H. Jones, D.B. Madison, Wis. : The Society. Rice (*Oryza sativa* L.) drill-seeded in certain Histosols in the Everglades Agricultural Area germinates well, but after a few weeks it becomes chlorotic and grows poorly. The condition is termed "rice seedling chlorosis." After flooding, chlorotic seedlings generally assume normal color, except that some seedling mortality occurs, particularly in areas with excessively deep water. Studies were conducted to identify soil and cultivar susceptibility to seedling chlorosis and then to develop methods for preventing its occurrence. Problem soils were identified on the basis of their total Fe content. Seedling chlorosis occurred in soils containing up to 3.4 g Fe kg⁻¹. Susceptible soils produced a nearly white ash when heated in a muffle furnace for 2 h at 550 °C. Seedling chlorosis was alleviated in all seed at rates of 20 to 30 kg Fe ha⁻¹. The effect of seedling chlorosis on yield varied with cultivar and, to some extent, with experimental conditions. The cv. Leah was very susceptible to chlorosis, and

yield was increased by Fe treatment. By contrast, even though visual symptoms were apparent, yield of cv. Labelle evidently was not reduced by seedling chlorosis because Fe treatment did not increase yield. Yield of cv. Lebonnet increased with Fe treatment in two out of three trials. Although the studies did not permit determination of the cause of seedling chlorosis, it appeared that the chlorosis did not result from a simple Fe deficiency. Soil Science Society of America journal. July/Aug 1988. v. 52 (4). p. 1043-1046. Includes references. (NAL Call No.: DNAL 56.9 S03).

0562

Regulation of Fe-stress (iron) response in some crop varieties: anomaly of a mechanism for recovery through non-redumptive pH reduction (Cajanus indicus, pigeonpeas, Corchorus capsularis, Corchorus olitorius, jute, Cicer arietinum, chickpeas, Oryza sativa, rice, chlorosis).

Kannan, S.JPNUD. New York : Marcel Dekker. Journal of plant nutrition. 1981. v. 4 (1). p. 1-19. ill. 12 ref. (NAL Call No.: QK867.J67).

0563

Sulphur deficiency and toxicity in rice (Sulfur).

Nageswar Rao, N. Biddappa, C.C.; Sarkunan, V. Washington, D.C. : The Sulphur Institute. Sulphur in agriculture. 1980. v. 4. p. 25-26. ill. Includes references. (NAL Call No.: S587.5.S9S9).

MISCELLANEOUS PLANT DISORDERS

0564

Activities of the N-phenyl imide S-23142 in carotenoid-deficient seedlings of rice and cucumber.

PCBPB. Sato, R. Nagano, E.; Oshio, H.; Kamoshita, K. Duluth, Minn. : Academic Press. Pesticide biochemistry and physiology. July 1988. v. 31 (3). p. 213-220. Includes references. (NAL Call No.: DNAL SB951.P49).

0565

Affinity and mobility of fungicidal dialkyl dithiolanylidene malonates in rice plants.

Uchida, M. New York, Academic Press. Pesticide biochemistry and physiology. Dec 1980. v. 14 (3). p. 249-255. ill. 23 ref. (NAL Call No.: SB951.P49).

0566

Amelioration of chilling injury in rice seedlings by mefluidide.

CRPSAY. Zhang, L.X. Li, P.H.; Tseng, M.J. Madison, Wis. : Crop Science Society of America. Crop science. May/June 1987. v. 27 (3). p. 531-534. Includes references. (NAL Call No.: DNAL 64.8 C883).

0567

Basis for differential susceptibility of rice (*Oryza sativa*), wild rice (*Zizania palustris*), and giant burreed (*Sparganium eurycarpum*) to bentazon.

WEESA6. Clay, S.A. Delke, E.A. Champaign, Ill. : Weed Science Society of America. Abstract: The basis for differential susceptibility of tolerant rice (*Oryza sativa* L.), susceptible wild rice (*Zizania palustris* L.), susceptible giant burreed (*Sparganium eurycarpum* Engelm. ~ SPGEU) to foliar application of 1.1 kg ai/ha of bentazon

3-(1-methylethyl)-(1H)-2,1,3,-benzothiadiazin-4(3H)-one 2,2-dioxide was investigated by evaluating herbicide absorption, translocation, and metabolism. Giant burreed and wild rice absorbed more bentazon than rice at similar growth stages. Less than 10% of the absorbed bentazon was translocated out of the treated leaf of any of the species. Differential tolerance of bentazon among the three species was due to differences in the rate of bentazon metabolism. Rice metabolized 98% of the bentazon retained in the treated leaf 1 day after treatment (DAT), while giant burreed and wild rice metabolized less than 2% of the bentazon retained in the treated leaf 5 DAT. Weed science. May 1988. v. 36 (3). p. 301-304. Includes references. (NAL Call No.: DNAL 79.8 W41).

0568

Bentazon mixtures to control weeds in rice.

JAUPA. Liu, L.C. Lozano, J.J.M. Mayaguez : University of Puerto Rico, Agricultural Experiment Station. The Journal of agriculture of the University of Puerto Rico. Apr 1987. v. 71 (2). p. 217-223. Includes references. (NAL Call No.: DNAL 8 P832U).

0569

Critical limits of deficiency and toxicity of zinc in paddy in a Typic Ustipsamment (Rice).

Rattan, R.K. Shukla, L.M. New York, N.Y. : Marcel Dekker. Communications in soil science and plant analysis. 1984. v. 15 (9). p. 1041-1050. ill. Includes 15 references. (NAL Call No.: S590.C63).

0570

The degradation and bioactivity of metolachlor in the soil.

WEESA6. Braverman, M.P. Lavy, T.L.; Barnes, C.J. Champaign, Ill. : Weed Science Society of America. Weed science. May 1986. v. 34 (3). p. 479-484. Includes references. (NAL Call No.: DNAL 79.8 W41).

0571

Effect of growth stage on rice (*Oryza sativa*) tolerance to acifluorfen (Herbicide, Hemp sesbania, crop injury).

Street, J.E. WEESA. Richard, E.P. Jr. Champaign : Weed Science Society of America. Weed science. Sept 1983. v. 31 (5). p. 672-673. Includes references. (NAL Call No.: 79.8 W41).

0572

Effect of oxidative damage induced by gamma irradiation on germination potentials of rice seeds.

JAFCAU. Ramarathnam, N. Osawa, T.; Kawakishi, S.; Namiki, M. Washington, D.C. : American Chemical Society. Journal of agricultural and food chemistry. Jan/Feb 1987. v. 35 (1). p. 8-11. Includes references. (NAL Call No.: DNAL 381 J8223).

0573

Effect of sugar mill effluent on oxygen uptake and carbon dioxide output of rice (*Oryza sativa* L.c.v. Mushoori) seedlings.

ENVRA. Behera, B.K. Sayeed, S.A. Duluth, Minn. : Academic Press. Environmental research. June 1987. v. 43 (1). p. 135-141. Includes references. (NAL Call No.: DNAL RA565.A1E5).

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0574

Effect of three dinitroaniline herbicides on rice (*Oryza sativa*) growth (Residual levels of fluchloralin, profluralin, and trifluralin, phytotoxicities).

Brewer, F. Lavy, T.L.; Talbert, R.E. Champaign, Ill., Weed Science Society of America. Weed science. Mar 1982. v. 30 (2). p. 153-158. ill. Includes 31 ref. (NAL Call No.: 79.8 W41).

0575

Effects of metolachlor residues on rice (*Oryza sativa*).

WEESA6. Braverman, M.P. Lavy, T.L.; Talbert, R.E. Champaign, Ill. : Weed Science Society of America. Weed science. Nov 1985. v. 33 (6). p. 819-824. Includes 14 references. (NAL Call No.: DNAL 79.8 W41).

0576

Effects of simulated MSMA drift on rice (*Oryza sativa*). II. Arsenic residues in foliage and grain and relationships between arsenic residues, rice toxicity symptoms, and yields (Herbicide).

Wauchope, R.D. Richard, E.P.; Hurst, H.R. Champaign, Ill., Weed Science Society of America. Weed science. July 1982. v. 30 (4). p. 405-410. ill. 25 ref. (NAL Call No.: 79.8 W41).

0577

Effects of simulated MSMA (monosodium methanearsonate) drift on rice (*Oryza sativa*) growth and yield.

Richard, E.P. Jr. Hurst, H.R.; Wauchope, R.D. Champaign, Ill., Weed Science Society of America. Weed science. May 1981. v. 29 (3). p. 303-308. ill. 17 ref. (NAL Call No.: 79.8 W41).

0578

Greenhouse selection for drought resistance in rice (Leaf water potential).

O'Toole, J.C. Maguling, M.A. Madison, Wis., Crop Science Society of America. Crop science. Mar/Apr 1981. v. 21 (2). p. 325-327. ill. 9 ref. (NAL Call No.: 64.8 C883).

0579

Hexachlorocyclohexane inhibits calmodulin-dependent Ca²⁺-ATPase activity in rice shoot membranes.

PCBPB. Salimath, B.P. Sharada, R.; Karanth, N.G.K.; Shetty, H.S.; Majumder, S.K. Duluth, Minn. : Academic Press. Pesticide biochemistry and physiology. June 1988. v. 31 (2). p. 146-154. ill. Includes references. (NAL Call No.: DNAL SB951.P49).

0580

Identification of glucosylated conjugates and oxygenated metabolites of nonionic surfactants in barley and rice leaf tissue (Pesticide formulating agents).

Stolzenberg, G.E. Olson, P.A.; Tanaka, F.S.; Mansager, E.R.; Lamoureux, C.H. Washington, D.C. : The Society. ACS Symposium series - American Chemical Society. 1984. 1984. (254). p. 207-218. Includes references. (NAL Call No.: QD1.A45).

0581

Impact of powerlines on crop yields in eastern Arkansas.

AKFRAC. Parsch, L.D. Norman, M.D. Fayetteville, Ark. : The Station. Arkansas farm research - Arkansas Agricultural Experiment Station. Sept/Oct 1986. v. 35 (5). p. 4. (NAL Call No.: DNAL 100 AR42F).

0582

Influence of flood interval and cultivar on rice (*Oryza sativa*) tolerance to fenoxaprop.

WEESA6. Snipes, C.E. Street, J.E.; Boykin, D.L. Champaign, Ill. : Weed Science Society of America. Weed science. Nov 1987. v. 35 (6). p. 842-845. Includes references. (NAL Call No.: DNAL 79.8 W41).

0583

Influence of MSMA on straighthead, arsenic uptake and growth response in rice (*Oryza sativa*).

AKARA. Frans, R. Horton, D.; Burdette, L. Fayetteville : The Station. Report series - Arkansas Agricultural Experiment Station. Jan 1988. (302). 12 p. ill. Includes references. (NAL Call No.: DNAL 100 AR42R).

0584

Interaction of propanil and selected insecticides on rice (*Oryza sativa*).

WEESA6. Khodayari, K. Smith, R.J. Jr.; Tugwell, N.P. Champaign, Ill. : Weed Science Society of America. Weed science. Sept 1986. v. 34 (5). p. 801-803. Includes references. (NAL Call No.: DNAL 79.8 W41).

0585

Is growth of plants following rice affected by manganese toxicity.

Thompson, L.F. AR. Majedi, M.R. Fayetteville, Ark., The Station. Arkansas farm research - Arkansas Agricultural Experiment Station. Sept/Oct 1980. v. 29 (5). p. 14. ill. (NAL Call No.: 100 AR42F).

(MISCELLANEOUS PLANT DISORDERS)

0586

The mechanism of excessive iron uptake (iron toxicity) of wetland rice.

Benckiser, G. Ottow, J.C.G.; Watanabe, I.; Santiago, S. 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. 177-185. Includes references. (NAL Call No.: QK867.J67).

0587

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).

0588

A method for inducing controlled moisture stress on seedlings (Oryza sativa, Vigna radiata, laboratory equipment for plant science research).

Sikurajapathy, M. AGUOA. Cappy, J.J.; Gross, H.D. Madison : American Society of Agronomy. Agronomy journal. Sept/Oct 1983. v. 75 (5). p. 840-843. ill. Includes references. (NAL Call No.: 4 AM34P).

0589

MSMA-induced straighthead in rice (Oryza sativa) and effect upon metabolism and yield (Herbicide, residues, toxicity).

Horton, D.K. WEESA. Frans, R.E.; Cothren, T. Champaign : Weed Science Society of America. Weed science. Sept 1983. v. 31 (5). p. 648-651. ill. Includes references. (NAL Call No.: 79.8 W41).

0590

Oxidiazon absorption, translocation, and metabolism in rice (Oryza sativa) and barnyardgrass (Echinochloa crus-galli).

WEESA6. Achhireddy, N.R. Kirkwood, R.C.; Fletcher, W.W. Champaign, Ill. : Weed Science Society of America. Weed science. Nov 1984. v. 32 (6). p. 727-731. Includes 24 references. (NAL Call No.: DNAL 79.8 W41).

0591

The phytotoxicity and weed control of butachlor plus propanil in dry-seeded rice.

Wu, C.H. SWSPB. Dixon, G.A.; Muench, S.R.; Sandberg, C.L.; Whatley, T.L. Champaign : The Society. Proceedings - Southern Weed Science Society. 1983. 1983. (36th). p. 95-99. Includes references. (NAL Call No.: 79.9 S08).

0592

Potential carryover of Dual and Lasso in rice.

Griffin, J.L. Robinson, J.F.; Habetz, R.J.; Regan, R.P. Crowley : The Station. Annual progress report - Louisiana, Agricultural Experiment Station. 1984. (76th). p. 317-320. Includes 1 references. (NAL Call No.: DNAL 100 L93 (3)).

0593

Propanil plus methyl parathion on rice (Oryza sativa).

WEESA6. Wills, G.D. Street, J.E. Champaign, Ill. : Weed Science Society of America. Abstract: Effects of propanil N-(3,4-dichlorophenyl)propanamide applied to three- to four-leaf rice (Oryza sativa L.) 1 or 7 days before, after, or tank mixed with methyl parathion (0,0-dimethyl-0-4-nitrophenyl phosphorothioate) were determined under different environmental conditions. Field experiments determined the effect on yield of drill-seeded rice, 'Labelle' for two planting dates in 1982 and 'Lemont' for one planting date in 1986. Treatments were applied at sunrise and at noon. Growth chamber and greenhouse experiments determined the effects of temperature, relative humidity (RH), and soil moisture on response of Labelle rice. In all experiments, propanil, both alone and with methyl parathion, resulted in 20 to 30% leafburn during the first week after treatment with rapid recovery to less than 10% injury after 3 to 4 weeks. In field experiments, yields were not reduced in the treated rice below that in the untreated controls. In controlled-environment experiments, rice was not injured by propanil plus methyl parathion more than by propanil alone after 2 to 4 weeks. Both treated and untreated rice were injured more by the environmental conditions of high (40C) temperature, low (40%) RH, and low (near the wilting point) soil moisture than by low (30C) temperature, high (100%) RH, and flooded soil. Weed science. May 1988. v. 36 (3). p. 335-339. Includes references. (NAL Call No.: DNAL 79.8 W41).

0594

Residual effects of MSMA (monosodium methanearsonate, herbicide) on sterility in rice cultivars.

Gilmour, J.T. Wells, B.R. Madison, Wis., American Society of Agronomy. Agronomy journal. Nov/Dec 1980. v. 72 (6). p. 1066-1067. 8 ref.

(MISCELLANEOUS PLANT DISORDERS)

(NAL Call No.: 4 AM34P).

0595

Rice cultivar response to aluminum in nutrient solution.

CS0SA2. Fageria, N.K. Wright, R.J.; Baligar, V.C. New York, N.Y. : Marcel Dekker. Communications in soil science and plant analysis. May/Sept 1988. v. 19 (7/12). p. 1133-1142. Includes references. (NAL Call No.: DNAL S590.C63).

0596

Rice (*Oryza sativa*) tolerance to fenoxaprop.

WEESA6. Snipes, C.E. Street, J.E. Champaign, Ill. : Weed Science Society of America. Weed science. May 1987. v. 35 (3). p. 401-406. Includes references. (NAL Call No.: DNAL 79.8 W41).

0597

Salinity damage to rice seedlings.

Gilmour, J.T. Atlanta, Ga., Potash & Phosphate Institute. Better crops with plant food. Winter 1980/1981. v. 44. p. 13-15. ill. (NAL Call No.: 6 B46).

0598

Straight head of rice and its control /W.H.

Tisdale and J. Mitchell Jenkins. Tisdale, W. H. 1892-. Jenkins, J. Mitchell_1884-. Washington, D.C. : U.S. Dept. of Agriculture, 1921. Cover title.~ "Contribution from the Bureau of Plant Industry.". 16 p. : ill. ; 23 cm. (NAL Call No.: DNAL 1 Ag84F no.1212).

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Sulphur deficiency and toxicity in rice (Sulfur).

Nageswar Rao, N. Biddappa, C.C.; Sarkunan, V. Washington, D.C. : The Sulphur Institute. Sulphur in agriculture. 1980. v. 4. p. 25-26. ill. Includes references. (NAL Call No.: S587.5.S9S9).

0600

Susceptibility of rice (*Oryza sativa*) to various postemergence grass herbicides.

WEESA6. Street, J.E. Snipes, C.E. Champaign, Ill. : Weed Science Society of America. Weed science. Sept 1987. v. 35 (5). p. 686-690. Includes references. (NAL Call No.: DNAL 79.8 W41).

0601

Tolerance of rice cultivars to iron toxicity.

JPNUDS. Fageria, N.K. Rabelo, N.A. New York, N.Y. : Marcel Dekker. Journal of plant nutrition. Apr 1987. v. 10 (6). p. 653-661. Includes references. (NAL Call No.: DNAL QK867.J67).

0602

Tolerance of rice (*Oryza sativa*) to acifluorfen and triclopyr applied alone or in mixtures with propanil.

WEESA6. Smith, R.J. Jr. Champaign, Ill. : Weed Science Society of America. Abstract: Acifluorfen (5- 2-chloro-4-(trifluoromethyl)phenoxy -2-nitrobenzoic acid) applied alone and in mixtures with propanil N-(3,4-dichlorophenyl)propanamide reduced rough grain yield of rice (*Oryza sativa* L. 'Lebonnet' or 'Bond') by 7% when applied at the late-booting or heading growth stages, averaged over several rates of application. Earlier applications, did not reduce rice yield. The highest rate (0.6 kg ai/ha) of acifluorfen alone and in mixtures with propanil at 3.4 kg ai/ha) reduced grain yields more than lower rates (0.1 or 0.3 kg ai/ha). Triclopyr ((3,5,6-trichloro-2-pyridinyl)oxy acetic acid) alone and in mixtures with propanil reduced rough grain yields of rice by 18% when applied at the late-booting growth stage, averaged over several rates, of applications, but did not affect yields when applied at the early-tillering, jointing, or early-booting growth stages. Whole-grain milling yield and germination of rice seed were not affected by acifluorfen or triclopyr alone or in mixtures with propanil, regardless of rate or growth stage of application. Weed science. May 1988. v. 36 (3). p. 379-383. Includes references. (NAL Call No.: DNAL 79.8 W41).

0603

Tolerance of rice seedlings to potassium salts (*Oryza sativa*, Soil salinity, phytotoxicity, cultivar resistance, Arkansas).

Baser, R.E.AKABA. Gilmour, J.T. Fayetteville : The Station. Bulletin - Arkansas, Agricultural Experiment Station. Aug 1982. Aug 1982. (860). 18 p. ill. 14 ref. (NAL Call No.: 100 AR42).

0604

Tolerances of 20 rice cultivars to excess Al and Mn (aluminum and manganese, toxicity, *Oryza sativa*).

Nelson, L.E.AGJDA. Madison : American Society of Agronomy. Agronomy journal. Jan/Feb 1983. v. 75 (1). p. 134-138. ill. 14 ref. (NAL Call No.: 4 AM34P).

(MISCELLANEOUS PLANT DISORDERS)

0605

Uptake and translocation of o-sec-butylphenyl
N-methylcarbamate (BPMC) and O,O-diisopropyl
S-benzyl phosphorothiolate (IBP) in rice plants
applied as single and mixed preparations
(control of insect pests on various crops).

Ueji, M. Kanazawa, J. New York, Springer
Verlag. Bulletin of environmental contamination
and toxicology. Feb 1980. v. 24 (2). p.
204-210. ill. 11 ref. (NAL Call No.:
RA1270.P35A1).

PROTECTION OF PLANT PRODUCTS - GENERAL AND MISC.

0606

Deep-bed rice drying simulation using two generalized single-layer models.
TAAEA. Noomhorm, A. Verma, L.R. St. Joseph, Mich. : The Society. Transactions of the ASAE - American Society of Agricultural Engineers. Sept/Oct 1986. v. 29 (5). p. 1456-1461. Includes references. (NAL Call No.: DNAL 290.9 AM32T).

0607

Deterioration of rice (*Oryza sativa*) seed in storage and its influence on field performance / by Prasoot Sittisrourng. -
Sittisrourng, Prasoot, 1937-. 1970. Thesis (Ph.D.)--Mississippi State University, 1970. Photocopy. Ann Arbor, Mich. : University Microfilms, 1971. vi, 91 leaves ; 21 cm. Bibliography: leaves 85-91. (NAL Call No.: DISS 71-1,193).

0608

Distribution of sterigmatocystin and fungal Mycelium in individual brown rice kernels naturally infected by *Aspergillus versicolor* (Mycotoxins).
Takahashi, H.CEChAF. Yasaki, H.; Nanayama, U.; Manabe, M.; Matsuura, S. St. Paul : American Association of Cereal Chemists. Cereal chemistry. Jan/Feb 1984. v. 61 (1). p. 48-52. * ill. Includes references. (NAL Call No.: 59.8 C33).

0609

Dry-season survival of *Rhynchosporium oryzae* in rice leaves and stored seeds.
MYCOAE. Thomas, M.D. Bronx, N.Y. : The New York Botanical Garden. Mycologia. Nov/Dec 1984. v. 76 (6). p. 1111-1113. Includes 8 references. (NAL Call No.: DNAL 450 M99).

0610

Erosterol versus dry matter loss as quality indicator for high-moisture rough rice during holding.
CEChAF. Naewbanij, M. Seib, P.A.; Chung, D.S.; Seitz, L.M.; Deyoe, C.W. St. Paul, Minn. : American Association of Cereal Chemists. Cereal chemistry. July/Aug 1986. v. 63 (4). p. 315-320. Includes references. (NAL Call No.: DNAL 59.8 C33).

0611

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Kassem, A.W. Kunze, O.R. St. Joseph, Mich. : The Society. Paper - American Society of Agricultural Engineers (Microfiche collection). Paper presented at the 1984 Winter Meeting of the American Society of Agricultural Engineers. Available for purchase from: The American Society of Agricultural Engineers, Order Dept., 2950 Niles Road, Winter 1984. (84-3553). 33 p. ill. (NAL Call No.: DNAL FICHE 290.9 AM32P).

0612

The impact of new short season rice varieties on drying and storage of rough rice in Texas / by Gobind Shewakram Bhagia.
Bhagia, G. S. 1967. Thesis (M.A.)--Texas A&M University, 1967. vii, 78 p. : ill. : 28 cm. Bibliography: p. 76-78. (NAL Call No.: DNAL SB191.R5B53).

0613

Post-harvest food losses in developing countries.
Pariser, E.R. Baltimore : Published for the World Bank by Johns Hopkins University Press. c1987. Food policy : integrating supply, distribution, and consumption / edited by J. Price Gittinger, Joanne Leslie, Caroline Hoisington. p. 309-325. ill. (NAL Call No.: DNAL HD9018.D44F6).

0614

Returns to rice storage, 1972-81 (Costs and returns, net harvest prices, Arkansas).
Elam, E.W.AKFRA. Holder, S.H. Fayetteville : The Station. Arkansas farm research - Arkansas Agricultural Experiment Station. July/Aug 1983. v. 32 (4). p. 3. Includes references. (NAL Call No.: 100 AR42F).

0615

Rough-rice breakage in relation to kernel thickness for hand- and combine-harvested rice.
Matthews, J. Wadsworth, J.I.; Spadaro, J.U. St. Joseph, Mich., The Society. Transactions of the ASAE - American Society of Agricultural Engineers. Jan/Feb 1981. v. 24 (1). p. 255-258. 15 ref. (NAL Call No.: 290.9 AM32T).

0616

Seed treatment in rice.
JSTED. Krishnasamy, V. Seshu, D.V. East Lansing, Mich. : Association of Official Seed Analysts. Journal of seed technology. Literature review. 1987. v. 11 (1). p. 69-78. Includes references. (NAL Call No.: DNAL

(PROTECTION OF PLANT PRODUCTS - GENERAL AND MISC.)

SB113.2.J6).

0617

**Seedling blight and stack-burn of rice and the
hot-water seed treatment /by W.H. Tisdale.**

Tisdale, W. H. 1892-. Washington, D.C. : U.S.

Dept. of Agriculture, 1922. Caption title.~

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p., 6 p. of plates : ill. ; 24 cm. (NAL Call

No.: DNAL 1 Ag84B no.1116).

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0618

Aeration of rough rice in long-term storage.
Calderwood, D.L. Cogburn, R.R.; Webb, B.D.; Marchetti, M.A. St. Joseph, Mich. : The Society. Paper - American Society of Agricultural Engineers (Microfiche collection). 1983. Paper presented at the 1983 Winter Meeting of the American Society of Agricultural Engineers. Available for purchase from: The American Society of Agricultural Engineers, Order Dept., 2950 Niles Road, St. Joseph, Michigan 49085. Telephone the Order Dept. at (616) 429-0300 for information and prices. 1983. (fiche no. 83-3535). 1 microfiche : ill. Includes references. (NAL Call No.: FICHE S-72).

0619

Breeding for host plant resistance to stored rice insects (Sitophilus oryzae, Rhyzopertha dominica).
Cogburn, R.R. TX-AR-SD. Bollich, C.N. College Station, Tex., The Station. MP - Texas Agricultural Experiment Station. July 1980. July 1980. (1451). p. 355-358. 6 ref. (NAL Call No.: 100 T31M).

0620

Comparison of malathion and three candidate protectants against insect pests of stored rice and advantages of encapsulation.
Cogburn, R.R. College Station, Tex., Southwestern Entomological Society. The Southwestern entomologist. Mar 1981. v. 6 (1). p. 38-43. 5 ref. (NAL Call No.: QL461.S65).

0621

Concentrations of methyl bromide lethal to insects in grain laboratory studies of sorption rates and effects of concentrations on rice weevil and confused flour beetle / by W. Keith Whitney and Herbert H. Walkden .
Whitney, W. Keith. Walkden, H. H. 1893-. Washington, D.C. : U.S. Dept. of Agriculture, Agricultural Marketing Service, Market Quality Research Division, 1961. Cover title.~ "November 1961.". 25 p. : ill. ; 26 cm. Bibliography: p. 25. (NAL Call No.: DNAL 1 Ag84Mr no.511).

0622

Control of the lesser grain borer, Rhyzopertha dominica (F.), and the rice weevil, Sitophilus oryzae (L.), in rough rice with a heated fluidized bed.
Vardell, H.H. Tilton, E.W. Athens, Ga., The Society. Journal of the Georgia Entomological Society. Oct 1981. v. 16 (4). p. 521-524. 6 ref. (NAL Call No.: QL461.G4).

0623

Controlling insect pests of stored rice / prepared by Store-Product Insects Branch, Market Quality Research Division, Agriculture Marketing Service, U.S. Dept. of Agriculture .
Balzer, August I. 1900-. Washington, D.C. : Agricultural Marketing Service, U.S. Dept. of Agriculture, 1964. Published in 1948 under title: Insect pests of stored rice and their control, by A.I. Balzer and R.T. Cotton. iii, 28 p. : ill. ; 24 cm. Includes bibliographical references. (NAL Call No.: DNAL 1 Ag84Ah no.129 1964).

0624

Controlling insect pests of stored rice / prepared by Stored Product Insects Research Branch, Market Quality Research Division, Agricultural Research Service .
Washington, D.C. : Agricultural Research Service, U.S. Dept. of Agriculture, 1971. Cover title. iv, 19 p. : ill. ; 26 cm. (NAL Call No.: DNAL 1 Ag84Ah no.129 1971).

0625

Controlling insect pests of stored rice / prepared by Stored-Product Insects Section, Biological Sciences Branch, Marketing Research Division, Agricultural Marketing Service. .
Washington, D.C. : Agricultural Marketing Service, U.S. Dept. of Agriculture, 1957. Cover title.~ Replaces Farmers' bulletin no. 1906, Insect pests of stored rice and their control, by August I. Balzer and R.T. Cotton. 30 p. : ill. ; 24 cm. (NAL Call No.: DNAL 1 Ag84Ah no.129).

0626

Distribution of angoumois grain moth, almond moth, and Indian meal moth in rice fields and rice storages in Texas as indicated by pheromone-baited adhesive traps (Sitotroga cerealella, Ephestia cautella, Plodia interpunctella).
Cogburn, R.R. Vick, K.W. College Park, Md., Entomological Society of America. Environmental entomology. Dec 1981. v. 10 (6). p. 1003-1007. ill. Includes 7 ref. (NAL Call No.: QL461.E532).

0627

The effect of cathode-ray irradiation on the rice weevil in wheat / by N.M. Dennis, L.H. Soderholm, and H.H. Walkden .
Dennis, N. M. 1922-. Soderholm, L. H.; Walkden, H. H. 1893-. Washington, D.C. : Market Quality Research Division, Agricultural Marketing Service, U.S. Dept. of Agriculture, 1962. Cover title.~ "April 1962.". 14 p. : ill. ; 26 cm. Bibliography: p. 14. (NAL Call No.: DNAL 1 Ag84Mr no.531).

(PROTECTION OF PLANT PRODUCTS - INSECTS)

0628

The effects of rearing temperatures on certain aspects of the biology of *Corcyra cephalonica* (Stainton), the rice moth.

Osman, N.B. Wright, V.F.; Mills, R.B.
Manhattan : Kansas State University, 1984.
Proceedings of the Third International Working Conference on Stored-Product Entomology : Oct 23-28, 1983, Kansas State Univ., Manhattan, Kansas / spon. Dept. of Entomology and Dept. of Grain Science a. p. 99-106. Includes references. (NAL Call No.: DNAL SB937.I5 1983).

0629

Effects of two insect growth regulators (hydroprene and R-20458) on the follicular epithelium and the oocytes of the rice weevil, *Sitophilus oryzae* (L.) (Coleoptera: Curculionidae) (Genetic control of stored product pests, morphology).

Mkhize, J.M. JNYEA. Gupta, A.P. Lawrence : The Society. Journal of the New York Entomological Society. Sept 1982. v. 90 (3). p. 213-218. ill. 2 p. ref. (NAL Call No.: 420 N48U).

0630

Evidence for a male-produced aggregation pheromone in the rice weevil (*Sitophilus oryzae*, pest of stored cereal grains).

Phillips, J.K. Burkholder, W.E. College Park, Md., Entomological Society of America. Journal of economic entomology. Oct 1981. v. 74 (5). p. 539-542. ill. 9 ref. (NAL Call No.: 421 J822).

0631

Factors that affect the relative resistance of rough rice to angoumois grain moths and lesser grain borers (*Sitotroga cerealella*, *Rhyzopertha dominica*).

Cogburn, R.R. EVETB. Bollich, C.N.; Meola, S. College Park : Entomological Society of America. Environmental entomology. June 1983. v. 12 (3). p. 936-942. ill. Includes references. (NAL Call No.: QL461.E532).

0632

Fenoxycarb as a long-term protectant for stored rough rice.

JEENAI. Cogburn, R.R. College Park, Md. : Entomological Society of America. Journal of economic entomology. Apr 1988. v. 81 (2). p. 722-726. Includes references. (NAL Call No.: DNAL 421 J822).

0633

Further studies on the nutritional evaluation of wheat, triticale, and rice grains using the red flour beetle (*Tribolium castaneum*).

Shariff, G. Vohra, P.; Qualset, C.O. St. Paul, Minn., American Association of Cereal Chemists. Cereal chemistry. Mar/Apr 1981. v. 58 (2). p. 86-89. 9 ref. (NAL Call No.: 59.8 C33).

0634

Gas-liquid chromatographic determination of chlordimeform and its metabolites in cargo rice and husk (Acaricides, residues, grain hygiene, chemical analysis, methods, chromatography).

Fan, D.F. JANCA. Ge, S.D. Arlington : The Association. Journal of the Association of Official Analytical Chemists. Nov 1982. v. 65 (6). p. 1517-1520. ill. 4 ref. (NAL Call No.: 381 AS7).

0635

Infrared heating with vacuum for control of the lesser grain borer, (*Rhyzopertha dominica* F.) and rice weevil (*Sitophilus oryzae* (L.)) infesting wheat (Stored-product insect control).

Tilton, E.W. GENSA. Vardell, H.H.; Jones, R.D. Athens : The Society. Journal of the Georgia Entomological Society. Jan 1983. v. 18 (1). p. 61-64. Includes references. (NAL Call No.: QL461.G4).

0636

Infrared radiation for the control of immature insects in kernels of rough rice / by Harry W. Schroeder and Elvin W. Tilton.

Schroeder, Harry W. Tilton, Elvin W. Washington, D.C. : U.S. Dept. of Agriculture, Agricultural Marketing Service, Market Quality Research Division, 1961. Cover title. 10 p. ; 26 cm. (NAL Call No.: DNAL A280.39 M34Am no.445).

0637

Insect pests of stored rice and their control / by August I. Balzer.

Balzer, August I. 1900-. Washington, D.C. : U.S. Dept. of Agriculture, 1942. 22 p. : ill. ; 23 cm. (NAL Call No.: DNAL 1 Ag84F no.1906).

0638

Insect pests of stored rice and their control / by August I. Balzer and R.T. Cotton.

Balzer, August I. 1900-. Cotton, R.T. Washington, D.C. : U.S. Dept. of Agriculture, 1947. Originally issued Aug. 1942. 24 p. : ill. ; 23 cm. (NAL Call No.: DNAL 1 Ag84F no.1906 1947).

(PROTECTION OF PLANT PRODUCTS - INSECTS)

0639

Insect prevention and control in rough rice
/prepared by Stored-Products Insects Branch,
Market Quality Research Division, Agricultural
Marketing Service.

Washington, D.C. : The Division, 1963. 7 1 :
ill. ; 24 cm. Bibliography : p. 8 . (NAL Call
No.: DNAL A280.39 Ag8M no.28).

0640

**Protecting rough rice stored in metal farm bins
from insect attack (*Sitotroga cerealella*,
Rhyzopertha dominica).**

Cogburn, R.R. JEENAI. Calderwood, D.L.; Webb,
B.D.; Marchetti, M.A. College Park :
Entomological Society of America. Journal of
economic entomology. Dec 1983. v. 76 (6). p.
1377-1383. Includes references. (NAL Call No.:
421 J822).

0641

**Repellent and growth-inhibiting effects of
turmeric oil, sweetflag oil, neem oil, and
"Margosan-O" on red flour beetle (*Coleoptera*:
Tenebrionidae).**

JEENAI. Jilani, G. Saxena, R.C.; Rueda, B.P.
College Park, Md. : Entomological Society of
America. Journal of economic entomology. Aug
1988. v. 81 (4). p. 1226-1230. Includes
references. (NAL Call No.: DNAL 421 J822).

0642

**Resistance to the lesser grain borer in Dawn'
and Labelle' varieties of rice.**

JEENAI. McGaughey, W.H. College Park, Md. :
Entomological Society of America. Journal of
economic entomology. Aug 1973. v. 66 (4). p.
1005. Includes references. (NAL Call No.: DNAL
421 J822).

0643

Rough rice storage.

Cogburn, R.R. St. Paul : American Association
of Cereal Chemists, c1985. Rice: chemistry and
technology / edited by Bienvenido O. Juliano.
p. 265-287. ill. Includes references. (NAL Call
No.: DNAL TX558.R5R53 1985).

0644

**SEM observations of rice weevil larvae,
Sitophilus oryzae (L.) (*Coleoptera*:
Curculionidae).**

JKESA. Speirs, R.D. White, G.D.; Wilson, J.L.
Lawrence, Kan. : The Society. Journal of the
Kansas Entomological Society. Apr 1986. v. 59
(2). p. 390-394. ill. Includes references. (NAL
Call No.: DNAL 420 K13).

0645

**Sex pheromones of rice moth, *Corcyra
cephalonica* Stainton. I. Identification of male
pheromone.**

JCECD. Zagatti, P. Kunesch, G.; Ramiandrasoa,
F.; Malosse, C.; Hall, D.R.; Lester, R.;
Nesbitt, B.F. New York, N.Y. : Plenum Press.
Journal of chemical ecology. July 1987. v. 13
(7). p. 1561-1573. ill. Includes references.
(NAL Call No.: DNAL QD415.A1J6).

0646

**Sex pheromones of rice moth, *Corcyra
cephalonica* Stainton. II. Identification and
role of female pheromone.**

JCECD. Hall, D.R. Cork, A.; Lester, R.;
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**Sound detection of stored-product insects that
feed inside kernels of grain.**

JEENAI. Vick, K.W. Webb, J.C.; Weaver, B.A.;
Litzkow, C. College Park, Md. : Entomological
Society of America. A system for acoustically
detecting internal-feeding insect larvae in
grain is described. Larvae of the lesser grain
borer, *Rhyzopertha dominica* (F.); rice weevil,
Sitophilus oryzae (L.); and Angoumois grain
moth, *Sitotroga cerealella* (Olivier), produced
sounds loud enough to be detected 13-19 d after
oviposition, depending upon the species. After
first detection larvae produced detectable
sounds 71-90% of the time until pupation.
Infestation rates could be estimated, at least
in the range of 1-20 infested kernels per 100
ml of grain where the infestation rate was
strongly correlated to number of sounds as
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economic entomology. Oct 1988. v. 81 (5). p.
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No.: DNAL 421 J822).

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(PROTECTION OF PLANT PRODUCTS - INSECTS)

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Ultra-low-volume applications of synergized
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Barnyardgrass control in rice with fenoxaprop (Whip).
RRMSD. Snipes, C.E. Street, J.E. Mississippi State, Miss. : The Station. Research report - Mississippi Agricultural and Forestry Experiment Station. Mar 1987. v. 12 (3). 4 p. Includes references. (NAL Call No.: DNAL S79.E37).

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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).

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Basis for differential susceptibility of rice (Oryza sativa), wild rice (Zizania palustris), and giant burreed (Sparganium eurycarpum) to bentazon.
WEESA6. Clay, S.A. Delke, E.A. Champaign, Ill. : Weed Science Society of America. Abstract: The basis for differential susceptibility of tolerant rice (Oryza sativa L.), susceptible wild rice (Zizania palustris L.), susceptible giant burreed (Sparganium eurycarpum Engelm. ~ SPGEU) to foliar application of 1.1 kg ai/ha of bentazon

3-(1-methylethyl)-(1H)-2,1,3,-benzothiadiazin-4(3H)-one 2,2-dioxide was investigated by evaluating herbicide absorption, translocation, and metabolism. Giant burreed and wild rice absorbed more bentazon than rice at similar growth stages. Less than 10% of the absorbed bentazon was translocated out of the treated leaf of any of the species. Differential tolerance of bentazon among the three species was due to differences in the rate of bentazon metabolism. Rice metabolized 98% of the bentazon retained in the treated leaf 1 day after treatment (DAT), while giant burreed and wild rice metabolized less than 2% of the bentazon retained in the treated leaf 5 DAT. Weed science. May 1988. v. 36 (3). p. 301-304. Includes references. (NAL Call No.: DNAL 79.8 W41).

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WEESA6. Smith, R.J. Jr. Champaign, Ill. : Weed Science Society of America. Weed science. Paper presented at a symposium on "Microbiological Control of Weeds," February 10, 1985, Miami, Florida. 1986. v. 34 (suppl. 1). p. 17-23. Includes references. (NAL Call No.: DNAL 79.8 W41).

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Rich, G.J. Auburn, Ala., The Society.
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No.: 79.9 S08).

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RRMSD. Street, J.E. Miller, T.C. Mississippi
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(*Echinochloa crus-galli*) control in rice (*Oryza
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WEESA6. Snipes, C.E. Street, J.E. Champaign,
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Prather, T.S. Callihan, R.H.; Thill, D.C.

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Hemp sesbania control and rice tolerance to acifluorfen.

Street, J.E. Richard, E.P. Jr. Mississippi State, Miss. : The Station. Research report - Mississippi Agricultural and Forestry Experiment Station. May 1984. v. 9 (6). 4 p. Includes references. (NAL Call No.: S79.E37).

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Richard, E.P. Jr. Street, J.E. Champaign : Weed Science Society of America. Weed science. Mar 1984. v. 32 (2). p. 157-162. Includes references. (NAL Call No.: 79.8 W41).

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Griffin, J.L. Regan, R.P.; Dunand, R.T.; Baker, J.B.; Cohn, M.A. Crowley : The Station. Annual progress report - Louisiana, Agricultural Experiment Station. 1984. (76th). p. 312-316. (NAL Call No.: DNAL 100 L93 (3)).

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

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WEESA6. Klerk, R.A. Smith, R.J. Jr.; TeBeest, D.O. Champaign, Ill. : Weed Science Society of America. Weed science. Jan 1985. v. 33 (1). p. 95-99. Includes 12 references. (NAL Call No.: DNAL 79.8 W41).

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WEESA6. Diarra, A. Smith, R.I. Jr.; Talbert, R.E. Champaign, Ill. : Weed Science Society of America. Weed science. Sept 1985. v. 33 (5). p. 644-649. Includes 25 references. (NAL Call No.: DNAL 79.8 W41).

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Longevity of witchweed (*Striga asiatica*) seed (Effect of storage conditions on seed germination, parasitizes maize, sorghum, sugarcane, rice, North Carolina).

Bebawi, F.F. Eplee, R.E.; Harris, C.E.; Norris, R.S. Champaign, Ill. : Weed Science Society of America. Weed science. July 1984. v. 32 (4). p. 494-497. Includes 14 references. (NAL Call No.: 79.8 W41).

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MCPA--an alternative to 2, 4, 5-T for midseason weed control in rice.

Street, J.E. Miller, T.C. Mississippi State, Miss. : The Station. MAFES research highlights - Mississippi Agricultural & Forestry Experiment Station. June 1984. v. 47 (6). p. 6-7. (NAL Call No.: DNAL 100 M69MI).

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Street, J.E. Miller, T.C. Mississippi State, Miss. : The Station. Research report - Mississippi Agricultural and Forestry Experiment Station. Apr 1984. v. 9 (4). 3 p. (NAL Call No.: S79.E37).

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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).

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PPGGD. Hargroder, T.G. Tautvydas, K.J. Lake Alfred : The Society. Proceedings annual meeting - Plant Growth Regulator Society of America. 1985. (12th). p. 8-12. Includes references. (NAL Call No.: DNAL SB128.P5).

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Methods for controlling jointvetch and waterprimrose in rice fields in Puerto Rico.

JAUPA. Liu, L.C. Lozano, J.M. Mayaguez : University of Puerto Rico, Agricultural Experiment Station. The Journal of agriculture of the University of Puerto Rico. Jan 1987. v. 71 (1). p. 107-112. Includes references. (NAL Call No.: DNAL 8 P832J).

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Molinate plus extender for red rice control.

Khodayari, K. Smith, R.J. Jr. Fayetteville, Ark. : The Station. Arkansas farm research - Arkansas Agricultural Experiment Station. May/June 1984. v. 33 (3). p. 2. (NAL Call No.: 100 AR42F).

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WSWPA. Hill, J.E. Brandon, B.W.; Bayer, D.E.; Pacheco, J.L.; Holzer, M.J. Reno, Nev. : The Society. Proceedings - Western Society of Weed Science. 1987. v. 40. p. 141-142. (NAL Call No.: DNAL 79.9 W52).

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Richard, E.P. Jr. Miller, T.C.; Bowman, D.H. Mississippi State : The Station. MAFES research highlights - Mississippi Agricultural & Forestry Experiment Station. Apr 1983. v. 46 (4). p. 8. (NAL Call No.: 100 M69MI).

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Richard, E.P. Jr. Miller, T.C.; Bowman, D.H. Mississippi State, The Station. Research report - Mississippi Agricultural & Forestry Experiment Station. July 1981. v. 6 (6): 2 p. (NAL Call No.: S79.E37).

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Oxidiazon absorption, translocation, and metabolism in rice (Oryza sativa) and barnyardgrass (Echinochloa crus-galli).

WEESA6. Achhireddy, N.R. Kirkwood, R.C.; Fletcher, W.W. Champaign, Ill. : Weed Science Society of America. Weed science. Nov 1984. v. 32 (6). p. 727-731. Includes 24 references. (NAL Call No.: DNAL 79.8 W41).

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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).

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Patterns of weed emergence in tropical soil.

WEESA6. Zimdahl, R.L. Moody, K.; Lubigan, R.T.; Castin, E.M. Champaign, Ill. : Weed Science Society of America. Patterns of weed emergence in upland and lowland soils were observed for several months after tillage by counting all emerged species. Forty to 50% of weed emergence occurred within 6 weeks of tillage on both sites. Significant emergence occurred within 3 weeks on both sites, but very little emergence occurred within 1 week in lowland soil. The data confirm the strong influence of soil tillage on weed emergence. They also suggest an influence of radiant energy on weed emergence. Peaks of weed emergence 6 or more weeks after tillage often occurred coincident with or soon after peaks of radiant energy. Weed science. Sept 1988. v. 36 (5). p. 603-608. Includes references. (NAL Call No.: DNAL 79.8 W41).

0736

Pendimethalin for grass control in rice (Herbicides, weeds, Mississippi Delta).

Street, J.E. RRMSD. Kurtz, M.E.; Richard, E.P. Jr.; Miller, T.C. Mississippi State : The Station. Research report - Mississippi Agricultural and Forestry Experiment Station. Jan 1983. v. 7 (19). 3 p. (NAL Call No.: S79.E37).

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Pendimethalin for grass control in rice (Weeds, herbicides, Mississippi).

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Pendimethalin for grass control in rice (Weeds, herbicides, Mississippi Delta).

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Plant growth regulator effects on rice (a preliminary report) (Cytogen, mefluidide, suppression of red rice panicles).
Dunand, R. Dilly, R. Crowley : The Station. Annual progress report - Louisiana, Rice Experiment Station. 1982. 1982. (74th). p. 210-213. (NAL Call No.: 100 L93 (3)).

0740

Postemergence control of red rice (*Oryza sativa*) DPX Y6202).
WEESA6. Barrentine, W.L. Street, J.E.; Kurtz, M.E. Champaign, Ill. : Weed Science Society of America. Weed science. Nov 1984. v. 32 (6). p. 832-834. Includes 8 references. (NAL Call No.: DNAL 79.8 W41).

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Dusky, J.A. Belle Glade, Fla. : The Center. Belle Glade EREC research report EV - Florida University Agricultural Research and Education Center. Paper presented at the Eleventh Annual Rice Field Day, July 11, 1988, Belle Glade, Florida. July 1988. (1988-2). p. 4-5. maps. (NAL Call No.: DNAL 100 F663).

0743

Production of commercial rice varieties resistant to herbicides effective on red rice.
Croughan, T.P. Baker, J.B.; Dunand, R.T.; Pizzolatto, M.M. Crowley : The Station. Annual progress report - Louisiana, Agricultural Experiment Station. 1984. (76th). p. 67-68. (NAL Call No.: DNAL 100 L93 (3)).

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MAEBB. Barrentine, W.L. Kurtz, M.E.; Street, J.E. Mississippi State, Miss. : The Station. Bulletin - Mississippi Agricultural & Forestry Experiment Station. May 1985. (938). 5 p. Includes 12 references. (NAL Call No.: DNAL S79.E3).

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Red rice (*Oryza sativa*) and junglerice (*Echinochloa colonum*) control in solid-seeded soybeans (*Glycine max*).
WEESA6. Griffin, J.L. Harger, T.R. Champaign, Ill. : Weed Science Society of America. Weed science. July 1986. v. 34 (4). p. 582-586. Includes 12 references. (NAL Call No.: DNAL 79.8 W41).

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Red rice (*Oryza sativa*) control in drill-seeded rice (*Oryza sativa*).
WEESA6. Diarra, A. Smith, R.U. Jr.; Talbert, R.E. Champaign, Ill. : Weed Science Society of America. Weed science. Sept 1985. v. 33 (5). p. 703-707. Includes 20 references. (NAL Call No.: DNAL 79.8 W41).

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Red rice (*Oryza sativa*) control with herbicide treatments in soybeans (*Glycine max*).
WEESA6. Khodayari, K. Smith, R.U. Jr.; Black, H.L. Champaign, Ill. : Weed Science Society of America. Weed science. Jan 1987. v. 35 (1). p. 127-129. Includes references. (NAL Call No.: DNAL 79.8 W41).

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Red rice studies: cultural management experiment (a preliminary report) (Water management practices, seeding rates, planting dates, weed control, Louisiana).
Sonnier, E.A. Baker, J.B.; White, L.M. III. Crowley : The Station. Annual progress report - Louisiana, Rice Experiment Station. 1982. 1982. (74th). p. 234-241. ill. (NAL Call No.: 100 L93 (3)).

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Sonnier, E.A. Baker, J.B. Crowley. Annual progress report Louisiana. Rice Experiment Station. 1980. 1980. (72nd). p. 186-192. ill. (NAL Call No.: 100 L93 (3)).

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TBMSD. Snipes, C.E. Street, J.E. Mississippi State, Miss. : The Station. Technical bulletin - Mississippi Agricultural and Forestry Experiment Station. Apr 1987. (139). 6 p. Includes references. (NAL Call No.: DNAL S79.E8).

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The response of weeds in water-seeded rice to the rate and timing of bensulfuron-methyl.
Hill, J.E. Pacheco, J.L.; Brandon, B.W.; Holzer, M.J.; Bayer, D.E. S.1. : Western Society of Weed Science. Research progress report - Western Society of Weed Science. 1987. p. 230-231. (NAL Call No.: DNAL 79.9 W52R).

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Rice tissue culture research. Tissue culture production of commercial rice varieties resistant to herbicides effective on red rice.
Croughan, T.P. Baker, J.B.; Sonnier, E.A.; Pizzolatto, M.M. Crowley, La., The Station. Annual progress report - Louisiana, Rice Experiment Station. 1981. 1981. (73rd). p. 196-199. (NAL Call No.: 100 L93 (3)).

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Rice tolerance to postemergence grass herbicides.
Dusky, J.A. Jones, D.B. Belle Glade, Fla. : The Center. Belle Glade EREC research report EV - Florida University Agricultural Research and Education Center. Paper presented at the Eleventh Annual Rice Field Day, July 11, 1988, Belle Glade, Florida. July 1988. (1988-2). p. 8-9. (NAL Call No.: DNAL 100 F663).

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Fagala, B.L. MS. Houston, D.W. State College, Miss., The Service. Publication - Cooperative Extension Service, Mississippi State University. Mississippi State University. Cooperative Extension Service. Jan 1980. Jan 1980. (1217). 3 p. ill. (NAL Call No.: 275.29 M68EXT).

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Rice weed control in the EAA (Everglades Agricultural Area, early postemergence treatments, Florida).
Dusky, J.A. Belle Glade : The Center. Belle Glade AREC research report EV - Florida University Agricultural Research and Education Center. July 15, 1983. (1983-6). Presented at the Sixth Annual Rice Field Day, Belle Glade, Florida, July 15, 1983. July 15, 1983. (1983-6). p. 15-19. (NAL Call No.: 100 F663).

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Rice weed control studies.
Baker, J.B. Crowley, La., The Station. Annual progress report - Louisiana, Rice Experiment Station. 1981. 1981. (73rd). p. 206-219. (NAL Call No.: 100 L93 (3)).

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Rice weed control studies.
Baker, J.B. Shrefler, J.W. Crowley : The Station. Annual progress report - Louisiana, Agricultural Experiment Station. 1984. (76th). p. 165-171. (NAL Call No.: DNAL 100 L93 (3)).

0759

Rice weed control studies (a preliminary report) (Herbicide tolerance studies, Louisiana).
Baker, J.B. Shrefler, J. Crowley : The Station. Annual progress report - Louisiana, Rice Experiment Station. 1982. 1982. (74th). p. 224-233. (NAL Call No.: 100 L93 (3)).

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Seed pelleting as an approach to herbicide selectivity in directseeded rice / by Dimyati Nangju. -.
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0761

Selective reproductive control of red rice in rice with amidochlor.
SWSPBE. Stehling, S.J. Kaufmann, J.E. Raleigh, N.C. : The Society. Proceedings - Southern Weed Science Society. 1986. (39th). p. 57-62. Includes references. (NAL Call No.: DNAL 79.9 S08 (P)).

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Soybean weed control studies.

Griffin, J.L. Habetz, R.U.; Regan, R.P. Crowley : The Station. Annual progress report - Louisiana, Agricultural Experiment Station. 1984. (76th). p. 324-342. (NAL Call No.: DNAL 100 L93 (3)).

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Sprinklers instead of canals? (Sprinkler irrigation of rice, herbicides and weed control).

McLean, Va., Gordon S. Carlson. The Rice journal. June 1981. v. 84 (6). p. 12-13. (NAL Call No.: 59.8 R36).

0764

Suppression of red rice (*Oryza sativa*) seed production with fluazifop and quizalofop.

WEESA6. Salzman, F.P. Smith, R.U. Jr.; Talbert, R.E. Champaign, Ill. : Weed Science Society of America. Field research was conducted in 1985 and 1986 to compare the efficacy of fluazifop and quizalofop on production of panicles and seeds of red rice. Single and first sequential treatments were applied to red rice in the early-tillering, midtillering, and panicle initiation stages of growth. Sequential treatments were applied 14 days after each earlier application to red rice in the midtillering, late-tillering, and early-heading growth stages, respectively. Both herbicides were applied singly or sequentially at 70, 140, and 280 g/ha. Sequential applications of fluazifop and quizalofop at 280 g/ha caused the greatest reduction of red rice panicle and seed production. Fluazifop at 280 g/ha applied sequentially reduced panicle production 75 to 80% and seed production 80%; 140 g/ha applied sequentially reduced seed production 83%. Quizalofop at 280 g/ha applied sequentially reduced panicle production 75 to 100% and seed production 91%. Sequential applications of either herbicide applied to red rice plants in the panicle initiation and early-heading growth stages were the most effective treatments. Weed science. Nov 1988. v. 36 (6). p. 800-803. Includes references. (NAL Call No.: DNAL 79.8 W41).

0765

Tissue culture production of commercial rice varieties resistant to herbicides effective on red rice (a preliminary report) (Breeding, weed control).

Croughan, T.P. Baker, J.B.; Sonnier, E.A.; Pizzolatto, M.M. Crowley : The Station. Annual progress report - Louisiana, Rice Experiment Station. 1982. 1982. (74th). p. 32-38. (NAL Call No.: 100 L93 (3)).

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Foell, R.H. Champaign : Weeds Today, Inc. Weeds today. 1983. v. 14 (1). p. 7-8. ill. (NAL Call No.: SB610.W4).

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Dusky, J.A. Belle Glade : The Center. Belle Glade EREC research report EV - Florida University Agricultural Research and Education Center. Paper presented at the Tenth Annual Rice Field Day, July 10, 1987, Belle Glade, Florida. 1987. (1987-2). p. 8-12. (NAL Call No.: DNAL 100 F663).

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Weed control.

AKFRAC. Smith, R.U. Jr. Fayetteville, Ark. : The Station. Arkansas farm research - Arkansas Agricultural Experiment Station. Mar/Apr 1988. v. 37 (2). p. 6. (NAL Call No.: DNAL 100 AR42F).

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Weed control in Bellemont rice.

Eastin, E.F. College Station, Tex., The Station. MP - Texas Agricultural Experiment Station. Mar 1981. Mar 1981. (1476). p. 26-30. (NAL Call No.: 100 T31M).

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Eastin, E.F. Klosterboer, A.D. College Station, Tex. : The Station. Bulletin B - Texas Agricultural Experiment Station. Mar 1984. Included in "The Semidwarfs--a new era in rice production." Mar 1984. (1462). p. 30-34. Includes references. (NAL Call No.: 100 T31S (1)).

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Weed control practices in rice.

Smith, R.U. Jr. 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. 458-462. Includes 10 ref. (NAL Call No.: SB951.I5 1979).

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Weed control technology for rice in the Southern U.S. (Preventive, cultural, mechanical, biological and chemical methods).
Smith, R.U. Jr. Belle Glade : The Center. Belle Glade AREC research report EV - Florida University Agricultural Research and Education Center. July 15, 1983. (1983-6). Presented at the Sixth Annual Rice Field Day, Belle Glade, Florida, July 15, 1983. July 15, 1983. (1983-6). p. 10-14. (NAL Call No.: 100 F663).

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Weed management systems for rice in Florida.
Dusky, J.A. Belle Glade : The Center. Belle Glade research report EV - Florida University Agricultural Research and Education Center. 1984. (1984-10). p. 9-16. (NAL Call No.: DNAL 100 F663).

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Weed management systems in Everglades rice culture.
Dusky, J.A. Belle Glade : The Center. Belle Glade EREC research report EV - Florida University Agricultural Research and Education Center. Presented at the "Ninth Annual Rice Field Day," August 1, 1986, Belle Glade, Florida. Aug 1, 1986. (1986-6). p. 13-23. (NAL Call No.: DNAL 100 F663).

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Weeds and their control in rice production /by Roy J. Smith, Jr., and W.C. Shaw.
Smith, Roy Jefferson, 1929-. Shaw, Warren Cleaton, 1922-. Washington, D.C. : Agricultural Research Service, U.S. Dept. of Agriculture in cooperation with Arkansas Agricultural Experiment Station, 1966. iv, 64 p. : ill. ; 26 cm. Bibliography: p. 61-64. (NAL Call No.: DNAL 1 Ag84Ah no.292).

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Weeds and weed management in upland rice.
ADAGA. Sankaran, S. De Datta, S.K. Orlando, Fla. : Academic Press. Advances in agronomy. Literature review. 1985. v. 38. p. 283-337. Includes references. (NAL Call No.: DNAL 30 AD9).

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Weeds in agronomic crops--rice.
SWSPB. Street, J.E. Champaign : The Society. Proceedings - Southern Weed Science Society. 1987. (40th). p. 59-71. (NAL Call No.: DNAL 79.9 S08).

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Action of malathion plus lindane pesticide on crustacean populations.
EESAD. Fores, E. Comin, F.A. Duluth, Minn. : Academic Press. Ecotoxicology and environmental safety. Apr 1988. v. 15 (2). p. 180-185. Includes references. (NAL Call No.: DNAL QH545.A1E29).

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Activities of the N-phenyl imide S-23142 in carotenoid-deficient seedlings of rice and cucumber.
PCBPB. Sato, R. Nagano, E.; Oshio, H.; Kamoshita, K. Duluth, Minn. : Academic Press. Pesticide biochemistry and physiology. July 1988. v. 31 (3). p. 213-220. Includes references. (NAL Call No.: DNAL SB951.P49).

0780

Aquatic coleoptera associated with Arkansas rice, with observations on the effects of carbofuran, molinate, predatory fish and late-planting.
SWNAA. Heiss, J.S. Harp, G.L.; Meisch, M.V. Austin : Southwestern Association of Naturalists. The Southwestern naturalist. Nov 10, 1986. v. 31 (4). p. 521-525. Includes references. (NAL Call No.: DNAL 409.6 S08).

0781

Azodrin poisoning of waterfowl in rice fields in Louisiana.
White, D.H. JWIDA. Mitchell, C.A.; Kolbe, E.J.; Ferguson, W.H. Ames : Wildlife Disease Association. Journal of wildlife diseases. Oct 1983. v. 19 (4). p. 373-375. (NAL Call No.: 41.9 W64B).

0782

Basis for differential susceptibility of rice (*Oryza sativa*), wild rice (*Zizania palustris*), and giant burreed (*Sparganium eurycarpum*) to bentazon.
WEESA6. Clay, S.A. Delke, E.A. Champaign, Ill. : Weed Science Society of America. Abstract: The basis for differential susceptibility of tolerant rice (*Oryza sativa* L.), susceptible wild rice (*Zizania palustris* L.), susceptible giant burreed (*Sparganium eurycarpum* Engelm. ~ SPGEU) to foliar application of 1.1 kg ai/ha of bentazon
3-(1-methylethyl)-(1H)-2,1,3,-benzothiadiazin-4(3H)-one 2,2-dioxide was investigated by evaluating herbicide absorption, translocation, and metabolism. Giant burreed and wild rice absorbed more bentazon than rice at similar growth stages. Less than 10% of the absorbed bentazon was translocated out of the treated leaf of any of the species. Differential tolerance of bentazon among the three species

was due to differences in the rate of bentazon metabolism. Rice metabolized 98% of the bentazon retained in the treated leaf 1 day after treatment (DAT), while giant burreed and wild rice metabolized less than 2% of the bentazon retained in the treated leaf 5 DAT. Weed science. May 1988. v. 36 (3). p. 301-304. Includes references. (NAL Call No.: DNAL 79.8 W41).

0783

BHC-induced molt inhibition in the fresh water rice field crab (*Oziotelphusa senex senex* Fabricius) (1, 2, 3, 4, 5, 6-hexachlorocyclohexane).
Sreenivasula Reddy, P. Bhagyalakshmi, A.; Ramamurthi, R. New York : Alan R. Liss. Journal of experimental zoology. Oct 10, 1982. v. 223 (2). p. 183-184. 6 ref. (NAL Call No.: 410 J825).

0784

Biokinetics and metabolism of N-(2,3-dichlorophenyl)-3,4,5,6-tetrachlorophthalamic acid (a new systemic bactericide for the control of bacterial leaf blight (*Xanthomonas oryzae*)) in rice.
Kirkpatrick, D. Finn, C.M.; Conway, B.; Hawkins, D.R.; Honda, T.; Ishida, M.; Powell, G.P. Washington, D.C., American Chemical Society. Journal of agricultural and food chemistry. May/June 1981. v. 29 (3). p. 608-614. 111. 7 ref. (NAL Call No.: 381 J8223).

0785

Buprofezin, a selective insecticide for the management of rice planthoppers (Homoptera: Delphacidae) and leafhoppers (Homoptera: Cicadellidae) (*Nilaparvata lugens*, *Sogatella furcifera*, *Nephotettix virescens*).
Heinrichs, E.A. Basilio, R.P.; Valencia, S.L. College Park, Md. : Entomological Society of America. Environmental entomology. Apr 1984. v. 13 (2). p. 515-521. Includes references. (NAL Call No.: QL461.E532).

0786

Catalyzed photodegradation of the herbicides molinate and thiobencarb.
ACSMC. Draper, R.B. Crosby, D.G. Washington, D.C. : The Society. ACS Symposium series - American Chemical Society. 1986. (327). p. 240-247. Includes references. (NAL Call No.: DNAL QD1.A45).

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Characterization of arsenic metabolites in rice plant treated with DSMA (disodium methanearsonate).

JAFCAU. Odanaka, Y. Tsuchiya, N.; Matano, O.; Goto, S. Washington, D.C. : American Chemical Society. Journal of agricultural and food chemistry. July/Aug 1985. v. 33 (4). p. 757-763. Includes references. (NAL Call No.: DNAL 381 J8223).

0788

Comparative metabolism of sulfamidine and chlordimeform in rats.

JAFCAU. Watanabe, Y. Matsumura, F. Washington, D.C. : American Chemical Society. Journal of agricultural and food chemistry. May/June 1987. v. 35 (3). p. 379-384. Includes references. (NAL Call No.: DNAL 381 J8223).

0789

Comparison of malathion and three candidate protectants against insect pests of stored rice and advantages of encapsulation.

Cogburn, R.R. College Station, Tex., Southwestern Entomological Society. The Southwestern entomologist. Mar 1981. v. 6 (1). p. 38-43. 5 ref. (NAL Call No.: QL461.S65).

0790

Controlling insect pests of stored rice / prepared by Store-Product Insects Branch, Market Quality Research Division, Agriculture Marketing Service, U.S. Dept. of Agriculture .

Balzer, August I. 1900-. Washington, D.C. : Agricultural Marketing Service, U.S. Dept. of Agriculture, 1964. Published in 1948 under title: Insect pests of stored rice and their control, by A.I. Balzer and R.T. Cotton. iii, 28 p. : ill. ; 24 cm. Includes bibliographical references. (NAL Call No.: DNAL 1 Ag844h no.129 1964).

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Controlling insect pests of stored rice / prepared by Stored Product Insects Research Branch, Market Quality Research Division, Agricultural Research Service .

Washington, D.C. : Agricultural Research Service, U.S. Dept. of Agriculture, 1971. Cover title. iv, 19 p. : ill. ; 26 cm. (NAL Call No.: DNAL 1 Ag844h no.129 1971).

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The degradation and bioactivity of metolachlor in the soil.

WEESA6. Braverman, M.P. Lavy, T.L.; Barnes, C.U. Champaign, Ill. : Weed Science Society of America. Weed science. May 1986. v. 34 (3). p. 479-484. Includes references. (NAL Call No.: DNAL 79.8 W41).

0793

Degradation of carbofuran by Azospirillum lipoferum and Streptomyces spp. isolated from flooded alluvial soil.

BECTA. Venkateswarlu, K. Sethunathan, N. New York, N.Y. : Springer-Verlag. Bulletin of environmental contamination and toxicology. Nov 1984. v. 33 (5). p. 556-560. Includes references. (NAL Call No.: DNAL RA1270.P35A1).

0794

Degradation of triphenyltin hydroxide (fungicide use on rice) in water (Environmental pollutants).

Soderquist, C.J. Crosby, D.G. Washington, D.C., American Chemical Society. Journal of agricultural and food chemistry. Jan/Feb 1980. v. 28 (1). p. 111-117. ill. 26 ref. (NAL Call No.: 381 J8223).

0795

Determination of bensulfuron methyl residues in rice grain and straw by high-performance liquid chromatography.

JAFCAU. Slates, R.V. Washington, D.C. : American Chemical Society. Journal of agricultural and food chemistry. Nov/Dec 1988. v. 36 (6). p. 1207-1211. Includes references. (NAL Call No.: DNAL 381 J8223).

0796

Dissipation of carbaryl and the 1-naphthol metabolite in flooded rice fields.

JEVQAA. Deuel, L.E. Jr. Brown, K.W.; Price, J.D.; Turner, F.T. Madison, Wis. : American Society of Agronomy. Journal of environmental quality. July/Sept 1985. v. 14 (3). p. 349-354. ill. Includes references. (NAL Call No.: DNAL QH540.J6).

0797

Drepamon (a pre- and postemergence herbicide effective against weeds in rice, residue analysis).

Fabbrini, R. Galluzzi, G. New York, Academic Press, 1980. Updated general techniques and additional pesticides, edited by Gunter Zweig and Joseph Sherma. p. 307-318. ill. 2 ref. (NAL Call No.: 395).

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The economic impact of cancelling the use of 2,4,5-T in rice production by Arthur R. Gerlow . --.
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Street, J.E.WEESA. Richard, E.P. Jr. Champaign : Weed Science Society of America. Weed science. Sept 1983. v. 31 (5). p. 672-673. Includes references. (NAL Call No.: 79.8 W41).

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Brewer, F. Lavy, T.L.; Talbert, R.E. Champaign, Ill., Weed Science Society of America. Weed science. Mar 1982. v. 30 (2). p. 153-158. ill. Includes 31 ref. (NAL Call No.: 79.8 W41).

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0803

The effects of selected rice and soybean pesticides on the eggs of Psorophora columbiae.
Klass, M.C. Olson, J.K. Fresno, Calif. : The Association. Journal of the american mosquito control association. Dec 1985. v. 1 (4). p. 458-462. Includes references. (NAL Call No.: DNAL QL536.J686).

0804

Effects of selected rice-field herbicides on photosynthesis, respiration, and nitrogen assimilating enzyme systems of paddy soil diazotrophic cyanobacteria.
PCBPB. Singh, L.J. Tiwari, D.N. Duluth, Minn. : Academic Press. Pesticide biochemistry and physiology. Literature review. June 1988. v. 31 (2). p. 120-128. Includes references. (NAL Call No.: DNAL SB951.P49).

0805

Effects of simulated MSMA drift on rice (Oryza sativa). II. Arsenic residues in foliage and grain and relationships between arsenic residues, rice toxicity symptoms, and yields (Herbicide).
Wauchope, R.D. Richard, E.P.; Hurst, H.R. Champaign, Ill., Weed Science Society of America. Weed science. July 1982. v. 30 (4). p. 405-410. ill. 25 ref. (NAL Call No.: 79.8 W41).

0806

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Effects of soil water content on pendimethalin dissipation (Oryza sativa, Glycine max, herbicide).
Barrett, M.R.UEVQA. 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.U6).

0808

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Schaefer, C.H. Miura, T.; Dupras, E.F. Jr.; Wilder, W.H. College Park, Md., Entomological Society of America. Journal of economic entomology. Oct 1981. v. 74 (5). p. 597-600. 3 ref. (NAL Call No.: 421 J822).

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JFPRDR. Ito, Y. Suzuki, H.; Ogawa, S.; Iwaida, M. Ames, Iowa : International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. Apr 1985. v. 48 (4). p. 320-324. ill. Includes 6 references. (NAL Call No.: DNAL 44.8 J824).

0810

Evaluation and utilization of neem cake against the rice brown planthopper, Nilaparvata lugens (Homoptera: Delphacidae) (Azadirachta indica).
Saxena, R.C. Justo, H.D. Jr.; Epino, P.B. College Park, Md. : Entomological Society of America. Journal of economic entomology. Apr 1984. v. 77 (2). p. 502-507. ill. Includes references. (NAL Call No.: 421 J822).

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Sciumbato, G.L. Davis, R.G.; Miller, T.C. Mississippi State, The Station. Research report - Mississippi Agricultural & Forestry Experiment Station. June 1981. v. 5 (20). 3 p. Includes 3 ref. (NAL Call No.: S79.E37).

0813

Fate of pentachlorophenol-14C (carbon-labeled pentachlorophenol) in rice plants under controlled conditions (Pesticides, Oryza sativa).

Weiss, U.M.JAFCA. Moza, P.; Scheunert, I.; Haque, A.; Korte, F. Washington : American Chemical Society. Journal of agricultural and food chemistry. Nov/Dec 1982. v. 30 (6). p. 1186-1190. ill. Includes references. (NAL Call No.: 381 J8223).

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JEVQAA. Ross, L.J. Sava, R.J. Madison, Wis. : American Society of Agronomy. Journal of environmental quality. July/Sept 1986. v. 15 (3). p. 220-225. ill. Includes references. (NAL Call No.: DNAL QH540.J6).

0815

Fate of 3,4-dichloroaniline in a rice (Oryza sativa)-paddy microecosystem (herbicide propanil).

Isensee, A.R. Kaufman, D.D.; Jones, G.E. Champaign : Weed Science Society of America. Weed science. Nov 1982. v. 30 (6). p. 608-613. ill. 12 ref. (NAL Call No.: 79.8 W41).

0816

Gas chromatographic-mass spectrometric characterization of an alteration product of malathion detected in stored rice.

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Fan, D.F.JANCA. Ge, S.D. Arlington : The Association. Journal of the Association of Official Analytical Chemists. Nov 1982. v. 65 (6). p. 1517-1520. ill. 4 ref. (NAL Call No.: 381 AS7).

0818

Herbicide safeners and activated carbon for rice and sorghum protection against marginally selective herbicides /Voni Anuniciacao de Andrade.

Andrade, Voni Anuniciacao de. 1985. Thesis (Ph.D.)--Purdue University, 1985. xiii, 102 p. : ill. Bibliography: p. 95-101. (NAL Call No.: DNAL DISS 86-22,137).

0819

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PCBPB. Salimath, B.P. Sharada, R.; Karanth, N.G.K.; Shetty, H.S.; Majumder, S.K. Duluth, Minn. : Academic Press. Pesticide biochemistry and physiology. June 1988. v. 31 (2). p. 146-154. ill. Includes references. (NAL Call

No.: DNAL SB951.P49).

0820

Identification of glucosylated conjugates and oxygenated metabolites of nonionic surfactants in barley and rice leaf tissue (Pesticide formulating agents).

Stolzenberg, G.E. Olson, P.A.; Tanaka, F.S.; Mansager, E.R.; Lamoureux, C.H. Washington, D.C. : The Society. ACS Symposium series - American Chemical Society. 1984. 1984. (254). p. 207-218. Includes references. (NAL Call No.: QD1.A45).

0821

Influence of flood interval and cultivar on rice (*Oryza sativa*) tolerance to fenoxaprop.
WEESA6. Snipes, C.E. Street, J.E.; Boykin, D.L. Champaign, Ill. : Weed Science Society of America. Weed science. Nov 1987. v. 35 (6). p. 842-845. Includes references. (NAL Call No.: DNAL 79.8 W41).

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Influence of MSMA on straighthead, arsenic uptake and growth response in rice (*Oryza sativa*).

AKARA. Frans, R. Horton, D.; Burdette, L. Fayetteville : The Station. Report series - Arkansas Agricultural Experiment Station. Jan 1988. (302). 12 p. ill. Includes references. (NAL Call No.: DNAL 100 AR42R).

0823

Interaction of propanil and selected insecticides on rice (*Oryza sativa*).

WEESA6. Khodayari, K. Smith, R.J. Jr.; Tugwell, N.P. Champaign, Ill. : Weed Science Society of America. Weed science. Sept 1986. v. 34 (5). p. 801-803. Includes references. (NAL Call No.: DNAL 79.8 W41).

0824

Ionization and adsorption-desorption of tricyclazole by soil organic matter, montmorillonite clay, and cape fear sandy loam soil (Systemic fungicide for the control of rice blast pathogen, *Piricularia oryzae*).

Weber, J.B. Washington, D.C., American Chemical Society. Journal of agricultural and food chemistry. May/June 1982. v. 30 (3). p. 584-588. ill. Includes 14 ref. (NAL Call No.: 381 J8223).

0825

Long term effects of riceland agrichemicals on postparasites and adults of *Romanomermis culicivorax* (Nematoda: Mermithidae).

JESCEP. Walker, T.W. Meek, C.L. Tifton, Ga. : The Entomological Science Society. Journal of Entomological Science. Oct 1987. v. 22 (4). p. 302-306. Includes references. (NAL Call No.: DNAL QL461.G4).

0826

Malathion and MIPC resistance in *Nilaparvata lugens* (Homoptera: Delphacidae) (Rice pest).

Chung, T.C. Sun, C.N. College Park, Md. : Entomological Society of America. Journal of economic entomology. Feb 1983. v. 76 (1). p. 1-5. ill. Includes references. (NAL Call No.: 421 J822).

0827

Metabolism of N-(2,3-dichlorophenyl)-3,4,5,6-tetrachlorophthalamic acid (techlofthalam) in paddy soil and rice (Bactericide).

Kirkpatrick, D. Biggs, S.R.; Conway, B.; Finn, C.M.; Hawkins, D.R.; Honda, T.; Ishida, M.; Powell, G.P. Washington, D.C., American Chemical Society. Journal of agricultural and food chemistry. Nov/Dec 1981. v. 29 (6). p. 1149-1153. ill. 6 ref. (NAL Call No.: 381 J8223).

0828

Mineralization of parathion in the rice rhizosphere.

Rajasekhar Reddy, B. APMB. Sethunathan, N. Washington : American Society for Microbiology. Applied and environmental microbiology. Mar 1983. v. 45 (3). p. 826-829. Includes references. (NAL Call No.: 448.3 AP5).

0829

MSMA-induced straighthead in rice (*Oryza sativa*) and effect upon metabolism and yield (Herbicide, residues, toxicity).

Horton, D.K. WEESA. Frans, R.E.; Cothren, T. Champaign : Weed Science Society of America. Weed science. Sept 1983. v. 31 (5). p. 648-651. ill. Includes references. (NAL Call No.: 79.8 W41).

0830

Mycoherbicides.

AKFRAC. Templeton, G.E. Smith, R.J. Jr.; TeBeest, D.O.; Beasley, J.N. Fayetteville, Ark. : The Station. Arkansas farm research - Arkansas Agricultural Experiment Station. Mar/Apr 1988. v. 37 (2). p. 7. (NAL Call No.:

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DNAL 100 AR42F).

0831

Oxidiazon absorption, translocation, and metabolism in rice (*Oryza sativa*) and barnyardgrass (*Echinochloa crus-galli*).
WEESA6. Achhireddy, N.R. Kirkwood, R.C.; Fletcher, W.W. Champaign, Ill. : Weed Science Society of America. Weed science. Nov 1984. v. 32 (6). p. 727-731. Includes 24 references. (NAL Call No.: DNAL 79.8 W41).

0832

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).

0833

Persistence of aldrin in flooded soil under the cover of rice.
EESAD. Singh, G. Kathpal, T.S.; Kushwaha, K.S.; Yadan, G.S. New York : Academic Press. Ecotoxicology and environmental safety. June 1985. v. 9 (3). p. 294-299. Includes references. (NAL Call No.: DNAL QH545.A1E29).

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Pesticides approved for use on rice in Florida.
Shuler, K.D. Belle Glade : The Center. Belle Glade research report EV - Florida University Agricultural Research and Education Center. 1984. (1984-10). p. 22-23. (NAL Call No.: DNAL 100 F663).

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Pesticides approved for use on rice in Florida.
Shuler, K.D. Belle Glade : The Center. Belle Glade AREC research report EV - Florida University Agricultural Research and Education Center. July 15, 1983. (1983-6). Presented at the Sixth Annual Rice Field Day, Belle Glade, Florida, July 15, 1983. July 15, 1983. (1983-6). p. 25-26. (NAL Call No.: 100 F663).

0836

Pesticides approved for use on rice in Florida.
Shuler, K.D. Belle Glade : The Center. Belle Glade EREC research report EV - Florida University Agricultural Research and Education Center. Paper presented at the "Eighth Annual Rice Field Day," July 10, 1985, Belle Glade, Florida.~ Includes statistical data. July 10, 1985. (1985-7). p. 34-39. (NAL Call No.: DNAL 100 F663).

0837

The phytotoxicity and weed control of butachlor plus propanil in dry-seeded rice.
Wu, C.H. SWSPB. Dixon, G.A.; Muench, S.R.; Sandberg, C.L.; Whatley, T.L. Champaign : The Society. Proceedings - Southern Weed Science Society. 1983. 1983. (36th). p. 95-99. Includes references. (NAL Call No.: 79.9 S08).

0838

Potential carryover of Dual and Lasso in rice.
Griffin, J.L. Robinson, J.F.; Habetz, R.J.; Regan, R.P. Crowley : The Station. Annual progress report - Louisiana, Agricultural Experiment Station. 1984. (76th). p. 317-320. Includes 1 references. (NAL Call No.: DNAL 100 L93 (3)).

0839

Potential interference by free fatty acids in the gas-liquid chromatographic analysis of rice bran for pesticide residues using electron capture, potassium chloride thermionic, and hall electrolytic conductivity detectors.
Sonobe, H. Carver, R.A.; Kamps, L.R. Washington, D.C., American Chemical Society. Journal of agricultural and food chemistry. Mar/Apr 1980. v. 28 (2). p. 265-269. ill. 16 ref. (NAL Call No.: 381 J8223).

0840

Propanil plus methyl parathion on rice (*Oryza sativa*).
WEESA6. Wills, G.D. Street, J.E. Champaign, Ill. : Weed Science Society of America. Abstract: Effects of propanil
N-(3,4-dichlorophenyl)propanamide applied to three- to four-leaf rice (*Oryza sativa* L.) 1 or 7 days before, after, or tank mixed with methyl parathion (O,O-dimethyl-O-4-nitrophenyl phosphorothioate) were determined under different environmental conditions. Field experiments determined the effect on yield of drill-seeded rice, 'Labelle' for two planting dates in 1982 and 'Lemont' for one planting date in 1986. Treatments were applied at sunrise and at noon. Growth chamber and greenhouse experiments determined the effects of temperature, relative humidity (RH), and soil moisture on response of Labelle rice. In

all experiments, propanil, both alone and with methyl parathion, resulted in 20 to 30% leafburn during the first week after treatment with rapid recovery to less than 10% injury after 3 to 4 weeks. In field experiments, yields were not reduced in the treated rice below that in the untreated controls. In controlled-environment experiments, rice was not injured by propanil plus methyl parathion more than by propanil alone after 2 to 4 weeks. Both treated and untreated rice were injured more by the environmental conditions of high (40C) temperature, low (40%) RH, and low (near the wilting point) soil moisture than by low (30C) temperature, high (100%) RH, and flooded soil. Weed science. May 1988. v. 36 (3). p. 335-339. Includes references. (NAL Call No.: DNAL 79.8 W41).

0841

Rapid technique for thiobencarb residue determination in rice samples.

BECTA6. Au, A.M. Fung, W.D. New York, N.Y. : Springer-Verlag. Bulletin of environmental contamination and toxicology. May 1988. v. 40 (5). p. 655-659. Includes references. (NAL Call No.: DNAL RA1270.P35A1).

0842

Residual concentrations of propanil, TCAB (3,3',4,4'-tetrachloroazobenzene), and other pesticides in rice-growing soils in the United States, 1972.

Carey, A.E. Yang, H.S.C.; Wiersma, G.B.; Tai, H.; Maxey, R.A.; Dupuy, A.E. Jr. Washington, D.C., U.S. Environmental Protection Agency. Pesticides monitoring journal. June 1980. v. 14 (1). p. 23-25. 15 ref. (NAL Call No.: SB951.A1P41).

0843

Residual effects of MSMA (monosodium methanearsonate, herbicide) on sterility in rice cultivars.

Gilmour, J.T. Wells, B.R. Madison, Wis., American Society of Agronomy. Agronomy journal. Nov/Dec 1980. v. 72 (6). p. 1066-1067. 8 ref. (NAL Call No.: 4 AM34P).

0844

Residuals: pros and cons (Herbicides for the rice grower).

Bayne, N. McLean, Va., Gordon S. Carlson. The Rice journal. Fall/Winter 1981. v. 84 (8). p. 10-11, 17. ill. (NAL Call No.: 59.8 R36).

0845

Residue studies for

(2,4,5-trichlorophenoxy)acetic acid and 2,3,7,8-tetrachlorodibenzo-p-dioxin in grass and rice.

Jensen, D.J. JAFCA. Getzendaner, M.E.; Hummel, R.A.; Turley, J. Washington : American Chemical Society. Journal of agricultural and food chemistry. Jan/Feb 1983. v. 31 (1). p. 118-122. 1 p. ref. (NAL Call No.: 381 J8223).

0846

Rice (Oryza sativa) tolerance to fenoxaprop.

WEESA6. Snipes, C.E. Street, J.E. Champaign, Ill. : Weed Science Society of America. Weed science. May 1987. v. 35 (3). p. 401-406. Includes references. (NAL Call No.: DNAL 79.8 W41).

0847

Rice pesticide patterns and their environmental effects on rice field biota of California.

Li, M.Y. Davis : University of California. Mosquito control research : annual report. Includes statistics for 1978-1982. 1983. p. 84-86. (NAL Call No.: DNAL RA640.M4).

0848

Rice straw amendment and the degradation of DDT in soils.

TXECBP. Mitra, J. Raghu, K. New York, N.Y. : Gordon and Breach Science Publishers. Toxicological and environmental chemistry. 1986. v. 11 (3). p. 171-181. ill. Includes 18 references. (NAL Call No.: DNAL QD241.T6).

0849

Simple analytical method for organophosphorus pesticide determination in unpolished rice, using removal of fats by zinc acetate.

JANCA2. Adachi, K. Ohokuni, N.; Mitsuhashi, T. Arlington, Va. : The Association. Journal of the Association of Official Analytical Chemists. July/Aug 1984. v. 67 (4). p. 798-800. Includes references. (NAL Call No.: DNAL 381 AS7).

0850

Soil-bound 3,4-dichloroaniline (herbicide): source of contamination in rice grain.

Still, C.C. Hsu, T.S.; Bartha, R. New York, Springer Verlag. Bulletin of environmental contamination and toxicology. Apr 1980. v. 24 (4). p. 550-554. ill. 11 ref. (NAL Call No.: RA1270.P35A1).

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0851

Some effects of rice pesticides on crawfish.
Cheah, M.L. LA. Avault, J.W., Jr.; Graves, J.B.
Baton Rouge, The Station. Louisiana
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Station. Winter 1979/80. v. 23 (2). p. 8-9, 11.
ill. (NAL Call No.: 100 L939).

0852

Spectrophotometric determination of carbaryl in grains (Insecticides, rice, wheat, jowar and pulse).

Appaiah, K.M. Ramakrishna, R.; Subbarao, K.R.;
Kapur, O. Arlington, Va., The Association.
Journal of the Association of Official
Analytical Chemists. Jan 1982. v. 65 (1). p.
32-34. ill. Includes 5 ref. (NAL Call No.: 381
AS7).

0853

Stimulation of autotrophic ammonium oxidation in rice rhizosphere soil by the insecticide carbofuran (Nitrification).

Ramakrishna, C. Sethunathan, N. Washington,
D.C., American Society for Microbiology.
Applied and environmental microbiology. July
1982. v. 44 (1). p. 1-4. Includes 26 ref. (NAL
Call No.: 448.3 AP5).

0854

Studies on the nature and identity of bound chloroaniline residues in plants (Rice plants, pesticide).

Still, G.G. Balba, H.M.; Mansager, E.R.
Washington, D.C., American Chemical Society.
Journal of agricultural and food chemistry.
July/Aug 1981. v. 29 (4). p. 739-746. ill.
Bibliography p. 746. (NAL Call No.: 381 J8223).

0855

Subcellular localization of rice leaf aryl acylamidase activity (Oryza sativa, enzyme hydrolyses and detoxification of the herbicide, propanil).

Gaynor, J.J. PLPHA. Still, C.C. Rockville :
American Society of Plant Physiologists. Plant
physiology. May 1983. v. 72 (1). p. 80-85.
Includes references. (NAL Call No.: 450 P692).

0856

Susceptibility of rice (Oryza sativa) to various postemergence grass herbicides.

WEESA6. Street, J.E. Snipes, C.E. Champaign,
Ill. : Weed Science Society of America. Weed
science. Sept 1987. v. 35 (5). p. 686-690.
Includes references. (NAL Call No.: DNAL 79.8
W41).

0857

Susceptibility of rice planthoppers Nilaparvata lugens and Sogatella furcifera (Homoptera: Delphacidae) to insecticides as influenced by level of resistance in the host plant.

Heinrichs, E.A. Fabellar, L.T.; Basilio, R.P.;
Wen, T.C.; Medrano, F. College Park, Md. :
Entomological Society of America. Environmental
entomology. Apr 1984. v. 13 (2). p. 455-458.
Includes references. (NAL Call No.:
QL461.E532).

0858

Susceptibility of Romanomermis culicivorax (Nematoda: Mermithidae) postparasites to agrichemicals used in Louisiana rice production.

Walker, T.W. Meek, C.L.; Wright, V.L.;
Billodeaux, J.S. Fresno, Calif. : The
Association. Journal of the American Mosquito
Control Association. Dec 1985. v. 1 (4). p.
477-481. Includes references. (NAL Call No.:
DNAL QL536.U686).

0859

Today's herbicide: Bolero--a rice herbicide (Environmental, biological properties).

Foell, R.H. Champaign : Weeds Today, Inc. Weeds
today. 1983. v. 14 (1). p. 7-8. ill. (NAL Call
No.: SB610.W4).

0860

Tolerance of rice (Oryza sativa) to acifluorfen and triclopyr applied alone or in mixtures with propanil.

WEESA6. Smith, R.J. Jr. Champaign, Ill. : Weed
Science Society of America. Abstract:
Acifluorfen
(5- 2-chloro-4-(trifluoromethyl)phenoxy -2-nitrobenzoic acid) applied alone and in mixtures with propanil
N-(3,4-dichlorophenyl)propanamide reduced rough grain yield of rice (Oryza sativa L. 'Lebonnet' or 'Bond') by 7% when applied at the late-booting or heading growth stages, averaged over several rates of application. Earlier applications, did not reduce rice yield. The highest rate (0.6 kg ai/ha) of acifluorfen alone and in mixtures with propanil at 3.4 kg ai/ha reduced grain yields more than lower rates (0.1 or 0.3 kg ai/ha). Triclopyr ((3,5,6-trichloro-2-pyridinyl)oxy acetic acid) alone and in mixtures with propanil reduced rough grain yields of rice by 18% when applied at the late-booting growth stage, averaged over several rates, of applications, but did not affect yields when applied at the early-tillering, jointing, or early-booting growth stages. Whole-grain milling yield and germination of rice seed were not affected by acifluorfen or triclopyr alone or in mixtures with propanil, regardless of rate or growth stage of application. Weed science. May 1988. v. 36 (3). p. 379-383. Includes references.

(NAL Call No.: DNAL 79.8 W41).

0861

Tricyclazole (A systemic fungicide for the control of rice blast disease, *Piricularia oryzae*).

Day, E.W. Jr. Koons, J.R.; Decker, O.D. New York, Academic Press, 1980. Updated general techniques and additional pesticides, edited by Gunter Zweig and Joseph Sherma. p. 263-273. ill. 5 ref. (NAL Call No.: 395).

0862

Update on weed control methods in rice culture.

Dusky, J.A. Belle Glade : The Center. Belle Glade EREC research report EV - Florida University Agricultural Research and Education Center. Paper presented at the Tenth Annual Rice Field Day, July 10, 1987, Belle Glade, Florida. 1987. (1987-2). p. 8-12. (NAL Call No.: DNAL 100 F663).

0863

Volatilization and exudation losses of three N-methylcarbamate insecticides applied systemically to rice.

Ferreira, G.A.L. Seiber, J.N. Washington, D.C., American Chemical Society. Journal of agricultural and food chemistry. Jan/Feb 1981. v. 29 (1). p. 93-99. ill. 25 ref. (NAL Call No.: 381 J8223).

0864

Worker exposure during aerial application of a liquid and a granular formulation of Ordram selective herbicide to rice.

AECTCV. Knarr, R.D. Cooper, G.L.; Brian, E.A.; Kleinschmidt, M.G.; Graham, D.G. New York, N.Y. : Springer-Verlag. Archives of environmental contamination and toxicology. Sept 1985. v. 14 (5). p. 523-527. Includes references. (NAL Call No.: DNAL TD172.A7).

SOIL BIOLOGY

0865

The effect of cultivated and wild rice varieties on the nitrogen balance of flooded soil.

SOSCAK. App, A.A. Watanabe, I.; Ventura, T.S.; Bravo, M.; Jurey, C.D. Baltimore, Md. : Williams & Wilkins. Soil science. June 1986. v. 141 (6). p. 448-452. Includes references. (NAL Call No.: DNAL 56.8 S03).

0866

Mineralization of parathion in the rice rhizosphere.

Rajasekhar Reddy, B.APMBA. Sethunathan, N. Washington : American Society for Microbiology. Applied and environmental microbiology. Mar 1983. v. 45 (3). p. 826-829. Includes references. (NAL Call No.: 448.3 AP5).

0867

Nitrogen fixation (bacteria) in the rhizosphere of cultivated and wild rice strains (*Oryza glaberrima*, *Oryza perennis*, *Oryza punctata*).

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0868

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0870

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Singh, N.T. Patel, M.S.; Singh, R.; Vig, A.C. Madison, Wis., American Society of Agronomy. Agronomy journal. May/June. v. 72 (3). p. 499-502. ill. 11 ref. (NAL Call No.: 4 AM34P).

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Webster, R.K. Wick, C.M.; Brandon, D.M.; Hall, D.H.; Bolstad, J. Berkeley, Calif., The Station. Hilgardia - California Agricultural Experiment Station. Feb 1981. v. 49 (3). 12 p. 23 ref. (NAL Call No.: 100 C12H).

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Husin, A.B. LA. Caldwell, A.G.; Mengel, D.B.; Peterson, F.J. Baton Rouge, The Department. Report of projects - Louisiana Agricultural Experiment Station, Department of Agronomy. Louisiana. Agricultural Experiment Station. Dept. of Agronomy. 1979. 1979. p. 62-68. ill. (NAL Call No.: 100 L936).

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Bajwa, M.I. New York, Marcel Dekker. Communications in soil science and plant analysis. 1981. v. 12 (5). p. 475-482. 12 ref. (NAL Call No.: S590.C63).

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Water use by flooded rice in Puerto Rico (Evapotranspiration, irrigation requirements, soil moisture).

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SDSCAK. App, A.A. Watanabe, I.; Ventura, T.S.; Bravo, M.; Jurey, C.D. Baltimore, Md. : Williams & Wilkins. Soil science. June 1986. v. 141 (6). p. 448-452. Includes references. (NAL Call No.: DNAL 56.8 S03).

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The effect of different sources of P (phosphorus) and two rates of Zn (zinc) on the yield and concentration of various elements in the leaves of LaBelle rice grown on a Crowley silt loam soil (Louisiana).

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The effect of nitrification inhibitors and sulfur-coated urea on nitrogen fertilizer efficiency in drill-seeded Labelle rice.

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Effect of organic matter on changes in soil zinc fractions found in wetland soils.

CSOSA2. Ghanem, S.A. Mikkelsen, D.S. New York, N.Y. : Marcel Dekker. Communications in soil science and plant analysis. Nov 1987. v. 18 (11). p. 1217-1234. Includes references. (NAL Call No.: DNAL S590.C63).

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Effects of ammonium sulphate on Na/Cl uptake by rice cultivars differing in salt tolerance: experiments with soil and solution culture.

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Effects of applications of copper and zinc on yield of Saturn rice grown on Crowley silt loam and on chemical composition of rice leaf tissue.

Sedberry, J.E. Jr. Eun, M.Y.; Wilson, F.E.; Brandon, D.M.; Bligh, D.P. Crowley. Annual progress report Louisiana. Rice Experiment Station. 1980. 1980. (72nd). p. 91-97. ill. (NAL Call No.: 100 L93 (3)).

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Effects of applications of copper and zinc on yield of Saturn rice grown on Crowley silt loam and on chemical composition of rice-leaf tissue.

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Effects of applications of copper and zinc on yield of saturn rice grown on Crowley soil and on chemical composition of rice-leaf tissue.

Sedberry, J.E. Jr. LA. Eun, M.Y.; Wilson, F.E.; Brandon, D.M.; Bligh, D.F. Baton Rouge, The Department. Report of projects - Louisiana Agricultural Experiment Station, Department of Agronomy. Louisiana. Agricultural Experiment Station. Dept. of Agronomy. 1979. 1979. p. 69-71. ill. (NAL Call No.: 100 L936).

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Tuisiri, B. Blue, W.G. S.I. : The Society. Proceedings - Soil and Crop Science Society of Florida. 1984. v. 43. p. 14-21. ill. Includes references. (NAL Call No.: DNAL 56.9 S032).

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Effects of redox on zinc deficiency in paddy rice.

SSSUD4. Sajwan, K.S. Lindsay, W.L. Madison, Wis. : The Society. Soil Science Society of America journal. Sept/Oct 1986. v. 50 (5). p. 1264-1269. Includes references. (NAL Call No.: DNAL 56.9 S03).

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Effects of seedling method and time of fertilization on urea-nitrogen-15 recovery in rice.

AGJOAT. Westcott, M.P. Brandon, D.M.; Lindau, C.W.; Patrick, W.H. Jr. Madison, Wis. : American Society of Agronomy. Agronomy journal. May/June 1986. v. 78 (3). p. 474-478. Includes references. (NAL Call No.: DNAL 4 AM34P).

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Fate of fertilizer nitrogen in the rice root zone.

SSSUD4. Reddy, K.R. Patrick, W.H. Jr. Madison, Wis. : The Society. Soil Science Society of America journal. May/June 1986. v. 50 (3). p. 649-651. Includes references. (NAL Call No.: DNAL 56.9 S03).

0905

Mineral-deficiency symptoms displayed by rice plants grown under controlled conditions in the greenhouse.

Cibes, H.R. Gaztambide, S. Rio Piedras, The Station. Abstract: Deficiency symptoms were induced by the omission of macro- and micronutrient elements on rice plants of the Sinaloa variety grown in solution culture in the greenhouse. The elements included in the study were N, P, K, Ca, Mg, S, Fe, Mn and B. The omission of N, K and Fe from the nutrient medium resulted in the poorest top growth of plants. The lowest values of either fresh or dry weight of roots were caused by lack of K. Omission of Ca, S, Mg, B and Mn treatments also caused the development of poor root systems. Lack of P was the least detrimental. Except for S and Fe, the concentration of the particular missing element in the leaf tissues was lower in plants from each deficiency treatment than in the control plants. Leaf analysis indicates that the absence of one element from the nutrient medium could cause either a reduction or an increase of other related elements in the leaf tissue. The Journal of agriculture of the University of Puerto Rico - Puerto Rico, Agricultural Experiment Station. Oct 1980. v. 64 (4). p. 369-378. ill. (NAL Call No.: 8 P832J).

0906

Molasses distillery slops supply nitrogen and potassium fertilizer to flooded rice.

JAUPA. Vicente-Chandler, J. Abruna, F.; Lozano, J. Mayaguez : University of Puerto Rico, Agricultural Experiment Station. The Journal of agriculture of the University of Puerto Rico. Oct 1984. v. 68 (4). p. 395-403. Includes 7 references. (NAL Call No.: DNAL 8 P832J).

0907

Nitrogen rates in single and split applications and yield of flooded rice.

Lozano, J.M. Abruna, F. Rio Piedras, The Station. Abstract: Yields of rough rice increased from 3,830 to 7,950 kg/ha when N rates were increased from 0 to 224 kg/ha in one application. Rice yields increased from 3,830 to 8,210 kg/ha when N rates were increased from 0 to 112 kg/ha, used in two applications. Yields were not increased further by heavier applications of N. The N rates from the single applications did not affect yields of a subsequently planted rice crop that received no

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N fertilizer. The split applications, however, did increase yields of the following crop. In another experiment, applications of more than 112 kg of N/ha sharply increased damage by blast, when the fungus was not controlled by spraying, and limited yield response to N applications. The Journal of agriculture of the University of Puerto Rico - Puerto Rico, Agricultural Experiment Station. Jan 1981. v. 65 (1). p. 35-42. ill. 18 ref. (NAL Call No.: 8 P832J).

0908

Nitrogen transformations and loss in flooded soils and sediments (*Oryza sativa*).

Reddy, K.R. Patrick, W.H. Boca Raton, Fla. : CRC Press. CRC critical reviews in environmental control - Chemical Rubber Company. 1984. Literature review. v. 13 (4). p. 273-309. ill. Includes references. (NAL Call No.: QH545.A1C7).

0909

Nitrogen uptake and growth of irrigated rice as affected by nitrogen rates.

JAUPA. Silva, S. Vicente Chandler, J. Mayaguez : University of Puerto Rico, Agricultural Experiment Station. The Journal of agriculture of the University of Puerto Rico. Oct 1984. v. 68 (4). p. 387-394. Includes 7 references. (NAL Call No.: DNAL 8 P832J).

0910

Nitrogen use efficiency and nitrogen-15 balances in broadcast-seeded flooded and transplanted rice.

SSSJD4. De Datta, S.K. Buresh, R.J.; Samson, M.I.; Kai-Rong, W. Madison, Wis. : The Society. Increased irrigated areas, availability of short-duration modern rices (*Oryza sativa* L.) and cost-efficient herbicides, and high labor cost have motivated Asian farmers to shift from transplanting to broadcast seeding in flooded rice. Information on fate of N in broadcast-seeded flooded rice (BSFR), however, in Asia is limited. Thus, two field experiments were conducted on a Vertic Tropaquept to evaluate efficient N management practices in BSFR using ¹⁵N-labeled fertilizers and to compare the performance of BSFR and transplanted rice (TPR) under similar N management practices. For urea, basal deep placement (DP) as supergranules and a three-split application gave the lowest mean ¹⁵N losses (4 and 11%, respectively) and highest mean grain yields (6.9 and 7.1 Mg ha⁻¹, respectively) for BSFR. Mean ¹⁵N losses from urea applied to BSFR were 20 and 18%, respectively, for the researchers' split (RS) (two-thirds basally incorporated into mud plus one-third at 5 to 7 d before panicle initiation) and the farmers' split (FS) (one-half topdressed into water at 15 d and one-half topdressed at 10 d after panicle initiation). The agronomic efficiency (kg grain

per kg applied N) for 40 kg applied urea-N was 57, 43, and 28 with DP, RS, and FS, respectively. Under the same urea management practices, the mean plant recovery of ¹⁵N was greater for BSFR (47%) than for TPR (37%). This resulted in lower ¹⁵N loss for BSFR (20%) than for TPR (32%). However, total plant N accumulation was similar for BSFR (96 kg ha⁻¹) and TPR (95 kg ha⁻¹), and mean grain yields over the two experiments were not different ($P = 0.05$) between BSFR and TPR. Transplanted rice produced 10 kg more grain per kilogram of applied N than did BSFR, in part because mean grain yield in the absence of applied N was 0.3 Mg ha⁻¹ lower with TPR. Results suggest that considerable potential exists to increase N use efficiency and grain yield in BSFR by manipulating N fertilizer and water management practices. Soil Science Society of America journal. May/June 1988. v. 52 (3). p. 849-855. Includes references. (NAL Call No.: DNAL 56.9 S03).

0911

The residual effect of different sources of P and two rates of Zn on the fertility levels of mineral elements in a Crowley silt loam soil and on the yield of Labelle rice.

Sedberry, J.E. Jr. Bligh, D.P.; Brandon, D.M. Crowley : The Station. Annual progress report - Louisiana, Agricultural Experiment Station. 1984. (76th). p. 122-124. (NAL Call No.: DNAL 100 L93 (3)).

0912

Response of a rice-sugarcane rotation to calcium silicate slag on Everglades Histosols.

AGJDAT. Anderson, D.L. Jones, D.B.; Snyder, G.H. Madison, Wis. : American Society of Agronomy. Agronomy journal. May/June 1987. v. 79 (3). p. 531-535. Includes references. (NAL Call No.: DNAL 4 AM34P).

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Rice cultivar response to aluminum in nutrient solution.

CSOSA2. Fageria, N.K. Wright, R.J.; Baligar, V.C. New York, N.Y. : Marcel Dekker. Communications in soil science and plant analysis. May/Sept 1988. v. 19 (7/12). p. 1133-1142. Includes references. (NAL Call No.: DNAL S590.C63).

0914

Rice population effects on yield and nutrient status with nitrogen applied pre-flood and at panicle differentiation.

AKARA. Counce, P.A. Fayetteville : The Station. Report series - Arkansas Agricultural Experiment Station. Mar 1988. (304). 10 p. Includes references. (NAL Call No.: DNAL 100 AR42R).

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0915

Rice responses to a short-duration green manure. II. N recovery and utilization.

AGJDAT. Morris, R.A. Furoc, R.E.; Dizon, M.A. Madison, Wis. : American Society of Agronomy. Agronomy journal. May/June 1986. v. 78 (3). p. 413-416. Includes references. (NAL Call No.: DNAL 4 AM34P).

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Soil clay mineralogies in relation to fertility management; effect of soil clay mineral compositions on phosphorus fixation under conditions of wetland rice culture.

Bajwa, M.I. New York, Marcel Dekker. Communications in soil science and plant analysis. 1981. v. 12 (5). p. 475-482. 12 ref. (NAL Call No.: S590.C63).

0917

Susceptibility of Romanomermis culicivorax (Nematoda: Mermithidae) postparasites to agrichemicals used in Louisiana rice production.

Walker, T.W. Meek, C.L.; Wright, V.L.; Billodeaux, J.S. Fresno, Calif. : The Association. Journal of the american mosquito control association. Dec 1985. v. 1 (4). p. 477-481. Includes references. (NAL Call No.: DNAL QL536.J686).

SOIL CULTIVATION

0918

Red rice studies: cultural management experiment (a preliminary report) (Water management practices, seeding rates, planting dates, weed control, Louisiana).

Sonnier, E.A. Baker, J.B.; White, L.M. III. Crowley : The Station. Annual progress report - Louisiana, Rice Experiment Station. 1982. 1982. (74th). p. 234-241. ill. (NAL Call No.: 100 L93 (3)).

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0919

Rice cultivation systems in waterlogged and flood-prone areas.

Pande, H.K. Reddy, B.B. Hampton, Va. : A. Deepak Pub., 1985 , c1984. Applications of remote sensing for rice production / edited by Adarsh Deepak, K.R. Rao. Paper presented at the "Interactive International Symposium on Applications of Remote Sensing for Rice Production," Sept 9/11, 1981, Secunderabad, India. p. 127-140. Includes references. (NAL Call No.: DNAL SB191.R5I584).

0920

Rice plant residue cycling in a rice field (a preliminary report) (Yield comparisons, Louisiana).

Dunigan, E.P. Brandon, M. Crowley : The Station. Annual progress report - Louisiana, Rice Experiment Station. 1982. 1982. (74th). p. 114-115. (NAL Call No.: 100 L93 (3)).

0921

Seeding rate and row spacing effects on yield and yield components of drill-seeded rice.

AGJOAT. Jones, D.B. Snyder, G.H. Madison, Wis. : American Society of Agronomy. Agronomy journal. July/Aug 1987. v. 79 (4). p. 623-626. Includes references. (NAL Call No.: DNAL 4 AM34P).

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AGJOAT. Jones, D.B. Snyder, G.H. Madison, Wis. : American Society of Agronomy. Agronomy journal. July/Aug 1987. v. 79 (4). p. 627-629. Includes references. (NAL Call No.: DNAL 4 AM34P).

0923

Water use by flooded rice in Puerto Rico (Evapotranspiration, irrigation requirements, soil moisture).

Silva, S. Vicente-Chandler, J. Rio Piedras, University of Puerto Rico, Agricultural Experiment Station. The Journal of agriculture

SOIL EROSION AND RECLAMATION

0924

Theoretical settling time for suspended sediment in flooded rice fields (After water leveling, soil loss prevention, drainage timing, Louisiana).

Edling, R.J.LAXBA. Miller, B.J.; Obeten, F. Baton Rouge : The Station. Bulletin - Louisiana Agricultural Experiment Station. Apr 1983. Apr 1983. (745). 11 p. ill. Includes references. (NAL Call No.: 100 L93 (1)).

FORESTRY RELATED

0925

A simple model of selection for fungicide resistance in plant pathogen populations.
PHYTAU. Chin, K.M. St. Paul, Minn. : American Phytopathological Society. Phytopathology. May 1987. v. 77 (5). p. 666-669. Includes references. (NAL Call No.: DNAL 464.8 P56).

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0926

Aquatic coleoptera associated with Arkansas rice, with observations on the effects of carbofuran, molinate, predatory fish and late-planting.

SWNAA. Heiss, J.S. Harp, G.L.; Meisch, M.V. Austin : Southwestern Association of Naturalists. The Southwestern naturalist. Nov 10, 1986. v. 31 (4). p. 521-525. Includes references. (NAL Call No.: DNAL 409.6 S08).

0927

Effects of two insect growth regulators (hydroprene and R-20458) on the follicular epithelium and the oocytes of the rice weevil, Sitophilus oryzae (L.) (Coleoptera: Curculionidae) (Genetic control of stored product pests, morphology).

Mkhize, J.M. JNYEA. Gupta, A.P. Lawrence : The Society. Journal of the New York Entomological Society. Sept 1982. v. 90 (3). p. 213-218. ill. 2 p. ref. (NAL Call No.: 420 N48J).

0928

Insect pests of stored rice and their control /by August I. Balzer.

Balzer, August I. 1900-. Washington, D.C. : U.S. Dept. of Agriculture, 1942. 22 p. : ill. ; 23 cm. (NAL Call No.: DNAL 1 Ag84F no.1906).

0929

Insect pests of stored rice and their control /by August I. Balzer and R.T. Cotton.

Balzer, August I. 1900-. Cotton, R. T. Washington, D.C. : U.S. Dept. of Agriculture, 1947. Originally issued Aug. 1942. 24 p. : ill. ; 23 cm. (NAL Call No.: DNAL 1 Ag84F no.1906 1947).

0930

Insects injurious to the rice crop /by J.W. Ingram.

Ingram, J. W. 1900-. Washington, D.C. : U.S. Dept. of Agriculture, 1927. "This bulletin supersedes Farmers' bulletin 1086.". 17 p. : ill. ; 23 cm. (NAL Call No.: DNAL 1 Ag84F no.1543).

0931

Insects injurious to the rice crop by J.W. Ingram. --.

Ingram, J. W. Washington, D.C. : U.S. Dept. of Agriculture, 1927. ii, 17 p. : ill. --. (NAL Call No.: DNAL Fiche S-70 no.1543).

0932

Phosphatases in the rice stem borer, Chilo suppressalis Walker (Lepidoptera; Pyralidae): some properties and changes of the activities during hibernation.

Tsumuki, H. Kanehisa, K. New York, N.Y. : Academic Press. Cryobiology. Apr 1984. v. 21 (2). p. 177-182. Includes references. (NAL Call No.: QH324.C7).

0933

SEM observations of rice weevil larvae, Sitophilus oryzae (L.) (Coleoptera: Curculionidae).

JKESA. Speirs, R.D. White, G.D.; Wilson, J.L. Lawrence, Kan. : The Society. Journal of the Kansas Entomological Society. Apr 1986. v. 59 (2). p. 390-394. ill. Includes references. (NAL Call No.: DNAL 420 K13).

0934

Sex pheromones of rice moth, Corcyra cephalonica Stainton. I. Identification of male pheromone.

JCECD. Zagatti, P. Kunesch, G.; Ramiandrasoa, F.; Malosse, C.; Hall, D.R.; Lester, R.; Nesbitt, B.F. New York, N.Y. : Plenum Press. Journal of chemical ecology. July 1987. v. 13 (7). p. 1561-1573. ill. Includes references. (NAL Call No.: DNAL QD415.A1J6).

ANIMAL REPRODUCTION

0935 0936

Sex pheromones of rice moth, *Corcyra cephalonica* Stainton. II. Identification and role of female pheromone. Sex pheromones of rice moth, *Corcyra cephalonica* Stainton. II. Identification and role of female pheromone. JCECD. JCECD. Hall, D.R. Hall, D.R. Cork, A.; Lester, R.; Nesbitt, B.F.; Zagatti, P. Cork, A.; Lester, R.; Nesbitt, B.F.; Zagatti, P. New York, N.Y. : Plenum Press. New York, N.Y. : Plenum Press. Journal of chemical ecology. Journal of chemical ecology. July 1987. v. 13 (7). July 1987. v. 13 (7). p. 1575-1589. p. 1575-1589. Includes references. Includes references. (NAL Call No.: DNAL QD415.A1J6).(NAL Call No.: DNAL QD415.A1J6).

ANIMAL ECOLOGY

0937

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AGRICULTURAL PRODUCTS - PLANT

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1007

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PARASITES OF HUMANS - INSECTS AND OTHER ARTHROPODS

1008

Evaluation of a controlled-release silicate formulation of temephos against *Aedes aegypti* larvae in the laboratory and *Psorophora columbiae* larvae (Diptera: Culicidae) in rice field plots.

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