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Number 83

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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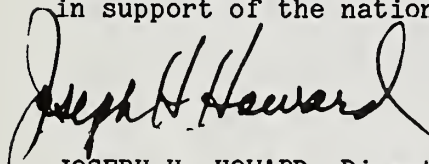
## FOREWORD

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).

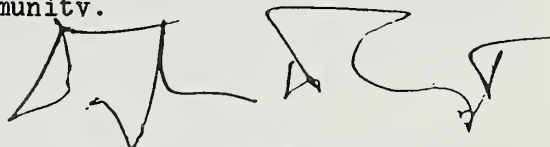
This close working relationship between the two agencies will produce a series of bibliographies which will be useful to EPA in the regulation of pesticides, as well as to any researcher in the field of plant or commodity protection. The broad scope of information contained in this series will benefit 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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**Effect of planting methods and seeding rates on rice yields (Varieties, Puerto Rico).**

Lozano, J.M. Abruna, F. Rio Piedras, University of Puerto Rico, Agricultural Experiment Station. The Journal of agriculture of the University of Puerto Rico. July 1982. v. 66 (3). p. 194-199. 14 ref. (NAL Call No.: 8 P832J).

0131

**Effect of rice cultivar height on infestation by the least skipper, *Ancyloxypha numitor* (F.) (Lepidoptera: Hesperidae).**

Smith, C.M. EVETB. Robinson, J.F. College Park : Entomological Society of America. Environmental entomology. June 1983. v. 12 (3). p. 967-969. Includes references. (NAL Call No.: QL461.E532).

0132

**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).

0133

**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

**Effects of adult-plant resistance on blast severity and yield of rice.**

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).

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*, *Rhizopertha 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).

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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.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).

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.**

WEESAG. 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.S.S.S.J.D. 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).

(PLANT NUTRITION)

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 phosphorus to corn on an ultisol.**

Tuisiri, B. Blue, W.G. S.1. : 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.**  
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0211

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0212

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0213

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0214

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0215

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0216

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0217

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0218

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0219

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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

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0221

**Chilling sensitivity in Oryza sativa: the role of protein phosphorylation in protection against photoinhibition.**  
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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0222

### **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).

0223

### **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)).

0224

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

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0225

### **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.**

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0228

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

JAFCAU. Koons, J.R. Rainey, D.P.; Sullivan, W.L. Washington, D.C. : American Chemical Society. Journal of agricultural and food chemistry. May/June 1985. v. 33 (3). p. 552-555. ill. Includes references. (NAL Call No.: DNAL 381 J8223).

0229

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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).

0230

### **Drought problems in rice production.**

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0231

### **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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0233

**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).

0234

**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).

0235

**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).

0236

**Effects of airborne fluoride on the fluoride content of rice and vegetables (Pollution).**  
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0237

**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).

0238

**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).

0239

**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).

0240

**Effects of ethephon and its decomposition products on germination of rice and watergrass.**  
CRPSAY. Southwick, K.L. Lamb, N.; Storey, R.; Mansfield, D.H. Madison, Wis. : Crop Science Society of America. Crop science. July/AUG 1986. v. 26 (4). p. 761-767. Includes references. (NAL Call No.: DNAL 64.8 C883).

0241

**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).

0242

**Effects of O<sub>2</sub> (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).

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0243

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

AGJDAT. 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).

0244

**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).

0247

**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 CO<sub>2</sub> and C<sub>2</sub>H<sub>4</sub>.**

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).

0252

**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 CO<sub>2</sub> (carbon dioxide) cylinders. Effects on plant growth in CO<sub>2</sub> 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).

0258

**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 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).

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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.J.; Rawls, S.M.; Simoneaux, N.J. Crowley : The Station. Annual progress report - Louisiana, Rice Experiment Station. 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).

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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).

0276

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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

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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).

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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).

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### **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).

0281

### **Mechanism of aeration in rice.**

SCIEA. Raskin, I. Kende, H. Washington, D.C. : American Association for the Advancement of Science. Science. Apr 19, 1985. v. 228 (4697). p. 327-329. ill. Includes 15 references. (NAL Call No.: DNAL 470 SC12).

0282

### **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).

0283

### **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).

0284

### **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)).

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0285

**Monitoring of hypoxic metabolism in superfused plant tissues by in vivo <sup>1</sup>H NMR.**  
ABBIA. Fan, T.W.M. Higashi, R.M.; Lane, A.N. Duluth, Minn. : Academic Press. Archives of biochemistry and biophysics. Dec 1986. v. 251 (2). p. 674-687. Includes references. (NAL Call No.: DNAL 381 AR2).

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**Nitrate reductase activity in seeds and seedlings of tropical species.**  
Udoh, A.M. Tobin, A.K.; Proudlove, M.O.; Moore, A.L. New York : Plenum Press, c1987. Plant mitochondria : structural, functional, and physiological aspects / edited by A.L. Moore and R.B. Beechey. p. 405-408. Includes references. (NAL Call No.: DNAL QK725.P63).

0287

**Nitrogen fixation (bacteria) in the rhizosphere of cultivated and wild rice strains (*Oryza glaberrima*, *Oryza perennis*, *Oryza punctata*).**  
Sano, Y. Fujii, T.; Iyama, S.; Hirota, Y.; Komagata, K. Madison, Wis., Crop Science Society of America. Crop science. Sept/Oct 1981. v. 21 (5). p. 758-761. ill. 22 ref. (NAL Call No.: 64.8 C883).

0288

**Nitrogen loss in conjunction with transpiration from rice leaves as influenced by growth stage, leaf position, and nitrogen supply.**  
Silva, P.R.F. da. Stutte, C.A. Madison, Wis., American Society of Agronomy. Agronomy journal. Jan/Feb 1981. v. 73 (1). p. 38-42. ill. 23 ref. (NAL Call No.: 4 AM34P).

0289

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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).

0290

**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).

0291

**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).

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**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)).

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**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).

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**Nonosmotic effects of polyethylene glycols upon sodium transport and sodium-potassium selectivity by rice roots.**  
Yeo, A.R. Flowers, T.J. Rockville, Md. : American Society of Plant Physiologists. Plant physiology. June 1984. v. 75 (2). p. 298-303. ill. Includes 26 references. (NAL Call No.: 450 P692).

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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).

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0296

**Phosphorylation of thylakoid proteins of *Oryza sativa*. In vitro characterization and effects of chilling temperatures.**

PLPHA. Moll, B.A. Eilmann, M.; Steinback, K.E. Rockville, Md. : American Society of Plant Physiologists. Plant physiology. Feb 1987. v. 83 (2). p. 428-433. Includes references. (NAL Call No.: DNAL 450 P692).

0297

**Physical and mechanical properties of rice.**

Kunze, O.R. Wratten, F.T. St. Paul : American Association of Cereal Chemists, c1985. Rice: chemistry and technology / edited by Bienvenido O. Juliano. p. 207-231. Includes references. (NAL Call No.: DNAL TX558.R5R53 1985).

0298

**Physiological investigations on rice : effects of environments and nutrition on growth and metabolism / by Saddhananda Piyasiri Ranjit Weerasinghe. -**

Weerasinghe, Saddhananda Piyasiri Ranjit, 1936-. 1971. Thesis (Ph.D.)--Cornell University, 1971. Photocopy. Ann Arbor, Mich. : University Microfilms, 1972. xviii, 351 leaves ; 21 cm. Bibliography: leaves 332-351. (NAL Call No.: DISS 71-29,273).

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**Physiological studies of a synthetic gibberellin-like bioregulator. II. Effect of site of application on biological activity.**

PLPHA. Suttle, J.C. Hultstrand, J.F. Rockville, Md. : American Society of Plant Physiologists. Plant physiology. Aug 1987. v. 84 (4). p. 1068-1073. Includes references. (NAL Call No.: DNAL 450 P692).

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**Plant growth regulation with triazoles of the dioxanyl type.**

JPGRDI. Jung, J. Rentzea, C.; Rademacher, W. New York, N.Y. : Springer. Journal of plant growth regulation. 1986. v. 4 (4). p. 181-188. ill. Includes references. (NAL Call No.: DNAL QK745.J6).

0302

**Plant growth regulator effects on rice.**

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0301

**Plant growth regulator effects on rice.**

Dunand, R. Dilly, R. Crowley. Annual progress report Louisiana. Rice Experiment Station. 1980. 1980. (72nd). p. 280-297. 5 ref. (NAL Call No.: 100 L93 (3)).

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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)).

0304

**Plant growth substances in regulation of life cycles of rice.**

PPGGD. Takahashi, N. Lake Alfred, Fla. : The Society. Proceedings annual meeting - Plant Growth Regulator Society of America. 1987. (14th). p. 8-14. ill. Includes references. (NAL Call No.: DNAL SB128.P5).

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**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).

0306

**Pore size distribution and root growth relations of rice in artificially synthesized soils.**

Kar, S. Varade, S.B.; Ghildyal, B.P. Baltimore, Williams & Wilkins. Soil science. Dec 1979. v. 128 (6). p. 364-368. ill. 6 ref. (NAL Call No.: 56.8 S03).

0307

**Possible roles of calcium and calmodulin in the biosynthesis and secretion of alpha-amylase in rice seed scutellar epithelium.**

Mitsui, T. Christeller, J.T.; Hara-Nishimura, I.; Akazawa, T. Rockville, Md. : American Society of Plant Physiologists. Plant physiology. May 1984. v. 75 (1). p. 21-25. ill. Includes 31 references. (NAL Call No.: 450 P692).

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0308

**Posttranslational processing of proteins in vacuoles and protein bodies is inhibited by monensin.**

PLPHA. Stinisen, H.M. Peumans, W.J.; Chrispeels, M.J. Rockville, Md. : American Society of Plant Physiologists. Plant physiology. Feb 1985. v. 77 (2). p. 495-498. ill. Includes 26 references. (NAL Call No.: DNAL 450 P692).

0309

**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).

0310

**Preferential secretion of R-type alpha-amylase molecules in rice seed scutellum at high temperatures.**

PLPHA. Mitsui, T. Akazawa, T. Rockville, Md. : American Society of Plant Physiologists. Plant physiology. Dec 1986. v. 82 (4). p. 880-884. ill. Includes references. (NAL Call No.: DNAL 450 P692).

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**Rapid growth and apparent total nitrogen increases in rice and corn plants following applications of triacontanol.**

Knowles, N.R. Ries, S.K. Rockville, Md. : American Society of Plant Physiologists. Plant physiology. Dec 1981. v. 68 (6). p. 1279-1284. 19 ref. (NAL Call No.: 450 P692).

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**Regulation of growth by ethylene: effect of ethylene on growth of rice seedlings (*Oryza sativa*).**

Raskin, I. Piening, C.; Kende, H. East Lansing, Mich., The Laboratory. Annual report - Michigan State University, MSU/DOE Plant Research Laboratory. 1981 (16th). p. 79-80. (NAL Call No.: QK1.M5).

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**Regulation of growth by ethylene. II. Effect of growth regulators on the growth of excised rice stem sections (*Oryza sativa*).**

Raskin, I. Kende, H. East Lansing, Mich., The Laboratory. Annual report - Michigan State University, MSU/DOE Plant Research Laboratory. 1981 (16th). p. 80. (NAL Call No.:

QK1.M5).

0314

**Regulation of growth by ethylene. III. The response of deep-water rice to submergence and ethylene (*Oryza sativa*).**

Metraux, J.P. deZacks, R.; Kende, H. East Lansing, Mich., The Laboratory. Annual report - Michigan State University, MSU/DOE Plant Research Laboratory. 1981 (16th). p. 80-81. (NAL Call No.: QK1.M5).

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**Regulation of growth in deep-water rice (Elongation ability, aeration).**

Raskin, I. PPGGD. Kende, H. Lake Alfred : The Society. Proceedings annual meeting - Plant Growth Regulator Society of America. 1983. 1983. (10th). p. 235-240. ill. Includes references. (NAL Call No.: SB128.P5).

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**Regulation of growth in rice seedlings (*Oryza sativa*).**

Raskin, I. JPGRDI. Kende, H. New York : Springer. Journal of plant growth regulation. 1983. v. 2 (3). p. 193-203. Includes references. (NAL Call No.: QK745.J6).

0317

**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).

0318

**Reproductive stage water stress and sterility. I. Effect of stress during meiosis.**

CRPSAY. Namuco, D.S. O'Toole, J.C. Madison, Wis. : Crop Science Society of America. Crop science. Mar/Apr 1986. v. 26 (2). p. 317-321. Includes references. (NAL Call No.: DNAL 64.8 C883).



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0319

**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).

0320

**Response of leaf water potential, stomatal resistance, and leaf rolling to water stress (Rice).**

O'Toole, J.C. Cruz, R.T. Bethesda, Md., American Society of Plant Physiologists. Plant physiology. Mar 1980. v. 65 (3). p. 428-432. ill. 24 ref. (NAL Call No.: 450 P692).

0321

**Response of rice to foliar application of 'Cytosyme Crop;' (Growth substances).**

Da Silva, P.R.F. Stutte, C.A. Longmont, Colo., The Group. Proceedings - Plant Growth Regulator Working Group. Plant Growth Regulator Working Group. 1979. 1979. (6th). p. 35-39. ill. 7 ref. (NAL Call No.: SB128.P5).

0322

**Response of rice to solar radiation and temperature estimated from international yield trials (Influence of weather factors, regression models).**

Seshu, D.V. Cady, F.B. Madison, Wis. : Crop Science Society of America. Crop science. July/Aug 1984. v. 24 (4). p. 649-654. ill. Includes references. (NAL Call No.: 64.8 C883).

0323

**Rice chemistry and technology /edited by Bienvenido O. Juliano. --.**

Juliano, Bienvenido O.; Houston, David Fairchild, 1905-. St. Paul : American Association of Cereal Chemists, c1985. Rev. ed. of: Rice: chemistry and technology / edited by D.F. Houston. 1972. 16 , 774 p. : ill. ; 24 cm. Includes bibliographies and index. (NAL Call No.: DNAL TX558.R5R53 1985).

0324

**The rice grain and its gross composition.**

Juliano, B.O. Bechtel, D.B. St. Paul : American Association of Cereal Chemists, c1985. Rice: chemistry and technology / edited by Bienvenido O. Juliano. Literature review. p. 17-57. ill. Includes references. (NAL Call No.: DNAL TX558.R5R53 1985).

0325

**Rice growth analysis (a preliminary report) (Development of the rice plant under the environmental conditions of Louisiana).**

Dunand, R. Dilly, R. Crowley : The Station. Annual progress report - Louisiana, Rice Experiment Station. 1982. 1982. (74th). p. 159-172. Includes references. (NAL Call No.: 100 L93 (3)).

0326

**Rice (Growth and function, water stress, irrigation).**

Turner, F.T. McCauley, G.N. New York : Wiley, c1983. Crop-water relations / edited by I.D. Teare, M.M. Peet. Literature review. p. 307-350. ill. 111 ref. (NAL Call No.: SB185.6.C76).

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**Rice: growth stages of the rice plant.**

Miller, T. State College, Miss. : The Service. Publication - Cooperative Extension Service, Mississippi State University. Apr 1988. (1624). 4 p. ill. (NAL Call No.: DNAL 275.29 M68EXT).

0328

**Rice plant residue cycling in a rice field (Yields, cultivars, comparisons, Louisiana).**

Dunigan, E.P. Brandon, M. Baton Rouge : The Department. Report of projects - Louisiana Agricultural Experiment Station, Department of Agronomy. 1982. 1982. p. 156-157. (NAL Call No.: 100 L936).

0329

**Rice properties and processing.**

FRINEL. Juliano, B.O. New York : Marcel Dekker. Food reviews international. 1985/1986. v. 1 (3). p. 423-445. ill. Includes 90 references. (NAL Call No.: DNAL TX341.F662).

0330

**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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0331

**Role of gibberellin in the growth response of submerged deep water rice.**  
PLPHA. Raskin, I. Kende, H. Rockville, Md. : American Society of Plant Physiologists. Plant physiology. Dec 1984. v. 76 (4). p. 947-950. ill. Includes 8 references. (NAL Call No.: DNAL 450 P692).

0332

**Role of panicle exertion in water stress induced sterility (Rice, *Oryza sativa*).**  
O'Toole, J.C. CRPSAY. Namuco, D.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).

0333

**Seed dormancy in red rice (*Oryza sativa*). I. Effect of temperature on dry-afterripening.**  
Cohn, M.A. Hughes, J.A. Champaign, Ill., Weed Science Society of America. Weed science. July 1981. v. 29 (4). p. 402-404. 10 ref. (NAL Call No.: 79.8 W41).

0334

**Seed dormancy in red rice (*Oryza sativa*). II. Response to cytokinins (Plant growth regulators).**  
Cohn, M.A. Butera, D.L. Champaign, Ill., Weed Science Society of America. Weed science. Mar 1982. v. 30 (2). p. 200-205. ill. Includes 24 ref. (NAL Call No.: 79.8 W41).

0335

**Seed dormancy in red rice. V. Response to azide, hydroxylamine, and cyanide.**  
PLPHA. Cohn, M.A. Hughes, J.A. Rockville, Md. : American Society of Plant Physiologists. Plant physiology. Feb 1986. v. 80 (2). p. 531-533. Includes 24 references. (NAL Call No.: DNAL 450 P692).

0336

**Seed dormancy in red rice. III. Response to nitrite, nitrate, and ammonium ions (*Oryza sativa*).**  
Cohn, M.A. PLPHA. Butera, D.L.; Hughes, J.A. Rockville : American Society of Plant Physiologists. Plant physiology. Oct 1983. v. 73 (2). p. 381-384. Includes references. (NAL Call No.: 450 P692).

0337

**Seed dormancy in red rice. VI. Monocarboxylic acids: a new class of pH-dependent germination stimulants.**  
PLPHA. Cohn, M.A. Chiles, L.A.; Hughes, J.A.; Boullion, K.J. Rockville, Md. : American Society of Plant Physiologists. Plant physiology. July 1987. v. 84 (3). p. 716-719. Includes references. (NAL Call No.: DNAL 450 P692).

0338

**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).

0339

**Stomatal sensitivity to carbon dioxide and humidity. A comparison of two C3 and two C4 (Carbon pathways) grass species (*Oryza sativa*, rice, *Phalaris aquatica*, *Zea mays*, maize, *Paspalum plicatulum*).**  
Morison, J.I.L. PLPHA. Gifford, R.M. Rockville : American Society of Plant Physiologists. Plant physiology. Apr 1983. v. 71 (4). p. 789-796. Includes references. (NAL Call No.: 450 P692).

0340

**Studies of the effects of brassinosteroid treatment on the growth and yield of crops.**  
PPGGD. Lim, U.K. Lake Alfred : The Society. Proceedings annual meeting - Plant Growth Regulator Society of America. 1985. (12th). p. 213-219. (NAL Call No.: DNAL SB128.P5).

0341

**Studies on growth and differentiation in cultured cells of rice (*Oryza sativa*).**  
Dawra, S. Sharma, D.R.; Chowdhury, J.B.; Jain, R.K. New York : Plenum Press, c1983. Plant cell culture in crop improvement / edited by S.K. Sen and Kenneth L. Giles. p. 445-449. 7 ref. (NAL Call No.: SB123.6.P5).

0342

**Subcellular localization of rice leaf aryl acylamidase activity (*Oryza sativa*, enzyme hydrolyses and detoxicification 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).

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0343

**Synthetic gibberellin synergists in elongation of shoot growth of *Oryza sativa* L. (Rice).**

Ogawa, M. Matsui, T.; Tobitsuka, J. New York : Springer. Journal of plant growth regulation. 1983. v. 2 (2). p. 129-135. ill. Includes references. (NAL Call No.: QK745.J6).

0344

**Tetcyclacis: a new bioregulator for improving the development of young rice plants (Chemical structures).**

Schott, P.E. Knittel, H.; Klapproth, H. Washington, D.C. : The Society. ACS Symposium series - American Chemical Society. 1984. 1984. (257). p. 45-63. Includes references. (NAL Call No.: QD1.A45).

0345

**Tetrazolium test for predicting the seedling vigor of rice at optimal and low temperatures.**

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).

0346

**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).

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0461

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0466

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0468

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0469

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0470

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0473

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0481

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0484

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0487

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0488

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0493

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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

**Disease control (Semidwarf rice varieties, sheath blight caused by Rhizoctonia solani, and other fungus diseases, yield losses).**  
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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 nematocidic 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, Rhizoctinia solani, Oryza sativa, Labelle, Lebonnet and Newrex cultivars compared).**  
Whitney, N.G.FNETD. (s.l.) : The Society. Fungicide and nematocidic tests : results - American Phytopathological Society. 1983. v. 38. p. 48-49. (NAL Call No.: 464.9 AM31R).

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**Effect of nitrogen fertilization on rice disease development.**  
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)).

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**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 nematocidic 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

**Effects of adult-plant resistance on blast severity and yield of rice.**  
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.**  
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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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).

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

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Evaluation of fungicides for treatment of rice planting seed, 1976-81. 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).

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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

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0509

Feeder root necrosis recognized as serious disease in rice. 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). Whitney, N.G. (s.l.), The Society. Fungicide and nematocide tests; results - American Phytopathological Society. 1980. v. 35. p. 105. (NAL Call No.: 464.9 AM31R).

0512

Foliar fungicide testing for rice sheath blight control (Rhizoctonia solani). 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).

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Fungicidal control of rice foliar and stem diseases. Rush, M.C. Acedo, J.R.; Groth, D. Crowley : The Station. Annual progress report - Louisiana, Agricultural Experiment Station. 1984. (76th). p. 268-273. (NAL Call No.: DNAL 100 L93 (3)).

0514

Fungicidal control of rice foliar and stem diseases. Rush, M.C. Lindberg, G.D.; Can, F.; Didier, D. Crowley, La., The Station. Annual progress report - Louisiana, Rice Experiment Station. 1981. 1981. (73rd). p. 474-481. (NAL Call No.: 100 L93 (3)).

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)).

0516

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

PHYTAJ. Leung, H. Borromeo, E.S.; Bernardo, M.A.; Notteghem, J.L. St. Paul, Minn. : American Phytopathological Society. Crosses between rice isolates of *Magnaporthe grisea* were made to determine the genetic control of virulence to rice. A cross between a hermaphroditic rice isolate, Guy 11, and a laboratory strain 2539, yielded more than 50% viable ascospores. Random spore and tetrad analysis showed that two loci, Pos1 (pathogenicity on *Oryza sativa*) and Pos2, were involved in conditioning virulence to rice lines 51583 and Sha-tiao-tsao. A buff mutation was epistatic to virulence. Fertility and ascospore viability were low in crosses between field rice isolates. In a cross between two rice isolates, Guy 11 and CH104-3, only 10% of the ascospores was viable, but all progeny were virulent to 51583 and Sha-tiao-tsao. From this cross, we identified two different loci, Pos3 and Pos4, controlling virulence on rice lines K59 and Kinandang Patong, respectively. Fertility and virulence were maintained in progeny recovered from F2 and F3 generations. Joint segregation analysis showed an excess of parental types with respect to virulence. This might reflect genetic linkage of virulence genes or segregation of other genetic factors epistatic to virulence. *Phytopathology*. Sept 1988. v. 78 (9). p. 1227-1233. ill. Includes references. (NAL Call No.: DNAL 464.8 P56).

0517

**Genetic transformation of the fungal pathogen responsible for rice blast disease.**

PNASA. Parsons, K.A. Chumley, F.G.; Valent, B. Washington, D.C. : The Academy. Proceedings of the National Academy of Sciences of the United States of America. June 1987. v. 84 (12). p. 4161-4165. ill. Includes references. (NAL Call No.: DNAL 500 N21P).

0518

**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. ill. Includes references. (NAL Call No.: DNAL 464.8 P56).

0519

**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).

0520

**Liquid nitrogen-foliar fungicide combinations in rice evaluated (for control of sheath blight disease, Arkansas).**

Lee, F.N. AKFRA. Wells, B.R.; Courtney, M.L.; Shockley, P.A. Fayetteville : The Station. Arkansas farm research - Arkansas Agricultural Experiment Station. Mar/Apr 1983. v. 32 (2). p. 5. (NAL Call No.: 100 AR42F).

0521

**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).

0522

**Physiological races of *Cercospora oryzae* in the southern United States.**

PLDIDE. Sah, D.N. Rush, M.C. St. Paul, Minn. : American Phytopathological Society. *Plant disease*. Mar 1988. v. 72 (3). p. 262-264. Includes references. (NAL Call No.: DNAL 1.9 P69P).

0523

**Production of nivalenol and fusarenone-X by *Fusarium tricinctum* Fn-2B on a rice substrate.** APMBA. Lee, Y.W. Mirocha, C.J. Washington, D.C. : American Society for Microbiology. *Applied and environmental microbiology*. Oct 1984. v. 48 (4). p. 857-858. Includes 7 references. (NAL Call No.: DNAL 448.3 AP5).

0524

**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).

0525

**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

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No.: DNAL 64.8 C883).

Gunter Zweig and Joseph Sherma. p. 263-273. ill. 5 ref. (NAL Call No.: 395).

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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Rice diseases in the Everglades: 1984 update. Myers, D.F. Jones, D.B. Belle Glade : The Center. Belle Glade research report EV - Florida University Agricultural Research and Education Center. 1984. (1984-10). p. 6-8. (NAL Call No.: DNAL 100 F663).

0528

Rice foliar fungicide evaluations in Texas, 1984. FNETD. Whitney, N.G. s.l. : The Society. Fungicide and nematicide tests : results - American Phytopathological Society. 1985. v. 40. p. 119-120. (NAL Call No.: DNAL 464.9 AM31R).

0529

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

0530

Survival of *Colletotrichum gloeosporioides* f. sp. *aeschynomene* in rice irrigatin water and soil (Used as biocontrol for the weed). TeBeest, D.D. St. Paul, Minn., American Phytopathological Society. Plant disease. June 1982. v. 66 (6). p. 469-472. Includes 17 ref. (NAL Call No.: 1.9 P69P).

0531

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

0532

Tricyclic amides: a new class of systematic fungicides active against rice blast disease (caused by *Piricularia oryzae*). 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).

0533

Wild rice yield losses associated with growth-stage-specific fungal brown spot epidemics. 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).

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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).

0535

**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).

0536

**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 nematocidic 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.).**

APMBA. Sakthivel, N. Gnanamanickam, S.S. Washington, D.C. : American Society for Microbiology. Applied and Environmental microbiology. Sept 1987. v. 53 (9). p. 2056-2059. ill. Includes references. (NAL Call No.: DNAL 448.3 AP5).

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*).**

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

0539

**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).

0540

**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).

0541

**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).

0542

**Pests not known to occur in the United States or of limited distribution. 90. *Xanthomonas campestris* pv. *oryzicola*.**

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).

0543

**Relationship of root injury to the "kresek" (wilt) phase of bacterial (*Xanthomonas oryzae*) blight of rice.**

Zaragoza, B.A. SEA. Mew, T.W. Beltsville, Md., The Administration. Plant disease reporter. United States. Dept. of Agriculture. Science and Education Administration. Dec 1979. v. 63 (12). p. 1007-1011. ill. 9 ref. (NAL Call No.: 1.9 P69P).

0544

**Rice yellow dwarf disease.**

Muniyappa, V. Raychaudhuri, S.P. New York : Springer-Verlag, c1988. Mycoplasma diseases of crops : basic and applied aspects / Karl Maramorosch, S.P. Raychaudhuri, editors. Literature review. p. 233-284. Includes

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references. (NAL Call No.: DNAL SB737.M93).



# 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).

0548

**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<sup>-1</sup>. 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<sup>-1</sup>. 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*

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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 dithiolanylidenemalonates 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 P832J).

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).

## (MISCELLANEOUS PLANT DISORDERS)

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 Ca<sup>2+</sup>-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.: OD1.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.: OK867.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. AGJDA. 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 (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).

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.

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).

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).

0599

### 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. 111. 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 Sittisroung. -**  
Sittisroung, 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

**Flash drying techniques for shelling high-moisture rough rice.**  
Kassem, A.W. Kunze, D.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.J. 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.~

"November 13, 1922."~ "Professional paper.". 11

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

No.: DNAL 1 Ag84B no.1116).

# PROTECTION OF PLANT PRODUCTS - INSECTS

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*, *Rhizopertha 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, *Rhizopertha 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, Agricultural 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).

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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).

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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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Baker, J.B. Sonnier, E.A. Crowley, La., The  
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Miller, T.C. Richard, E.P. Jr.; Street, J.E.; Bowman, D.H. Mississippi State : The Station. MAFES research highlights - Mississippi Agricultural & Forestry Experiment Station. June 1983. v. 46 (6). p. 4-5. (NAL Call No.: 100 M69MI).

0676

**Control of red rice (Oryza sativa) in water-seeded rice (Oryza sativa) (Weed control, herbicides, molinate, drained-flooded culture).** Smith, R.J. Jr. Champaign, Ill., Weed Science Society of America. Weed science. Nov 1981. v. 29 (6). p. 663-666. 18 ref. (NAL Call No.: 79.8 W41).

0677

**Control of red rice seed production in rice fields.**

LDAGA. Dunand, R. Baker, J.; Dilly, R. Jr.; Meche, G. Baton Rouge, La. : The Station. Louisiana agriculture - Louisiana Agricultural Experiment Station. Spring 1988. v. 31 (3). p. 14-15. (NAL Call No.: DNAL 100 L939).

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San Francisco, California Farmer Publishing. California farmer. Mar 15, 1989. v. 252 (6). p. 60D-60E. ill. (NAL Call No.: S1.C185).

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LDAGA. Dunand, R.T. Baker, J.B.; Sonnier, E.A.; Dilly, R.R. Jr. Baton Rouge, La. : The Station. Louisiana agriculture - Louisiana Agricultural Experiment Station. Winter 1985/1986. v. 29 (2). p. 20-21. ill. (NAL Call No.: DNAL 100 L939).

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JAFCAU. States, 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).

0683

**DPX-F5384: a new, highly flexible, broad spectrum herbicide for California rice.**

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**Drepanon (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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**Duration of red rice control with selected soybean herbicides.**

Barrentine, W.L. Street, J.E.; Richard, E.P. Jr. Mississippi State, Miss. : The Station. MAFES research highlights - Mississippi Agricultural & Forestry Experiment Station. June 1984. v. 47 (6). p. 2-4. Includes 9 references. (NAL Call No.: DNAL 100 M69MI).

0686

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Barrentine, W.L. Street, J.E.; Richard, E.P. Jr. Mississippi State, Miss. : The Station. Research report - Mississippi Agricultural and Forestry Experiment Station. Apr 1984. v. 9 (3). 4 p. Includes references. (NAL Call No.: S79.E37).

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AKFRA. Fryar, E.O. Parsch, L.D.; Holder, S.H.; Tugwell, N.P. Fayetteville, Ark. : The Station. Arkansas farm research - Arkansas Agricultural Experiment Station. May/June 1986. v. 35 (3).

p. 7. (NAL Call No.: DNAL 100 AR42F).

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**Effect of age, size, and weight of witchweed seeds on host/parasite relations (Striga asiatica, maize, sorghum, rice, sugarcane).**

Bebawi, F.F. Eplee, R.E.; Norris, R.S. St. Paul, Minn. : American Phytopathological Society. Phytopathology. Sept 1984. v. 74 (9). p. 1074-1078. ill. Includes 21 references. (NAL Call No.: 464.8 P56).

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**Effective broadleaf weed and sedge control in California rice production.**

Pacheco, J.L. Pope, C.L. Sacramento, Calif. : California Weed Conference Office. Proceedings - California Weed Conference. 1986. (38th). p. 23-29. (NAL Call No.: DNAL 79.9 C122).

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CRPSAY. Southwick, K.L. Lamb, N.; Storey, R.; Mansfield, D.H. Madison, Wis. : Crop Science Society of America. Crop science. July/Aug 1986. v. 26 (4). p. 761-767. Includes references. (NAL Call No.: DNAL 64.8 C883).

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Brewer, F. Lavy, T.L.; Talbert, R.E. Champaign, Ill., Weed Science Society of America. Weed science. Sept 1982. v. 30 (5). p. 531-539. 25 ref. (NAL Call No.: 79.8 W41).

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**Effects of giant burreed (Sparganium eurycarpum) and shade on wild rice (Zizania palustris).**

WEESA6. Clay, S.A. Oelke, E.A. Champaign, Ill. : Weed Science Society of America. Weed science. Sept 1987. v. 35 (5). p. 640-646. Includes references. (NAL Call No.: DNAL 79.8 W41).

0693

**Effects of rice plant density, rice water weevil (Coleoptera: Curculionidae) damage to rice, and aquatic weeds on aster leafhopper (Homoptera: Cicadellidae) density (Macrosteles fascifrons, Lissorhoptrus oryzophilus, Monochoria vaginalis, Sagittaria montevidensis).**

Way, M.O.EVETB. Grigarick, A.A.; Mahr, S.E.  
College Park : Entomological Society of  
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v. 12 (3). p. 949-952. Includes references.  
(NAL Call No.: QL461.E532).

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RRMSD. Kurtz, M.E. Snipes, C.E. Mississippi  
State, Miss. : The Station. Research report -  
Mississippi Agricultural and Forestry  
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Includes references. (NAL Call No.: DNAL  
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Barrett, M.R. Lavy, T.L. Champaign, Ill. : Weed  
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**Evaluation of preplant soil incorporated  
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RRMSD. Street, J.E. Miller, T.C. Mississippi  
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(NAL Call No.: DNAL S79.E37).

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Miss. : The Station. MAFES research highlights  
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Auburn, Ala., The Society. Proceedings -  
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Hill, J.E. Bayer, D.E.; Wrynski, J.; Brandon,  
B.W. S.1. : Western Society of Weed Science.  
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0701

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WEESA6. Snipes, C.E. Street, J.E. Champaign,  
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0702

**Field evaluation of dried fungus spores for  
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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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McLean, Va., Gordon S. Carlson. The Rice journal. June 1981. v. 84 (6). p. 12-13. (NAL Call No.: 59.8 R36).

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WEESA6. Salzman, F.P. Smith, R.J. Jr.; Talbert, R.E. Champaign, Ill. : Weed Science Society of America. Field research was conducted in 1985 and 1986 to compare the efficacy of fluzifop 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 fluzifop and quizalofop at 280 g/ha caused the greatest reduction of red rice panicle and seed production. Fluzifop 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).

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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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Smith, R.J. 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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Smith, R.J. 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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# PESTICIDES - GENERAL

0778

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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. ill. 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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0787

**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 Ag84Ah no.129 1964).

0791

**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).

0792

**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

**Drepanon (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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0798

**The economic impact of cancelling the use of 2,4,5-T in rice production by Arthur R. Gerlow . --.**  
Gerlow, Arthur R., 1927-. Washington, D.C. : U.S. Dept. of Agriculture, Economic Research Service, 1973. iv, 11 p. : map --. Includes bibliographical references. (NAL Call No.: DNAL Fiche S-82 no.510).

0799

**Effect of cooking on levels of ethylene dibromide residues in rice.**  
JANCA2. Clower, M. Jr. McCarthy, J.P.; Rains, D.M. Arlington, Va. : The Association. Journal of the Association of Official Analytical Chemists. July/Aug 1985. v. 68 (4). p. 710-711. Includes 4 references. (NAL Call No.: DNAL 381 AS7).

0800

**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).

0801

**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).

0802

**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).

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

**Effects of soil water content on oxadiazon dissipation (Festuca arundinacea, rice, herbicide residues in soil).**  
Barrett, M.R. Lavy, T.L. Champaign, Ill. : Weed Science Society of America. Weed science. Sept 1984. v. 32 (5). p. 697-701. ill. Includes 13 references. (NAL Call No.: 79.8 W41).

0807

**Effects of soil water content on pendimethalin dissipation (Oryza sativa, Glycine max, herbicide).**  
Barrett, M.R. JEVQA. Lavy, T.L. Madison : American Society of Agronomy. Journal of environmental quality. Oct/Dec 1983. v. 12 (4). p. 504-508. Includes references. (NAL Call No.: QH540.J6).

0808

**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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0809

**Establishment of residue analysis of propanil (Dichloropropionanilide), linuron and diphenamide in agricultural commodities.**  
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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**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.**

Anderson, L.M.JMENA. Nelson, J.H.; Thies, C.; Meisch, M.V. Honolulu : Dept. of Entomology, Bishop Museum. Journal of medical entomology. May 26, 1983. v. 20 (3). p. 325-329. Includes references. (NAL Call No.: 421 J828).

0812

**Evaluation of fungicides for control of foliar diseases on "new" rice land in Mississippi (Pyricularia oryzae, Rhizoctonia oryzae).**  
Sciombato, 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).

0814

**Fate of thiobencarb and molinate in rice fields.**

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.**

Hansen, L.B. Castillo, G.D.; Biehl, E.R. Arlington, Va., The Association. Journal of the Association of Official Analytical Chemists. Sept 1981. v. 64 (5). p. 1232-1237. ill. 8 ref. (NAL Call No.: 381 AS7).

0817

**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).

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

**Hexachlorocyclohexane inhibits calmodulin-dependent Ca<sup>2+</sup>-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

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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).

0822

**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. AP MBA. 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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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).

0834

**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. SWSPPB. 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



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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).

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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).

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Includes references. (NAL Call No.: DNAL 79.8  
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**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.;  
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Includes references. (NAL Call No.:  
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Foell, R.H. Champaign : Weeds Today, Inc. Weeds  
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**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.

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

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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

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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.AP MBA. 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*).**

Sano, Y. Fujii, T.; Iyama, S.; Hirota, Y.; Komagata, K. Madison, Wis., Crop Science Society of America. Crop science. Sept/Oct 1981. v. 21 (5). p. 758-761. ill. 22 ref. (NAL Call No.: 64.8 C883).

0868

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

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**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).

# SOIL CHEMISTRY AND PHYSICS

0870

**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).

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0872

**Effect of redox, zinc fertilization and incubation time on DTPA-extractable zinc, iron and manganese.**  
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**Effect of soil compaction on yield and water use efficiency of rice in a highly permeable soil.**  
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).

0874

**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).

0875

**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.

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**Effects of soil water content on pendimethalin dissipation (Oryza sativa, Glycine max, herbicide).**  
Barrett, M.R.JEVQA. Lavy, T.L. Madison : American Society of Agronomy. Journal of environmental quality. Oct/Dec 1983. v. 12 (4). p. 504-508. Includes references. (NAL Call No.: QH540.J6).

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**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 56.8 503).

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**Epidemiology of stem root disease (Magnaporthe salvinii) of rice: effects of burning vs. soil incorporation of rice residue.**  
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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**Evaluation of chemical methods for available soil phosphorus in relation to the yield of rice.**  
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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**Evaluation of efficient soil test methods for Zn (zinc) and their control values in salt-affected soils for rice.**  
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0881

**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).

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**Fate of thiobencarb and molinate in rice fields.**

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).

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**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).

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Kar, S. Varade, S.B.; Ghildyal, B.P. Baltimore, Williams & Wilkins. Soil science. Dec 1979. v. 128 (6). p. 364-368. ill. 6 ref. (NAL Call No.: 56.8 S03).

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**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).

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**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).

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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).

0888

**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 of the University of Puerto Rico. July 1982. v. 66 (3). p. 181-187. ill. 6 ref. (NAL Call No.: 8 P832J).

# SOIL FERTILITY - FERTILIZERS

0889

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

Byrnes, B.H.SSSJD. 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).

0890

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

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).

0891

**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).

0892

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

Brandon, D.M. Wilson, F.E.; Leonards, W.J.; White, L.M. III. Crowley. Annual progress report Louisiana. Rice Experiment Station. 1980. 1980. (72nd). p. 84-90. ill. (NAL Call No.: 100 L93 (3)).

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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)).

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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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**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).

0896

**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.J6).

0897

**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.J67).

0898

**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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0899

**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. Baton Rouge, The Department. Report of projects - Louisiana Agricultural Experiment Station, Department of Agronomy. 1980. 1980. p. 40-43. (NAL Call No.: 100 L936).

0900

**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).

0901

**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).

0902

**Effects of redox on zinc deficiency in paddy rice.**

SSJUD4. 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).

0903

**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).

0904

**Fate of fertilizer nitrogen in the rice root zone.**

SSJUD4. 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 P832U).

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 <sup>15</sup>N-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 <sup>15</sup>N losses (4 and 11%, respectively) and highest mean grain yields (6.9 and 7.1 Mg ha<sup>-1</sup>, respectively) for BSFR. Mean <sup>15</sup>N 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 <sup>15</sup>N was greater for BSFR (47%) than for TPR (37%). This resulted in lower <sup>15</sup>N loss for BSFR (20%) than for TPR (32%). However, total plant N accumulation was similar for BSFR (96 kg ha<sup>-1</sup>) and TPR (95 kg ha<sup>-1</sup>), 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<sup>-1</sup> 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)).

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# FOOD CONTAMINATION AND TOXICOLOGY

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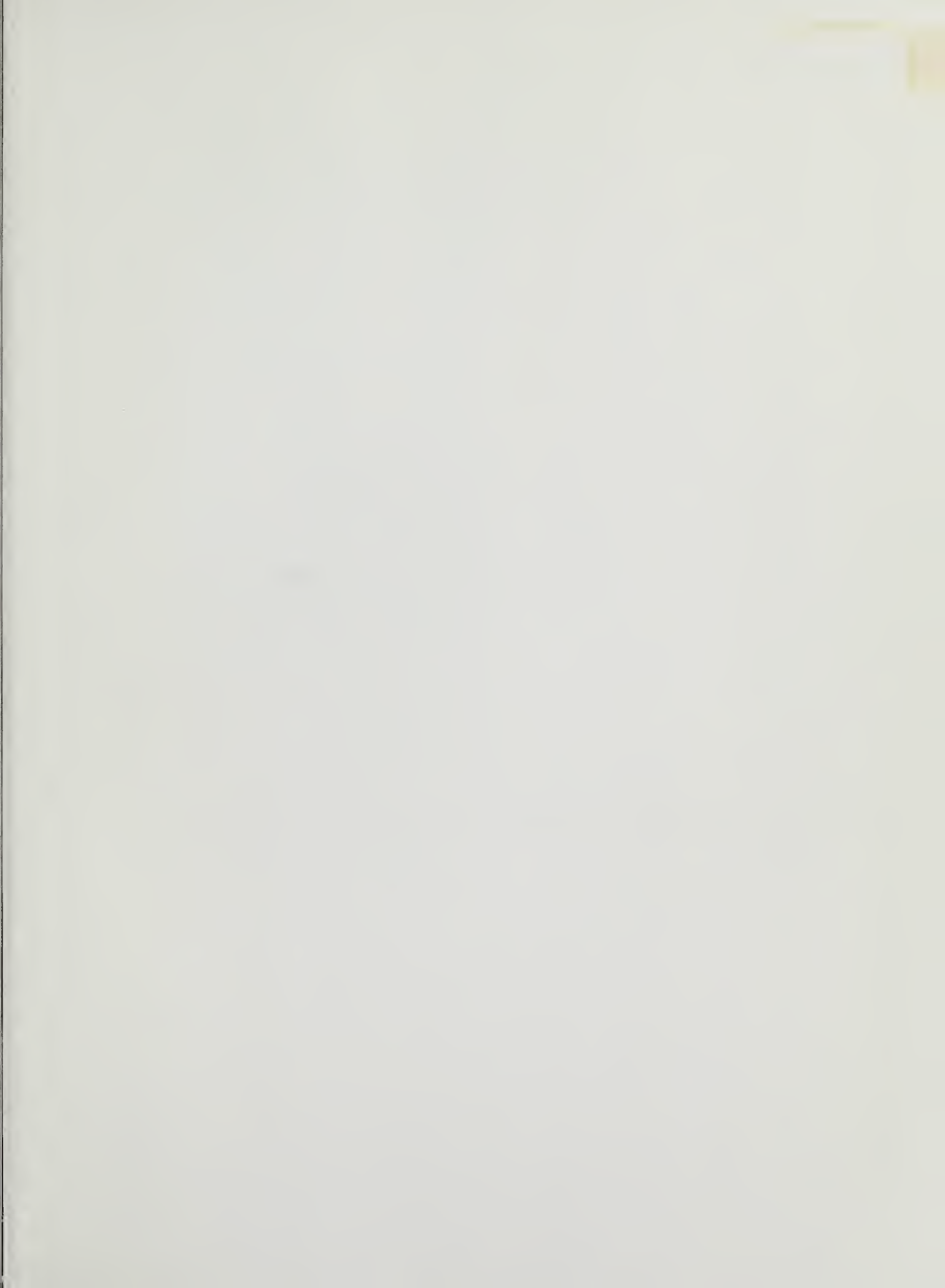


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