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of Agriculture
Number 46

The Protection of Sorghum and Millets: January 1979-July 1985

Citations from AGRICOLA Concerning Diseases and Other Environmental Considerations



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The Protection of Sorghum and Millets: January 1979- July 1985

Citations from AGRICOLA Concerning Diseases and Other Environmental Considerations

Compiled and Edited by
Charles N. Bebee
National Agricultural Library

Bibliographies and
Literature of Agriculture Number 46

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

and

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

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FOREWORD


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

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

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

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


JOSEPH H. HOWARD, Director
National Agricultural Library


STEVEN SCHATZOW, Director
Office of Pesticide Programs

INTRODUCTION

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

This is the ninth bibliography included in a series jointly sponsored by the National Agricultural Library, United States Department of Agriculture (USDA-NAL), and the Office of Pesticides Programs, Environmental Protection Agency (EPA-OPP). Additional volumes issued recently concern the protection of corn, soybeans, pome fruits, stone fruits, wheat, chemigation, rice and peanuts.

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

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

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PESTS OF PLANTS - GENERAL AND MISC.

0189

Laboratory comparisons of polyphenols and their repellent characteristics in bird-resistant sorghum grains (Varieties).

Bullard, R.W. Garrison, M.V.; Kilburn, S.R.; York, J.O. Washington, D.C., American Chemical Society. Journal of agricultural and food chemistry. Sept/Oct 1980. v. 28 (5). p. 1006-1011. ill. 24 ref. (NAL Call No.: 381 J8223).

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Dreyer, D.L. Reese, J.C.; Jones, K.C. New York, Plenum Press. Journal of chemical ecology. Mar 1981. v. 7 (2). p. 273-284. ill. 39 ref. (NAL Call No.: QD415.A1J6).

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Brooks, Leroy. Gates, Dell E. 1981. First this publication discusses some safety tips for using insecticides, then it discusses the control of insects attacking alfalfa, corn, sorghum, wheat, and soybeans. It also includes a list of the Poison Control Information Centers in Kansas. Document available from: Distribution Center, Umberger Hall, Kansas State University, Manhattan, KS 66506. 28 p. (NAL Call No.: C 431).

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- 0385**
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Michelmore, R.W. PHYTA. Pawar, M.N.; Williams, R.U. St. Paul : American Phytopathological Society. Phytopathology. Oct 1982. v. 72 (10). p. 1368-1372. ill. 25 ref. (NAL Call No.: 464.8 P56).

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Wilson, James Morris, 1939. Ann Arbor, Mich. University Microfilms 1970. Thesis--Texas A&M University, 1969. x, 44 leaves. Bibliography: leaves 42-43. (NAL Call No.: DISS 70-9,732).
- 0422
Host range of an American isolate of Peronosclerospora sorghi (Sorghum downy mildew, disease of sorghum and maize).
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Kumar, A. Andrews, D.J.; Jain, R.P.; Singh, S.D. Madison, Wis. : Crop Science Society of America. Crop science. July/Aug 1984. v. 24 (4). p. 832. Includes references. (NAL Call No.: 64.8 C883).
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- 0425
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- 0427
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- 0428
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- 0429
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- 0430
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- 0431
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- 0432
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Odvody, G.N. Madden, D.B. St. Paul : American Phytopathological Society. Phytopathology. Mar 1984. v. 74 (3). p. 264-268. ill. Includes references. (NAL Call No.: 464.8 P56).

0433

The morphology and disease cycle of ergot caused by *Claviceps fusiformis* in pearl millet (*Pennisetum americanum*).
Thakur, R.P. Rao, V.P.; Williams, R.J. St. Paul : American Phytopathological Society. Phytopathology. Feb 1984. v. 74 (2). p. 201-205. ill. Includes references. (NAL Call No.: 464.8 P56).

0434

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McMillian, W.W. CECHA, Wilson, D.M.; Mirocha, C.J.; Widstrom, N.W. St. Paul : American Association of Cereal Chemists. Cereal chemistry. May/June 1983. v. 60 (3). p. 226-227. Includes references. (NAL Call No.: 59.8 C33).

0435

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Liu, L.J. Ramirez-Oliveras, G. Rio Piedras, The Station. The Journal of agriculture of the University of Puerto Rico - Puerto Rico, Agricultural Experiment Station. Oct 1980. v. 64 (4). p. 489-492. ill. 3 ref. (NAL Call No.: 8 P832J).

0436

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Partridge, J.E. Doupnik, B.L. Beltsville, Md., Science and Education Administration, U.S. Dept. of Agriculture. Plant disease reporter. Feb 1979. v. 63 (2). p. 154-155. map. 5 ref. (NAL Call No.: 1.9 P69P).

0437

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Pratt, R.G. Janke, G.D. St. Paul, American Phytopathological Society. Phytopathology. Nov 1978. v. 68 (11). p. 1600-1605. 21 ref. (NAL Call No.: 464.8 P56).

0438

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0439

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Pratt, R.G. Janke, G.D. St. Paul, Minn., American Phytopathological Society. Phytopathology. Aug 1980. v. 70 (8). p. 766-771. ill. 43 ref. (NAL Call No.: 464.8 P56).

0440

Pathotype 3 of *Peronosclerospora sorghi* (Sorghum downy mildew, epidemiology, south Texas).
Craig, J. TAEMA. College Station : The Station. Miscellaneous publication MP - Texas Agricultural Experiment Station. May 1983. Presented at the workshop on Integrated Control of Sorghum Downy Mildew, Texas, 1982. May 1983. (1535). p. 5. (NAL Call No.: 100 T31M).

0441

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0442

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Thakur, R.P. Williams, R.J. St. Paul, Minn., American Phytopathological Society. Phytopathology. Feb 1980. v. 70 (2). p. 80-84. ill. 23 ref. (NAL Call No.: 464.8 P56).

0443

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Thouvenel, J.C. Fauquet, C. St. Paul, Minn., American Phytopathological Society. Plant disease. Oct 1980. v. 64 (10). p. 957-958. ill. 15 ref. (NAL Call No.: 1.9 P69P).

0444

Preharvest fungal invasion of sorghum grain (from Kansas and Texas, *Alternaria*, *Fusarium*).
Seitz, L.M. CECHA, Mohr, H.E.; Burroughs, R.; Glueck, J.A. St. Paul : American Association of Cereal Chemists. Cereal chemistry. Mar/Apr 1983. v. 60 (2). p. 127-130. ill. Includes references. (NAL Call No.: 59.8 C33).

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- 0445**
Presence of dhurrin in sorghum root tissue and the effect of pathogenesis on hydrogen cyanide potential (*Pratylenchus zeae*, *Phythium arrhenomanes*).
Starr, J.L. Newton, R.J.; Miller, F.R. Madison, Wis. : Crop Science Society of America. Crop science. July/Aug 1984. v. 24 (4). p. 739-742. ill. Includes references. (NAL Call No.: 64.8 C883).
- 0446**
Purification and partial characterization of host-specific toxins produced by *Periconia circinata* (Causal agent of milo disease of sorghum).
Wolpert, T.J. AR-NC. Dunkle, L.D. St. Paul, Minn., American Phytopathological Society. Phytopathology. Sept 1980. v. 70 (9). p. 872-876. ill. 13 ref. (NAL Call No.: 464.8 P56).
- 0447**
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Anahosur, K.H. Kew, Eng., The Institute. CMI, descriptions of pathogenic fungi and bacteria. Commonwealth Mycological Institute. 1978. v. 59 (586). 2 p. ill. 4 ref. (NAL Call No.: 462.7 C73).
- 0448**
Resistance of sorghum to *Colletotrichum graminicola* (*Sorghum bicolor*).
Ferreira, A.S. Warren, H.L. St. Paul, Minn., American Phytopathological Society. Plant disease. Sept 1982. v. 66 (9). p. 773-775. 12 ref. (NAL Call No.: 1.9 P69P).
- 0449**
The role of sporangia in the epidemiology of pearl millet downy mildew (*Sclerospora graminicola*).
Singh, S.D. Williams, R.J. St. Paul, Minn., American Phytopathological Society. Phytopathology. Dec 1980. v. 70 (12). p. 1187-1190. ill. 11 ref. (NAL Call No.: 464.8 P56).
- 0450**
Screening for grain mold resistance in sorghum (*Fusarium*, *Curvularia*, *Aspergillus*).
Narayana, D. Raghavender Rao, M.; Sugunakara Rao, B. (s.l.) : Sorghum Improvement Conference of North America. Sorghum newsletter. 1982. v. 25. p. 111. (NAL Call No.: 59.8 S06).
- 0451**
Screening of sorghum varieties for resistance to charcoal rot (*Macrophomina*).
Koteswara Rao, G. Kumara Swamy, V.C.; Rao, K.N. (s.l.) : Sorghum Improvement Conference of North America. Sorghum newsletter. 1982. v. 25. p. 113. (NAL Call No.: 59.8 S06).
- 0452**
Seed rot and seedling blight of sorghum by R.W. Leukel and John H. Martin.
Leukel, R. W. Washington, D.C. U.S. Dept. of Agriculture 1943. 26 p. -. Bibliography: p. 26. (NAL Call No.: Fiche S-69 no.839).
- 0453**
Simulating yield losses in grain sorghum due to sorghum downy mildew (Modeling).
Tuleen, D.M. Frederiksen, R.A. Madison, Wis., American Society of Agronomy. Agronomy journal. Nov/Dec 1981. v. 73 (6). p. 983-987. 16 ref. (NAL Call No.: 4 AM34P).
- 0454**
Sorghum downy mildew (Breeding lines of resistant sorghums).
Miller, F.R. TAEMA. College Station : The Station. Miscellaneous publication MP - Texas Agricultural Experiment Station. May 1983. Presented at the workshop on Integrated Control of Sorghum Downy Mildew, Texas, 1982. May 1983. (1535). p. 7. (NAL Call No.: 100 T31M).
- 0455**
Sorghum downy mildew (caused by *Peronosclerospora sorghi*) in Kansas in 1979.
Sim, T. IV. St. Paul, Minn., American Phytopathological Society. Plant disease. May 1980. v. 64 (5). p. 499. map. 6 ref. (NAL Call No.: 1.9 P69P).
- 0456**
Sorghum downy mildew (caused by *Peronosclerospora sorghi*) in the United States: overview and outlook.
Frederiksen, R.A. St. Paul, Minn., American Phytopathological Society. Plant disease. Oct 1980. v. 64 (10). p. 903-908. ill., maps. 20 ref. (NAL Call No.: 1.9 P69P).

0457

Sorghum downy mildew in Texas, a brief history.
Frederiksen, R.A. TAEMA. College Station : The Station. Miscellaneous publication MP - Texas Agricultural Experiment Station. May 1983. Presented at the workshop on Integrated Control of Sorghum Downy Mildew, Texas, 1982. May 1983. (1535). p. 6. ill. Includes references. (NAL Call No.: 100 T31M).

0458

Sorghum downy mildew (*Peronosclerospora sorghi*): biology of systemic infection by conidia and of a resistant response in sorghum.
Yeh, Y. Frederiksen, R.A. St. Paul, Minn., American Phytopathological Society. Phytopathology. May 1980. v. 70 (5). p. 372-376. ill. 16 ref. (NAL Call No.: 464.8 P56).

0459

Sources of resistance to pathotype 3 of *Peronosclerospora sorghi* (Sorghum lines, breeding).
Rosenow, D.T. TAEMA. College Station : The Station. Miscellaneous publication MP - Texas Agricultural Experiment Station. May 1983. Presented at the workshop on Integrated Control of Sorghum Downy Mildew, Texas, 1982. May 1983. (1535). p. 8-9. ill. (NAL Call No.: 100 T31M).

0460

Sources of resistance to rough leaf spot disease in sweet sorghum.
PLDRA, Zummo, N. Broadhead, D.M. St. Paul, Minn. : American Phytopathological Society. Plant disease. Dec 1984. v. 68 (12). p. 1048-1049. Includes 3 references. (NAL Call No.: DNAL 1.9 P69P).

0461

Stalk rots of corn and sorghum.
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0462

Stalk rots of corn and sorghum.
Doupnik, Ben Jr. Dunkle, Larry D.; Wysong, David S. & NebGuide. Document available from: University of Nebraska-Lincoln, Dept. of Agricultural Communications, Lincoln, Nebraska 68583 1974. Explains early field symptoms and control methods for stalk rots. 1 sheet : ill.

(NAL Call No.: Document available from source.). (NAL Call No.: G 74-148).

0463

Standardizing the dosages of seed dressings in response to seed germination and mycoflora in sorghum.
Solanke, R.B. Kulkarni, L.P. (s.l.) : Sorghum Improvement Conference of North America. Sorghum newsletter. 1982. v. 25. p. 115-116. (NAL Call No.: 59.8 SD6).

0464

Studies on the inoculation of grain mold fungi on sorghum (*Fusarium moniliforme*, *Curvularia lunata*).
Narayana, D. Prasad, M.N. (s.l.) : Sorghum Improvement Conference of North America. Sorghum newsletter. 1982. v. 25. p. 107-108. (NAL Call No.: 59.8 SD6).

0465

Survival of *Fusarium moniliforme* hyphae and conidia in grain sorghum stalks.
Manzo, S.K. Claflin, L.E. St. Paul, Minn. : American Phytopathological Society. Plant disease. Oct 1984. v. 68 (10). p. 866-867. Includes 6 references. (NAL Call No.: 1.9 P69P).

0466

Symptoms of sorghum downy mildew on maize following inoculations with conidia and oospores (*Peronosclerospora sorghi*, resistant cultivars).
Salumu-Shabani, Frederiksen, R.A. St. Paul, American Phytopathological Society. Plant disease. Nov 1982. v. 66 (11). p. 1006-1008. ill. 13 ref. (NAL Call No.: 1.9 P69P).

0467

Systemic remissive property of metalaxyl against downy mildew in pearl millet (*Sclerospora graminicola*, India).
Singh, S.D. Gopinath, R.; Luther, K.D.M.; Pawar, M.N. St. Paul, Minn. : American Phytopathological Society. Plant disease. Aug 1984. v. 68 (8). p. 668-670. ill. Includes 7 references. (NAL Call No.: 1.9 P69P).

(PLANT DISEASES - FUNGAL)

0468

A test for randomness of infection by soilborne pathogens (*Gaeumannomyces graminis* take-all disease of wheat (*Triticum*), barley (*Hordeum*), inoculation of foxtail millet, *Setaria italica*, mathematical models).

Gilligan, C.A. PHYTA. St. Paul : American Phytopathological Society. Phytopathology. Feb 1983. v. 73 (2). p. 300-303. 12 ref. (NAL Call No.: 464.8 P56).

0469

Use of near-isogenic host populations to estimate the effect of three foliage diseases on pearl millet forage yield (*Cercospora penniseti*).

Burton, G.W. Wells, H.D. St. Paul, Minn., American Phytopathological Society. Phytopathology. Mar 1981. v. 71 (3). p. 331-333. 7 ref. (NAL Call No.: 464.8 P56).

0470

Use of systemic fungicides metalaxyl and fosetyl-A1 for control of sorghum downy mildew in corn and sorghum in South Texas. II. Foliar application (Phytotoxicity).

Odyssey, G.N. Frederiksen, R.A. St. Paul, Minn. : American Phytopathological Society. Plant disease. July 1984. v. 68 (7). p. 608-609. ill. Includes references. (NAL Call No.: 1.9 P69P).

0471

Use of systemic fungicides metalaxyl and fosetyl-A1 for control of sorghum downy mildew in corn and sorghum in South Texas. I. Seed treatment (*Peronosclerospora sorghi*, phytotoxicity).

Odyssey, G.N. Frederiksen, R.A. St. Paul, Minn. : American Phytopathological Society. Plant disease. July 1984. v. 68 (7). p. 604-607. ill. Includes references. (NAL Call No.: 1.9 P69P).

0472

Variation among sorghum mutants resistant to *Periconia circinata* (Mang.) Sacc. (Milo disease, Texas).

Schertz, K.F. Madison, Wis. : Crop Science Society of America. Crop science. Sept/Oct 1984. v. 24 (5). p. 984-986. Includes references. (NAL Call No.: 64.8 C883).

PLANT DISEASES - BACTERIAL

0473

Chemical control of bacterial streak of sorghum, 1979 (Sorghum (Sorghum bicolor 'NC+ 170'), bacterial streak; Xanthomonas holcicola).
Lengkeek, V.H. Sanden, G.E.; Gwin, R.E. (s.l.), The Society. Fungicide and nematocides tests; results - American Phytopathological Society. 1980. v. 35. p. 106. (NAL Call No.: 464.9 AM31R).

0478

Stalk rots of corn and sorghum.
Doupnik, Ben Jr. Dunkle, Larry D.; Wysong, David S. & NebGuide. Document available from: University of Nebraska-Lincoln, Dept. of Agricultural Communications, Lincoln, Nebraska 68583 1974. Explains early field symptoms and control methods for stalk rots. 1 sheet : ill. (NAL Call No.: Document available from source.). (NAL Call No.: G 74-148).

0474

Identification of Erwinia chrysanthemi as a pathogen on sorghum.
Obrigawitch, J.A. Jensen, S.G.; Mayberry, W.R. (s.l.) : Sorghum Improvement Conference of North America. Sorghum newsletter. 1982. v. 25. p. 123. (NAL Call No.: 59.8 S06).

0475

Isolation, culture, and pathogenicity to sudangrass of a corynebacterium associated with ratoon stunting of sugarcane and with bermudagrass (Sorghum vulgare sudanense, Cynodon dactylon, uncertain taxonomic status of the pathogen).
Liao, C.H. Chen, T.A. St. Paul, Minn., American Phytopathological Society. Phytopathology. Dec 1981. v. 71 (12). p. 1303-1306. ill. Includes 22 ref. (NAL Call No.: 464.8 P56).

0476

Occurrence in Johnsongrass (Sorghum halepense) of rickettsia-like bacteria related to the phony peach disease organism (in Georgia).
Weaver, D.J. AR-S0. Raju, B.C.; Wells, J.M.; Lowe, S.K. St. Paul, Minn., American Phytopathological Society. Plant disease. May 1980. v. 64 (5). p. 485-487. ill. 14 ref. (NAL Call No.: 1.9 P69P).

0477

Restriction enzyme analysis of plasmids from syringomycin-producing strains of Pseudomonas syringae (isolated from millet, apricot and almond, Prunus amygdalus).
Gonzalez, C.F. Vidaver, A.K. St. Paul, Minn., American Phytopathological Society. Phytopathology. Mar 1980. v. 70 (3). p. 223-225. ill. 15 ref. (NAL Call No.: 464.8 P56).

PLANT DISEASES - VIRAL

0479

Antiserum available for identification of sorghum viruses.

Toler, R.W. Berger, P.H. (s.l.) : Sorghum Improvement Conference of North America. Sorghum newsletter. 1982. v. 25. p. 123-124. (NAL Call No.: 59.8 SD6).

0480

Control strategies for vectors of virus and viruslike pathogens of maize and sorghum.

All, J.N. Kuhn, C.W.; Jellum, M.D. (s.l.), (s.n.). Southern cooperative series bulletin. June 1981. June 1981. (247). p. 127-131. (NAL Call No.: 100 G29SD).

0481

Development of grain sorghum lines with resistance to sugarcane mosaic and other sorghum diseases (Peronosclerospora sorghi, Sphacelotheca reiliana, Puccinia purpurea).

Henzell, R.G. Persley, D.M.; Greber, R.S.; Fletcher, D.S.; Van Slobbe, L. St. Paul, Minn., American Phytopathological Society. Plant disease. Oct 1982. v. 66 (10). p. 900-901. 14 ref. (NAL Call No.: 1.9 P69P).

0482

Disease reaction of sorghum cultivars to inoculations with maize dwarf mosaic virus (MDMV) (Effects on yield, plant height and stem diameter, resistance).

Villalon, B. Creelman, R.A. College Station : The Station. PR - Texas Agricultural Experiment Station. Nov 1981. Nov 1981. (3913). 12 p. Includes references. (NAL Call No.: 100 T31P).

0483

Diseases of pearl millet: an assessment in consideration of growing the crop in Mississippi.

JMSSA. Zummo, N. Jackson, Miss. : The Academy. Journal of the Mississippi Academy of Sciences. 1984. v. 29. p. 129-131. Includes 3 references. (NAL Call No.: DNAL 500 M697).

0484

Effect of various combinations of inoculation pressure and concentration on varietal disease response of sorghum following spray gun inoculation with maize dwarf mosaic virus.

Toler, R.W. CRPSA. Miller, F.R. Madison : Crop Science Society of America. Crop science. Jan/Feb 1983. v. 23 (1). p. 83-85. Includes references. (NAL Call No.: 64.8 C883).

0485

Feeding preferences and colonization abilities of three aphid vectors (Homoptera:Aphididae) of peanut mottle virus on selected host plants.

EVETEX. Highland, H.B. Roberts, J.E. College Park, Md. : Entomological Society of America. Environmental entomology. Aug 1984. v. 13 (4). p. 970-974. Includes references. (NAL Call No.: DNAL QL461.E532).

0486

Greenhouse seedling technique to determine the reaction of sorghum to maize dwarf mosaic virus strain A (Host resistance).

Martin, T.J. CRPSA. Hackerott, H.L. Madison : Crop Science Society of America. Crop science. Nov/Dec 1982. v. 22 (6). p. 1255-1256. 13 ref. (NAL Call No.: 64.8 C883).

0487

Maize chlorotic mottle virus and crop rotation: effect of sorghum on virus incidence.

Phillips, N.J. Uyemoto, J.K.; Wilson, D.L. St. Paul, Minn., American Phytopathological Society. Plant disease. May 1982. v. 65 (5). p. 376-379. Includes 22 ref. (NAL Call No.: 1.9 P69P).

0488

Maize dwarf mosaic of corn and sorghum (sugarcane mosaic) (Virus diseases, California).

Hall, D.H. Paulus, A.D. Berkeley : The Service. Leaflet - University of California, Cooperative Extension Service. Apr 1982. Apr 1982. (2859,rev.). 2 p. ill. (NAL Call No.: S544.3.C2C3).

0489

Maize Dwarf Mosaic Virus.

Claflin, Larry. 1976. This publication discusses the corn and sorghum symptoms, insect carriers, host plants, & control of Maize Dwarf Mosaic Virus. Document available from: Distribution Center, Umberger Hall, Kansas State Univ., Manhattan, KS 66506. 1 sheet. (NAL Call No.: L481).

0490

Optimum conditions for studies of maize dwarf mosaic virus strains A and B in sorghum.

PLDRA. Seifers, D.L. St. Paul, Minn. : American Phytopathological Society. Plant disease. Dec 1984. v. 68 (12). p. 1067-1069. Includes 10 references. (NAL Call No.: DNAL 1.9 P69P).

0491

Quantitative immunoelectrophoresis of panicum mosaic virus and strains of St. Augustine decline (Isolates maintained in foxtail millet, *Setaria italica*, or in St. Augustine grass, *Stenotaphum secundatum*).

Berger, P.H. PHYTA. Toler, R.W. St. Paul : American Phytopathological Society. Phytopathology. Feb 1983. v. 73 (2). p. 185-189. ill. 20 ref. (NAL Call No.: 464.8 P56).

0492

The reaction of sorghum genotypes to natural infection by sugarcane mosaic virus--Johnson grass strain in Australia.

Persley, D.M. Greber, R.S. (s.l.) : Sorghum Improvement Conference of North America. Sorghum newsletter. 1982. v. 25. p. 105. Includes references. (NAL Call No.: 59.8 S06).

0493

Reaction of sweet sorghum to inoculations with maize dwarf mosaic virus (MDMV) and sugarcane mosaic virus (SCMV).

Villalon, B. TX-AR-SO. Reeves, S.A. Jr.; Smith, B.A. College Station, Tex., The Station. PR - Texas Agricultural Experiment Station. May 1980. May 1980. (3681). 8 p. 11 ref. (NAL Call No.: 100 T31P).

0494

Reactions of some sorghum varieties to barley yellow dwarf virus.

Stoner, W.N. AR-NC. Thysell, J.F. Pierre, S. Dak., The Academy. Proceedings of the South Dakota Academy of Science. South Dakota Academy of Science. 1979. v. 58. p. 30-34. ill. 6 ref. (NAL Call No.: 500 S082).

0495

Remote sensing of virus diseased corn and sorghum.

Hilty, J.W. (s.l.), (s.n.). Southern cooperative series bulletin. June 1981. June 1981. (247). p. 124-126. (NAL Call No.: 100 G2950).

0496

Resistance of sweet sorghum cultivars and lines to maize dwarf mosaic (in Kentucky, Ohio, and Mississippi).

Zummo, N. Findley, W.R.; Freeman, K.C.; Bitzer, M.J. St. Paul, Minn., American Phytopathological Society. Plant disease. Mar 1981. v. 65 (3). p. 241-242. 17 ref. (NAL Call No.: 1.9 P69P).

0497

Response of sorghum, millet and corn to different strains of sugarcane mosaic virus and strain A of maize dwarf mosaic virus / by Syed Fazal Imam Fazli.

Fazli, Syed Fazal Imam, 1934. 1971. Thesis--Texas A&M University. Photocopy of typescript. Ann Arbor: University Microfilms, 1972. xviii, 148 leaves : ill. Bibliography: leaves 133-138. (NAL Call No.: DISS 72-5656).

0498

Serological relationships among four Australian strains of sugarcane mosaic virus as determined by immune electron microscopy (Sorghum halepense, Queensland blue couch grass, sabi grass).

Shukla, D.D. Gough, K.H. St. Paul, Minn. : American Phytopathological Society. Plant disease. Mar 1984. v. 68 (3). p. 204-206. Includes references. (NAL Call No.: 1.9 P69P).

0499

Sorghum stunt mosaic (Insect vectors, *Graminella sonora*, maize).

Mayhew, D.E. Flock, R.A. St. Paul, Minn., American Phytopathological Society. Plant disease. Jan 1981. v. 65 (1). p. 84-86. ill. 7 ref. (NAL Call No.: 1.9 P69P).

0500

Susceptibility of maize dwarf mosaic virus-infected sorghum and corn to *Helminthosporium maydis* Nisikado and Miyake / Surendra Pal Singh Beniwal.

Beniwal, Surendra Pal Singh, 1945. 1972. Thesis (Ph.D.)--Auburn University, 1972. Photocopy. Ann Arbor, Mich. : University Microfilms, 1972. xiii, 72 leaves ; 21 cm. Bibliography: leaves 31-36. (NAL Call No.: DISS 72-23,619).

PLANT DISEASES - PHYSIOLOGICAL

0501

Correlative influence of pH (hydrogen-ion concentration) reduction on recovery from iron chlorosis in sorghum varieties.

Kannan, S. New York, Marcel Dekker. Journal of plant nutrition. 1980. v. 2 (4). p. 507-516. ill. 6 ref. (NAL Call No.: QK867.J67).

0502

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

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

0503

Differences in iron stress response and iron uptake in some sorghum varieties (Includes chlorosis).

Kannan, S. New York, Marcel Dekker. Journal of plant nutrition. 1980. v. 2 (3). p. 347-358. ill. 9 ref. (NAL Call No.: QK867.J67).

0504

Economic soil treatment of iron chlorosis in grain sorghum grown on a gypsum affected soil.

Cihacek, L.J. New York, N.Y. : Marcel Dekker. Journal of plant nutrition. 1984. Presented at the "Second International Symposium on Iron Nutrition and Interactions in Plants," August 2-5, 1983, Utah State University, Logan. v. 7 (1/5). p. 329-340. Includes references. (NAL Call No.: QK867.J67).

0505

Effect of calcium sulfate on iron and zinc uptake in sorghum (Sorghum bicolor).

Bowman, R.A. Olsen, S.R. Madison, Wis., American Society of Agronomy. Agronomy journal. Sept/Oct 1982. v. 74 (5). p. 923-925. ill. 11 ref. (NAL Call No.: 4 AM34P).

0506

Effect of freezing on the hydrocyanic acid potential of field-grown sorghum tillers.

CRPSAY. Haskins, F.A. Gorz, H.J.; Hill, R.M.; Youngquist, J.B. Madison, Wis. : Crop Science Society of America. Crop science. Nov/Dec 1984. v. 24 (6). p. 1183-1186. Includes 9 references. (NAL Call No.: DNAL 64.8 C883).

0507

Effects of plant iron recycling on iron chlorosis of grain sorghum grown on calcareous soils (Sorghum bicolor).

Matocha, J.E. Pennington, D. New York ; Basel : Marcel Dekker, 1982. Iron nutrition and interactions in plants : Brigham Young University, August 12-14, 1981 / edited by S.D. Nelson ... (et al.). p. 869-882. 13 ref. (NAL Call No.: QK867.J67 v. 5, nos. 4-7).

0508

Effects of some chemical treatments on the recovery from chlorosis in Fe (iron) deficiency stressed sorghum cultivars.

Kannan, S. Ramani, 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. 631-639. ill. Includes references. (NAL Call No.: QK867.J67).

0509

Grain sorghum response to plant residue-recycled iron and other iron sources (Postharvest stubble and Amaranthus spp. plants, correction of chlorosis).

Matocha, J.E. 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. 259-270. Includes references. (NAL Call No.: QK867.J67).

0510

Indigenous soil properties influencing the availability of Fe (iron) in calcareous hot spots (Deficiency associated with sorghum and soybeans, localized chlorosis, Texas).

Loeppert, R.H. Hossner, L.R.; Chmielewski, M.A. New York, N.Y. : Marcel Dekker. Journal of plant nutrition. 1984. Presented at the "Second International Symposium on Iron Nutrition and Interactions in Plants," August 2-5, 1983, Utah State University, Logan. v. 7 (1/5). p. 135-147. ill., maps. Includes references. (NAL Call No.: QK867.J67).

0511

Iron uptake by plants and deficiency correction from an irradiated Fe fertilizer source (Grain sorghum).

Anderson, W.B. Khattari, S.K. 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. 319-328. ill. Includes references. (NAL Call No.: QK867.J67).

0512

Manure and inorganic fertilizer effects on sorghum and sunflower growth on iron-deficient soil.

Mathers, A.C. Thomas, J.D.; Stewart, B.A.; Herring, J.E. Madison, Wis., American Society of Agronomy. Agronomy journal. Nov/Dec 1980. v. 72 (6). p. 1025-1029. ill. 22 ref. (NAL Call No.: 4 AM34P).

0513

Plant genotype differences to ferrous and total iron in emerging leaves. I. Sorghum and maize (Uptake and deficiency).

Pierson, E.E. Clark, R.B.; Maranville, J.W.; Coyne, D.P. 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. 371-387. ill. Includes references. (NAL Call No.: QK867.J67).

0514

The reduction of pH and recovery from chlorosis in Fe-stressed (iron) sorghum seedlings: the principal role of adventitious roots (Sorghum vulgare).

Kannan, S.JPNUD. New York : Marcel Dekker. Journal of plant nutrition. 1981. v. 4 (1). p. 73-78. ill. 11 ref. (NAL Call No.: QK867.J67).

0515

Responses to Fe (iron) deficiency in roots of "Fe-efficient" plant species (Zea mays, maize, Cucumis sativus, cucumbers, Panicum milaceum, proso, Helianthus annuus, sunflowers).

Romheld, V. Marschner, H.; Kramer, D. New York ; Basel : Marcel Dekker, 1982. Iron nutrition and interactions in plants : Brigham Young University, August 12-14, 1981 / edited by S.D. Nelson ... (et al.). p. 489-498. ill. 14 ref. (NAL Call No.: QK867.J67 v. 5, nos. 4-7).

0516

Screening for sorghum genotypic differences to iron deficiency (Sorghum bicolor).

Clark, R.B. Yusuf, Y.; Ross, W.M.; Maranville, J.W. New York ; Basel : Marcel Dekker, 1982. Iron nutrition and interactions in plants : Brigham Young University, August 12-14, 1981 / edited by S.D. Nelson ... (et al.). p. 587-604. ill. 24 ref. (NAL Call No.: QK867.J67 v. 5, nos. 4-7).

0517

Sorghum cultivar evaluation for iron chlorosis resistance by visual scores (Stress tolerance, leaf chlorophyll content).

McKenzie, D.B. Hossner, L.R.; Newton, R.J. New York, N.Y. : Marcel Dekker. Journal of plant nutrition. 1984. Presented at the "Second International Symposium on Iron Nutrition and Interactions in Plants," August 2-5, 1983, Utah State University, Logan. v. 7 (1/5). p. 677-685. ill. Includes references. (NAL Call No.: QK867.J67).

0518

Variability among sorghum genotypes for uptake of elements under acid soil field conditions (Sorghum bicolor, nutrient uptake).

Duncan, R.R.JPNUD. New York : Marcel Dekker. Journal of plant nutrition. 1981. v. 4 (1). p. 21-32. 18 ref. (NAL Call No.: QK867.J67).

0519

Variability of sorghum genotypes to tolerate iron deficiency (Sorghum bicolor).

Williams, E.P. Clark, R.B.; Yusuf, Y.; Ross, W.M.; Maranville, J.W. New York ; Basel : Marcel Dekker, 1982. Iron nutrition and interactions in plants : Brigham Young University, August 12-14, 1981 / edited by S.D. Nelson ... (et al.). p. 553-567. ill. 25 ref. (NAL Call No.: QK867.J67 v. 5, nos. 4-7).

0520

Zinc nutrition related to critical deficiency and toxicity levels for sorghum.

Dhki, K. Madison : American Society of Agronomy. Agronomy journal. Mar/Apr 1984. v. 76 (2). p. 253-256. ill. Includes references. (NAL Call No.: 4 AM34P).

0521

Zinc-stress response in some sorghum hybrids and parent cultivars: significance of pH reduction and recovery from chlorosis.

Kannan, S. Ramani, S. New York, Marcel Dekker. Journal of plant nutrition. 1982. v. 5, 1.e.4 (3). p. 219-227. ill. Includes 11 ref. (NAL Call No.: QK867.J67).

MISCELLANEOUS PLANT DISORDERS

0522

Antidotes reduce injury to grain sorghum (Sorghum bicolor) from Acetanilide herbicides.
Delvin, O.L.WEESA. Moshier, L.J.; Russ, O.G.; Stahlman, P.W. Champaign : Weed Science Society of America. Weed science. Nov 1983. v. 31 (6). p. 790-795. Includes references. (NAL Call No.: 79.8 W41).

0523

An approach to minimize Al (aluminium) toxicity in Ultisols through organic matter additions (Sorghum plants).

Wahab, A. PR. Lugo-Lopez, M.A. Rio Piedras, The Station. The Journal of agriculture of the University of Puerto Rico. Puerto Rico. Agricultural Experiment Station. Jan 1980. v. 64 (1). p. 1-8. ill. (NAL Call No.: 8 P832J).

0524

Azide induced seedling injury in parents and hybrid of grain sorghum (Mutagenicity, varieties).

Seetharami Reddi, T.V.V. Prabhakar, G. (s.l.) : Sorghum Improvement Conference of North America. Sorghum newsletter. 1982. v. 25. p. 96-97. Includes references. (NAL Call No.: 59.8 S06).

0525

Drought response of sorghum hybrids under a sprinkler irrigation gradient system (Sorghum bicolor, stress, resistance).

O'Neill, M.K.AGJDA. Hofmann, W.; Dobrenz, A.K.; Marcarian, V. Madison : American Society of Agronomy. Agronomy journal. Jan/Feb 1983. v. 75 (1). p. 102-107. ill. 23 ref. (NAL Call No.: 4 AM34P).

0526

Effect of application factors on postemergence phytotoxicity of fluazifop-butyl, haloxyfop-methyl, and sethoxydim (Soybeans, sorghum, Nebraska).

Buhler, O.O. Burnside, D.C. Champaign, Ill. : Weed Science Society of America. Weed science. Sept 1984. v. 32 (5). p. 574-583. Includes 26 references. (NAL Call No.: 79.8 W41).

0527

Effect of drought, nitrogen and sulfur on alkaloid and nitrate concentrations in pearl millet (Forages, stress, toxicity).

Krejsa, B.B. Rouquette, F.M. Jr.; Camp, B.J.; Holt, E.C.; Nelson, L.R. College Station, Tex. : The Station. PR - Texas Agricultural Experiment Station. Oct 1983. Oct 1983. (4141). p. 97-103. Includes references. (NAL Call No.:

100 T31P).

0528

Effect of tannic acid on a low tannin African sorghum variety in relation to carbohydrate and amylase (Seedling root growth retardation, germination).

Chukwura, E.N. Muller, H.G. Chicago, Institute of Food Technologists. Journal of food science. July/Aug 1982. v. 47 (4). p. 1380-1381. ill. 7 ref. (NAL Call No.: 389.8 F7322).

0529

Effect of trace element deficiencies and excesses on mineral nutrients in sorghum.

Clark, R.B. Pier, P.A.; Knudsen, O.; Maranville, J.W. New York, Marcel Dekker. Journal of plant nutrition. 1981. v. 3 (1/4). p. 357-374. 28 ref. (NAL Call No.: OK867.J67).

0530

Effect of wind on the crop water stress index derived by infrared thermometry (Sorghum bicolor, Zea mays, Phaseolus vulgaris, Gossypium hirsutum).

O'Toole, J.C.AGJDA. Hatfield, J.L. Madison : American Society of Agronomy. Agronomy journal. Sept/Oct 1983. v. 75 (5). p. 811-817. ill. Includes references. (NAL Call No.: 4 AM34P).

0531

The effects of Fall application of glyphosate on corn (Zea mays), soybeans (Glycine max), and johnsongrass (Sorghum halepense) (Phytotoxicity).

Jeffery, L.S. English, J.R.; Connell, J. Champaign, Ill., Weed Science Society of America. Weed science. Mar 1981. v. 29 (2). p. 190-195. ill. 9 ref. (NAL Call No.: 79.8 W41).

0532

Factors affecting the toxicity of glyphosate applied in the recirculating sprayer to johnsongrass (Sorghum halepense) and soybeans (Glycine max) (Herbicides).

McWhorter, C.G. AR-SO. Williford, J.R. Champaign, Ill., Weed Science Society of America. Weed science. Jan 1980. v. 28 (1). p. 59-63. ill. 14 ref. (NAL Call No.: 79.8 W41).

0533

Gibberellin precursor biosynthesis inhibition by EPTC and reversal by R-25788 (Herbicide, toxicity, sorghum).
 Wilkinson, R.E. PCBPB. New York : Academic Press. Pesticide biochemistry and physiology. June 1983. v. 19 (3). p. 321-329. Includes references. (NAL Call No.: SB951.P49).

0534

The influence of environmental factors on oryzalin activity (Herbicide, phytotoxicity to grain sorghum).
 Nelson, J.E. WEESA. Meggitt, W.F.; Penner, D.; Ladlie, J.S. Champaign : Weed Science Society of America. Weed science. Sept 1983. v. 31 (5). p. 752-758. ill. Includes references. (NAL Call No.: 79.8 W41).

0535

Influence of soil moisture on the safening effect of CGA-43089 in grain sorghum (Sorghum bicolor) (Phytotoxicity).
 Ketchersid, M.L. Norton, K.; Merkle, M.G. Champaign, Ill., Weed Science Society of America. Weed science. May 1981. v. 29 (3). p. 281-287. ill. 26 ref. (NAL Call No.: 79.8 W41).

0536

Laboratory and field evaluations of sorghum for response to aluminum and acid soil (Sorghum bicolor, stress ratings, Georgia).
 Duncan, R.R. AGJDA. Clark, R.B.; Furlani, P.R. Madison : American Society of Agronomy. Agronomy journal. Nov/Dec 1983. v. 75 (6). p. 1023-1026. Includes references. (NAL Call No.: 4 AM34P).

0537

Leaf and canopy temperatures of pearl millet genotypes under irrigated and nonirrigated conditions (Pennistemon americanum, water stress correlation, drought resistance screening, Kansas).
 Singh, P. AGJDA. Kanemasu, E.T. Madison : American Society of Agronomy. Agronomy journal. May/June 1983. v. 75 (3). p. 497-501. ill. Includes references. (NAL Call No.: 4 AM34P).

0538

Lodging resistance in high energy sorghum (Cultivars).
 Creelman, R.A. Miller, F.R.; Monk, R. (s.l.) : Sorghum Improvement Conference of North America. Sorghum newsletter. 1982. v. 25. p. 31. (NAL Call No.: 59.8 S06).

0539

Metolachlor influence on growth and terpenoid synthesis (Herbicides, sorghum, toxicity).
 Wilkinson, R.E. New York, Academic Press. Pesticide biochemistry and physiology. Aug 1981. v. 16 (1). p. 63-71. ill. 30 ref. (NAL Call No.: SB951.P49).

0540

Metolachlor (2-chloro-N-(2-ethyl-6-methylphenyl)-N-(2-methoxy-1-methylethyl) acetamide) and the metolachlor safener CGA 43089 (alpha-(cyanomethoximino)-benzacetone nitrile) in sorghum seedlings: Correlations between morphological effects and ethylene formation (Grass herbicides).
 Paradies, I. Ebert, E.; Elstner, E.F. New York, Academic Press. Pesticide biochemistry and physiology. June 1981. v. 15 (3). p. 209-212. ill. 9 ref. (NAL Call No.: SB951.P49).

0541

Moisture deficits and grain sorghum performance: drought stress conditioning (Sorghum bicolor, sprinkler irrigation gradient, Nebraska).
 Garrity, D.P. AGJDA. Sullivan, C.Y.; Watts, D.G. Madison : American Society of Agronomy. Agronomy journal. Nov/Dec 1983. v. 75 (6). p. 997-1004. ill. Includes references. (NAL Call No.: 4 AM34P).

0542

Moisture deficits and grain sorghum performance: effect of genotype and limited irrigation strategy (Sorghum bicolor, stress).
 Garrity, D.P. Watts, D.G.; Sullivan, C.Y.; Gilley, J.R. Madison, Wis., American Society of Agronomy. Agronomy journal. Sept/Oct 1982. v. 74 (5). p. 808-814. ill. 13 ref. (NAL Call No.: 4 AM34P).

0543

Moisture deficits and grain sorghum performance: evapotranspiration-yield relationships (Sorghum bicolor, irrigation management, water stress effects).
 Garrity, D.P. Watts, D.G.; Sullivan, C.Y.; Gilley, J.R. Madison, Wis., American Society of Agronomy. Agronomy journal. Sept/Oct 1982. v. 74 (5). p. 815-820. ill. 22 ref. (NAL Call No.: 4 AM34P).

(MISCELLANEOUS PLANT DISORDERS)

0544

Mortality of sorghum plants after cutting (Regrowth, multiple regression analysis).
Takasaki, Y. Oizumi, H.; Nojima, H. Boulder, Colo. : Westview Press, 1983. Proceedings of the XVI International Grassland Congress : held at Lexington, Kentucky, U.S.A. June 15-24, 1981 / edited by J. Allan Smith and Virgil W. Hays. p. 445-447. ill. 3 ref. (NAL Call No.: SB197.I5 1981a).

0545

Nitrate and total alkaloid concentration of 11 pearl millet lines (*Pennisetum americanum*, breeding, chemical analyses, drought stress, Texas).
Krejsa, B.B. AGUOAT. Rouquette, F.M. Jr.; Holt, E.C.; Camp, B.J.; Nelson, L.R. Madison : American Society of Agronomy. *Agronomy journal*. Jan/Feb 1984. v. 76 (1). p. 157-159. Includes references. (NAL Call No.: 4 AM34P).

0546

Oximes as seed safeners for grain sorghum (*Sorghum bicolor*) to herbicides (Antidotes, metolachlor toxicity).
Chang, T.S. Merkle, M.G. Champaign, Ill., Weed Science Society of America. *Weed science*. Jan 1982. v. 30 (1). p. 70-73. ill. Includes 7 ref. (NAL Call No.: 79.8 W41).

0547

Physiological responses to sorghum hybrids and parental lines to soil moisture stress (*Sorghum bicolor*, germplasm evaluations, Arizona).
Hofmann, W.C. O'Neill, M.K.; Dobrenz, A.K. Madison : American Society of Agronomy. *Agronomy journal*. Mar/Apr 1984. v. 76 (2). p. 223-228. ill. Includes references. (NAL Call No.: 4 AM34P).

0548

Physiological responses to wind and sandblast damage by grain sorghum plants.
Armbrust, D.V. Madison, Wis., American Society of Agronomy. *Agronomy journal*. Jan/Feb 1982. v. 74 (1). p. 133-135. Includes 26 ref. (NAL Call No.: 4 AM34P).

0549

Phytotoxicity of three insecticides to grain sorghum hybrids (Louisiana).
Baton Rouge : The Department. Report of projects - Louisiana Agricultural Experiment Station, Department of Agronomy. 1982. 1982. p. 121-123. (NAL Call No.: 100 L936).

0550

Preventing prussic acid poisoning.
Schaller, F.W. Duncan, E. R.; Anderson, J. R. 1968. This publication describes how sorghum has the highest potential for prussic acid poisoning, the nature of prussic acid, symptoms and precautions. Document available from: Publications Distribution, Printing & Publ. Bldg., Iowa State University, Ames, IA 50011. 3 p. (NAL Call No.: Not available at NAL.). (NAL Call No.: AG-67).

0551

Protection of grain sorghum (*Sorghum bicolor*) from chloroacetanilide herbicide injury.
Roeth, F.W. WEESA. Burnside, D.C.; Wicks, G.A. Champaign : Weed Science Society of America. *Weed science*. May 1983. v. 31 (3). p. 373-379. Includes references. (NAL Call No.: 79.8 W41).

0552

Recovery of two sorghum varieties from sublethal infestations of chinch bug, *Blissus leucopterus leucopterus* (Say) (Hemiptera:Lygaeidae).
Ahmad, T.R. Kindler, S.D.; Pruess, K.P. College Park, Md. : Entomological Society of America. *Journal of economic entomology*. Feb 1984. v. 77 (1). p. 142-150. Includes references. (NAL Call No.: 421 J822).

0553

Response of crops to sorghum residues (Plant associations, sweet corn, snap beans, soil environment).
Ruiz-Sifre, G.V. JOSHB. Ries, S.K. Alexandria : The Society. *Journal of the American Society for Horticultural Science*. Mar 1983. v. 108 (2). p. 262-266. ill. Includes references. (NAL Call No.: 81 S012).

0554

Response of sorghum and wheat to different K⁺/Na⁺ (potassium/sodium ion) ratios at varying osmotic potentials (Salt stress, tolerance).
Devitt, D. Stolzy, L.H.; Jarrell, W.M. Madison, Wis. : American Society of Agronomy. *Agronomy journal*. July/Aug 1984. v. 76 (4). p. 681-688. ill. Includes references. (NAL Call No.: 4 AM34P).

0555

Screening sorghum for aluminum tolerance in nutrient solutions.
Furlani, P.R. Clark, R.B. Madison, Wis., American Society of Agronomy. *Agronomy journal*. July/Aug 1981. v. 73 (4). p. 587-594. ill. 28 ref. (NAL Call No.: 4 AM34P).

0556

Sewage sludge effects on soil: heavy metal accumulation and movement (Sorghum, phytotoxicity).

Taylor, R.W. Duseja, D.R.; Thangudu, P.R. New York, Marcel Dekker. Journal of environmental science and health. Part A: Environmental science and engineering. 1982. v. 17 (3). p. 427-441. 18 ref. (NAL Call No.: TD172.J6).

0557

Some characteristics of plinthite inhibiting plant growth (Aluminum toxicity, grain sorghum).

Perkins, H.F. Kaihulla, E. Madison, Wis., American Society of Agronomy. Agronomy journal. July/Aug 1981. v. 73 (4). p. 671-673. 19 ref. (NAL Call No.: 4 AM34P).

0558

Translocation of ¹⁴C (carbon isotope)-glyphosate (herbicide) in soybeans (Glycine max) and johnsongrass (Sorghum halepense).

McWhorter, C.G. AR-SO. Jordan, T.N.; Wills, G.D. Champaign, Ill., Weed Science Society of America. Weed science. Jan 1980. v. 28 (1). p. 113-118. ill. 23 ref. (NAL Call No.: 79.8 W41).

0559

Use of safeners to protect sorghum from herbicide injury.

Peek, J.W. Dill, T.R.; Turner, W.E. Washington, D.C., The Conference. Proceedings of the ... annual corn and sorghum industry research conference - American Seed Trade Association, Corn and Sorghum Division, Corn and Sorghum Research Conference. 1982. 1982. (36th). p. 31-47. 44 ref. (NAL Call No.: 59.9 AM32).

0560

Zinc nutrition related to critical deficiency and toxicity levels for sorghum.

Ohki, K. Madison : American Society of Agronomy. Agronomy journal. Mar/Apr 1984. v. 76 (2). p. 253-256. ill. Includes references. (NAL Call No.: 4 AM34P).

PROTECTION OF PLANT PRODUCTS - GENERAL AND MISC.

0561

Amino acid profile of sound and ergot infected bajra (*Pennisetum typhoideum*) (Pearlmillet).
Gadre, V.K. Rao, B.Y. New Delhi, All India Food Preservers' Association. The Indian food packer. Nov/Dec 1978. v. 32 (6). p. 22-23. ill. 6 ref. (NAL Call No.: 389.8 IN25).

0562

Applicability of the colorimetric alpha-amylase assay to evaluate sprouted sorghum.
Mathewson, P.R. Fahrenholz, C.H.; Pomeranz, Y. St. Paul, Minn., American Association of Cereal Chemists. Cereal chemistry. Mar/Apr 1982. v. 59 (2). p. 156-157. Includes 3 ref. (NAL Call No.: 59.8 C33).

0563

Bleaching effect of acid on pearlmillet (Process is practiced by some Nigerian villagers to improve the appearance of the flour).
Reichert, R.D. Youngs, C.G. St. Paul, Minn., American Association of Cereal Chemists. Cereal chemistry. July/Aug 1979. v. 56 (4). p. 287-290. ill. 5 ref. (NAL Call No.: 59.8 C33).

0564

Harvesting and storage of sweet sorghum biomass (Kansas).
Posler, G.L. Hill, N.S. (Washington, D.C. : The Department, 1983?). 3rd annual Solar and Biomass Workshop, April 26-28, 1983, Holiday Inn, Atlanta Airport/North Atlanta, Georgia / co-sponsors United States Department of Agriculture ... (et al.). p. 132-134. (NAL Call No.: aTJ810.S6 1983).

0565

Preharvest fungal invasion of sorghum grain (from Kansas and Texas, *Alternaria*, *Fusarium*).
Seitz, L.M. CECHA. Mohr, H.E.; Burroughs, R.; Glueck, J.A. St. Paul : American Association of Cereal Chemists. Cereal chemistry. Mar/Apr 1983. v. 60 (2). p. 127-130. ill. Includes references. (NAL Call No.: 59.8 C33).

0566

Seed element uptake, grain yield, and bird damage of methiocarb-treated sorghum hybrids.
Duncan, R.R. Boswell, F.C. Madison, Wis., American Society of Agronomy. Agronomy journal. Mar/Apr 1981. v. 73 (2). p. 290-292. 10 ref. (NAL Call No.: 4 AM34P).

0567

Sorghum phenolic acids, their high performance liquid chromatography separation and their relation to fungal resistance (Genotypes, molding, weathering, grain quality).
Hahn, D.H. CECHA. Faubion, J.M.; Rooney, L.W. St. Paul : American Association of Cereal Chemists. Cereal chemistry. July/Aug 1983. v. 60 (4). p. 255-259. ill. Includes references. (NAL Call No.: 59.8 C33).

PROTECTION OF PLANT PRODUCTS - INSECTS

0568

Damage by rice stink bug to grain sorghum (Oebalus pugnax, Texas).

Hall, D.G. IV. Teetes, G.L. College Park, Md., Entomological Society of America. Journal of economic entomology. June 1982. v. 75 (3). p. 440-445. Includes 4 ref. (NAL Call No.: 421 J822).

0589

Development of Sitophilus zeamais and Tribolium castaneum in whole, cracked, and ground pearl millet.

Meagher, R.L. Jr. Reed, C.; Mills, R.B. Lawrence, Kan., The Society. Journal of the Kansas Entomological Society. Jan 1982. v. 55 (1). p. 91-94. Includes 5 ref. (NAL Call No.: 420 K13).

0570

Mold-damaged grain sorghum as a diet for three stored-grain beetles (Coleoptera) (Tribolium castaneum, Cynaesus angustus, Cryptolestes pusillus).

Wright, V.F. EVETB. Burroughs, R. College Park : Entomological Society of America. Environmental entomology. Apr 1983. v. 12 (2). p. 558-560. Includes references. (NAL Call No.: QL461.E532).

0571

Recovery of two sorghum varieties from sublethal infestations of chinch bug, Blissus leucopterus leucopterus (Say) (Hemiptera:Lygaeidae).

Ahmad, T.R. Kindler, S.D.; Pruess, K.P. College Park, Md. : Entomological Society of America. Journal of economic entomology. Feb 1984. v. 77 (1). p. 142-150. Includes references. (NAL Call No.: 421 J822).

WEEDS

0572

Acetanilide-antidote combinations for weed control in corn (*Zea mays*) and sorghum (*Sorghum bicolor*).

Winkle, M.E. Leavitt, J.R.C.; Burnside, D.C. Champaign, Ill., Weed Science Society of America. Weed science. Nov 1980. v. 28 (6). p. 699-704. ill. 10 ref. (NAL Call No.: 79.8 W41).

0573

Addition of R-33865 to EPTC for extended herbicide activity (*Sorghum bicolor*).

Obrigawitch, T. Roeth, F.W.; Martin, A.R.; Wilson, R.G. Jr. Champaign, Ill., Weed Science Society of America. Weed science. July 1982. v. 30 (4). p. 417-422. ill. 20 ref. (NAL Call No.: 79.8 W41).

0574

Alachlor influence on sorghum growth and gibberellin precursor synthesis (*Chloracetamide* herbicide).

Wilkinson, R.E. New York, Academic Press. Pesticide biochemistry and physiology. Dec 1981. v. 4 (12). p. 177-184. Includes 40 ref. (NAL Call No.: S8951.P49).

0575

Annual progress report - 1980 / Iowa State University.

Document available from: Iowa State University, Publications Distribution, Printing & Publications Bldg., Ames, Iowa 50011 1980. This publication is a progress report and should not be considered conclusive. The topics covered are soil moisture report, K fertilization for corn and soybeans, sunflower populations, conservation tillage, crop disease trap plots, corn herbicides, spring wheat variety demonstration, musk thistle control, grain sorghum trial, and small grain selection. 17 p. : ill. (NAL Call No.: Document available from source.). (NAL Call No.: ORC 80-10).

0576

Annual progress report - 1980 : Shelby-Grundy Research Center, Beaconsfield, Iowa / Iowa State University of Science and Technology.

1981. This publication provides test information on grain sorghum, winter wheat, birdsfoot trefoil, and alfalfa management. Limestone rates and pasture interseeding systems are covered. Document available from: Iowa State Univ., Publications Distribution, Printing & Publications Bldg., Ames, Iowa 50011. 14 p. : ill. (NAL Call No.: Not available at NAL.). (NAL Call No.: ORC 80-02).

0577

Assure™ weed killer--control of selected annual and perennial grass weeds in soybeans and cotton.

SWSP8. Morton, C.s. Childs, G.H.; Crowder, S.H.; Edwards, M.T.; Hammes, G.G.; LeClair, J.J.; Maxcy, F.8. Champaign : The Society. Proceedings - Southern Weed Science Society. Jan 17-19, 1984. (37th). p. 78-81. (NAL Call No.: DNAL 79.9 S08).

0578

Biological activity of dhurrin and other compounds from Johnson grass (*Sorghum halepense*) (*Allelopathy*).

Nicollier, G.F. JAFCA. Pope, D.F.; Thompson, A.C. Washington : American Chemical Society. Journal of agricultural and food chemistry. July/Aug 1983. v. 31 (4). p. 744-748. ill. Includes references. (NAL Call No.: 381 J8223).

0579

Chemical weed control in corn and grain sorghum.

Swann, C.W. Athens, Ga., The Service. Bulletin - Georgia University, Cooperative Extension Service. Jan 1981. Jan 1981. (824). 17 p. (NAL Call No.: 275.29 G29B).

0581

Chemical weed control in corn and grain sorghum.

Swann, C.W. Athens, Ga. : The Service. Bulletin - Cooperative Extension Service, University of Georgia, College of Agriculture. Jan 1985. (824, rev.). 15 p. (NAL Call No.: DNAL 275.29 G29B).

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Swann, C.W. Athens, Ga., The Service. Bulletin - Cooperative Extension Service, University of Georgia, College of Agriculture. Jan 1982. Jan 1982. (824). 16 p. (NAL Call No.: 275.29 G29B).

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Chemical weed control in corn and grain sorghum.

Swann, C.W. GA. Athens, Ga., The Service. Bulletin - Cooperative Extension Service, University of Georgia College of Agriculture, Athens, Georgia. University. Cooperative Extension Service. Jan 1980. Jan 1980. (824). 15 p. ill. (NAL Call No.: 275.29 G29B).

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Swann, C.W. Athens : The Service. Bulletin - Cooperative Extension Service, University of Georgia, College of Agriculture. Jan 1983. Jan 1983. (824). 12 p. (NAL Call No.: 275.29 G29B).

0585

Chemical weed control in grain sorghum.

Greer, H.A.L. Denman, C.E. Stillwater. D.S.U. extension facts. Science serving agriculture Oklahoma State University. Cooperative Extension Service. Mar 1979. Mar 1979. (2763). 4 p. ill. (NAL Call No.: S544.3.0505).

0586

Chemical weed control in sorghum : 1981.

Wrage, Leon J. Arnold, W. E. Document available from: South Dakota State University, Ag. Information Buletting Room, Extension Building, Brookings, South Dakota 57007 1981. This publication discusses herbicide suggestions, band vs. broadcast application, reduced tillage systems, and sorghum irrigation. The herbicides included have been registered by the EPA. 5 p. (NAL Call No.: Document available from source.). (NAL Call No.: FS 525D).

0587

Comparison of ropewick applicators for control of johnsongrass (Sorghum halepense) in cotton (Gossypium hirsutum) with glyphosate (Herbicide application equipment, yields, California).

Kelley, P.E. Carter, C.H.; Thullen, R.J.; Miller, J.H. Champaign, Ill. : Weed Science Society of America. Weed science. July 1984. v. 32 (4). p. 431-435. Includes 21 references. (NAL Call No.: 79.8 W41).

0588

Competition between yellow nutsedge (Cyperus esculentus) and Japanese millet (Echinochloa crus-galli var. frumentacea).

Thullen, R.J. AR-W. Keeley, P.E. Champaign, Ill., Weed Science Society of America. Weed science. Jan 1980. v. 28 (1). p. 25-26. ill. 10

ref. (NAL Call No.: 79.8 W41).

0589

Competitive and allelopathic effects of sunflower (Helianthus annuus) (Sorghum, soybean, growth inhibition, growth reduction, interference, root exudates, controlled with herbicides).

Irons, S.M. Burnside, O.C. Champaign, Ill., Weed Science Society of America. Weed science. July 1982. v. 30 (4). p. 372-377. ill. 26 ref. (NAL Call No.: 79.8 W41).

0590

Control (disodium methanearsonate) and competitiveness of johnsongrass (Sorghum halepense) in cotton (Gossypium hirsutum).

Keeley, P.E. Thullen, R.J. Champaign, Ill., Weed Science Society of America. Weed science. May 1981. v. 29 (3). p. 356-359. 18 ref. (NAL Call No.: 79.8 W41).

0591

Control of foxtail millet (Setaria italica) in new seedlings of alfalfa (Medicago sativa) with EPTC applied in surface lines.

Dawson, J.H. Dell'Agostino, E. Champaign, Ill., Weed Science Society of America. Weed science. Nov 1978. v. 26 (6). p. 637-639. ill. 6 ref. (NAL Call No.: 79.8 W41).

0592

Control of johnsongrass (Sorghum halepense) and volunteer corn (Zea mays) in soybeans (Glycine max).

Dale, J.E. Champaign, Ill., Weed Science Society of America. Weed science. Nov 1981. v. 29 (6). p. 708-711. ill. 15 ref. (NAL Call No.: 79.8 W41).

0593

Control of johnsongrass (Sorghum halepense) in cotton (Gossypium hirsutum) with glyphosate (Herbicides).

Keeley, P.E. Thullen, R.J.; Carter, C.H.; Miller, J.H. Champaign, Ill. : Weed Science Society of America. Weed science. May 1984. v. 32 (3). p. 306-309. Includes references. (NAL Call No.: 79.8 W41).

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0594

Control of johnsongrass (*Sorghum halepense*) in soybeans (*Glycine max*) with foliar applied herbicides.

Banks, P.A. WEESA. Tripp, T.N. Champaign : Weed Science Society of America. Weed science. Sept 1983. v. 31 (5). p. 628-633. Includes references. (NAL Call No.: 79.8 W41).

0595

Controlling weeds in Georgia-grown sorghum.

Dowler, C.C. Athens, The Stations. Special publication - University of Georgia, Agriculture Experiment Stations. Jan 1980. Jan 1980. (6). p. 13-15. (NAL Call No.: HD1775.G4G43).

0596

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

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

0597

Distribution, competition, and phenology of hemp dogbane (*Apocynum cannabinum*) in Nebraska (Weed pest of oats, soybeans, alfalfa, wheat, maize and sorghum).

Schultz, M.E. Burnside, D.C. Champaign, Ill., Weed Science Society of America. Weed science. Sept 1979. v. 27 (5). p. 565-570. ill. 17 ref. (NAL Call No.: 79.8 W41).

0598

Dowco 356, a new herbicide for control of annual weeds in corn and grain sorghum.

Saunders, E. Champaign : Weeds Today, Inc. Weeds today. Late Spring 1982. v. 13 (2). p. 22-23. (NAL Call No.: SB610.W4).

0599

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).

0600

Effect of application factors on postemergence phytotoxicity of fluazifop-butyl, haloxyfop-methyl, and sethoxydim (Soybeans, sorghum, Nebraska).

Buhler, D.D. Burnside, D.C. Champaign, Ill. : Weed Science Society of America. Weed science. Sept 1984. v. 32 (5). p. 574-583. Includes 26 references. (NAL Call No.: 79.8 W41).

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Effect of moisture on sorghum midge (*Diptera:Cecidomyiidae*) emergence (*Contarinia sorghicola*, Texas).

Fisher, R.W. Teetes, G.L. College Park, Md., Entomological Society of America. Environmental entomology. Aug 1982. v. 11 (4). p. 946-948. ill. 10 ref. (NAL Call No.: QL461.E532).

0602

Effect of MON-4606 or CGA-43089 rate and combination with acetanilide herbicides on grain sorghum growth in Kansas in 1981 (Herbicides).

Devlin, D.L. Moshier, L.J.; Russ, D.G. (s.l.) : Sorghum Improvement Conference of North America. Sorghum newsletter. 1982. v. 25. p. 70. (NAL Call No.: 59.8 S06).

0603

The effect of surfactant and environment on the toxicity of metriflufen to soybeans (*Glycine max*) and johnsongrass (*Sorghum halepense*).

McWhorter, C.G. Champaign, Ill., Weed Science Society of America. Weed science. Nov 1979. v. 27 (6). p. 675-679. ill. 11 ref. (NAL Call No.: 79.8 W41).

0604

Effectiveness of a new (herbicide) safener (alpha-(cyanomethoximino)-benzacetone nitrile) for protecting sorghum (*Sorghum bicolor*) from metolachlor injury.

Ellis, J.F. Peek, J.W.; Boehle, J. Jr.; Muller, G. Champaign, Ill., Weed Science Society of America. Weed science. Jan 1980. v. 28 (1). p. 1-5. ill. 12 ref. (NAL Call No.: 79.8 W41).

0605

Effects of CO₂ (carbon dioxide) enrichment on competition between a C₃ crop (Johnsongrass (*Sorghum halepense*), soybean (*Glycine max*), southern United States).

Patterson, D.T. WEESA6. Flint, E.P.; Beyers, J.L. Champaign : Weed Science Society of America. Weed science. Jan 1984. v. 32 (1). p. 101-105. Includes references. (NAL Call No.: 79.8 W41).

0606

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

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

0607

The effects of Fall application of glyphosate on corn (*Zea mays*), soybeans (*Glycine max*), and johnsongrass (*Sorghum halepense*) (Phytotoxicity).

Jeffery, L.S. English, J.R.; Connell, J. Champaign, Ill., Weed Science Society of America. Weed science. Mar 1981. v. 29 (2). p. 190-195. ill. 9 ref. (NAL Call No.: 79.8 W41).

0608

Effects of illuminance and time on accumulation of glyphosate in johnsongrass (*Sorghum halepense*).

Kells, J.J. Rieck, C.E. Champaign, Ill., Weed Science Society of America. Weed science. Mar 1979. v. 27 (2). p. 235-237. ill. 11 ref. (NAL Call No.: 79.8 W41).

0609

Effects of preemergence and postemergence herbicides on pearl millet.

Cummins, D.G. GA. Hardcastle, W.S. Athens, Ga., The Stations. Research report - University of Georgia, Experiment Stations. May 1980. May 1980. (354). 10 p. (NAL Call No.: S51.E22).

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Effects of water quality and spray volume on glyphosate phytotoxicity (*Sorghum*).

Stahlman, P.W. Phillips, W.M. Champaign, Ill., Weed Science Society of America. Weed science. Jan 1979. v. 27 (1). p. 38-41. ill. 3 ref. (NAL Call No.: 79.8 W41).

0611

Effects of wetting agent, stage of growth, and species on the selectivity of diclofop (wheat, soybeans, cucumber, sorghum).

Schreiber, M.M. Warren, G.F. Champaign, Ill., Weed Science Society of America. Weed science. Nov 1979. v. 27 (6). p. 679-683. ill. 13 ref. (NAL Call No.: 79.8 W41).

0612

Evaluation of allelopathic cucumbers (*Cucumis sativus*) as an aid to weed control (Growth suppression of proso millet, indicator).

Lockerman, R.H. Putnam, A.R. Champaign, Ill., Weed Science Society of America. Weed science. Jan 1979. v. 27 (1). p. 54-57. ill. 7 ref. (NAL Call No.: 79.8 W41).

0613

An evaluation of selected herbicide treatments for sorghum in the coastal plain.

Swann, C.W. AR-SO. Dowler, C.C. Auburn, Ala., The Society. Proceedings - Southern Weed Science Society. 1980. 1980. (33d). p. 70. ill. (NAL Call No.: 79.9 S08).

0614

Factors affecting the toxicity of glyphosate applied in the recirculating sprayer to johnsongrass (*Sorghum halepense*) and soybeans (*Glycine max*) (Herbicides).

McWhorter, C.G. AR-SO. Williford, J.R. Champaign, Ill., Weed Science Society of America. Weed science. Jan 1980. v. 28 (1). p. 59-63. ill. 14 ref. (NAL Call No.: 79.8 W41).

0615

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

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

0616

Field bindweed (*Convolvulus arvensis*) control in corn (*Zea mays*) and sorghum (*Sorghum bicolor*) with dicamba and 2,4-D ((2,4-dichlorophenoxy)acetic acid).

Schweizer, E.E. Swink, J.F. Champaign, Ill., Weed Science Society of America. Weed science. Nov 1978. v. 26 (6). p. 665-668. ill. 8 ref. (NAL Call No.: 79.8 W41).

0617

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Musselman, L.J. Sand, P.F. Champaign, Ill. : Weeds Today, Inc. Weeds today. 1983. v. 14 (4). p. 7-8. ill. (NAL Call No.: SB610.W4).
- 0619**
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- 0620**
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Frost, K.R. Jr. SWSPB. Champaign : The Society. Proceedings - Southern Weed Science Society. 1983. 1983. (36th). p. 46-50. Includes references. (NAL Call No.: 79.9 S08).
- 0621**
Herbicidal effects of metolachlor (2-chloro-N-(2-ethyl-6-methyl-phenyl)-N-(2-methoxy-1-methylethyl)acetamide) at the cellular level in sorghum.
Ebert, E. New York, Academic Press. Pesticide biochemistry and physiology. June 1980. v. 13 (3). p. 227-236. ill. 11 ref. (NAL Call No.: SB951.P49).
- 0622**
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Dale, J.E. Chandler, J.M. Champaign, Ill., Weed Science Society of America. Weed science. Sept 1979. v. 27 (5). p. 479-485. ill. 17 ref. (NAL Call No.: 79.8 W41).
- 0623**
Herbicide response of common weeds.
Anderson, L. E. Aldrich, R. J.; Fletchall, D. Hale. 1981. This publication examines herbicide performance on common weeds that are found among corn, soybeans, and grain sorghum. Document available from: Extension Publications, 211 Whitten Hall, Univ. of Missouri, Columbia, Missouri 65201. 3 p. (NAL Call No.: Not available at NAL.)(NAL Call No.: 4904).
- 0624**
Herbicides for controlling a mixed population of johnsongrass and common cocklebur in soybeans (*Sorghum halepense*, *Xanthium pennsylvanicum*, Mississippi).
Mississippi State : The Station. MAFES research highlights - Mississippi Agricultural & Forestry Experiment Station. Nov 1982. v. 45 (11). p. 1-4. ill. 4 ref. (NAL Call No.: 100 M69MI).
- 0625**
Herbicides for controlling a mixed population of johnsongrass and common cocklebur in soybeans (*Sorghum halepense*, *Xanthium pennsylvanicum*, Mississippi).
Arnold, E.L. MAEBB. Hurst, H.R. Mississippi State : The Station. Bulletin - Mississippi Agricultural & Forestry Experiment Station. Aug 1982. Aug 1982. (906). 6 p. ill. 4 ref. (NAL Call No.: S79.E3).
- 0626**
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- 0627**
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- 0628**
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Strand, D. E. Behrens, R. Document available from: University of Minnesota, Bulletin Room, 1420 Eckles Avenue, St. Paul, Minnesota 55108 1981. This publication discusses the identification and control of wild proso millet in field crops. 1 sheet : ill. (NAL Call No.: Document available from source.)(NAL Call No.: AG FS 35).

0629

Influence of acetamide herbicide applications on efficacy of the protectant CGA-43089 in grain sorghum (*Sorghum bicolor*).
Simkins, G.S. Moshier, L.J.; Russ, D.G. Champaign, Ill., Weed Science Society of America. Weed science. Nov 1980. v. 28 (6). p. 646-649. 9 ref. (NAL Call No.: 79.8 W41).

0630

Influence of planting date on the growth of johnsongrass (*Sorghum halepense*) from seed (Weed control in Cotton).
Keeley, P.E. Thullen, R.J. Champaign, Ill., Weed Science Society of America. Weed science. Sept 1979. v. 27 (5). p. 554-558. ill. 14 ref. (NAL Call No.: 79.8 W41).

0631

Influence of weed growth and tillage interval during fallow on water storage, soil nitrates, and yield (in a winter wheat-sorghum cropping sequence, in the Southern Great Plains states of Kansas, Oklahoma, New Mexico, Colorado and Texas).
Lavake, D.E. Wiese, A.F. Madison, Wis. Soil Science Society of America journal Soil Science Society of America. May/June 1979. v. 43 (3). p. 565-569. ill. 19 ref. (NAL Call No.: 56.9 S03).

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Miller, J.F. Athens, Ga., The Service. Circular - Cooperative Extension Service, University of Georgia. Dec 1980. Dec 1980. (552). 8 p. ill. (NAL Call No.: 275.29 G29C).

0634

Johnsongrass (*Sorghum halepense*) competition in soybean (*Glycine max*) (Sethoxydim, Tennessee).
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0635

Johnsongrass (*Sorghum halepense*) control in soybeans (*Glycine max*) with metriflufen).
Rogers, N.K. Talbert, R.E.; Oliver, L.R. Champaign, Ill., Weed Science Society of America. Weed science. May 1981. v. 29 (3). p. 291-296. 12 ref. (NAL Call No.: 79.8 W41).

0636

Johnsongrass (*Sorghum halepense*) control in soybeans (*Glycine max*) with metriflufen applied postemergence.
Azlin, W.R. McWhorter, C.G. Champaign, Ill., Weed Science Society of America. Weed science. Jan 1981. v. 29 (1). p. 139-143. 5 ref. (NAL Call No.: 79.8 W41).

0637

Laboratory studies on the behavior of the herbicide safener CGA-43089 (alpha-(cyanomethoximino)-benzacetone nitrile, used to prevent metachlor injury in sorghum).
Nyffeler, A. Gerber, H.R.; Hensley, J.R. Champaign, Ill., Weed Science Society of America. Weed science. Jan 1980. v. 28 (1). p. 6-10. ill. 6 ref. (NAL Call No.: 79.8 W41).

0638

Longevity of witchweed (*Striga asiatica*) seed (Effect of storage conditions on seed germination, parasitizes maize, sorghum, sugarcane, rice, North Carolina).
Bebawi, F.F. Eplee, R.E.; Harris, C.E.; Norris, R.S. Champaign, Ill. : Weed Science Society of America. Weed science. July 1984. v. 32 (4). p. 494-497. Includes 14 references. (NAL Call No.: 79.8 W41).

0639

Metolachlor (2-chloro-N-(2-ethyl-6-methylphenyl)-N-(2-methoxy-1-methylethyl) acetamide) and the metolachlor safener CGA 43089 (alpha-(cyanomethoximino)-benzacetone nitrile) in sorghum seedlings: Correlations between morphological effects and ethylene formation (Grass herbicides).
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0640

Metolachlor
(2-chloro-N-(2-ethyl-6-methylphenyl)-N-(2-methoxy-1-methylethyl)acetamide) inhibition of gibberellin precursor biosynthesis (Grass herbicide, sorghum).
Wilkinson, R.E. New York, Academic Press. Pesticide biochemistry and physiology. Dec 1981. v. 16 (3). p. 199-205. ill. 15 ref. (NAL Call No.: SB951.P49).

0641

Mode of action of a herbicide. Johnsongrass and methanearsonic acid (Sorghum halepense, reduction of methanearsonate to arsenosomethane, inhibition of malic enzymes).
Knowles, F.C.PLPHA. Benson, A.A. Rockville : American Society of Plant Physiologists. Plant physiology. Feb 1983. v. 71 (2). p. 235-240. ill. 30 ref. (NAL Call No.: 450 P692).

0642

Multiple practices for control of johnsongrass in cotton (Gossypium hirsutum (L.) Pers.) (Sorghum halepense, Mississippi).
Arnold, B.L. Hurst, H.R. Mississippi State : The Station. MAFES research highlights - Mississippi Agricultural & Forestry Experiment Station. Nov 1982. v. 45 (11). p. 5-8. ill. 6 ref. (NAL Call No.: 100 M69MI).

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Atkins, R.L.SWSPB. Maxcy, F.B.; Gonzalez, F.E.; Link, M.L. Champaign : The Society. Proceedings - Southern Weed Science Society. 1983. 1983. (36th). p. 300-309. Includes references. (NAL Call No.: 79.9 S08).

0644

Noncompetitive effects of Johnsongrass (Sorghum halepense) on soybeans (Glycine max) (Weed, residues).
Lolas, P.C. Coble, H.D. Champaign : Weed Science Society of America. Weed science. Nov 1982. v. 30 (6). p. 589-593. ill. 25 ref. (NAL Call No.: 79.8 W41).

0645

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Subbarayudu, V.C. Reddy, B.M.M.; Jagdish, C.A. (s.l.) : Sorghum Improvement Conference of North America. Sorghum newsletter. 1982. v. 25. p. 47-49. (NAL Call No.: 59.8 S06).

0646

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Alex, J.F. McLaren, R.D. Ottawa, Agricultural Institute of Canada. Canadian journal of plant science. Oct 1979. v. 59 (4). p. 1173-1176. ill. 7 ref. (NAL Call No.: 450 C16).

0647

Occurrence in Johnsongrass (Sorghum halepense) of rickettsia-like bacteria related to the phony peach disease organism (in Georgia).
Weaver, D.J. AR-SO. Raju, B.C.; Wells, J.M.; Lowe, S.K. St. Paul, Minn., American Phytopathological Society. Plant disease. May 1980. v. 64 (5). p. 485-487. ill. 14 ref. (NAL Call No.: 1.9 P69P).

0648

Operational variables and glyphosate performance through ropewick applicators (Johnsongrass, Sorghum halepense).
Wu, C.H. Derting, C.W. Auburn, Ala., The Society. Proceedings - Southern Weed Science Society. 1981. 1981. (34th). p. 301-304. Includes 6 ref. (NAL Call No.: 79.9 S08).

0649

Oximes as seed safeners for grain sorghum (Sorghum bicolor) to herbicides (Antidotes, metolachlor toxicity).
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0650

Ozone-herbicide interactions on sorghum (Sorghum bicolor) and velvetleaf (Abutilon theophrasti) seedlings (Air pollutant, synergism, antagonism).
Hatzios, K.WEESA. Yang, Y.S. Champaign : Weed Science Society of America. Weed science. Nov 1983. v. 31 (6). p. 857-861. Includes references. (NAL Call No.: 79.8 W41).

0651

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Wiese, A.F. Boca Raton, Fla., CRC Press. CRC handbook of pest management in agriculture. 1981. v. 3. p. 575-586. 63 ref. (NAL Call No.: SB950.C7).

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Postemergence johnsongrass and selected annual grasses control in conventional soybeans (Sorghum halepense).
Hayes, R.M. Sims, B.D.; Jeffery, L.S. Knoxville, Tenn. : The Station. Tennessee farm and home science - Tennessee Agricultural Experiment Station. Oct/Dec 1982. Oct/Dec 1982. (124). p. 14-16. Includes references. (NAL Call No.: 100 T25F).

0655

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Banks, P.A. Merkle, M.G. Champaign, Ill., Weed Science Society of America. Weed science. May 1979. v. 27 (3). p. 309-312. ill. 7 ref. (NAL Call No.: 79.8 W41).

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Peek, J.W. Dill, T.R.; Turner, W.E. Washington, D.C., The Conference. Proceedings of the ... annual corn and sorghum industry research conference - American Seed Trade Association, Corn and Sorghum Division, Corn and Sorghum Research Conference. 1982. 1982. (36th). p. 31-47. 44 ref. (NAL Call No.: 59.9 AM32).

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1980 Kansas field crop insect control recommendations.

Brooks, Leroy. Gates, Dell E. 1980. First this publication discusses some safety tips for using insecticides, then it discusses the control of insects attacking alfalfa, corn, sorghum, wheat, and soybeans. It also includes a list of the Poison Control Information Centers in Kansas. Document available from: Distribution Center, Umberger Hall, Kansas State University, Manhattan, KS 66506. 27 p. (NAL Call No.: C 431).

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1981 Kansas field crops insect control recommendations.

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1982 weed control guide for field crops.

Barrett, Michael. Meggitt, William F. 1981. This publication has information on how to control weeds in corn, soybeans, small grains, field beans, sunflowers, potatoes, mint, sugarbeets, forages, & sorghum crops. Document available from: Michigan State University, Bulletin Office, P.O. Box 231, East Lansing, MI 48824. 35 p. (NAL Call No.: Not available at NAL.). (NAL Call No.: Ext. Bulletin E-434).

SOIL BIOLOGY

0721

Mineralization of parathion in the rhizosphere of rice and pearl millet (Metabolism of pesticides in the soil environment).

Reddy, B.R.JAFCA. Sethunathan, N. Washington : American Chemical Society. Journal of agricultural and food chemistry. Nov/Dec 1983. v. 31 (6). p. 1379-1381. Includes references. (NAL Call No.: 381 J8223).

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Response of crops to sorghum residues (Plant associations, sweet corn, snap beans, soil environment).

Ruiz-Sifre, G.V.JDSHB. Ries, S.K. Alexandria : The Society. Journal of the American Society for Horticultural Science. Mar 1983. v. 108 (2). p. 262-266. ill. Includes references. (NAL Call No.: 81 S012).

SOIL CHEMISTRY AND PHYSICS

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Annual progress report - 1980 / Iowa State University.

Document available from: Iowa State University, Publications Distribution, Printing & Publications Bldg., Ames, Iowa 50011 1980. This publication is a progress report and should not be considered conclusive. The topics covered are soil moisture report, K fertilization for corn and soybeans, sunflower populations, conservation tillage, crop disease trap plots, corn herbicides, spring wheat variety demonstration, musk thistle control, grain sorghum trial, and small grain selection. 17 p. : ill. (NAL Call No.: Document available from source.)(NAL Call No.: ORC 80-10).

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Some characteristics of plinthite inhibiting plant growth (Aluminum toxicity, grain sorghum).

Perkins, H.F. Kaihulla, E. Madison, Wis., American Society of Agronomy. Agronomy journal. July/Aug 1981. v. 73 (4). p. 671-673. 19 ref. (NAL Call No.: 4 AM34P).

SOIL FERTILITY - FERTILIZERS

0725

Annual progress report - 1980 / Iowa State University.

Document available from: Iowa State University, Publications Distribution, Printing & Publications Bldg., Ames, Iowa 50011 1980. This publication is a progress report and should not be considered conclusive. The topics covered are soil moisture report, K fertilization for corn and soybeans, sunflower populations, conservation tillage, crop disease trap plots, corn herbicides, spring wheat variety demonstration, musk thistle control, grain sorghum trial, and small grain selection. 17 p. : ill. (NAL Call No.: Document available from source.).(NAL Call No.: ORC 80-10).

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Wahab, A. PR. Lugo-Lopez, M.A. Rio Piedras, The Station. The Journal of agriculture of the University of Puerto Rico. Puerto Rico. Agricultural Experiment Station. Jan 1980. v. 64 (1). p. 1-8. ill. (NAL Call No.: B P832J).

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Cadmium availability to sudangrass grown on soils amended with sewage sludge and fly ash (Sorghum vulgare).

Adriano, D.C. Page, A.L.; Elseewi, A.A.; Chang, A.C. Madison, Wis., American Society of Agronomy. Journal of environmental quality. Apr/June 1982. v. 11 (2). p. 197-203. Includes 17 ref. (NAL Call No.: QH540.J6).

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Iron uptake by plants and deficiency correction from an irradiated Fe fertilizer source (Grain sorghum).

Anderson, W.B. Khattari, S.K. 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. 319-328. ill. Includes references. (NAL Call No.: QK867.J67).

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Touchton, J.T. Martin, P.B. Madison, Wis., American Society of Agronomy. Agronomy journal. Mar/Apr 1981. v. 73 (2). p. 298-300. ill. 10 ref. (NAL Call No.: 4 AM34P).

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Sewage sludge effects on soil: heavy metal acculuation and movement (Sorghum, phytotoxicity).

Taylor, R.W. Duseja, D.R.; Thangudu, P.R. New York, Marcel Dekker. Journal of environmental science and health. Part A: Environmental science and engineering. 1982. v. 17 (3). p. 427-441. 18 ref. (NAL Call No.: TD172.J6).

SOIL CULTIVATION

0731

Atrazine dissipation in conventional-till and no-till sorghum (Pesticide degradation, soil cultivation, Nebraska).

Ghadiri, H. Shea, P.J.; Wicks, G.A.; Haderlie, L.C. Madison, Wis. : American Society of Agronomy. Journal of environmental quality. Oct/Dec 1984. v. 13 (4). p. 549-552. ill. Includes 28 references. (NAL Call No.: OH540.J6).

0732

Forage production and weed control in a double-cropping program (Avena sativa, Zea mays, Glycine max, Sorghum bicolor, Wisconsin).

Okoli, P.S.O. Drolsom, P.N.; Scholl, J.M. Madison, Wis. : American Society of Agronomy. Agronomy journal. May/June 1984. v. 76 (3). p. 363-366. Includes references. (NAL Call No.: 4 AM34P).

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TAEMA. Wiese, A.F. Lavake, D.E. College Station, Tex. : The Station. Miscellaneous publication MP - Texas Agricultural Experiment Station. May 1984. (1547). 17 p. Includes references. (NAL Call No.: DNAL 100 T31M).

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Minimum tillage, chemical fallow, wheat, grain sorghum rotation.

Bogle, T. Roy. Document available from: Kansas State University, Distribution Center, Umberger Hall, Manhattan, Kansas 66506 1979. This publication assesses weed control and moisture conservation with minimum tillage and chemical fallow in wheat and grain sorghum rotation. 1 sheet. (NAL Call No.: Document available from source.). (NAL Call No.: MF-473).

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0784

Population ecology of *Schizaphis graminum* (Rondani) (Homoptera: Aphididae) on Grain Sorghum in central Missouri (Includes regression models, natural control).
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Field key to aphids on small grains and sorghum.

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