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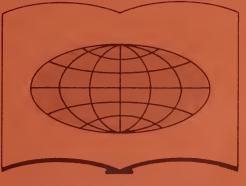
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PESTICIDES DOCUMENTATION BULLETIN

A BI-WEEKLY PUBLICATION OF

U. S. DEPARTMENT OF AGRICULTURE

Volume 4

May 24, 1968

Number 11

OBJECTIVES AND SCOPE

The Pesticides Documentation Bulletin is compiled by the Pesticides Information Center, the first of its kind. to be established within a national library, It is a bi-weekly index to the literature on pests and their control and the impact on the economy and man's total environment. The index includes literature on diseases, insects, nematodes, parasites, weeds, and other pests affecting plants, animals, man, our natural resources, and other values in man's environment. Literature on biological, chemical, cultural ecological, mechanical, and integrated methods of pest control will be included. Special emphasis is given to the literature on the toxicological, physiological and epidemiological aspects of pests and their control by chemical and nonchemical methods.

For broader coverage of literature on agriculture and related subjects, please consult the <u>Bibliography of Agriculture</u>, a monthly publication of the National Agricultural Library.

FORMAT

The <u>Bulletin</u> is a categorized bibliography, with citations arranged alphabetically by author under the following major subjects:

- 10 Entomology
- 20 Crop Protection
- 30 Livestock Protection
- 40 Commodity Protection
- 50 Environmental Contamination
- 55 Residues
- 60 Toxicology
- 65 Plant Physiology & Biochemistry
- 70 Chemistry
- 80 Engineering
- 90 Industry

<u>Citations</u>: Each citation consists of an accession number assigned serially with the last two digits representing the Bulletin's issue year, i.e. 3286-67. The citation number (minus the year) is used in all indices. Following the accession number is the full title of the article; all personal authors; an abbreviated journal title; volume, issue and inclusive page numbers; date of publication; language abbreviation, if other than English; and the National Agricultural Library's call number. Subject descriptors, patent or grant numbers, bibliographer's notes, and abstracts or extracts may follow each citation when appropriate.

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ACKNOWLEDGMENT

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ANNOUNCEMENT

These issues of the <u>Pesticides Documentation Bulletin</u> introduce a new computer generated current awareness service. Through the <u>Pesticides</u> Information Center's Update, Publication and Search (PICUPS) system, a categorized bibliographic citation file, accompanied by subject, author, organization and biographical indices will be issued bi-weekly.

All elements of the citations maintained in this mechanized file system are searchable by computer. In addition to the printed subject descriptors appearing in the Bulletin, other subject descriptors are incorporated in the tape file system as machine searchable but non-printable items. In the early issues some of these subject terms appear in the <u>Bulletin</u> as duplications. These duplications will be eliminated in later programs.

Since retrospective information was not previously published in searchable form, the next several issues of the <u>Bulletin</u> will contain selected coverage of pest control literature issued between 1960 and 1966. Additional retrospective material will be incorporated in future bulletins through the special bibliographies prepared by the Center. Current pest control literature will receive comprehensive coverage. Future expansion will include selected abstracts when such abstracts appear in the source document.

Recipients of this introductory issue are invited to send their comments and suggestions for its improvement to the U.S. Department of Agriculture, National Agricultural Library, Pesticides Information Center, 4112-Auditors Building, Washington, D. C. 20250. These comments together with computer produced statistical analyses will provide the bases for future changes.

Blanche L. Oliveri

Blanche L. Oliveri Acting Director National Agricultural Library

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Abstract 12359-68 2359-68 DOUGLAS-FIR TUSSOCK MOTH (HEMEROCAMPA PSEUDOTSDGATA) EGG-MASS DISTRIBUTION ON WHITE FIR IN NORTHEASTERN CALIPORNIA. R F Luck D L Dablsten Can Entonol 99(11):1193-12D3 REF Nov 1967 421 C16 Abies concolor, Forest insects, Hemerocampa pseudotsugata, Insect eggs, Sampling (statistics). Abstract 1236D-68 EXPERIMENTAL INDUCTION AND ELIMINATION OF ADDLT DIAPAUSE AND AUTOMNAL COLORATION IN CHRYSOPA CAENEA (NEUROPTERA). E G MacLeod J Insect Physiol 13(9):1343-1349 REF Dec 1967 421 J825 Chrysopa Carnea, Color, Diapause, Photoperiodism, Reproduction, Temperature. Abstract 12361-68 A SIMPLE METHOD FOR MASS REARING OF TRE SEED-CORN MAGGOT, HYLEMYA PLATDRA MEIGEN (DIPTERA, ANTROMYIIDAE). (JA) Y Matsumoto S Sugiyama Nogaku Kenkyu (Rep Ohara Inst Agr Biol) 51(4):221- 225 Ref Mar 1967 22.5 N684 Corn, Hylemya platura, Insect rearing. 12362-68 IMMATURE STAGES OF SCME LEPIDOPTERA OF DURANGO, MEXICO. W C McGuffin Can Entomol 99(11):1215-1229 REF Nov 1967 421 C16 Larvae, Lepidoptera, Metamorphosis, Metamorphosis, Mexico. Abstract 12363-68 2363-68 THE FORMATION OF LIPID-BOUND CARNITINE DERIVATIVES IN THE PAT BODY OF PHORMIA REGINA. C Mezei R W Newburgh J Insect Physiol 13(1D):1489-1499 Oct 1967 421 J825 Carnitie, Pat body, Insect metabolism, Lipids, Phormia regina. Abstract 12364-68 THE DERIVATION OF THE MOTOR COMMAND TO THE SPIRACLES OF THE LOCUST. L Miller J Exp Biol 46(2):349-371 REF Apr 1967 442.8 B77 Acrididae, Cicadidae, Nervous system. 12365-68 THE BIOLOGY AND ECOLOGY OF THE PINE ROOT COLLAR WEEVIL, HYLOBIDS RADICIS 8DCHANAN, IN WISCONSIN. Millers Diss Abstr Sect B 28(3):753B Sep 1967 25055.D49D53 Hylobius radicis, Pinus. 12366-68 ATTRACTIVENESS TO NITIDULIDAE (COLEOPTERA) OF NATDRAL ATTRACTIVENESS TO NITIDULIDAE (COLEOPTERA) OF NATDRAL ATTRAHENTS OF TREES AND FUNGDS ORIGIN SDPPLEMENTED WITH VINEGAR AND WATER IN AN APPALACHIAN HARDWOOD POREST. W W Neel B D Glick L L May R P True J Econ Entomol 60 (4) D11D4-1108 15 Aug 1967 421 J822 Acer rubrum, Attractants, Fungi, Quercus rubra, Tree injuries, Trees, Vinegar. Abstract 12367-68 THE FLIGHT ACTIVITY OF SOME BRITISH HEMEROBIIDAE AND CHRYSOPIDAE, AS INDICATED BY SUCTION-TRAP CATCHES. T R New Roy Entomol Soc London Proc Ser A Gen Entomol 42(7/9):93-1DD REF
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Manduca sexta. Abstract 12378-68 SIOLOGY AND DISTRIBUTION OF TETRASTICHOS INCERTUS, A PARA-SITE OF THE ALPALFA WEEVIL. F A Streams R W Fuester J Econ Entomol 60 (6):1574-1579 REP Dec 1967 421 J822 Alfalfa, Hypera postica, Insect morphology, Parasitism, Tetrastichus incertus. Abstract 12379-68 FLIGHT IN DROSOPHILA. II. VARIATIONS IN STROKE PARAMETERS AND WING CONTOUR. Vogel J Exp Biol 46(2):383-391 REP Apr 1967 442.8 B77 Drosophila, Insect flight. 12380-68 BIOLOGICAL OSSERVATIONS ON COLEOMEGILLA MACOLATA AND ITS ROLE AS A PREDATOR OF THE FALL WEBWORM. L O Warren M Tadic J Econ Entomol 60(6):1492-1496 REF Dec 1967 421 J822 Seneficial insects, Coleomegilla maculata, Hyphantria cunea, Insect biology, Insect eggs, Insect rearing, Larvae, Predaceous insects. Abstract 12381-68 STERILE-MALE RELEASES CONTROL POPULATIONS OF DROSOPHILA MELANOGASTER IN CAGE TESTS. H E Wave T J Henneberry J Econ Entomol 60(6):1758-1759 Dec 1967 421 J822 Apholate, Chemosterilants, Drosophila melanogaster, Gamma rays, Insect cages, Insect control, Sterilization. 12382-68 LABORATORY EVALUATION OF TWO ALEOCHARINE PARASITES OF THE PACE FLY. C W Wingo G D Thomas N M Nelms J Econ Entomol 60 (6) : 1514-1517 Dec 1967 421 J822 Aleochara bimaculata, Aleochara tristis, Musca autumnalis, Parasitism, Predaceous insects. Abstract 12383-68 THE BOMIDITY RESPONSES OF TROGODERMA GRANARIUM EVERTS The Bonibili RESPONSES OF TROGDERS (COLEOPTERA, DERMESTIDAE). U Yinon A Shulov Bull Entomol Res 57(3):451-458 REP Nov 1967 421 B87 Humidity, Trogoderma granarium.

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R M Sawicki M G Pranco R Milani
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Aedes aegypti, Attractants, Ethyl acetate, Insect hehavior, Insect eggs, Insect traps. 12396 - 68ECOLOGICAL PACTORS INFLUENCING THE EFFICACY OF MOSQUITO CON-TROL IN IRRIGATED PASTORES IN CALIFOBNIA. (APSTRACT). R C Hushands L L Lewallen Calif Mosquito Contr Ass Proc Pap 35:109-11D 1967 428 C763 Aedes nigromachlis, Ecology, Insect control, Insect ecology, Irrigation, Pastures. 12397-68 ACTIVITY AND SEQUENCE OF MOSODITO PREDATORS IN WOODLAND POOLS IN ONTARIO. H G James Calif Mosquito Contr Ass Proc Pap 35:95 1967 428 C763 Canada, Dytiscidae, Hydrophilidae, Insect traps, Ponds, Predaceous insects. 12398-68 PROBLEMS OF INTERACTION AND DENSITY IN MOSQUITOES IN RELA-TION TO AEDES AEGYFTI ERADICATION. G & R McClelland Calif Mosguito Contr Ass Proc Pap 35:93-95 REP 1967 428 C763 Aedes aegypti, Breeding, Insect control. 12399-68 MOSQUITO CONTROL AGENTS DERIVED FBOM PETROLEM HYDBOCARBONS: LABORATORY EPPECTIVENESS. (ABSTRACT). D W Micks J Jennings A Rehmet G Chambers Calif Mosquito Contr Ass Proc Pap 35:1D8 1967 428 C763 Aedes aegypti, Culex fatigans, Rydrocarbons, Insect control, Insecticides, Petroleum. Abstract: 110 hydrocarbons from petroleum were evaluated against the eggs, larvae and pupae of Culex fatigans and Aedes eggs, la aegypti. 124DD - 68CONTROL OF MOSQUITO LARVAE WITH DURSBAN INSECTICIDE APPLIED AS A THEBHAL POG. (ABSTRACT). W O Miller J C MCNeill D W Micks P D Ludwig Calif Mosquito Contr Ass Proc Pap 35:1DB-1D9 1967 428 C763 Aerosols, Chemical control (insects), Culicidae, Dursban, Insecticide application. Abstract: as a larvicide Durshan, at the lowest dosage, was effective. 12401-68 2401-68 DENGUE PEVER IN A PUERTO RICAN COMMUNITY. J M Neff L Morris R Gonzalez-Alcover P R Coleman S B Lyss Amer J Epidemiol 86(1):162-184, MAP REP Jul 1967 449.8 AM3 Aedes aegypti, Dengue (man), Insect vectors, Pnerto Rico. 12402-68 AU2-06 A REPORT ON THE DISTRIBUTION AND BIOLOGY OF TREE HOLE MOS-QUITOES IN THE WESTERN UNITED STATES. L T Nielsen J R Arnell J H Linam Calif Mosquito Contr Ass Proc Pap 35:72-76 REP 1967 428 C763 Aedes, Anopheles, Porest insects, Insect biology, Insect dissemination, Populus, Salix. 124D3-68 CURRENT STATUS OF THIRD UNITED STATES ABMY AEDES AEGYPTI ERADICATION PROGRAM. W G Pearson B A Barrison Calif Mosguito Contr Ass Proc Pap 35:89-91 1967 428 C763 Aedes aegypti, Armed forces, Breeding, Surveys. 12404-68 WORLD-WIDE MOSQUITO CONTROL, A GBOWING PUBLIC HEALTR NEED. R F Peters Calif Mosquito Contr Ass Proc Pap 35:12-15 1967 428 C763 Aedes aegypti, Aedes nigromaculis, Anopheles, Culex pipiens, Insect control, Malaria. 124D5-6B COMPARATIVE OVIPOSITION SELECTION PREPERENCE BY AEDES DORSALIS AND ADDES NIGBOMACDLIS TO TRREE INORGANIC SALTS IN THE LABORATORY. (ABSTRACT).

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J J Petersen D M Rees Calif Mosquito Contr Ass Proc Pap 35:77-78 1967 428 C763 Aedes dorsalis, Aedes nigromaculis, Calcium chloride, Insect behavior, Ovipositors, Sodium chloride. 12406-68 MOSQUITO CONTROL AND THE CALIFORNIA WATER PLAN. C V Perter Calif Mosguito Contr Ass Proc Pap 35:9-11 1967 428 C763 Culicidae, Insect control, Water resources. 12412-68 12407-68 EFFECTS OF LOW-LEVEL ULTRA-VIOLET IRRADIATION ON REPRODOC-TION OF AEOES AEGYPTI (L.) (PRELIMINARY REPORT) (ABSTRACT). D F Riordan Calif Mosguito Contr Ass Proc Pap 35:92 1967 428 C763 Aedes aegypti, Insect physiology, Reproduction, Oltraviolet rays. 12408-68 FIELD OEVELOPMENTAL STODIES ON CULEX PIPIENS QUINQUEFASCIA-TUS REAREO IN NATURAL, DAIRY SAEN WASH AND SEWAGE EPPLOENT WATERS. (ABSTRACT). R D Sjogren K D Biever Calif Mosquito Contr Ass Proc Pap 35:70 1967 428 C763 Culex pipiens, Oairy barns, Groundwater, Insect morphology, Insect mortality, Insect rearing, Sewage. Abstract: 12409-68 LABORATORY AND FIELD STUDIES ON MOSQUITO CONTROL IN WASTE DISPOSAL LAGOONS IN LOUISIANA. (ABSTRACT). C D Steelman J M Gassie B R Craven Calif Mosguito Contr Ass Proc Pap 35:108 1967 428 C763 Bacteria, Culex pipiens, Onrsban, Insect control, Insecticide residues, Naled, Toxicity, Waste disposal. Abstract: dursban and naled caused the highest levels of mortality to the bacterial population while Abate and fentbion cansed the lowest. 12410-68 SENEFICIAL EFFECTS OF RESEARCH TO MOSQUITO CONTROL OPERA-TIONS. K H Wagstaff J E Graham Calif Mosquito Contr Ass Proc Pap 35:98-99 1967 428 6763 Aedes nigromaculis, Insect control, Insecticides. 12411-68 INSECTICIOE TOLERANCE IN COLEX TARSALIS LARVAE IN CALIFOR-NIA. (ABSTRACT). 0 J Womeldorf P A Gillies K E White Calif Mosquito Contr Ass Proc Pap 35:110 1967 428 6763

Cnlex tarsalis, Insecticide resistant insects, Malatbion.

20 CROP PROTECTION

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"Gulfrose" rice, disease spread fastest from the largest focus and covered a 1.7-acrc field within 2 weeks, whereas, from the smallest focns, it took 5 weeks for disease to spread and appear everywhere in a 1.1 acre field. the spore load put into the air above the diseased crop was measured by nse of 9 rotobar samplers in each field. spore load and disease increased together, and a regression function was computed. from calculations based on this function it is likely that from 40 to several hundred lesions per acre will occur in a rice field before the chances become very good of detecting a Piricnlaria spore on a rotobar sampler.

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SOME OREDOSPORE CHARACTERISTICS OF IMPORTANCE IN EXPERI-MENTAL EPIDEMIOLOGY. K R Stomfield

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2D 12419-6B Apr 1967 1.9 P69F Spidemiology, Grain, Humidity, Puccinia, Spore germination, Stem rust (grain), Temperature. Abstract: Abstract: the experimental initiation of stem rust epidemics with uredospores of Puccinia graminis var. tritici is a valuable technique for the epidemiologist. successful utilization of the technique requires that sufficient guantities of uredospores of the desired race be available for timely application and that the infectivity of these spores be properly assessed prior to their employment. 12419-6B EFFECT OF PLANT SIZE ON RESISTANCE TO SNOWMOLD OF WINTER WHEAT. G # Bruchl Plant Dis Rep 51(10):B15-B19, REF Oct 1967 1.9 P69P Crop varieties, Fungus diseases (plants), Fusarium nivale, Growth factors, Flant disease resistance, Snow mold (wheat), Growth factors, Plant disease resistance, show using the set wheat. Plant size influenced the resistance of four winter wheats to Typhula idaboensis and Fusarium nivale, the tow most serious snowmold pathogens of wheat in Wasbington CI 9542, CI 14106, Moro, and Nugaines were seeded at weekly inter-vals in fall so that six different stages of plant development resulted, ranging from those in the 2-leaf stage to those with about eight tillers. the larger and older plants of all varieties survived infection and recovered better than smaller plants in controlled environment trials. than smaller plants in controlled environment trials. resistance to snowmolds in winter wheat appears to be in-fluenced by at least three mechanisms: inherent physiologic resistance to T idaboensis and P nivale, size of the plant prior to infection, and ability to conserve food re-serves under long periods in the dark near freezing. 1242D-68 INCIDENCE OF HALO BLIGHT IN IDAHO. C L Butcher L L Door of the transformed by the second seco C L Butcher L L Dean L Laferriere Plant Dis Rep 51(4)D310 Apr 1967 1.9 969P Bacterial diseases (plants), Beans, Crop losses, Halo blight (beans). 12421-6B FIELD EXPERIMENTS ON SDGAR-BEET DOWNY MILDEW (PERONOSPORA FARINOSA) . FARLNOSA). # J Byford Ann Appl Biol 6D(1):97-107, REF. Aug 1967 442.B AN72 Chemical control (plant diseases), Downy mildew (sugar beets), Peroncspora farinosa, Sugar beets. 12422-68 PDNGICIDAL CONTROL OF FABRAEA LEAPSPOT OF PEAR. * A Chandler Flant Dis Rep 51(4)0257-261 Apr 1967 1.9 P69P Cheaical control (plant diseases), Crop varieties, Fabraea maculata, Fungicides, Fungus diseases (plants), Leaf blight (pears), Leaf spot (pears), Pears, Plant disease resistance. In field spraying trials of fungicides applied to several pear varieties in 1963 and 1964, three or four applications of zineb, dodine, or N=((1,1,2,2-tetracbloreotb))-sul-fenyl)-cis-4-cyclohexene-1,2-dicarboximide (Difolatan. controlled Fabraea maculata leafspot effectively on all but the highly susceptible Dahney variety. cycloheximide at 2 ppm was partially effective but was injurious to two warieties. a copper carbamate fungicide was effective on only two varieties. in another test on young "fold Home" pear trees, Difolatan provided excellant control of the leafspot for 3 months following the last application. tetracbloroisophthalonitrile (Daconil 2787), cyclohexiside, PDNGICIDAL CONTROL OF FABRAEA LEAPSPOT OF PEAR. leafspot for 3 months following the last application. tetracbloroisophthalonitrile (Daconil 2787), cyclohexiside, copper carbamate, dodine, zineb, Bordeaux mixture, and captan provided significant control of leafspot for 3 months on the Old Home variety. trials of schedule variations with Difolatan alone in 1965 and 1966 confirmed that four applications of a fungicide with good residual action pro-vided satisfactory control of F. maculata on both foliage and fruit of most of the varieties tested. 12423-6B

2423-66 GERMINATION OF SCLEROTIA OF SCLEROTIUM CEPIVORDM BERK UNDER ASEPTIC CONDITIONS. J & Coley-Smith J E King D J Dickinson r W Holt Ann Appl Biol 60(1):109-115 Aug 1967 442.6 AN72 Sclerotium consumants food corrigation Sclerotium cepivorum, Seed germination.

A TRANSDISSION APPLES. D L Coyier P W Cbeney C L Parisb Plant Dis Rep 51(4)0281-282 Apr 1967 1.9 P69P Plat apple (apples), Pla Apples, Plat apple (apples), Plant diseases. 12425-6B PIELD EXPERIMENTS WITH OIL SPRAYS TO PPEVENT YELLOW MOSAIC VIRUS IN IRISES. M Deutsch G Loebenstein Plant Dis Rep 51 (4)0318-319 Apr 1967 1.9 P69P Iris, Mineral oil, Oils, Phosphamidon, Spraying, Virus diseases (plants). 12426-68 ANTIPONGAL PHENOLIC ACIDS IN APPLE FRDITS AFTER INFECTION WITH SCLEROTINIA FRUCTIGENA. C H Pawcett D M Spencer Ann Appl Biol 60 (1):87-96, REP. Aug 1967 442.8 AN72 Apples, Brown rot (apples), Pungicides, Phenols, Plant disease resistance, Sclerotinia fructigena 12427-68 427-68 PDSARIDM SCAB OF SORGHUM IN NIGERIA. M C Putrell O J Webster Plant Dis Rep 51(3):174-177 REP Mar 1967 1.9 P69P Pusarium moniliforme, Nigeria, Scab (sorghum), Sorgbum, Thiram. Abbadu Bello University, Institute for Agricultural Research, cooperating. Pusarium moniliforme was found to be associated with seed-ling blight, stalk rot, head blight and scabbed seed of sorghum grown in experimental plots during the wet season at Samaru, Nigeria. grain of 2266 lines were examined for the presence of Pusarium spp ninety percent of the Pusarium isolates were F. moniliforme and 10 percent were F. rosenm f. cerealis. forty of the lines bad 100 percent Pusarium infection and zero germination, and seed of all of these lines showed typical scabbed symptoms. individual scabbed kernels were found in nearly all lines studied. only 60 of the 2266 lines were free of Fusarium. there was increased incidence of Pusarium on the seed when the heads were covered at flowering with Kraft paper bags. seed grown under irrigation and harvested during the dry season had a much lover incidence of scab than seed grown and barvested Abmadu Bello University, Institute for Agricultural much lower incidence of scab than seed grown and barvested in the wet season, seed produced during the dry season and treated with a seed dressing containing thiram had a low incidence of Pusarium when germinated. 1242B - 68SUSCEPTIBILITY OF COMMON AND DDRDM SPRING WHEATS TO BARLEY YELLOW DWARF VIRDS. C C Gill Can J Flant Sci 47(5):571-576, FEF. Sep 1967 450 C16 Crop losses, Plant disease resistance, Wbeat, Yellow dwarf (barley). Abstract

A TRANSMISSIBLE RED-RING DISEASE ON THE PRUIT OF DELICIODS

12429-6B

METHOD OF CONTROLLING SOIL FDNGI WITH BIS (CHLOROMETHYL) DISDLFIDE. PATENT 3,36D,43D. SL Giolito T B Williamson
DS Patent Office Offic Gaz 845(4):1474
26 Dec 1967 156.65 OF2
Bis(chlorometbyl)disulfide, Fungicides, Patents, Soil fungi. 1243D-68 PUNGICIDAL CONTROL OF RED THREAD DISEASE OF TURFGRASS IN WESTERN WASHINGTON. C J Gould V L Miller R L Goss Plant Dis Rep 51(3):215-219 Mar 1967 1.9 P69F Chemical control (plant diseases), Festuca, Pungicides, Turf.

Abstract: Abstract: several different types of fungicides effectively reduced intection of fescue turf by Corticium fuciforme. cadmium-containing fungicides provided the longest residual control. one application gave significant reduction of the pathogen but two or more applications were necessary for prolonged control.

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20 12443-68

12431-68 RHIZOPUS ROT OF CHICORY IN FUNJAB, INDIA. 9 K Grover S S Sirohi Plant Dis Rep 51(3):189-191 Mar 1967 1.9 F69P Mar 1967 1.9 F69P Chicory, Fhizopus stolonifer, Rot (chicory). Rhizopus rot of chicory (Cichorium intybus), a hitherte undescribed disease caused by Rhizopus stolonifer (Bhr ex fr) Lind, was found to be serions under field condi-tions. the disease-affected fleshy roots rot quickly. variety French is severely affected while variety Jamnagar, which is smooth skinned and hardy, has been found to be free from disease in the field. the latter variety, however could be infected under laboratory conditions however, could be infected under laboratory conditions. injury and young inoculum seem to be predisposing factors for the development of the disease. 12432-68 INDEX TD GENERA DF PATHOGENS LISTED IN THE "INDEX DP PLANT DISEASES IN THE UNITED STATES". 2. R T Hanlin J H Chalkley Plant Dis Rep 51(4)0323-328 Apr 1967 1.9 P69P Indexes, Microorganisms, Plant diseases, United States. 12433-68 DIMETHYL SULFCXIDE INHIBITION AND CONTROL DF PLANT VIRUS DISEASES. FATENT 3,334,D12. R J Herschler Us Patent Office Offic Gaz 841(1):237 D1 Aug 1967 156.65 DF2 Chemical control (plant diseases), Dimethyl sulfoxide, Patents, Virucides, Virus diseases (plants). 12434-68 A NEW VIRULENT FORM OF PHAEOISARIOPSIS GRISEOLA CAUSING CIRCULAR LEAP SFOT OF FRENCH BEANS. Hocking Plant Dis Rep 51(4)D276-278 Apr 1967 1.9 P69P Beans, Leaf spot (beans). 12435-68 DISTRIBUTION AND PREVALENCE OF VIRULENCE FOR VICTORIA OATS IN USTILAGD AVENAE. S Holton Plant Dis Rep 51(10):846-849 Dct 1967 1.9 P69P Crop varieties, Fungus diseases (plants), Loose smut (oats), Oats, Plant disease resistance, Ustilago avenae. Washington, Oregon, and Idaho States Departments of Ag-richture and Agricultural Experiment Stations, cooperating. Although national in its distribution, Victoria virulence in Ustilago avenae is most prevalent in those regions and localities populated by oat varieties endowed with Victoria smut resistance. 12436-68 RACE POPULATIDN DYNAMICS IN USTILAGO AVENAE AS RELATED TO THE PERSISTENCE OF LOOSE SMUT IN OATS. C S Holton C S Holton Plant Dis Rep 51(10):844-846 Oct 1967 1.9 F69P Crop varieties, Fungus diseases (plants), Loose smut (oats), Oats, Plant disease resistance, Ustilago avenae. Washington Agricultural Experiment Station, Pullman, cooperating operating. The selection pressure inherent in the interplay between an oat variety population with differential smut resistant qualities and a pathogenic race population of Ustilago avenae composed of multigenic virulence components isody-namic in its potential for perpetuating the loose smut problem as a factor to consider in the further development of improved varieties. KEY PDR DETERMINATION OF THE MOST COMMDN, SPECIES OF THE GENUS ALTERNARIA (NEES) WILTSR. EMEND. JOLY. (PR) P Joly Plant Dis Rep 51(4):296-297 Apr 1967 1.9 P69P Alternaria, Pungus diseases (plants), Plant taxonomy, Translations. Translated from Revue de Mycologie 29(5):348-351, 1964, by M. M. Kulik and R. Dabbah, U.s. Department of Agri-culture, Agricultural Research Service,

12438-68 CYTOSPORA CANKER ON SWEET CHERRY IN NEW YORK STATE: ASSOCIATION WITH WINTER INJURY AND PATHOGENICITY TO OTHER SPECIES. P F Kable P Pliegel K G Parker Plant Dis Rep 51(3):155-157 Mar 1967 1.9 P69P Cytospora, Mazzard cherries, Peaches, Plant injuries, Prunes, Sonr cherries. Abstract: cytospora sp was identified in cankers on sweet cherry and appeared to gain entrance through winter-injured tissne and to cause canker formation beyond the winter-injured tissue. the fungus isolated from such cankers was pathogenic to sweet and sour cherry, peach, and two varieties of prune. 12439-68 THE PHYSIOLOGY OF PENETRATION AND INFECTION BY UREDIOSPORES OF RUST FUNGI. R Maheshwari Diss Abstr Sect B 28(3):762B Sep 1967 Z5D55.049D53 Pungus diseases (plants), Stem rust (wheat), Wheat. 12440-68 CHEMICAL COMPOSITION OF CELL ENVELOPES FROM VIRULENT AND AVIRULENT STRAINS OF AGROBACTERIUM TUMEFACIENS. R J Manasse Diss Abstr Sect 8 28(3):1D34B Sep 1967 Z5D55.049D53 Agrobacterium tumefaciens, Cell wall. 2441-68 EFFECTS OF PLANTING DEPTH AND ASPRALT MULCR ON RHIZOCTONIA ROOT AND HYPOCOTYL ROT OF SNAPBEAN. W J Manning D P Crossan D J Morton Plant Dis Rep 51(3):158-16D Mar 1967 1.9 P60P Asphalts, Beans, Mulches, Rhizoctonia solani, Root rot (beans), Rot (beans), Seed planting. The planting depth of snapbean seed and the presence of asphalt mulch affected plant emergence and Rhizoctonia root and hypocotyl rot incidence. Plants from seed planted 3 inches deep were shorter and had more root and hypocotyl rot than did plants from seed planted 1 inch deep. more plants emerged in the mulched rows were slightly taller and had a higher percentage of root and hypocotyl rot. the lowest incidence of root and hypocotyl rot was obtained by planting seed 1 inch deep without mulching. at this depth, however, seed germination was reduced. 12441-68 12442-68 SOURCES OF RESISTANCE IN THE GENUS GOSSYPIUM TO SEVERAL

SDILBORNE PATHOGENS. (1) D E Mathre J D Otta Plant Dis Rep 51(10):864-866 Oct 1967 1.9 P69P Oct 1967 1.9 P69P Fungus diseases (plants), Plant disease resistance, Plant temperature, Pythium ultimum, Rhizoctonia solani, Soil-borne plant diseases, Thielaviopsis basicola, Verticillium albo-atrum. Most of the available species of Gossypinm were tested for resistance to Pythium ultimum, Rhizoctonia solani, Thielaviopsis basicola, and the defoliating strain of Verticillium albo-atrum. none of the species exhibited any resistance to P ultimum or R solani. resistance to T basicola was found in certain strains of G arboreum and G herbaceum, but not in any of the other species. this resistance is temperature sensitive. some tolerance to V albo-atrum infection was found in G herbaceum, G herbaceum var africanum, G arborenm, G raimondii, herbaceum var africanum, G arbo G harknessii, and G barbadense. arborenm, G raimondii,

12443-68

AN UNUSUAL OCCURRENCE DF EYE ROT OF APPLE IN CALIFORNIA DUE TO NECTRIA GALLIGENA.

% O McCartney
Plant Dis Rep 51(4):278-281 REP
Apr 1967 1.9 P69P

Apples, Fungus diseases (plants), Nectria galligena, Rainfall, Rot (apples). Abstract:

eye rot of apple, caused by Nectria galligena Bres. oc-curred late in the 1965 growing season in Sonoma County. California. this is the first report of the Nectria fruit rot phase in European canker orchards in California.

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 12444-68
       A SENSITIVE STRAWBERRY VIRUS INDICATOR CLONE OF PRAGARIA
VESCA FROM THE USSF.
                R McGrew
       Plant Dis Rep 51(4):28B-290
Apr 1967 1.9 P69P
       Cripkle (strawberries), Fragaria vesca, Strawberries, ESSR.
 12445-68
         INTERACTION OF RACE I AND RACE II OF COLLETOTRICHUM
       OFRICDLARE ON WATERMELON. (
                                                                                                                            11
     D R AcLean

Plant Dis Rep 51(10):885-887 REF

Oct 1967 1.9 F69P

Anthracnose (watermelons), Colletotrichum orbiculare,

Crop varieties, Pungus diseases (plants),

Plant disease resistance, Watermelons.

Watermelon varieties resistant to race I of Colletotrichum

orbiculare and susceptible to race II were protected from

race II to only a slight degree by prior inoculation with

race I. stems previously inoculated with race I were easi-

ly infected by race II, but leaves infected sub-lethally by

race II usnally did not succumb to the more virulent race

II. it is concluded that if there was any immunizing effect

on race II by race I it was extremely localized and not

systemic.
        D M McLean
       systemic.
12446-68
       A NEW RACE OF TILLETIA CARIES.
       A NEW MACE OF TILLETIN CARLES.

R J Metzger E L Kendrick

Plant Dis Rep 51(4):287-288

Apr 1967 1.9 P69P

Plant disease resistance, Stinking smut (wheat),
       Tilletia caries, Wheat.
Oregon Agricultural Experiment Station, Department of
Parm Crops cooperating.
12447-68
       EFFECT OF CUTTING HEIGHT ON DEVELOPMENT OF ROOT ROT IN
       CLOVER.
      A R Moody R A Kilpatrick A E Rich
Plant Dis Rep 51(10):826-828
Oct 1967 1.9 P69P
Fungus diseases (plants), Fusarium oxysporum, Pusarium solani,
    Pungus diseases (plants), Fusarium oxysporum, Pusarium solar
Ladino clover, Red clover, Root rot (clover).
U.S. Department of Agriculture, Agricultural Research
Service, Crops Research Division, cooperating.
Pield and greenhouse experiments determined the effect of
height of cutting on development of root rot in taproots of
red and Ladino white clover. in a greenhouse ground bed,
red clover plants, or white, or both, were clipped to a
height of 1, 2, or 4 inches, while unclipped plants were
used as a control. plants harvested at 1 inch appeared most
severely rooted, while nnclipped plants suffered least
damage. a field experiment conducted over a 2-year period
indicated that height of cutting played a minor role under
natural conditions, fusarium oxysporum and P solani were
isolated most freguently from diseased taproots. in the
greenhouse a severe clipping treatment was useful in in-
dicating the degree of resistance of plants to root rot.
12448-68
      INOCULATION OF PEA ENATION MOSAIC VIRUS BY THE GREEN PFACH,
POTATO, AND PCXGLCVE APHIDS.
L B Nault
J Econ Entomol 60(6):1586-1587
       Dec 1967 421 J822
Acyrthosiphon solani, Enation mosaic (peas), Immunization,
Insect vectors, Macrosiphum euphorbiae, Myzus persicae, Peas,
Plant disease transmission.
       Abstract
12449-68
   2449-00
VIEDSES MECHANICALLY TRANSMITTED FROM FEAM.
S Nemec
Plant Dis Rep 51(4):283-286 REP
Apr 1967 1.9 P69P
Chemopodium, Host indexing (plants), Pears,
Plant disease transmission, Virus diseases (plants).
Pear viruses were not transmitted to herbaceous hosts from
pear leaves by the usual sap transmission procedures; how-
ever, a virus was transmitted to Chemopodium amaranticolor
from pear leaves ground in sodium phosphate buffer contain-
ing cysteine hydrochloride and sodium diethyldithiocarba-
nate. the virus was transmitted from four pear species which
had been inoculated with a pear source infected with the
green ring mosaic virus. similar virus isolates were mechan-
ically transmitted from the indicator pear variety, Bart-
lett No 13(B-13), which previonsly had been inculated
with seven pear sources all infected with the green ring
       VIRDSES MECHANICALLY TRANSMITTED FROM PEAR.
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mosaic virus.

12050-68 HOST RANGE, CHARACTEDISTICS, AND PDRIDICATION OF PLDM LINF PATTERN VIRUS. Q Paulsen A Q Paulsen Diss Abstr Sect B 2B(3):7638-764B Sep 1967 Z5055.049D53 Cuscuta campestris, Cuscuta subinclnsa, Host indexing (plants), Line pattern (plnms), Myzus persicae, Plant disease transmission. 12451-68 SYNTHESIS OF INDOLEACETIC ACID BY CELL-PREE SYSTEMS PPOM PSEDDOMONAS SOLANACEARUM AND NICOTIANA TABACDM. PSEDUGDINAS SULARACEARDS AND DICULTAR INDEX. R H Phelps Diss Abstr Sect B 2B(3):764E Sep 1967 Z5055.D49D53 Extracellular substances, Indol@acetic acid, Plant regulators, Pseudomonas solanacearum, Tobacco, Tryptophan. 12452-68 TOMATO SPOTTED WILT VIRUS IN LETTICE CROP IN ARGENTINA. TORATO SPOTTED WILT VIRUS IN LETTDCE CROP IN R E Pontis J M Peldman Plant Dis Rep 51(3):225 Mar 1967 1.9 P69P Argentina, Host indexing (plants), Lettuce, Spotted wilt (lettuce). 12453-68 2453-68 A STRAIN OP PSEUDOMONAS LAPSA ISOLATED PROM CORN SEEDS CADSING BACTERIAL STALK ROT IN INDIA. M Rangarajan R P Chakravarti Plant Dis Rep 51(9):764-766 Sep 1967 1.9 P69P Bacterial diseases (plants), Corn, Seed-borne plant diseases, Stalk rot (corn). A bacterium was isolated from the seeds of Ganga 3, out of 12 corn variations tosted it caused stalk rot in corn when A pacterium was iscuated from the seeds of Gauga 5, out of 17 corn varieties tested, it caused stalk rot in corn when artifically inoculated, and also reduced the germination percentage of corn seeds, the culture was compared with three isolates of Pseudomas lapsa obtained from different sonrces, the present seed isolate was found to agree in general with the other three isolates but differed in cergeneral with the other three isolates but differed in cer-tain cultural and biochemical characters, such as lack of pigment production, inability to produce acid in lactose, maltose and arabinose, and inability to reduce nitrates to nitrites. on the basis of pathogenicity, cultural and biochemical characters, the pathogen is identified as a strain of Pseudomonas lapsa (Ark) Starr and Burkholder. 12454-68

NATDRAL SPREAD OP STEM PITTING VIRUS OP APPLE.

A E Rich

Plant Dis Rep 51 (4):291-293 Apr 1967 1.9 P69P

Apr 1967 1.9 F69P Apples, Plant disease transmission, Plant grafting, Stem pitting (apples). Stem pitting symptoms were observed in 55 trees in a 1957 orchard survey. during the 9-year period, 1957-1966, symp-toms developed in 16 of 9D susceptible trees scattered through the orchard. five of the sixteen trees, however, were purposely inoculated in 1957 with buds and scionwood from an infected tree (J-30). thas it is apparent that the virus spread by natural means to only 11 trees (12 percent), while 74 trees (82 percent) remained apparently healthy. the pattern of spread suggests that root grafting could account for most of the natural transmission, and that probably insects were of little or no importance even though no insecticides had been used in the orchard in the past 4 years. years.

12455-68

INFLDENCE OF DAPPLE APPLE AND STEM PITTING VIRDSES ON TREE GROWTH AND PRUIT YIELDS OVER A FODRTEEN-YEAR PERIOD. E Rich

Plant Dis Rep 51(4):293-295

Plant Dis Rep 51(4):293-295 Apr 1967 1.9 P69P Apples, Crop yields, Dapple (apples), Stem pitting (apples). Presence of the dapple apple virus in Cortland apple trees had no apparent influence on tree growth or frnit yields, but it did reduce fruit gnality and marketability. the Stem pitting virus greatly reduced tree growth and yield of cortland, RCIntosh and Spy trees. reduction in growth and yield was greater when Plorence Crab was used as a body stock than when Virginia Crab was used for this purpose.

12456-68 A TECHNIQUE FOR LAEELING CERATOCYSTIS ULMI WITH RAOIO-CARBON. (1) B R Roberts Plant Dis Rep 51(10):803-805 REF Oct 1967 1.9 F69P Carhon isotopes, Ceratocystis ulmi, Conidia, Fungi, Radioactive tracers. Radioactive tracers. A method is reported for successfully laheling conidia of the Outch elm disease fungus, Ceratocystis ulmi, with radiocarhon. a conidial suspension, prepared from 7- to 9-day-old cultures of C. ulmi, was added to basal media containing 300 microcuries of B-14-CO-3. washed, resus-pended conidia of the fungus yielded significant levels of radioactivity after 72 honrs. viability and pathogencicity of 14-C-labeled conidia are not adversely affected by the labeling tracedure. labeling procedure. 12457-68 PRECOMINATING STRAINS OF BARLEY YELLOW DWARF VIRUS IN FEW YORK: CHANGES OURING TEN YEARS. W F Rochow Plant Ois Rep 51 (3): 195-199 Mar 1967 1.9 P60P Barley, Macrosiphum avenae, New york, Plant disease transmission, Rhogalosiphum maidis, Bhcgalosiphum padi, Schizaphis graminum, Virus diseases (plants), Yellow dwarf (barley). Cornell University Agricultural Experiment Station cooperating. Ouring 1965 and 1966 in New York, harley yellow dwarf virus was recovered from 103 of 108 field samples of spring oats that had symptoms of infection. virus was recovered from most samples in both years by Bhopalosiphum padi, in contrast to results of earlier tests during a 10-year period when Macrosiphum avenae transmitted virus selectively from met field-collected samples, subsequent comparative trans-missions of 98 virus isolates by means of four aphid species permitted identification of the same three major types of virus strains encountered previously, comparison of results over a 10-year period indicated that a change has occurred in the strain of barley yellow dwarf virus predominating point the very vork near Ithaca, New York. 12458-68 HOST/PARASITE INTERACTION IN BLACKSPOT DISEASE OF BOSES CAOSED BY DIPLOCAREON ROSAE WOLF. P J W Sannders Ann Appl Biol 60(1):129-136, REF. Aug 1967 442.8 AN72 Black spot (rosa), Diplocarpon rosae, Plant disease resistance, Rosa. 12459-68 PORPLE-TOF OF POTATOES IN GUATEMALA. Schieber Plant Dis Rep 51(4):265-266 Apr 1967 1.9 F69P Aster yellows (vegetables), Plant disease resistance, Potatoes. 12460-68 COLLAE CANKEB OF COFPEE TREES IN GOATEMALA. E Schieber G A Zentmyer Plant Dis Bep 51(4):267-269 Apr 1967 1.9 P69P Coffee. Collar canker, caused by Helicobasidium compactnm Boed., is described for the first time from coffee trees in two locations in Guatemala. the fungns causes some deterio-ration of the trees and loss of production, and is most severe cn coffee grown without shade. control suggestions are made. 12461-68 METBYL ARSINE OXIOE METHOD OF CONTBOLLING SOIL-EORNE PYTHIUM FONGI. FATENT 3,338,780. A Schwerdle Os Patent Office Cffic Gaz 841(5):1692 29 Aug 1967 156-65 072 Chemical control (Flant diseases), Fungicides, Fungus diseases (plants), Methyl arsine oxide, Patents, Pythium, Soil fingi. 12462-68 BATE OF DECAY IN PINUS STROEUS FOLLOWING ABTIFICIAL INOCO-LATION WITH FCMES FINI. S B Silverborg M J Larsen Plant Dis Rep 51(10):829-831 Oct 1967 1.9 F69P

Tree diseases, Nood decay. The rate and pattern of decay development in eastern white pine due to Fomes pini was extremely variable. the columns of decay did not taper off to a typical conical form but instead "fingered" out considerable distances beyond the Instead "fingered" out considerante distances neyond the advanced and intermediate zone of decay and in some in-stances even grew in a spiral pattern. five years after artificial inoculation with P pini, the average yearly vertical extent of decay in eastern white pine was 0.84 feet. the mean upward and downward extent of decay, including advanced intermediate and including advanced including advanced intermediate and incipient stages, was 1.9 and 2.3 feet respectively. 12463-68 463-68
ERADICATION OF THE SEE0BORNE INOCULOM OF XANTHOMONAS ORYZAE
BY HOT WATER TREATMENT OF PADDY SEEDS.
S K Sinha Y L Nene
Plant 01s Rep 51 (10):882-883
Cont 00051 contector Fiant 015 Kep 51(10):882-883 Oct 1967 1.9 P69P Bacterial diseases (plants), Hot water treatment (plants), Oxytetracycline, Rice, Seed treatment, Seed-horne plant diseases. Vanthoere Seed-horne plant diseases. Xanthomonas oryzae (Uyeda and Ishiyama) Dows, which causes the bacterial blight of paddy, is seedhorne. although the recommendation for eradicating the bacterium from the seed calls for soaking the seed for 12 hours at room tem-perature in an aqueous suspension of Ceresan Wet plus Agrimycin 100 followed by hot water treatment at 52-54 degrees C for 30 minutes, the evidence obtained indicates that soaking of seed in water at room temperature for 12 hours followed by only hot water treatment at 53 degrees c eradicates the bacterium completely. 12464-68 PBOCESS FOR CONTROLLING SPRING DEAD SPOT ON GRASS. PATENT 3,323,985. W A Small W A Small US Patent Office Offic Gaz 839(1):265 06 Jun 1967 156.65 OF2 Carhamates, Chemical control (plant diseases), Dithiocarhamates, Fungicides, Grass sickness, Grasses, Patents. 12465-68 OCCURRENCE OF TOBACCO OISEASES IN KENTUCKY IN 1966. J H Smiley R A Flowers Plant Dis Bep 51 (10):866-867 Oct 1967 1.9 P69P Kentucky, Plant diseases, Tohacco. 12466-68 OUTBBEAKS AND NEW RECORDS. INDIA. EBGOT ON BARLEY. D Suryanarayana Fao Plant Protect Bull 15(1):19-20 Peb 1967 421 P692 Barley, Claviceps pnrpurea, Ergot, Fungus diseases (plants). First record, Keylong, Rimachal Pradesh, Septemher, 1966 12467-68 RUST ON ZOYSIA IN ARKANSAS. M C Tucker J L Dale Plant Dis Rep 51(10):893 Oct 1967 1.9 P69P Pungus diseases (plants), Lawns, Puccinia zoysiae, Rust (grasses), Zoysia japonica. 12468-68 METBOO FOR CONTBOL OF POWDERY MILDEW. PATENT 3,323,986. K Van den Boogaart Os Patent Office Offic Gaz 839(1):265 06 Jun 1967 156.65 OF2 Chemical control (plant diseases), Oithiocarbamates, Fungicides, Patents, Powdery mildew (plants). 12469-68 SEED TRANSMISSION OF ABABIS MOSAIC VIBUS IN LETTUCE (LACTUCA SATIVA). O G A Walkley Plant Dis Rep 51(10):883-884 Oct 1967 1.9 P69P Lettuce, Mosaic (lettuce), Plant disease transmission, Seed-horne plant diseases. 12470-68 EOPHORBIA LAGASCAE, A NEW HOST OF SCLEROTIUM ROLPSII AND A ROOT-KNOT NEMATODE, MELOIDOGYNE HAPIA. B E Waterworth J Biggins A M Golden Plant Dis Bep 51(3):164-166 Mar 1967 1.9 P69P

Fones pini, Pinus strohus, Statistical analysis,

20 12471-68

Scloidogynt hapla, Necrosis, Oil plants, Plant nematodes, Sclerctium rolfsii. Euphorbia Lugascae Spreng is being studied as a potential new oil crcp for the Onited States at the U. s. Plant Introduction Station, Glenn fale, Maryland, plants in exferimental field plots became heavily infested by the root-Knct nematode, Meloidogyne hapla Chitwood, 1949. in plants where Sclerotium rolfsii had also infected the roots, seed yields were substantially reduced. the leaves of plants intected with the fungus became necrotic. 12471-68 TRANSMISSION OF EXOCORTIS VIRUS OF CITRUS TO HERBACEOUS FLANTS. L G Weathers F C Greer M K Harjung Plant Ois Rep 51(10(868-871 Oct 1967 1.9 F69P Oct 1967 1.9 F69P Citron, Cuscuta, Exocortis (citrus), Petunia, Plant disease transmission, Plant grafting, Solanaceae, Virus disease (plants). Exocortis virus was transmitted from citron to citron and petunia by dodder, by grafting, and hy various mechanical methods. the virus was transmitted from petunia to petunia and back tc citrcr by the same methods. from infected petunia exocortis virus was graft transmitted to 12 species of plants in the family Solanaceae. petunia tissue homogenized in various buffers and additives provided in-fectious incculum for mechanical transmission. in mechanical inoculations from retunia to petunia, transmissions were inculations from petunia to petunia, transmission in median inculations from petunia to petunia, transmissions were increased when the inculum tissue was extracted in 0.1M Na-2-SO-3 at pH 8.0. 12472-68 METHED OF DISINFECTING SEEDS. PATENT 3,366,538. H Werres D Baumert & Rusch Us Fatent Cffice Cffic Gaz 846(5):1571 30 Jan 1968 156.65 OF2 Chlorobenzyl isothiocyanate, para-, Pungicides, Patents, Seed treatment, Seeds 12473-68 SCLERCTIUM ROLFSII AND ITS CONTROL ON TOMATO AND PEANUT. P & Young Plant Ois Rep 51(4):314-316 REF P a round Plant Ois Kep 51(4):314-316 REF Apr 1567 1.5 F69P Calcium rolfsii, Southern blight (tomatoes), Stem rot (peanuts), Tomatoes. Scierctium rolfsii Sacc causes rots of seedlings, stems, and fruits of at least 145 genera of plants, especially cultivated plants. it usually killed 50 to 100 percent of the tomato (Lycopersicon esculentum) plants in some naturally-infested fields at the Tomato Lahoratory at Jackscnville, Texas. the disease was controlled hy crop rotation or by soil treatment with several funigant fungicides. southern blight was the main cause of doubtfully profitable production of peanuts (Arachis hypogaea) near Pearsall, fexas for many years. it is controlled commer-cially ty deep plowing, by pentachloronitrohenzene treatment of soil, by non-dirting cultivation, and hy dusting to con-trol leaf diseases, these combined methods add about 50 to 100 bushels of nuts per acre to peanut production. calcium 100 bushels of nuts per acre to peanut production, calcium nitrate fertilization delayed killing of tomato plants by S. rolfsii too short a time for profitable commercial use. nc Lycopersicon with strong resistance to S. rolfsii was found. s. rolfsii rotted nut grass tuhers and grew on clay soil as a culture medium in a field. 12474-68 RECENT ADVANCES IN THE CONTROL OF SOIL FUNGI. G A Zentmyer Pao Plant Frotect Eull 15(1):1-5 Peb 1967 421 F692 Biological control (weeds), Fumigants, Fungicides, Plant disease control, Plant disease resistance, Soil-borne plant diseases. 12475-68 OCCURRENCE OF A MCSAIC LISEASE OF SWEET SORGHUM IN FOUR SOUTHERN STATES. N Zunmo O H Coleman K Freeman Plant Dis Fep 51(3):200-202 Mar 1967 1.9 F69P Mar 1967 1.9 F69P Corn, Dactyonotus ambrosiae, Mosaic (corn), Mosaic (sugarcane), Plant disease transmission, Rhopalosiphum maidis, Sorgho, Sugarcane, Sweetcorn, Virus diseases (plants). Mississippi Agricultural Experiment Station, cooperating.

Arthropods

12476-68 LOW-VOLUME AERIAL SPRAYING OF SEVERAL INSECTICIOES FOR COTTON-INSEC1 CONTROL. H M Adair R T Kincade M L Laster J R Brazzel J Econ Entomol 60 (4):1121-1127 15 Aug 1967 421 J822 Aerial spraying, Anthonomus grandis, Cotton, Ddt, Reliothis zea, Malathion, Methyl parathion, Strobane, Tde, Toxaphene. Toxaphene or strohane mixed with a DDT and methyl parathion combination, and TOE with malathion Abstract 12477-68 INSECTICIOAL CONTROL OF REGULATED POPULATIONS OF BLACK CUT-WORM ON CORN. J W Apple J Econ Entomol 60(6):1612-1615 Dec 1967 421 J822 Agrotis ipsilon, Carbamates, Chemical control (insects), Corn, Phosphates. Abstract 12478-68 CONTROL OF THE IRIS BORER WITH SYSTEMIC INSECTICIDES. J E Appleby J Econ Entomol 60(6):1610-1612 J ECON Entonol 60 (0) 1010-1012 Oec 1967 421 J822 Chemical control (insects), Dimethoate, Oisulfoton, Insectivide application, Iris, Macronoctua onusta, Phorate, Systemic insecticides. 12479-68 LEAP DISK METHOO OF TESTING ALPALFA PLANTS FOR BESISTANCE TO PEEDING BY ADOLT ALPALFA WEEVILS. D K Barnes R R Ratcliffe J Econ Entomol 60 (6):1561-1565 Oec 1967 421 J822 Alfalfa, Feeding, Hypera postica, Leaves, Plant pest resistance. Abstract 12480-68 SOME ENVIRONMENTAL FACTORS AFPECTING PEEDING, OVIPOSITION, AND SURVIVAL OF THE SOUTHERN CORN ROOTWORK. W V Camphell D A Emery J Econ Entomol 60(6):1675-1678 REF Dec 1967 421 J822 Diahrotica undecimpunctata, Environment, Insect mortality, Insect nutrition, Insect rearing, Ovipositors, Peanuts. Abstract 12481-68 IMPROVED LABORATORY METHODS FOR REARING THE CITRUS RED MITE. 0 L Chambers C Moffitt J Econ Entomol 60 (6):1748-1749 Dec 1967 421 J822 Chemical control (plant diseases), Citrus, Eguipment, Insect rearing, Panonychus citri, Sodium hypochlorite, Virus diseases (plants). 12482-68 DISCOVERY OF THE PEA APHID PARASITE APHIDIUS SMITHI, IN CENTRAL MEXICO. 0 W Clancy J Econ Entomol 60(6):1743 Oec 1967 421 J822 Acyrthosiphon pisum, Alfalfa, Aphidius smithi, Parasitism. Abstract 12483-68 PIELD EXPERIMENTS WITH STERILE MALES FOR ERADICATION OF THE BOLL WEEVIL. T 8 Oavich M E Merkl E 8 Mitchell D D Hardee R T Gast G H McKibben P A Huddleston J Econ Entopol 60 (6):1533-1538,MAP REF Doc 1967 421 4024 Dec 1967 421 J822

Anthonomus grandis, Apholate, Chemosterilants, Cotton,

Abstract 12464+68 BIOLOGY OF THE CAEBAGE LOOPER ON TOBACCO IN NORTH CARO-LINA. K D Elsey & L Rabb J Econ Entomol 60 (6) :1636-1639 Oec 1967 421 JB22 Flue-cured tobacco, Insect biology, Pseudoplusia includens, Tcbacco, Trichoplusia ni. Abstract 12485-68 GANNA IFRADIATION OF PDPAE OF THE TOBACCO BDDWOFN. H M Flint E L Kressin J Econ Entomol 60(6):1655-1659 Dec 1967 421 J822 Cobalt, Gamma rays, Heliothis virescens, Sterilization. Abstract 12486-68 PARASITISM OF THE ALFALFA WEEVIL IN THE WESTERN PLAINS STATES FROM 1963 TO 1966. A F Hagen G R Manglitz J Econ Entomol 60(6):1663-1666,MAP 0ec 1967 421 JB22 Bathyplectes curculionis, Hypera postica, Parasitism, Parasitism. Abstract 12487 SPATIAL ABRANGEMENT OF THE EGGS OF HYLEMYA PRASSICAE (BOUCEE), AND A SEQUENTIAL SAMPLING PLAN FOB USE IN CONTROL OF THE SPECIES. O G Harcourt Can J Plant Sci 47(5):461-467, REF. Sep 1967 450 C16 Hylemya hrassicae, Insect eggs, Sampling (statistics). Abstract 12488-68 CHEMOSTERILIZATION OF MALE EUROFEAN CORN BORERS BY FEEDING OF TEFA AND AFHOLATE TO LARVAE. J & Harding J Econ Entomol 60(6):1631-1632 Dec 1967 421 J822 Apholate, Chemosterilants, Ostrinia nubilalis, Sterilization, Abstract 12489-68 1967 INSECTICIDE RECOMMENDATIONS; APPLE INSECT CONTROL (COMMERCIAL). H Hill Va Polytech Inst Ext Circ 1004,8 P A rost of the other offer offer offer offer of the offer off 12490-68 MINIMUM NUMBEB OF INSECTICIDE APPLICATIONS FOR THE CONTROL OF THE EUROPEAN CORN BORER ON SWEET COBN IN QUEBEC. M Huden J Econ Entcuol 61(1):75-78 BEF Peb 1968 421 JB22 Carbaryl, Chemical control (insects), Odt, Insecticide application, Ostrinia nnbilalis, Sweetcorn. Abstract 12491-66 THREE CICAOELLID-SPECIES INJURICDS TO AGRICOLTORE (HESIFTERA). T Ishihara Shikokn Entomol Soc Trans 9(3):63-67 May 1967 420 SH6 Cicadellidae, Eggplant, Sugarcane. 12492-68 INSECT SEX ATTRACTANTS. VIII. STRDCTUBE-ACTIVITY RELATION-SHIPS IN SEX ATTRACTANT FOR MALE CABBAGE LOOPEBS. M Jacobson H H Toba J DeBolt A N Kishaba J Econ Entcmol 61(1):84-85 Peb 1568 421 J822 Acetates, Alcohols, Sex attractants, Stereochemistry, Trichoplusia ni. Abstract

Insecticide application, Sterilization.

12493-68 SYSTEMIC INSECTICIOES AS LYGDS BUG CONTROLS COMPATIBLE WITH BEE POLLINATION ON ALFALFA. C Johansen J Eves J Econ Entomol 60(6):1690-1696 Dec 1967 421 J822 Alfalfa, Bee pollinators, Chemical control (insects), Dimethoate, Insecticide application, Irrigation, Lygus elisus, Lygus hesperus, Megachile rotundata, Sprinkler irrigation, Systemic insecticides, Toxicity. Abstract 12494-6B 2494-68 STUDIES ON ANTIFEEDING PROPERTIES OF TRIPHENYLTIN ACETATE AGAINST THE TOBACCO CATERPILLAR, PRODENIA LITDRA P. B G Joshi G Kamaprasad C L Marayana Indian J Entomol 29(1):18-20 Mar 1967 420 IN23 Feeding, Insect behavior, Insect repellents, Prodenia litura, Tobacco, Triphenyltin acetate. Abstract. 12495-68 DISTRIBUTION OF PHONY PEACH VECTORS IN SOUTH CAROLINA. A Kalkandelen R C Fox J Econ Entomol 61(1):65-67, MAP Feb 1968 421 JB22 Cuerna costalis, Hcmalodisca coagulata, Homalodisca insolita, Insect vectors, Oncometopia orbana, Peaches, Phony disease (peaches), Plant disease transmission, Zoogeography. Abstract 12496-68 EFFECT OF HOST PLANTS ON THE SURVIVAL, DEVELOPMENT AND BEHAVIOUR OF CHILO ZONELLDS (SWINHOE) UNDER LABORATORY CONDITIONS. M B Kalode N C Plant Indian J Entomol 29(1):48-57 REF Mar 1967 420 IN23 Chilo zonellus, Corn, Euchlaena, Host specificity, Insect behavior, Insect physiology, Mortality, Pearlmillet, Sorohnm. Abstract 12497-6B BEHAVIOR OF THE SPOTTED ALFALFA APHID, THERIOAPHIS MACDLATA (BUCKTON), ON RESISTANT AND SUSCEPTIBLE ALFALFAS. Diss Abstr Sect B 28(3):1274B-1275B Alfalfa, Chlorophylls, Plant pest resistance, Therioaphis maculata. 12498-68 2,4-DIHYDROXY-7-METHOXY-1,4-BENZOXAZIN-3-ONE (dIMBOA), AN ACTIVE AGENT IN THE RESISTANCE OF MAIZE TO THE EUROPEAN CORN BORER. J A Klun C L Tipton T A Brindley J Econ Entomol 60(6):1529-1533 REF Dec 1967 421 J822 Corn, Dihydroxy-7-methoxy-1,4-benzoxazin-3-one, 2,4-, Ostrinia nubilalis, Plant pest resistance, Seedlings. Abstract 12499-68 BARK VS POLIAGE APPLICATIONS OF INSECTICIDES FOR CONTROL OF PSYLLA UNCATOIDES ON ACACIA. C S Koehler S S Rosenthal J Econ Entomol 60(6):1554-1558 Dec 1967 421 JB22 Acacia, Bark, Chemical control (insects), Dimethoate, Insecticide application, Psylla uncatoides. Abstract 12500-68 INSECT PREFERENCE FOR PEANUT VARIETIES. O B Leuck B O Hammons L W Morgan J E Harvey J Econ Entomol 60(6):1546-1549 REP Dec 1967 421 J822 Anticarsia gemmatalis, Heliothis zea, Host specificity, Peanuts, Spodoptera frugiperda, Stegasta bosgueella. Abstract 12501-68 LESSER COBNSTALK BOREB DAMAGE TO PEANDT PLANTS. O B Leuck J Econ Entomol 60(6):1549-1551 Dec 1967 421 J822 Chemical control (insects), Elasmopalphs lignosellns,

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Abstract

2D 125D2-6R Insecticides. Feanuts. 125D2-6B LOW-VELORE DUSTS FOR CONTROL OF THE COTTON ROLLWORK. C Lincoln G Dean C Lincoln G Dean J Econ Entemol 60(6):1744-1745 Dec 1967 421 JB22 Carbaryl, Cotton, Dusting, Heliothis zea, Methyl parathion, Shell SD-8447, Spraying, Tde. Abstract: Abstract: low-wclume dusts gave an increase in percent control in all cases except one. dupont 1179 (methyl n-((methylcarha-moyl)oxy)taioacetimidate) spray gave hetter control than the dust. the residual effectiveness of the low-volume dusts was equal to that of the sprays. 12503-68 COL-60 CCMFASISON OF THREE RATES OF APPLICATION OF DITRA-LCW-VOLDME AZINFROSMETHYL IN A REPRODUCTION-DIAPADSE CONTROL PROGRAM AGAINST THE BOLL WEEVIL. E P Lloyd F C Tingle M E Merkl E C Burt D B Smith T B Davich J Econ Entomol 60(6):1696-1699 Dec 1967 421 J822 Deterson correction Anischeretty Anthonomus grandis, Azinphosmethyl, Chemical control (insects). Abstract 12504-68 INHERITANCE OF RESISTANCE IN SWEETCLOVER TO THE SWEETCLOVER APRID. G B Manglitz H J Gorz J Econ Entcmol 61(1):9D-93 Peh 1568 421 J822 Plant genetics, Plant pest resistance, Sweetclover, Therioarbis riebmi. Abstract 12505-68 SDPPRESSION OF DROSOPHILA MELANOGASTER IN TOMATO FIELD PLOTS BY THE BELEASE OF FLESS STERILIZED BY APHOLATE. B C Mason T J Benneberry P F Smith W L McGovern J Econ Entcaol 61(1):166-170 Peb 1968 421 J822 Apholate, Chewosterilants, Drosophila melanogaster, Sterilization, Tcmatoes. Abstract 125D6-68 APPLE MAGGET ADULT DISPERSION IN A NEW REDNSWICK APPLE OACHARD. C W Maxwell J Econ Entcmol 61(1):1D3-106 Peb 1968 421 J822 Apples, Fluorescent dyes, Insect dissemination, Insect traps, agoletis pomonella. Abstract 12507-68 PSEUDCPIUSIA INCLDDENS: A PEST OF FLORICULTURAL CROPS IN SOUTBEEN CALIFORNIA. F S Morishita R N Jefferson S T Besemer W A Hnmphrey J Econ Entomol 60(6):1758 Dec 1967 421 J822 Greenbouses, Ornamental plants, Pseudoplusia includens. 12508-68 LAGORATCRY TESTS WITH PROMISING INSECTICIDES FCB CONTROL OF ADULT AND LARVAL STABLE FLIES. G A Mount J B Gaban C S Lofgren J Econ Entcmol 60(6):1600-1602 Dec 1967 421 J822 Chemical control (insects), Insecticides, Larvae, Stomoxys calcitrans, Toxicity. Abstract 12509-68 LEUCINODES ORBONALIS GUEN. (LEFIDOPTERAI PYRALIDAE) AS A SERIODS PESI OF FCIATO PLANTS IN MYSORE STATE. K B Nair Indian J Entomol 29(1):96-97 Mar 1967 420 IN23 Leucinodes orhonalis, Potatoes. 12510-68 REACTION OF COBN TO THE FEEDING OF THE WHEAT CDRL MITE. J Econ Entomol 61 (1):31-32 Peb 1968 421 J822 Aceria tulipae, Corn, Crop varieties, Host specificity.

12511-68 THE RELATIONSHIP OF ARTHROPOD PREDATORS TO CHOP DAMAGE IN-PLICTED BY THE SDGARCANE BORER. A A Negm S D Hensley J Econ Entomol 6D (6):1503-1506 J Econ Entomol 6D (6):1503-1506 Dec 1967 421 JE22 Azinphosmethyl, Diatraea saccharalis, Endrin, Reptactlor, Plant injuries, Predaceous insects, Sugarcane. Abstract 12512-68 SODRCES OF ALFALFA SEED CHALCID RESISTANCE IN ALFALPA. M W Nielson M R Schonhorst J Econ Entomol 60(6):1506-1511 Dec 1967 421 JB22 Alfalfa, Biological control (insects), Bruchophagns roddi, Plant pest resistance. Abstract 12513-68 AN EXPERIMENTAL SPRAY PROGRAM FOR INTEGRATED CONTROL OF IN-SECTS APPECTING SOUR CHERRY. E R Oatman J Econ Entomol 61(1):62-64 REF J Econ Entomol 61(1):62-64 REP Peb 1968 421 JB22 Bacillus thuringiensis, Caterpillars, Conotrachelus nenuphar, Dodine, Endrin, Integrated control (insects), Pesticide application, Soil sanitation, Sour cherries, Spraying, Thuricide. B. thuringiensis plus dodine as petal-fall and cover sprays, with endrin sod treatment. Abstract 12514-68 PRELIMINARY EVALDATION OF SOIL INSECTICIDE FOR SDGAR-REET ROOT MAGGOT CONTROL. W E Peay C E Stanger A A Swenson J Econ Entomol 61(1):19-21 Feb 1968 421 J822 Chemical control (insects), Insecticides, Soil sanitation, Sugar beets, Tetanops myopaeformis. Abstract 12515-68 STRATEGY OF INTEGRATED PEST CONTROL. Stradhan Indian J Entomol 29(1):105-122 Mar 1967 420 IN23 Insect pests, Insecticides, Integrated control (insects), Plant protection, Rice. 12516-68 ASPECTS OF PEA APHID NDTRITION. A Retnakaran Diss Abstr Sect B 28(3):1283B-1284B Sep 1967 25055.D49D53 Acyrthosiphon pisum, Broadheans, Insect nutrition. 12517-68 HYDROCYANIC ACID AND OTHER PDMIGANTS FOR CONTROL OF LABVAE OF PLEMELIELLA AEIETINA AND MEGASTIGMUS SP. IN IMPORTED SPRDCE SEED. H H Richardson H Roth J Econ Entomol 61(1):214-216 Peh 1968 421 J822 Forest insects, Fumigants, Hydrocyanic acid, Larvicides, Megastigmus, Picea, Plemeliella abietina, Seed treatment. Abstract 12518-68 1967 INSECTICIDE RECOMMENDATIONS: FORAGE CROPS INSECTS. J O Rowell Va Polytech Inst Ext Circ 1016,4 P Dec 1966 275.29 VB1C Alfalfa, Chemical control (insects), Extension work, Porage plants, Insecticides, Insects, Malathion, Red Clover. 12519-68 1967 INSECTICIDE RECOMMENDATIONS; INSECTS OF CARBAGE, BROCCOLI, CADLIPLOWER, AND BRDSSELS SPRODTS. J O Rowell Va Polytech Inst Ext Circ 1020,4 P Va Folyteen files and Dec 1966 275.29 V&IC Broccoli, Brussels sprouts, Cabbage, Cauliflower, Chemical control (insects), Extension work, Insecticides.

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2D 12536-68

1252D-68 1967 INSECTICIDE RECOMMENDATIONS; INSECTS OF GROWING CHRISIMAS IREES. J O Bowell Va Polytech Inst Ext Circ 1032,4 P Dec 1966 275.29 V&1C Cbemical control (insects), Christmas trees, Extension work, Forest insects, Insecticides, Trees. 12521-68 1967 INSECTICIDE SECOMMENDATIONS; PESTS OF GREENHOUSE TCHATCES. J O Rowell Va Polytech Inst Ext Circ 1031,4 P Dec 1966 275.29 V81C Chemical control (insects), Extension work, Greenbouse culture, Insecticides, Tomatoes. 12522-68 1967 INSECTICIDE RECOMMENDATIONS; INSECTS OF TOMATOES. J O Revell Va Polytech Inst Ext Circ 1025,4 P Dec 1967 275.29 V81C Chemical control (insects), Extension work, Insecticides, Tcmatoes. 12523-68 1967 INSECTICIDE BECCMMENDATIONS: INSECTS OF 18ISH PCT ATCES. J O Rowell Va Polytecb Inst Ext Circ 1D24,4 P Dec 1966 275.29 V81C Chemical control (insects), Extension work, Insecticides, Potatoes. 12524-68 SELATIONSHIP EETWEEN THE TARNISHED PLANT BUG AND DEFORMED COTTON FLANTS. A L Scales R E Fuir J Econ Entosol 61(1):114-118 Peb 1968 421 J822 Cotton, Crop yields, Lygus lineclaris, Plant abnormalities. Abstract 12525-68 CCMPARISCNS OF SOIL AND FOLIAR APPLICATIONS OF ACABICIDES FOR CCNTROL OF THE TWO-SPOTTED SPIDER MITE ON STRAWBERRIES IN SOUTBERN CALIFORNIA. H H Sborey R L 8ale V Voth J Econ Entcmol 60 (6): 1722-1724 Dec 1967 421 J822 Acaricides, Chemical control (insects), Poliar application, Scils, Strawberries, Tetranycbus urticae. Abstract 12526-68 SUCCESSIVE GEEMINATION OF EOLLWORAS ON COTTON IN FIELD CAGES. E A Stadelbacher J Econ Entcmol 61(1):118-120 Feb 1968 421 J822 Cotton, Heliothis zea, Insect cages, Insect physiology, Reproduction. Abstract 12527-68 SEASONAL TRENDS IN CATCHES OF MOTHS OF THE TOBACCO BORNWORN, TOMAIC GORNWORM, AND CORD EABNORM IN TEAPS EQUIPPED WITH BIACKLIGHT LAMPS IN NORTS CASOLINA. P A Stewart C B Gentry C H Knott J J Lam J Econ Entomol 61(1):43-46 Peb 1968 421 J822 Heliotbis Zea, Insect populations, Light traps, Manduca guinguemaculata, Manduca sexta, Tohacco. Abstract 12528-68 EFFECIS OF OSGANOMETALLIC COMPOUNDS ON LEPIDOPTESA. D O Wolfenbarger A A Guerra W L Lowry J Econ Entomol 61(1):78-81 Peb 1968 421 J822 Caterpillars, Germane componnds, Beliotbis virescens, Heliotbis zea, Lead compounds, Organic compounds, Trichoplusia ni. Abstract 12529-68 INSECT ABUNDANCES ON TOMATOES AND SQDASS MDLCHED WITH ALUMINUM AND PLASTIC SSEETINGS. D O Wolfenbarger W D Moore

J ECON Entonol 61(1):34-36 Peh 1968 421 J022 Aluminum foil, Aphididae, Apis mellifera, Diaphania mitidalis, Insect populations, Liriomyza, Mulches, Myzus persicae, Plastics, Squash, Tomatoes. Abstract 1253D-68 CONTROL OF THE CAEERAGE LOOPER AND COBN EARWORM WITH NUCLEAR POLYHEDROSIS VIRDSES. K L Woodall L P Ditman J Econ Entomol 60(6):1558-1561 REF Dec 1967 421 J822 Biological control (insects), Broccoli, Heliothis zea, Polyhedroses, Tricboplusia mi.

Nematodes

12531-68 METHOD OF KILLING NEMATODES WITH BIS(1,2-DICBLOROETHYL)

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Bayer 9002, Calves, Cooperia, Maretin, Nematocides,
Ostertagia, Therapeutics.
Abstract

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Histology, Strongyloides ransomi, Swine.
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