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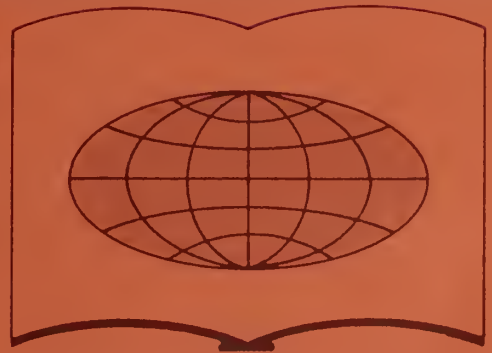
Pesticides

DOCUMENTATION

BULLETIN

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Volume 4
MAY 24, 1968

Number 11



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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 Bibliography of Agriculture, a monthly publication of the National Agricultural Library.

FORMAT

The Bulletin 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

Citations: 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

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ACKNOWLEDGMENT

The Pesticides Information Center, National Agricultural Library, gratefully acknowledges the cooperation and assistance of the Department of Defense; Health, Education, and Welfare; and Interior; the Federal Committee on Pest Control, and state and industrial organizations in the development of the Center and preparation of this Bulletin. Special thanks are expressed to the Federal Committee on Pest Control for its suggestions and support. We hope the Bulletin will serve as an example of the effectiveness of interdepartmental cooperation and the speed with which effective services can be developed through a coordinated and cooperative interdepartmental effort.

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U. S. DEPARTMENT OF AGRICULTURE

A N N O U N C E M E N T

These issues of the Pesticides Documentation Bulletin introduce a new computer generated current awareness service. Through the Pesticides 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 Bulletin 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 Bulletin 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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10 ENTOMOLOGY

Systematics

- 12295-68
STUDY OF THE DISPERSION AND FLIGHT RANGE OF ANOPHELES SERGENTI THEO IN SIWA OASIS USING RADIOACTIVE ISOTOPES AS MARKERS.
A A Abdel-Malek M A Abdel-Aal
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1966 449.9 4892B
Insect dissemination, Radioactive tracers.
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A Batten
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STRUCTURE AND FUNCTION OF THE EXTRANEURAL SHEATH IN INSECTS.
P S Boulton C H F Rowell
Nature 217(5126):379-380
27 Jan 1968 472 N21
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E A El Badry
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Amblyseius, Cotton, Eggplant, Egypt, Host specificity, Insect biology, Insect taxonomy, Mangoes, Mites, Phytoseiidae, Phytoseius, Typhlodromus.
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H E Klaassen
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A THEORETICAL EVALUATION OF POPULATION GROWTH AFTER REMOVING INDIVIDUALS FROM SOME AGE GROUPS.
L P Lefkovitch
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K W Malveg
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K L Minson J E Graham
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Insect metabolism, Sugar, Trehalose.
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CALCITRANS (L.), WITH INSECTICIDAL THERMAL AEROSOLS.
(ABSTRACT).
- 8 W Clements A J Rogers
Calif Mosquito Contr Ass Proc Pap 35:1D9
1967 428 C763
Aerosols, Chemical control (insects), Insecticide application,
Males, Stomoxys calcitrans.
Abstract:
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of the toxicant must be applied.
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Diapause, Hormones, Insect eggs, Insect physiology,
Oulema melanopus.
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B J Cook L C Eddington
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Fat body, Fatty acids, Glycerides, Hormones,
Insect metabolism, Lipids, Periplaneta americana.
Abstract
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EXTRACELLULAR POTENTIALS IN THE LOCUST EYE AND OPTIC LOBE.
D J Cosens
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Extracellular substances, Eyes, Schistocerca gregaria.
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LATED COMPOUNDS DURING THE METAMORPHOSIS OF THE HOUSEFLY,
LUCILIA CUPRINA.
M Crompton L M Birt
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Carbohydrates, Lucilia cuprina, Metamorphosis.
Abstract:
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and late pharate adult development) and that the
contribution of carbohydrate is very small.
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R H Dadd D L Krieger
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Aphis fabae, Insect nutrition, Insect rearing,
Synthetic diets.
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OF AN INSECT VIRUS INACTIVATED WITH ULTRAVIOLET RADIATION.
I A David I A Magnus
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Granuloses, Photoreactivation, Ultraviolet rays,
Virus diseases (insects).
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G C Decker J V Maddox
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Cold, Empoasca fabae, Empoasca kraemeri, Hibernation,
Insect mortality, Temperature.
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THE CONVERSION OF CHOLESTANONE TO CHOLESTANOL BY THE HOUSE-
FLY, MUSCA DOMESTICA L.
R C Dutky W E Robbins T J Shortino J N Kaplanis H E Vroman
J Insect Physiol 13(10):1501-1510 REF
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Cholestanone, Cholestanol, Insect metabolism,
Insect nutrition, Larvae, Musca domestica, Sterols.
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C E Dyte
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L J Edwards R L Patton
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Acheta domesticus, Carbonic anhydrase, Electrometry, Enzymes,
Insect respiration.
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R K Filshie T O C Grace D F Poulson J Rehacek
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Aedes aegypti, Antheraea eucalypti, Bacillus thuringiensis,
Drosophila melanogaster, Electron microscopy,
Virus diseases (insects).
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CEPTIBLE AND RESISTANT HOUSE FLIES.
A J Forgas
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Insecticide resistant insects, Musca domestica, Sesamex,
SKF 525-A.
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SOUTHERN CALIFORNIA. (ABSTRACT).
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Cultural control (insects), Insect ecology.
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Calcification (physiological), Ecdysone, Hormones,
Insect physiology, Musca autumnalis, Pupal cases, Tanning.
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B L Gilbert J E Baker D M Norris
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Oct 1967 421 J825
Bark, Benzene, Carya, Feeding, Forest insects,
Host specificity, Juglone, Plant extracts,
Plant pest resistance, Scolytus multistriatus.
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- 12339-68
MATING BEHAVIOR AND POPULATION DYNAMICS OF THE BOLL
WEEVIL AS RELATED TO THE STERILE-MALE-TECHNIQUE OF INSECT
CONTROL.
F R Gilliland
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Anthonomus grandis, Apholate, Chemical control (insects),
Chemosterilants, Cotton, Population, Sex behavior.
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STORAGE WATER LEVEL MANAGEMENT.
W J Gladney
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Culicidae, Hydrology, Insect control, Reservoirs, Theses,
Water storage.
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CHEMICALS TESTED AS SPACE REPELLENTS AGAINST YELLOW-FEVER
MOSQUITOES. I. ESTERS.
H Gouck T P McGovern M Peroza
J Econ Entomol 60(6):1587-1590
Dec 1967 421 J822
Aedes aegypti, Chemicals, Hydroxy esters, Insect repellents.
Abstract:
the 5 compounds that were effective more than 100 days were:
dipentyl, diisopentyl, and bis(1-methylbutyl) malate, hexyl
p-isopropyl-mandelate, and bis(2-ethylhexyl) fumarate.
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as space repellents against yellow-fever mosquitoes.
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THE REGENERATION OF MOTOR AXONS IN AN INSECT.
D M Guthrie
J Insect Physiol 13(10):1593-1611 REF
Dec 1967 421 J825
Insect physiology, Legs, Locomotion, Muscles, Nerves,
Periplaneta americana.
Abstract
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FACTORS AFFECTING THE TOXICITY OF DIAZINON MUSCA DOMESTICA
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M Gwiazda K A Lord
Ann Appl Biol 59(2):221-232
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Diazinon, Diazoxon, Insecticide resistant insects,
Musca domestica, Radioactivity, Toxicity.
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GOSSYPOL IN ARTIFICIAL DIETS.
J A Harding T A Brindley R C Dyar
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Dec 1967 421 J822
Gossypol, Insect mortality, Insect nutrition, Insect rearing,
Ostrinia nubilalis, Synthetic diets.
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O M Hargan H M Kulan
J Econ Entomol 60(6):1682-1687
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Forest insects, Insect dissemination, Insect flight, Pinus,
Pissodes strobi.
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- 12346-68
INFLUENCE OF LIGHT ON DIAPAUSE IN THE BOLL WEEVIL. I. DE-
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OF THE LIGHT USED TO EXTEND THE PHOTOPERIOD.
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Anthonomus grandis, Diapause, Light, Photoperiodism.
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Pristiphora erichsonii.
Abstract
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Blood, Hormones, Insect nutrition, Larvae, Molting (insects), Rhodnius prolixus.
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L Kervina
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SILKING BEHAVIOR OF THE GYPSY MOTH, PORTHETRIA DISPAR.
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Insect behavior, Larvae, Porthetria dispar, Silk.
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Bidrin, Chemical control (insects), Chrysopa carnea, Demeton, Geocoris punctipes, Hippodamia convergens, Methyl parathion, Nabis americanus, Orius insidiosus, Phosphamidon, Toxicity, Trichlorfon.
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Chrysopa carnea, Color, Diapause, Photoperiodism, Reproduction, Temperature.
Abstract
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Abstract
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T R New
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F S Raun I C Lewis J C Picken D K Hotchkiss
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Gamma rays, Insect mortality, Insect rearing, Larvae,
Ostrinia nubilalis, Sterilization.
Abstract
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FINED DIET.
W A Rawlins
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Insect rearing, Larvae, Onions, Ovipositors, Synthetic diets.
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Sericothrips.
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Central nervous system, Dieldrin,
Insecticide resistant insects, Musca domestica.
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Trichoplusia ni.
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Abstract
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Hibernation, Bippodasia convergens.
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Manduca sexta.
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Alfalfa, Hypera postica, Insect morphology, Parasitism,
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Beneficial insects, Coleomegilla maculata, Hyphantria cunea,
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Predaceous insects.
Abstract
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Gamma rays, Insect cages, Insect control, Sterilization.
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Parasitism, Predaceous insects.
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Humidity, Trogoderma granarium.

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Ronnel, Toxicity, Warf antiresistant.
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Fungus diseases (insects), Insect mortality.
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Irrigation, Pastures.
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Aedes aegypti, Culex fatigans, Hydrocarbons, Insect control,
Insecticides, Petroleum.
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Abstract:
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FIELD DEVELOPMENTAL STUDIES ON *Culex pipiens quinquefasciatus* REARED IN NATURAL, DAIRY BARN WASH AND SEWAGE EFFLUENT WATERS. (ABSTRACT).
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Culex pipiens, Dairy barns, Groundwater, Insect morphology,
Insect mortality, Insect rearing, Sewage.
Abstract:
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Bacteria, *Culex pipiens*, Onsrban, Insect control,
Insecticide residues, Naled, Toxicity, Waste disposal.
Abstract:
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Culex tarsalis, Insecticide resistant insects, Malatbion.
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Lambert mottle (cherries), Mazzard cherries, Temperature,
Virus diseases (plants).
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Benzyladenine, Virus diseases (plants).
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Boll rot (cotton), Cotton bolls, Culture media,
Fungus diseases (plants).
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RUSTS ON INDIAN FOREST TREES.
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Indian Forest Rec N S Forest Pathol 2(8):139-204 REF
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Coleosporium, Host indexing (plants), India, Puccinia, Rhododendron, Rust (trees), Tree diseases, Oredinales.
Includes bibliography p.193-195; an index to rust species and an index to host species.
- 12416-68
SPREAD OF RICE BLAST IN SMALL FIELDS.
T H Barksdale
Plant Dis Rep 51(10):243-247 REF
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Air-borne plant diseases, Blast (rice), *Piricularia oryzae*, Rice.
Spread of rice blast from initial foci of 0.0001-, 0.01-, and 0.1-acre sizes was studied in three small fields of "Gulfrose" rice. Disease spread fastest from the largest focus and covered a 1.7-acre field within 2 weeks, whereas, from the smallest focus, 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 use of 9 roto-bar 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 *Piricularia* spore on a roto-bar sampler.
- 12417-68
FIG MOSAIC.
E C Blodgett B Gomez
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Oct 1967 1.9 P69P
Figs, Mosaic (figs), Virus diseases (plants).
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Epidemiology, Grain, Humidity, Puccinia, Spore germination, Stem rust (grain), Temperature.
Abstract:
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- 12419-68
EFFECT OF PLANT SIZE ON RESISTANCE TO SNOWMOLD OF WINTER WHEAT.
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Plant Dis Rep 51(10):B15-B19, REF
Oct 1967 1.9 P69F
Crop varieties, Fungus diseases (plants), *Fusarium nivale*, Growth factors, Plant disease resistance, Snow mold (wheat), Wheat.
Plant size influenced the resistance of four winter wheats to *Typhula idahoensis* and *Fusarium nivale*, the two most serious snowmold pathogens of wheat in Washington CI 9542, CI 14106, Moro, and Nugaines were seeded at weekly intervals 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. resistance to snowmolds in winter wheat appears to be influenced by at least three mechanisms: inherent physiologic resistance to *T. idahoensis* and *F. nivale*, size of the plant prior to infection, and ability to conserve food reserves under long periods in the dark near freezing.
- 12420-68
INCIDENCE OF HALO BLIGHT IN IDAHO.
C L Butcher L L Dean L Lafertiere
Plant Dis Rep 51(4):D310
Apr 1967 1.9 P69F
Bacterial diseases (plants), Beans, Crop losses, Halo blight (beans).
- 12421-68
FIELD EXPERIMENTS ON SDGAR-BEET DOWNY MILDEW (*PERONOSPORA FARINOSA*).
W J Byford
Ann Appl Biol 60(1):97-107, REF.
Aug 1967 442.8 AN72
Chemical control (plant diseases), Downy mildew (sugar beets), *Peronospora farinosa*, Sugar beets.
- 12422-68
FUNGICIDAL CONTROL OF FABRAEA LEAFSPOT OF PEAR.
W A Chandler
Plant Dis Rep 51(4):257-261
Apr 1967 1.9 P69F
Chemical 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-tetrachloroethyl)-sulfenyl)-cis-4-cyclohexene-1,2-dicarboximide (Difolatan). controlled *Fabraea maculata* leafspot effectively on all but the highly susceptible Dabney variety. cycloheximide at 2 ppm was partially effective but was injurious to two varieties. a copper carbamate fungicide was effective on only two varieties. in another test on young "fold Home" pear trees, Difolatan provided excellent control of the leafspot for 3 months following the last application. tetrachloroisophthalonitrile (Daconil 27B7), cycloheximide, 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 provided satisfactory control of *F. maculata* on both foliage and fruit of most of the varieties tested.
- 12423-68
GERMINATION OF SCLEROTIA OF *SCLEROTIUM CEPIVORUM* BERK UNDER ASEPTIC CONDITIONS.
J R Coly-Smith J E King D J Dickinson R W Holt
Ann Appl Biol 60(1):109-115
Aug 1967 442.8 AN72
Sclerotium cepivorum, Seed germination.
- 12424-68
A TRANSMISSIBLE RED-RING DISEASE ON THE FRUIT OF DELICIOUS APPLES.
D L Coyier P W Cheney C L Farish
Plant Dis Rep 51(4):281-282
Apr 1967 1.9 P69F
Apples, Flat apple (apples), Plant diseases.
- 12425-68
FIELD EXPERIMENTS WITH OIL SPRAYS TO PREVENT YELLOW MOSAIC VIRUS IN IRISES.
M Deutsch G Loebenstein
Plant Dis Rep 51(4):318-319
Apr 1967 1.9 P69F
Iris, Mineral oil, Oils, Phosphamidon, Spraying, Virus diseases (plants).
- 12426-68
ANTIPYCNOLIC PHENOLIC ACIDS IN APPLE FRUITS AFTER INFECTION WITH *SCLEROTINIA FRUCTIGENA*.
C H Pawcett D M Spencer
Ann Appl Biol 60(1):87-96, REF.
Aug 1967 442.8 AN72
Apples, Brown rot (apples), Fungicides, Phenols, Plant disease resistance, *Sclerotinia fructigena*.
- 12427-68
PDSARIDM SCAB OF SORGHUM IN NIGERIA.
M C Putrell O J Webster
Plant Dis Rep 51(3):174-177 REF
Mar 1967 1.9 P69F
Fusarium moniliforme, Nigeria, Scab (sorghum), Sorghum, Thiram.
Abmadu Bello University, Institute for Agricultural Research, cooperating.
Fusarium moniliforme was found to be associated with seedling 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 *Fusarium* spp ninety percent of the *Fusarium* isolates were *F. moniliforme* and 10 percent were *F. roseum* f. *cerealis*. forty of the lines had 100 percent *Fusarium* 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 *Fusarium* 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 lower incidence of scab than seed grown and harvested in the wet season. seed produced during the dry season and treated with a seed dressing containing thiram had a low incidence of *Fusarium* when germinated.
- 12428-68
SUSCEPTIBILITY OF COMMON AND DDRDM SPRING WHEATS TO BARLEY YELLOW DWARF VIRUS.
C C Gill
Can J Plant Sci 47(5):571-576, REF.
Sep 1967 450 C16
Crop losses, Plant disease resistance, Wheat, Yellow dwarf (barley).
Abstract
- 12429-68
METHOD OF CONTROLLING SOIL FUNGI WITH BIS(CHLOROMETHYL)DISULFIDE. PATENT 3,360,430.
S L Giolito T B Williamson
US Patent Office Offic Gaz 845(4):1474
26 Dec 1967 156.65 OF2
Bis(chloromethyl)disulfide, Fungicides, Patents, Soil fungi.
- 12430-68
FUNGICIDAL 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), Fescue, Fungicides, Turf.
Abstract:
several different types of fungicides effectively reduced infection 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.

- 12431-68
RHIZOPUS ROT OF CHICORY IN FUNJAB, INDIA.
K Grover S S Sirohi
Plant Dis Rep 51(3):189-191
Mar 1967 1.9 P69P
Chicory, Rhizopus stolonifer, Rot (Chicory).
Rhizopus rot of Chicory (Cichorium intybus), a hitherto undescribed disease caused by rhizopus stolonifer (Ehr ex Fr) Lind, was found to be serious under field conditions. 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. injury and young inoculum seem to be predisposing factors for the development of the disease.
- 12432-68
INDEX TO GENERA OF PATHOGENS LISTED IN THE "INDEX OF 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 SULFOXIDE INHIBITION AND CONTROL OF PLANT VIRUS DISEASES. PATENT 3,334,012.
R J Herschler
US Patent Office Cific 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 PHAEOSARIOPSIS GRISPEOLA CAUSING CIRCULAR LEAF SPOT OF FRENCH BEANS.
D 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 USTILAGO AVENAE.
C S Holton
Plant Dis Rep 51(10):846-849
Oct 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 Agriculture 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 POPULATION DYNAMICS IN USTILAGO AVENAE AS RELATED TO THE PERSISTENCE OF LOOSE SMUT IN OATS.
C S Holton
Plant Dis Rep 51(10):844-846
Oct 1967 1.9 P69P
Crop varieties, Fungus diseases (plants), Loose smut (oats), Oats, Plant disease resistance, Ustilago avenae.
Washington Agricultural Experiment Station, Pullman, cooperating.
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 isodynamic in its potential for perpetuating the loose smut problem as a factor to consider in the further development of improved varieties.
- 12437-68
KEY FOR DETERMINATION OF THE MOST COMMON SPECIES OF THE GENUS ALTERNARIA (NEES) WILTSR. EMEND. JULY. (FR)
P Joly
Plant Dis Rep 51(4):296-297
Apr 1967 1.9 P69P
Alternaria, Fungus 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 Agriculture, Agricultural Research Service,
- 12438-68
CYTOSPORA CANCKER 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, Sour cherries.
Abstract:
cytospora sp was identified in cankers on sweet cherry and appeared to gain entrance through winter-injured tissue 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
Fungus 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 B 28(3):1D34B
Sep 1967 Z5D55.049D53
Agrobacterium tumefaciens, Cell wall.
- 12441-68
EFFECTS OF PLANTING DEPTH AND ASPHALT MULCH ON RHIZOCTONIA ROOT AND HYPOCOTYL ROT OF SNAPBEAN.
W J Manning D F Crossan D J Norton
Plant Dis Rep 51(3):158-16D
Mar 1967 1.9 P69P
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 than in the non-mulched rows. plants 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.
- 12442-68
SOURCES OF RESISTANCE IN THE GENUS GOSSYPIUM TO SEVERAL SOILBORNE PATHOGENS. (1)
D E Mathre J D Otta
Plant Dis Rep 51(10):864-866
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 Gossypium 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. arboreum, G. raimondii, G. harknessii, and G. barbadense.
- 12443-68
AN UNUSUAL OCCURRENCE OF EYE ROT OF APPLE IN CALIFORNIA DUE TO NECTRIA GALLIGENA.
W 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. occurred 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 USSR.
J R McGrew
Plant Dis Rep 51(4):28B-290
Apr 1967 1.9 P69P
Crinkle (strawberries), *Fragaria vesca*, Strawberries, USSR.
- 12445-68
INTERACTION OF RACE I AND RACE II OF COLLETTOTRICHUM
ORIBICULARE ON WATERMELON. (1)
D M McLean
Plant Dis Rep 51(10):885-887 REF
Oct 1967 1.9 P69P
Anthracnose (watermelons), *Colletotrichum orbiculare*,
Crop varieties, Fungus 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 easily
infected by race II, but leaves infected sub-lethally by
race I usually 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.
- 12446-68
A NEW RACE OF TILLETIA CARIES.
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
Farm 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*, *Fusarium solani*,
Ladino clover, Red clover, Root rot (clover).
U.S. Department of Agriculture, Agricultural Research
Service, Crops Research Division, cooperating.
Field 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 unclipped 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 *F. solani* were
isolated most frequently 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 PEACH,
POTATO, AND PCXGLOVE APHIDS.
L R Nault
J Econ Entomol 60(6):1586-1587
Dec 1967 421 J822
Acyrtosiphon solani, Enation mosaic (peas), Immunization,
Insect vectors, *Macrosiphum euphorbiae*, *Myzus persicae*, Peas,
Plant disease transmission.
Abstract
- 12449-68
VIRUSES MECHANICALLY TRANSMITTED FROM PEAR.
S Nemeec
Plant Dis Rep 51(4):283-286 REF
Apr 1967 1.9 P69P
Chenopodium, 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 *Chenopodium amaranticolor*
from pear leaves ground in sodium phosphate buffer contain-
ing cysteine hydrochloride and sodium diethyldithiocarb-
amate. 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 mech-
anically transmitted from the indicator pear variety, Bart-
lett No 13 (R-13), which previously had been inoculated
with seven pear sources all infected with the green ring
- mosaic virus.
- 12450-68
HOST RANGE, CHARACTERISTICS, AND PDRIPICATION OF PLDM. LINF
PATTERN VIRUS.
A O Paulsen
Diss Abstr Sect R 2B(3):763R-764R
Sep 1967 Z5055.049D53
Cuscuta campestris, *Cuscuta subinclusa*,
Host indexing (plants), Line pattern (plnms), *Myzus persicae*,
Plant disease transmission.
- 12451-68
SYNTHESIS OF INDOLEACETIC ACID BY CELL-FREE SYSTEMS FROM
PSEUDOMONAS SOLANACEARUM AND NICOTIANA TABACDM.
R H Phelps
Diss Abstr Sect B 2B(3):764R
Sep 1967 Z5055.049D53
Extracellular substances, Indoleacetic acid, Plant regulators,
Pseudomonas solanacearum, Tobacco, Tryptophan.
- 12452-68
TOMATO SPOTTED WILT VIRUS IN LETTUCE CROP IN ARGENTINA.
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
A STRAIN OF PSEUDOMONAS LAPSA ISOLATED FROM CORN SEEDS
CAUSING 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
17 corn varieties tested. It caused stalk rot in corn when
artificially inoculated, and also reduced the germination
percentage of corn seeds. The culture was compared with
three isolates of *Pseudomonas lapsa* obtained from different
sources. The present seed isolate was found to agree in
general 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
NATURAL SPREAD OF STEM PITTING VIRUS OF APPLE.
A E Rich
Plant Dis Rep 51(4):291-293
Apr 1967 1.9 P69P
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, sym-
ptoms developed in 16 of 90 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). Thus 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.
- 12455-68
INFLUENCE OF DAPPLE APPLE AND STEM PITTING VIRUSES ON TREE
GROWTH AND FRUIT YIELDS OVER A FOURTEEN-YEAR PERIOD.
A E Rich
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 fruit yields,
but it did reduce fruit quality and marketability. The stem
pitting virus greatly reduced tree growth and yield of
Cortland, McIntosh and Spy trees. Reduction in growth and
yield was greater when Florence Crab was used as a body
stock than when Virginia Crab was used for this purpose.

- 12456-68
A TECHNIQUE FOR LABELING CERATOCYSTIS ULMI WITH RADIO-CARBON. (1)
E R Roberts
Plant Dis Rep 51(10):803-805 REF
Oct 1967 1.9 P69P
Carbon isotopes, Ceratocystis ulmi, Conidia, Fungi, Radioactive tracers.
A method is reported for successfully labeling conidia of the Dutch elm disease fungus, Ceratocystis ulmi, with radiocarbon. a conidial suspension, prepared from 7- to 9-day-old cultures of C. ulmi, was added to basal media containing 300 microcuries of H-14-CO-3. washed, resuspended conidia of the fungus yielded significant levels of radioactivity after 72 hours. viability and pathogenicity of 14-C-labeled conidia are not adversely affected by the labeling procedure.
- 12457-68
PRECOGNATING STRAINS OF BARLEY YELLOW DWARF VIRUS IN NEW YORK: CHANGES DURING TEN YEARS.
W F Rochow
Plant Dis Rep 51(3):195-199
Mar 1967 1.9 P69P
Barley, Macrosiphum avenae, New York,
Plant disease transmission, Bhopalosiphum maidis, Bhopalosiphum padi, Schizaphis graminum,
Virus diseases (plants), Yellow dwarf (barley).
Cornell University Agricultural Experiment Station co-operating.
During 1965 and 1966 in New York, barley 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 most field-collected samples. subsequent comparative transmissions 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 near Ithaca, New York.
- 12458-68
HOST/PARASITE INTERACTION IN BLACKSPOT DISEASE OF ROSES
CAUSED BY DIPLOCARPON ROSAE WOLF.
P J W Saunders
Ann Appl Biol 60(1):129-136, REF.
Aug 1967 442.8 AN72
Black spot (rosa), Diplocarpon rosae,
Plant disease resistance, Rosa.
- 12459-68
PURPLE-TOE OF POTATOES IN GUATEMALA.
E Schieber
Plant Dis Rep 51(4):265-266
Apr 1967 1.9 P69P
Aster yellows (vegetables), Plant disease resistance, Potatoes.
- 12460-68
COLLAR CANKER OF COFFEE TREES IN GUATEMALA.
E Schieber G A Zentmyer
Plant Dis Rep 51(4):267-269
Apr 1967 1.9 P69P
Coffee.
Collar canker, caused by Helicohasidium compactum Boed., is described for the first time from coffee trees in two locations in Guatemala. the fungus causes some deterioration of the trees and loss of production, and is most severe on coffee grown without shade. control suggestions are made.
- 12461-68
METHYL ARSINE OXIDE METHOD OF CONTROLLING SOIL-BORNE PHYTHIUM FUNGI. PATENT 3,336,760.
A Schwerdtle
Os Patent Office Offic Gaz 841(5):1692
29 Aug 1967 156.65 OP2
Chemical control (plant diseases), Fungicides,
Fungus diseases (plants), Methyl arsine oxide, Patents,
Phythium, Soil fungi.
- 12462-68
RATE OF DECAY IN PINUS STROBUS FOLLOWING ARTIFICIAL INOCULATION WITH P. PINI.
S B Silverberg M J Larsen
Plant Dis Rep 51(10):829-831
Oct 1967 1.9 P69P
Fomes pini, Pinus strobus, Statistical analysis,
Tree diseases, Wood 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 advanced and intermediate zone of decay and in some instances 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 incipient stages, was 1.9 and 2.3 feet respectively.
- 12463-68
ERADICATION OF THE SEEDBORNE INOCULUM OF XANTHOMONAS ORYZAE BY HOT WATER TREATMENT OF PADDY SEEDS.
S K Sinha Y L Nene
Plant Dis Rep 51(10):882-883
Oct 1967 1.9 P69P
Bacterial diseases (plants), Hot water treatment (plants), Oxytetracycline, Rice, Seed treatment,
Seed-borne plant diseases.
Xanthomonas oryzae (Uyeda and Ishiyama) Dows, which causes the bacterial blight of paddy, is seedborne. although the recommendation for eradicating the bacterium from the seed calls for soaking the seed for 12 hours at room temperature 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
PROCESS FOR CONTROLLING SPRING DEAD SPOT ON GRASS.
PATENT 3,323,985.
W A Small
US Patent Office Offic Gaz 839(1):265
06 Jun 1967 156.65 OP2
Carbamates, Chemical control (plant diseases),
Dithiocarbamates, Fungicides, Grass sickness, Grasses,
Patents.
- 12465-68
OCCURRENCE OF TOBACCO DISEASES IN KENTUCKY IN 1966.
J H Sealey R A Flowers
Plant Dis Rep 51(10):866-867
Oct 1967 1.9 P69P
Kentucky, Plant diseases, Tobacco.
- 12466-68
OUTBREAKS AND NEW RECORDS. INDIA. EBGOT ON BARLEY.
D Suryanarayana
Fao Plant Protect Bull 15(1):19-20
Feb 1967 421 P692
Barley, Claviceps purpurea, Ergot, Fungus diseases (plants).
First record, Keylong, Himachal Pradesh, September, 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
Fungus diseases (plants), Lawns, Puccinia zoysiae,
Rust (grasses), Zoysia japonica.
- 12468-68
METHOD FOR CONTROL OF POWDERY MILDEW. PATENT 3,323,986.
K Van den Boogaart
Os Patent Office Offic Gaz 839(1):265
06 Jun 1967 156.65 OP2
Chemical control (plant diseases), Oithiocarbamates,
Fungicides, Patents, Powdery mildew (plants).
- 12469-68
SEED TRANSMISSION OF ABABIS MOSAIC VIRUS 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-borne plant diseases.
- 12470-68
EOPHORBIA LAGASCAE, A NEW HOST OF SCLEROTIUM ROLFII AND A ROOT-KNOT NEMATODE, MELOIDOGYNE HAPLA.
B E Waterworth J J Biggins A M Golden
Plant Dis Rep 51(3):164-166
Mar 1967 1.9 P69P

20 12471-68

Meloidogyne hapla, Necrosis, Oil plants, Plant nematodes, Sclerotium rolfsii.
Euphorbia lagascae Spreng is being studied as a potential new oil crop for the United States at the U. S. Plant Introduction Station, Glenn Dale, Maryland. plants in experimental field plots became heavily infested by the root-knot nematode, Meloidogyne hapla Chitwood, 1949. in plants where Sclerotium rolfsii had also infected the roots, seed yields were substantially reduced. the leaves of plants infected with the fungus became necrotic.

- 12471-68
TRANSMISSION OF EXOCORTIS VIRUS OF CITRUS TO HERBACEOUS PLANTS.
L G Weathers F C Greer M K Harjung
Plant Dis Rep 51(10):868-871
Oct 1967 1.9 F69P
Citron, Cuscuta, Exocortis (citrus), Petunia, Plant disease transmission, Plant grafting, Solanaceae, Virus diseases (plants).
Exocortis virus was transmitted from citron to citron and petunia by dodder, by grafting, and by various mechanical methods. the virus was transmitted from petunia to petunia and back to citron 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 infectious inoculum for mechanical transmission. in mechanical inoculations from petunia to petunia, transmissions were increased when the inoculum tissue was extracted in 0.1M Na-2-SO-3 at pH 8.0.
- 12472-68
METHOD OF DISINFECTING SEEDS. PATENT 3,366,538.
H Herres D Baumert R Rusch
US Patent Office Cific Gaz 846 (5):1571
30 Jan 1968 156.65 OF2
Chlorobenzyl isothiocyanate, para-, Fungicides, Patents, Seed treatment, Seeds.
- 12473-68
SCLEROTIUM ROLFSII AND ITS CONTROL ON TOMATO AND PEANUT.
P A Yung
Plant Dis Rep 51(4):314-316 REF
Apr 1967 1.9 F69P
Calcium nitrate, Crop rotation, Fertilizers, Peanuts, Sclerotium rolfsii, Southern blight (tomatoes), Stem rot (peanuts), Tomatoes.
Sclerotium 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 Laboratory at Jackscnville, Texas. the disease was controlled by crop rotation or by soil treatment with several fungant fungicides. Southern blight was the main cause of doubtfully profitable production of peanuts (Arachis hypogaea) near Pearssall, Texas for many years. it is controlled commercially by deep plowing, by pentachloronitrobenzene treatment of soil, by non-dirtng cultivation, and by dusting to control leaf diseases. these combined methods add about 50 to 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. no 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.
- 12474-6E
RECENT ADVANCES IN THE CONTROL OF SOIL FUNGI.
G A Zentmyer
Fao Plant Protect Bull 15(1):1-5
Feb 1967 421 F692
Biological control (weeds), Fumigants, Fungicides, Plant disease control, Plant disease resistance, Soil-borne plant diseases.
- 12475-68
OCCURRENCE OF A MOSAIC DISEASE OF SWEET SORGHUM IN FOUR SOUTHERN STATES.
N Zummo O H Coleman K Freeman
Plant Dis Rep 51(3):200-202
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.
- 12476-68
LOW-VOLUME AERIAL SPRAYING OF SEVERAL INSECTICIDES FOR COTTON-INSECT 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, Heliothis zea, Malathion, Methyl parathion, Strobane, Tde, Toxaphene.
Toxaphene or strobane mixed with a DDT and methyl parathion combination, and TOE with malathion
Abstract
- 12477-68
INSECTICIDIAL 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, Carbanates, 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
Oec 1967 421 J822
Chemical control (insects), Dimethoate, Oisulfoton, Insecticide application, Iris, Macroctua onusta, Phorate, Systemic insecticides.
Abstract
- 12479-68
LEAF DISK METHOD OF TESTING ALFALFA PLANTS FOR RESISTANCE TO FEEDING BY ADULT ALFALFA WEEVILS.
D K Barnes R H 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 AFFECTING FEEDING, OVIPOSITION, AND SURVIVAL OF THE SOUTHERN CORN ROOTWORM.
W V Campbell 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.
O L Chambers C Moffitt
J Econ Entomol 60(6):1748-1749
Dec 1967 421 J822
Chemical control (plant diseases), Citrus, Equipment, Insect rearing, Panonychus citri, Sodium hypochlorite, Virus diseases (plants).
- 12482-68
DISCOVERY OF THE PEA APHID PARASITE APHIDIUS SMITHI, IN CENTRAL MEXICO.
O W Clancy
J Econ Entomol 60(6):1743
Oec 1967 421 J822
Acyrthosiphon pisum, Alfalfa, Aphidius smithi, Parasitism.
Abstract
- 12483-68
FIELD EXPERIMENTS WITH STERILE MALES FOR ERADICATION OF THE BOLL WEEVIL.
T B Oavich M E Merkl E B Mitchell D D Hardee R T Gast
G H McKibben P A Huddleston
J Econ Entomol 60(6):1533-1538,MAP REF
Dec 1967 421 J822
Anthonomus grandis, Apholate, Chemosterilants, Cotton,

Arthropods

- Insecticide application, Sterilization.
Abstract
- 12464-6E
BIOLOGY OF THE CABBAGE LOOPER ON TOBACCO IN NORTH CAROLINA.
K D Elsey F L Rabb
J Econ Entomol 60(6):1636-1639
Dec 1967 421 JB22
Fluc-cured tobacco, Insect biology, Pseudoplusia includens, Tobacco, Trichoplusia ni.
Abstract
- 12485-68
GAMMA IRRADIATION OF PDPAE OF THE TOBACCO BDDWORM.
H M Flint E L Kressin
J Econ Entomol 60(6):1655-1659
Dec 1967 421 JB22
Cobalt, Gamma rays, Heliothis virescens, Sterilization.
Abstract
- 12486-6E
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
Dec 1967 421 JB22
Bathylpectes curculionis, Hypera postica, Parasitism, Parasitism.
Abstract
- 12487-68
SPATIAL ARRANGEMENT OF THE EGGS OF HYLEMYA BRASSICAE (BOUCHE), AND A SEQUENTIAL SAMPLING PLAN FOR USE IN CONTROL OF THE SPECIES.
O G Harcourt
Can J Plant Sci 47(5):461-467, REF.
Sep 1967 450 C16
Hylemya brassicae, Insect eggs, Sampling (statistics).
Abstract
- 12488-6E
CHEMOSTERILIZATION OF MALE EUROPEAN CORN BORERS BY FEEDING OF TEPA AND APHOLATE TO LARVAE.
J A Harding
J Econ Entomol 60(6):1631-1632
Dec 1967 421 JB22
Apholate, Chemosterilants, Ostrinia nubilalis, Sterilization, Tepa.
Abstract
- 12489-68
1967 INSECTICIDE RECOMMENDATIONS; APPLE INSECT CONTROL (COMMERCIAL).
C H Hill
Va Polytech Inst Ext Circ 1004, 8 P
Dec 1966 275.29 VB1C
Aphis pomi, Apples, Chemical control (insects), Extension work, Insecticides.
- 12490-6E
MINIMUM NUMBER OF INSECTICIDE APPLICATIONS FOR THE CONTROL OF THE EUROPEAN CORN BORER ON SWEET CORN IN QUEBEC.
M Hudcn
J Econ Entomol 61(1):75-78 BEF
Feb 1968 421 JB22
Carbaryl, Chemical control (insects), Odt, Insecticide application, Ostrinia nubilalis, Sweetcorn.
Abstract
- 12491-6E
THREE CICADELLID-SPECIES INJURIOUS TO AGRICULTURE (HEMIPTERA).
T Ishihara
Shikoku Entomol Soc Trans 9(3):63-67
May 1967 420 SH6
Cicadellidae, Eggplant, Sugarcane.
- 12492-68
INSECT SEX ATTRACTANTS. VIII. STRUCTURE-ACTIVITY RELATIONSHIPS IN SEX ATTRACTANT FOR MALE CABBAGE LOOPERS.
M Jacobson H H Toba J DeBolt A N Kishaba
J Econ Entomol 61(1):84-85
Feb 1968 421 JB22
Acetates, Alcohols, Sex attractants, Stereochemistry, Trichoplusia ni.
Abstract
- 12493-68
SYSTEMIC INSECTICIDES AS LYGDS BUG CONTROLS COMPATIBLE WITH BEE POLLINATION ON ALFALFA.
C Johansen J Eves
J Econ Entomol 60(6):1690-1696
Dec 1967 421 JB22
Alfalfa, Bee pollinators, Chemical control (insects), Dimethoate, Insecticide application, Irrigation, Lygus elisus, Lygus hesperus, Megachile rotundata, Sprinkler irrigation, Systemic insecticides, Toxicity.
Abstract
- 12494-68
STUDIES ON ANTIFEEDING PROPERTIES OF TRIPHENYL TIN ACETATE AGAINST THE TOBACCO CATERPILLAR, PRODENIA LITURA P.
B G Joshi G Ramaprasad C L Narayana
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, Homalodisca 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 ZONELLUS (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, Pearl millet, Sorghum.
Abstract
- 12497-68
BEHAVIOR OF THE SPOTTED ALFALFA APHID, TERIOAPHIS MACULATA (BUCKTON), ON RESISTANT AND SUSCEPTIBLE ALFALFAS.
S D Kindler
Diss Abstr Sect B 28(3):1274B-1275B
Sep 1967 Z5055.049D53
Alfalfa, Chlorophylls, Plant pest resistance, Terioaphis 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 JB22
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 REF
Dec 1967 421 JB22
Anticarsia gemmatilis, Heliothis zea, Host specificity, Peanuts, Spodoptera frugiperda, Stegasta bosqueella.
Abstract
- 12501-68
LESSER CORNSTALK BOREB DAMAGE TO PEANUT PLANTS.
O B Leuck
J Econ Entomol 60(6):1549-1551
Dec 1967 421 JB22
Chemical control (insects), Elasmopalpus lignosellus,

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2D 125D2-68

Insecticides, Peanuts.
Abstract

- 125D2-68
LOW-VOLUME DUSTS FOR CONTROL OF THE COTTON BOLLWORM.
C Lincoln G Dean
J Econ Entomol 60(6):1744-1745
Dec 1967 421 J822
Carbaryl, Cotton, Dusting, Heliothis zea, Methyl parathion, Shell SD-B447, Spraying, Tde.
Abstract:
Low-volume dusts gave an increase in percent control in all cases except one. Dupont 1179 (methyl n-((methylcarbamoyl)oxy)taioacetimidate) spray gave better control than the dust. The residual effectiveness of the low-volume dusts was equal to that of the sprays.
- 12503-68
COMPARISON OF THREE RATES OF APPLICATION OF DLTRA-LCW-VOLDME AZINPROSMETHYL IN A REPRODUCTION-DIAPADSE CONTROL PROGRAM AGAINST THE ROLL WEEVIL.
E P Lloyd F C Tingle M E Merkl E C Burt D R Smith T B Davich
J Econ Entomol 60(6):1696-1699
Dec 1967 421 J822
Anthonomus grandis, Azinphosmethyl, Chemical control (insects).
Abstract
- 12504-68
INHERITANCE OF RESISTANCE IN SWEETCLOVER TO THE SWEETCLOVER APBID.
G R Manqlitz H J Gorz
J Econ Entomol 61(1):9D-93
Feb 1968 421 J822
Plant genetics, Plant pest resistance, Sweetclover, Therioaphis riehmi.
Abstract
- 12505-68
SDPPESSION OF DROSOPHILA MELANOGASTER IN TOMATO FIELD PLOTS BY THE RELEASE OF FLIES STERILIZED BY APHOLATE.
R C Mason T J Renneberry F F Smith W L McGovern
J Econ Entomol 61(1):166-170
Feb 1968 421 J822
Apholate, Chemosterilants, Drosophila melanogaster, Sterilization, Tomatoes.
Abstract
- 12506-68
APELE MAGGCT ADULT DISPERSION IN A NEW BRDNSWICK APELE OBCHA5D.
C W Maxwell
J Econ Entomol 61(1):1D3-106
Feb 1968 421 J822
Apples, Fluorescent dyes, Insect dissemination, Insect traps, Rhagoletis pomonella.
Abstract
- 12507-68
PSEUDCPLUSIA INCLDDENS: A PEST OF FLORICULTURAL CROPS IN SOUTHERN CALIFORNIA.
F S Morishita R N Jefferson S T Besemer W A Humphrey
J Econ Entomol 60(6):1758
Dec 1967 421 J822
Greenhouses, Ornamental plants, Pseudoplusia includens.
- 12508-68
LABORATORY TESTS WITH PROMISING INSECTICIDES FOR CONTROL OF ADULT AND LARVAL STABLE FLIES.
G A Monnt J R Gahan C S Loigren
J Econ Entomol 60(6):1600-1602
Dec 1967 421 J822
Chemical control (insects), Insecticides, Larvae, Stomoxys calcitrans, Toxicity.
Abstract
- 12509-68
LEUCINODES ORBONALIS GUEN. (LEPIDOPTERA: PYRALIDAE) AS A SEVERE PEST OF SCIATO PLANTS IN MYSORE STATE.
K R Nair
Indian J Entomol 29(1):96-97
Mar 1967 420 IN23
Leucinodes orbonalis, Potatoes.
- 12510-68
REACTION OF CORN TO THE FEEDING OF THE WHEAT CDRL MITE.
L F Nault E L Briones
J Econ Entomol 61(1):31-32
Feb 1968 421 J822
Aceria tulipae, Corn, Crop varieties, Host specificity.
- Abstract
- 12511-68
THE RELATIONSHIP OF ARTHROPOD PREDATORS TO CROP DAMAGE INFLICTED BY THE SDGARCANE BORER.
A A Negr S D Hensley
J Econ Entomol 60(6):1503-1506
Dec 1967 421 J822
Azinphosmethyl, Diatraea saccharalis, Endrin, Reptactlor, Plant injuries, Predaceous insects, Sugarcane.
Abstract
- 12512-68
SODRCES OF ALFALFA SEED CHALCID RESISTANCE IN ALFALFA.
M W Nielson M R Schonhorst
J Econ Entomol 60(6):1506-1511
Dec 1967 421 J822
Alfalfa, Biological control (insects), Bruchofagns roddi, Plant pest resistance.
Abstract
- 12513-68
AN EXPERIMENTAL SPRAY PROGRAM FOR INTEGRATED CONTROL OF INSECTS AFFECTING SOUR CHERRY.
E R Oatman
J Econ Entomol 61(1):62-64 REP
Feb 1968 421 J822
Bacillus thuringiensis, Caterpillars, Conotrachelus nenuphar, Dodine, Endrin, Integrated control (insects), Pesticide application, Soil sanitation, Sour cherries, Spraying, Thiricide.
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 myopaerformis.
Abstract
- 12515-68
STRATEGY OF INTEGRATED PEST CONTROL.
S Pradhan
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 NDRITION.
A Retnakaran
Diss Abstr Sect B 28(3):1283R-1284R
Sep 1967 Z5055.D49D53
Acyrthosiphon pisum, Broadbeans, Insect nutrition.
- 12517-68
HYDROCYANIC ACID AND OTHER PDMIGANTS FOR CONTROL OF LARVAE OF PLEMELIELLA ABIETINA AND MEGASTIGMUS SP. IN IMPORTED SPRDCE SEED.
H H Richardson H Roth
J Econ Entomol 61(1):214-216
Feb 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, Forage plants, Insecticides, Insects, Malathion, Red clover.
- 12519-68
1967 INSECTICIDE RECOMMENDATIONS; INSECTS OF CABBAGE, BROCCOLI, CADLIFLOWER, AND BRDSSLS SPRODTS.
J O Rowell
Va Polytech Inst Ext Circ 1020,4 P
Dec 1966 275.29 VB1C
Broccoli, Brussels sprouts, Cabbage, Cauliflower, Chemical control (insects), Extension work, Insecticides.

- 1252D-68
1967 INSECTICIDE RECOMMENDATIONS; INSECTS OF GROWING CHRISTMAS TREES.
J O Bwell
Va Polytech Inst Ext Circ 1032,4 P
Dec 1966 275.29 V81C
Chemical control (insects), Christmas trees, Extension work, Forest insects, Insecticides, Trees.
- 12521-68
1967 INSECTICIDE RECOMMENDATIONS; PESTS OF GREENHOUSE TOMATOES.
J O Rowell
Va Polytech Inst Ext Circ 1031,4 P
Dec 1966 275.29 V81C
Chemical control (insects), Extension work, Greenhouse culture, Insecticides, Tomatoes.
- 12522-68
1967 INSECTICIDE RECOMMENDATIONS; INSECTS OF TOMATOES.
J O Rowell
Va Polytech Inst Ext Circ 1025,4 P
Dec 1967 275.29 V81C
Chemical control (insects), Extension work, Insecticides, Tomatoes.
- 12523-68
1967 INSECTICIDE RECOMMENDATIONS; INSECTS OF IRISH POTATOES.
J O Rowell
Va Polytech Inst Ext Circ 1024,4 P
Dec 1966 275.29 V81C
Chemical control (insects), Extension work, Insecticides, Potatoes.
- 12524-68
RELATIONSHIP BETWEEN THE TARNISHED PLANT BUG AND DEFORMED COTTON PLANTS.
A L Scales R E Furr
J Econ Entomol 61(1):114-118
Feb 1968 421 J822
Cotton, Crop yields, *Lygus lineolaris*, Plant abnormalities.
Abstract
- 12525-68
COMPARISONS OF SOIL AND FOLIAR APPLICATIONS OF ACARICIDES FOR CONTROL OF THE TWO-SPOTTED SPIDER MITE ON STRAWBERRIES IN SOUTHERN CALIFORNIA.
H H Shorey R L Hale V Voth
J Econ Entomol 60(6):1722-1724
Dec 1967 421 J822
Acaricides, Chemical control (insects), Foliar application, Soils, Strawberries, *Tetranychus urticae*.
Abstract
- 12526-68
SUCCESSIVE GERMINATION OF BOLLWORMS ON COTTON IN FIELD CAGES.
E A Stadellbacher
J Econ Entomol 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 BORNWORM, TOMATO BORNWORM, AND COBN EARWORM IN TRAPS EQUIPPED WITH BLACKLIGHT LAMPS IN NORTH CAROLINA.
P A Stewart C B Gentry C M Knott J J Lau
J Econ Entomol 61(1):43-46
Feb 1968 421 J822
Heliothis zea, Insect populations, Light traps, *Manduca quinquemaculata*, *Manduca sexta*, Tobacco.
Abstract
- 12528-68
EFFECTS OF ORGANOMETALLIC COMPOUNDS ON LEPIDOPTERA.
D O Wolfenbarger A A Guerra W L Lowry
J Econ Entomol 61(1):78-81
Feb 1968 421 J822
Caterpillars, Germane compounds, *Belitobis virescens*, *Heliothis zea*, Lead compounds, Organic compounds, *Trichoplusia ni*.
Abstract
- 12529-68
INSECT ABUNDANCES ON TOMATOES AND SQUASH MULCHED WITH ALUMINUM AND PLASTIC SHEETINGS.
D O Wolfenbarger W D Moore
J Econ Entomol 61(1):34-36
Feb 1968 421 J822
Aluminum foil, Aphididae, *Apis mellifera*, *Diaphania nitidalis*, Insect populations, *Liriomyza*, *Mulches*, *Myzus persicae*, Plastics, Squash, Tomatoes.
Abstract
- 1253D-68
CONTROL OF THE CABBAGE LOOPER AND COBN EARWORM WITH NUCLEAR POLYHEDROSIS VIRUSES.
K L Woodall L P Ditsan
J Econ Entomol 60(6):1558-1561 REF
Dec 1967 421 J822
Biological control (insects), Broccoli, *Heliothis zea*, Polyhedroses, *Trichoplusia ni*.
Abstract
- 12531-68
METHOD OF KILLING NEMATODES WITH BIS(1,2-DICHLOROETHYL) SULFONE, PATENT 3,362,87D.
P C Aichenegg
Us Patent Office Offic Gaz 846(2):568
09 Jan 1968 156.65 OP2
Bis(1,2-dichloroethyl) sulfone, Chemical control (nematodes), Nematocides, Patents, Plant nematodes.
- 12532-68
THE INFLUENCE OF CERTAIN ENVIRONMENTAL FACTORS ON THE RESPIRATION OF SOME PLANT-PARASITIC NEMATODES.
B D Bhatt
Diss Abstr Sect 8 28(3):1128B
Sep 1967 Z5055.D49D53
Environment, Plant nematodes, Respiration.
- 12533-68
SOYBEAN CYST NEMATODE FOUND IN LOUISIANA.
W Birchfield R Motsinger
Plant Dis Rep 51(10):823
Oct 1967 1.9 P69P
Heterodera glycines, Louisiana, Plant nematodes, Soybeans, Louisiana State University, Cooperative Extension service, cooperating.
- 12534-68
SUITABILITY OF KOBE LESPEDEZA FOR REPRODUCTION OF ISOLATES OF THE SOYBEAN CYST NEMATODE FROM NINE LOCATIONS. (1)
J M Epps A M Golden
Plant Dis Rep 51(9):775-776
Sep 1967 1.9 P69P
Heterodera glycines, Host specificity, *Lespedeza striata*, Plant nematodes.
Tennessee Agricultural Experiment Station, Jackson, cooperating.
Isolates of the soybean cyst nematode, *Heterodera glycines* Ichinobe, 1952, reproduced on *Lespedeza striata* 'Kobe', in greenhouse experiments. Some variations occurred in the rates of reproduction, but all isolates were highly pathogenic and could not be differentiated on this host. The results of these experiments show that *Kobe lespedeza* can serve as an important host for all of the nine isolates of the soybean cyst nematodes tested from six States.
- 12535-68
FACTORS INFLUENCING THE POPULATION FLUCTUATION OF PRATYLENCHUS PENETRANS IN SOILS OF HIGH ORGANIC CONTENT. I. EFFECT OF SOIL FUMIGANTS AND DIFFERENT CROP PLANTS.
J M Ferris
J Econ Entomol 60(6):1708-1714 REF
Dec 1967 421 J822
Mentha, Onions, Plant nematodes, Population statistics, Potatoes, *Pratylenchus penetrans*, Soil fumigation.
Abstract
- 12536-68
NATURE OF THE NEMATODE PROBLEM IN LOUISIANA RICE FIELDS.
J P Hollis
Plant Dis Rep 51(3):167-169
Mar 1967 1.9 P69P
Plant nematodes, Rice.
Abstract:

Nematodes

20 12537-68

examinations of rice root systems, soil profiles, and nematode populations from oxidized soil layers below the biologically-reduced zones in Louisiana rice fields have provided conclusive evidence for the first time that parasitic nematodes constitute an important economic problem in rice culture.

12537-66

REDUCTION OF ROOT KNOT OF TOMATOES WITH CROP RESIDUE AMENDMENTS IN FIELD EXPERIMENTS.

L F Johnson A Y Chambers H E Reed

Plant Dis Rep 51(3):219-222 REF

Mar 1967 1.9 P65P

Dihromo-3-chloropropene, 1,2-, Dichloropropene, 1,3-, Ethylene dichloride, Hay, Meloidogyne incognita, Nematocides, Oat straw, Plant nematodes, Plant residues, Tomatoes.

Nature, dried crop residues, chopped to about 1/8-inch particle size, were incorporated into soil in field plots infested with Meloidogyne incognita. Root-knot severity was determined on tomatoes planted in the amended plots. alfalfa hay, cat straw, lespedeza hay, and flax hay amendments each reduced root-knot infection. More reduction was obtained when residues were added at the rate of 10 than at 5 tons per acre, and when residues were added 8 months prior to assaying than for shorter incubation periods. In general, nematocides were superior to crop residues.

12538-66

THE POPULATION GENETICS OF THE POTATO CYST-NEMATODE, HETERODERA OSTOCHIENSIS: MATHEMATICAL MODELS TO SIMULATE THE EFFECTS OF GROWING EELWORM-RESISTANT POTATOES BRED FROM SOLANUM TUBEROSUM SSP ANDIGENA.

F G W Jones D M Farrott G J S Ross

Ann Appl Biol 60(1):151-171, REF.

Aug 1967 442.8 AN72

Heterodera rostochiensis, Mathematical analysis,

Plant nematode resistance, Potatoes.

12539-66

METHOD FOR CONTROLLING MICROORGANISMS AND NEMATODES.

PATENT 3,361,621.

G E Lukes

US Patent Office Offic Gaz 846(1):231

02 Jan 1968 156.65 OF2

Nematocides, Patents, Plant nematodes, Thiocyanates.

12540-68

PRATYLENCHUS PENETRANS, ITS INTERACTION WITH VERTICILLIUM ALBICATUM IN THE VERTICILLIUM WILT OF POTATOES AND ITS ATTRACTION BY VARICUS CHEMICALS.

F Morsink

Diss Abstr Sect B 28(3):762E-763B

Sep 1967 25055.049D53

Plant nematodes, Potatoes, Pratylenchus penetrans,

Verticillium albi-atrum.

12541-68

OBSERVATIONS ON THE EFFECT OF SAWDUST ON INCIDENCE OF ROOT KNOT AND ON YIELD OF OKRA AND TOMATOES IN NEMATODE-INFESTED SOIL. (1)

R S Singh E Singh S P S Renival

Plant Dis Rep 51(10):861-863

Oct 1967 1.9 P69P

Crop yields, Meloidogyne javanica, Okra, Plant nematodes, Root knot (okra), Root knot (tomatoes), Sawdust, Tomatoes. Field experiments on silt loam soil infested with Meloidogyne javanica have shown that intensity of galls formed on okra and tomato roots is appreciably reduced if sawdust at the rate of 2000 lb/acre is mixed with the soil 3 weeks before planting. The nitrogen deficiency in fresh sawdust-amended soils is effectively counteracted by the application of balanced NPK fertilizers at the time of planting. Sawdust and fertilizer amendments to infested soil reduced the number of galls per infested plant to one-half or one-fourth of that found on plants growing in untreated plots and increased okra yield by about 70 percent and tomato yield by about 125 percent over the check.

12542-68

CITRUS NEMATODE FOUND WIDESPREAD IN FLORIDA.

A C Tarjan

Plant Dis Rep 51(4):317

Apr 1967 1.9 P69P

Citrus, Plant nematodes, Tylenchulus semipenetrans.

12543-68

EFFECTS OF HOST SPECIES ON POPULATION CHANGES OF PRATYLENCHUS PENETRANS (CORE, 1917) FILIPJEV AND SCHUURMANS STEKHOVEN, 1941.

K Y Wcng

Diss Abstr Sect B 28(3):1294B

Sep 1967 25055.049D53

Mentha piperita, Onions, Plant nematodes, Potatoes,

Pratylenchus penetrans.

Weeds

12544-68

DARKNESS AND THE ACTIVITY OF DIQUAT AND PARAQUAT ON TOMATO, BROAD BEAN AND SUGAR BEET.

R C Brian

Ann Appl Biol 60(1):77-85, REF.

Aug 1967 442.8 AN72

Broadbeans, Diquat, Herbicides, Light, Parquat, Sugar beets, Tomatoes.

12545-68

METHOD OF SELECTIVELY DESTROYING WEEDS. PATENT 3,332,768.

H E Freund R Rusch

US Patent Office Offic Gaz 840(4):1264

25 Jul 1967 156.65 OF2

Anilides, Chemical control (weeds), Herbicides, Patents,

Weeds.

12546-68

THE EFFECT OF TWO HERBICIDES, BROMOXNYL AND DICAMBA, ON THE TRANSPIRATION OF TARTARY BUCKWHEAT AND BARLEY.

H A Friesen D A Dew

Can J Plant Sci 47(5):533-537

Sep 1967 450 C16

Barley, Bromoxnyl, Buckwheat, Crop yields, Dicamba,

Herbicides, Plant transpiration.

Abstract

12547-68

SKELETON WEED A SERIOUS THREAT TO CALIFORNIA AGRICULTURE.

T C Fuller

Calif Dept Agr Bull 55(1):20-22, 31

1966 2 C12M

Chemical control (weeds), Chondrilla juncea, Plants, Weeds.

12548-68

INFLUENCE OF TEMPERATURE ON PHYTOTOXICITY OF TRIAZINE HERBICIDES TO PINE SEEDLINGS.

T T Kozlowski S Sasaki J H Torrie

Amer J Bot 54(6):790-796 REF

Jul 1967 450 AM36

Chemical control (weeds), Herbicides, Phytotoxicity, Plant injuries, Seedlings, Temperature, Trees, Weed control.

12549-68

TOLERANCE OF FLAX TO DICAMBA APPLIED TO THE FOLIAGE AND TO THE SOIL.

E S Molberg

Can J Plant Sci 47(5):593-596

Sep 1967 450 C16

Chemical control (weeds), Dicamba, Flax, Herbicide residues, Soils.

Extract:

flax is susceptible to injury from root uptake of dicamba. soil applications caused definite reductions in growth. however, when there were both root uptake and foliage absorption, as in the overall spray injury to flax was still greater. this suggests that foliar damage may be quite significant if there is some concurrent uptake from the soil as well.

12550-68

INOCULATION OF MONTEREY PINE WITH DWARF MISTLETOE FROM RISHOP PINE.

J R Parmeter F W Cobb

Plant Dis Rep 51(10):856

Oct 1967 1.9 P69P

Arceuthobium campylopodum, Parasitic plants, Pinus radiata, Trees.

12551-68

PYRIDAZONES AND METHOD FOR CONTROLLING VEGETATION. PATENT 3,326,660.

F Reicheneder K Dury A Fischer

US Patent Office Offic Gaz 839(3):1092

20 Jun 1967 156.65 OF2

Chemical control (weeds), Herbicides, Patents, Fyridazones, weed control.

- 12552-66
METHOD FOR KILLING POTATO VINES WITH AMMONIA.
PATENT 3,331,675.
P L Veltman
US Patent Office Offic Gaz 840 (3):908
18 Jul 1967 156.65 OF2
Ammonia, Climbing plants, Herbicides, Patents, Potatoes, Weeds.
- 12553-66
SIMULTANEOUS CONTROL OF FIELD CRYSTAL GRASS, SILKY BENT GRASS, AND BROAD LEAFED WEEDS. (GE)
B Wurzer
Mitt Deut Landwirt-ges 82 (24) 0846,848
15 Jun 1967 18 N39
Agrostis spica-venti, Weeds, Wheat.
- 12554-68
A CONTRIBUTION TO THE STUDY OF CONTROL OF WEEDS IN SOYBEAN STANDS. (SE)
T Zupancic
Poljoprivredni Pregl. 15 (718) 0273-281 REF
Jan 1966 21.5 F753
Crop yields, Soybeans, Weed control.

Other Pests

- 12555-66
THE EFFECTS ON WILDLIFE FROM NORWAY RAT CONTROL USING ZINC PHOSPHIDE BAIT.
E D Collins
Calif Dept Agr Bull 55 (3):139-141
1966 2 C12M
Baits, Pest control, Rattus norvegicus, Rodenticides, Toxicity, Wildlife, Zinc phosphide.

30 LIVESTOCK PROTECTION

- 12556-68
VERTEBRAL BIOPSIES IN THE DIAGNOSIS OF BOVINE FLUORIDE TOXICOSIS.
S W Suttie
Amer J Vet Res 28 (124):709-712 REF
May 1967 41.8 AM3A
Biopsy, Cattle, Fluorides, Poisoning, Toxicosis, Vertebrae.

Diseases

- 12557-68
FURTHER STUDIES ON PORCINE ENTEROVIRUSES ISOLATED AT CAMBRIDGE. I. INFECTIONS IN SPF PIGS AND THE PREPARATION OF MONOSPECIFIC ANTISERA. II. SEROLOGICAL GROUPING.
T S L Alexander A O Betts
Res Vet Sci 8 (3), 321-337 REF
Jul 1967 41.8 R312
Antigens, Germ-free life, Porcine enteroviruses, Serological tests, Swine.
Abstract
- 12558-68
HUMAN RESPONSES TO EXPERIMENTAL INFECTION WITH INFLUENZA A/EQUI 2 VIRUS.
B H Alford J A Kasel J R Lehrich V Knight
Amer J Epidemiol 86 (1) 0185-192 REF
Jul 1967 449.8 AM3
Equine influenza viruses, Horses, Humans.
- 12559-68
AMERICAN VETERINARY MEDICAL ASSOCIATION. SCIENTIFIC PROCEEDINGS OF THE 104TH ANNUAL MEETING, JULY 9-13, 1967, DALLAS, TEXAS.
Amer Vet Med Ass J 151 (12):1577-1917
15 Dec 1967 41.8 AM3
Conferences, Veterinary medicine.
- 12560-68
EFFECT OF LINCOMYCIN HYDROCHLORIDE UPON EXPERIMENTAL BOVINE COCCIDIOSIS.
A Arakawa R E Kohls A C Todd
Amer J Vet Res 28 (124) 0653-657
May 1967 41.8 AM3A
Cattle, Coccidiosis.
- 12561-68
AGGLUTINATION TEST FOR SHEEPPOX VIRUS USING ANTIGLOBULIN.
M Baharsefat B Yamini
Cornell Vet 57 (4): 558-563
Oct 1967 41.8 C81
Agglutination test, Sheeppox virus.
Abstract
- 12562-68
LISTERIOZ SEL'SKOKHOZYAISTVENNYKH ZHIVOTNYKH (LISTERIOSIS OF LIVESTOCK). SP849.L583. (RUS)
I A Bakulov
296P., MAP. MOSKVA, KOLOS, 1967
Infectious diseases, Listeriosis, Livestock.
- 12563-68
PULMONARY BOVINE TUBERCULOSIS IN AN OWNER AND IN HIS DAIRY HERD.
J H Baldwin
Cornell Vet 58 (1):81-87
Jan 1968 41.8 C81
Animal vectors, Cattle, Humans, Mycobacterium bovis, Tuberculosis.

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INFECTIOUS BRONCHITIS VIRUS INTERFERENCE WITH NEWCASTLE DISEASE VIRUS IN MONOLAYERS OF CHICKEN KIDNEY CELLS.
C W Beard
Avian Dis 11(3):399-406 REF
Aug 1967 41.8 AV5
Culture media, Infectious bronchitis virus, Newcastle disease virus, Poultry.
Abstract
- 12565-68
THE IMMUNE RESPONSE OF CHICKENS TO NEWCASTLE DISEASE VACCINE FF 113.
K Belino P V Arambulo
Indian Vet. J. 44(7):549-554
Jul 1967 41.8 IN2
Immunization, Newcastle disease vaccines, Philippines.
Abstract
- 12566-68
CYTOGENETIC STUDIES IN CANINE LYMPHOSARCOMA.
S A Benjamin F Noronha
Cornell Vet 57(4): 526-542. REF.
Oct 1967 41.8 C81
Cytogenetics, Dogs, Lymphosarcoma.
Abstract
- 12567-68
MYCOPLASMA GALLISEPTICUM IN A COMMERCIAL LARYNGITIS VACCINE.
W J Benton M S Cover F W Melchior
Avian Dis 11(3):426-429 REF
Aug 1967 41.8 AV5
Infectious laryngotracheitis, Mycoplasma gallisepticum, Newcastle disease virus, Poultry, Vaccines.
Abstract
- 12568-68
STUDIES ON THE TRANSMISSION OF THE INFECTIOUS BURSAL AGENT (IBA) OF CHICKENS.
W J Benton M S Cover J K Rosenberger
Avian Dis 11(3):430-438 REF
Aug 1967 41.8 AV5
Environment, Gumboro disease, Mycoplasma gallisepticum, Poultry.
Abstract
- 12569-68
OSTEOCHONDRITIS DISSECANANS IN THE HEMIPAL HEAD OF THE DOG; COMPARISON OF RESULTS ACHIEVED WITH CONSERVATIVE AND SURGICAL TREATMENT.
R Birkeland
Nord Veterinaermed 19(6):294-306, REF.
Jun 1967 41.8 N813
Bone diseases, Dogs, Osteochondritis.
Abstract
- 12570-68
ECOLOGIC ASPECTS OF LISTERIOSIS.
D C Blendin F T Szatalowicz
Amer Vet Med Ass J 151(12):1761-1766 REF
15 Dec 1967 41.8 AM3
Cattle, Ecology, Listeria monocytogenes, Listeriosis, Sheep.
Abstract
- 12571-68
SWINE TOXICOSIS ASSOCIATED WITH PDMIGATED GRAIN.
J P Bone D H Smith D C England R L Goulding
Amer Vet Med Ass J 150(9):1022-1026
01 May 1967 41.8 AM3
Carbon tetrachloride, Ethylene dibromide, Ethylene dichloride, Feed toxicity, Fumigation, Grain, Humans, Insecticides, Poisoning, Swine.
Abstract
- 12572-68
INCLUSION-BODY RHINITIS OF PIGS: ATTEMPTS TO GROW THE CAUSAL AGENT IN TISSUE CULTURES.
J C Booth R F W Goodwin P Whittlestone
Res Vet Sci 8(3): 338-345
Jul 1967 41.8 R312
Inclusion-body rhinitis virus, Swine, Tissue culture.
Abstract
- 12573-68
THE EFFECTS OF VITAMIN D IN CHICKS.
A B Bosmann
Diss Abstr Sect B 2B(3):1128B-1129B
Sep 1967 Z5055.049D53
Chicks, Feed supplements, Vitamin D.
- 12574-68
STUDIES ON BLUETONGUE. III. COMPARISON OF TWO COMPLEMENT-FIXATION METHODS.
P Bonlanger G M Buckerbauer G L Bannister D P Gray A Girard
Can J Comp Med Vet Sci 31(7):166-170 REF
Jul 1967 41.8 C162
Bluetongue virus, Cattle, Complement fixation, Guinea pigs, Sheep.
Summary in French
Abstract
- 12575-68
BLUETONGUE OF SHEEP AND CATTLE: PAST, PRESENT, AND FUTURE.
J G Bovne A J Luedke M M Jochim
Amer Vet Med Ass J 151(12):1801-1803 REF
15 Dec 1967 41.8 AM3
Bluetongue virus, Cattle, Culicoides variipennis, Insect vectors, Serological tests, Sheep, Vaccines, Wildlife.
- 12576-68
DIE LISTERIOSE DES RINDS; SCHRIFTTUMSUBERSICHT. (LISTERIOSIS OF CATTLE; LITERATURE SURVEY).
P Brauer
Hanover Tierarztl Hochschule Inang Diss 23,95 P.
1966 41.2 H198
Cattle, Listeriosis, Reviews.
- 12577-68
HYPOMAGNESEMIA IN CATTLE. I. INCIDENCE, AETIOLOGY, DIAGNOSIS AND TREATMENT.
K N Burns B Allcroft
Brit Vet J 123(8):340-348 REF
Aug 1967 41.8 V643
Cattle, Hypomagnesemia, Tetany.
Abstract
- 12578-68
RATES OF FORMATION AND ABSORPTION OF CEREBROSPINAL FLUID IN BOVINE HYPOVITAMINOSIS A.
M C Calboun H D Hurt H D Eaton J E Rousseau R C Hall
J Dairy Sci 50(9):1486-1494 REF
Sep 1967 44.8 J822
Cattle, Cerebrospinal fluid, Hypovitaminosis.
Abstract
- 12579-68
EFFECT OF INCUBATION TEMPERATURE AND SEBUM CONTENT IN AGAR OVERLAY ON PLAQUE FORMATION BY FOOT-AND-MOUTH DISEASE VIRUS.
C H Campbell
Can J Comp Med Vet Sci 31(10):251-255 REF
Oct 1967 41.8 C162
Culture media, Foot-and-mouth disease virus, Platelets, Serum, Temperature.
- 12580-68
IMMUNOLOGIC COMPETENCE OF THYMECTOMIZED NEONATAL CALVES.
E J Carroll G H Theilen R L Leighton
Amer J Vet Res 29(1):67-70 REF
Jan 1968 41.8 AM3A
Cattle, Immunology, Leukemia, Thymectomy.
Abstract
- 12581-68
BOVINE PAPULAR STOMATITIS WITH APPARENT TRANSMISSION TO MAN.
C A Carson K M Kerr
Amer Vet Med Ass J 151(2):183-187
15 Jul 1967 41.8 AM3
Animal vectors, Humans.
Abstract
- 12582-68
MYCOBACTERIUM AVIDIA INFECTION IN CATTLE: A CASE REPORT.
D R Cassidy L G Morehouse H A McDaniel
Amer J Vet Res 29(2):405-410, MAP. REF
Feb 1968 41.8 AM3A
Cattle, Mycobacterium avium.
Abstract
- 12583-68
VICTORY OVER BRUCELLOSIS NEABS IN CALIFORNIA.
E F Chastain L C Vandervagen
Calif Dept Agr Bull 55(3):135-138
1966 2 C12M
Brucella abortus vaccines, Brucellosis, Bradication, Immunization, Livestock.

- 12584-68
EFFECT OF DIET ON DIETHYLSTILBESTROL ON FATTY ACID COMPOSITION OF SWINE TISSUES.
D C Church A T Ralston W H Kennick
J Anim Sci 26(6):1296-1301 REF
Nov 1967 49 J82
Cattle, Chromatography, Diet, Diethylstilbestrol, Fatty acids, Feed additives, Tissues.
Abstract
- 12585-68
KONTROLLIERTE BEHANDLUNGSVERSUCHE BEI FREMDKORPERKANKEN RINDERN MIT DEM KAFIG-MAGNETEN; MODELL RINDERKLINIK HANOVER (CONTROLLED-TREATMENT EXPERIMENTS WITH PERMANENT MAGNETS OF FOREIGN BODY DISEASED CATTLE (HANOVER CATTLE CLINIC MODEL). (GE)
C Clausen
Hanover Tierarztl Sochsbch Inang Diss 26,24 P. REF
1966 41.2 B198
Cattle, Foreign bodies, Magnets, Peritonitis.
Beticuloperitonitis traumatica
- 12586-68
SEGREGATION OF A NONHEMADSORBING AFRICAN SWINE FEVER VIRUS IN TISSUE CULTURE.
L Coggins
Cornell Vet 58(1):12-20
Jan 1968 41.8 C81
African swine fever virus, Baby pigs, Leukocytes, Tissue culture.
Abstract:
infection of porcine buffy coat (BC) cultures with African swine fever (ASF) virus results in two distinct reactions: benadsorption followed by cytolysis of infected leukocytes.
- 12587-68
SYSTEMIC MYCOSIS IN NEONATAL CALVES.
U O Cordes W A Royal E B Shortridge
New Zeal Vet J 15(8):143-149, REF.
Aug 1967 41.8 H483
Calves, Mycosis.
Abstract
- 12588-68
NATURALLY OCCURRING HISTOPLASMOSIS IN GUINEA PIGS.
W M Correa A C Pacbeco
Can J Comp Med Vet Sci 31(8):203-206 SEP
Aug 1967 41.8 C162
Guinea pigs, Histoplasmosis.
Abstract
- 12589-68
TRANSMISSION EXPERIMENTS WITH 8 AT BABIES ISOLATES: RESPONSES OF CERTAIN CARNIVORES AND RODENTS TO BACTERIAL VIRUSES FROM POUSS SPECIES OF BATS.
D G Cestantine G C Solomon D F Woodall
Amer J Vet Res 29(1):181-190 REF
Jan 1968 41.8 AM3A
Bats, Babies virus, Rodents.
Abstract
- 12590-68
CARDIOVASCULAR SYSTEM IN NATURALLY OCCURRING COPPER DEFICIENCY AND SWAYBACK IN SHEEP.
W F Conlson R M Barlow P A Cancilla M Weissman A Linker J Waisman W B Carnes
Amer J Vet Res 28(124):0815-818
May 1967 41.8 AM3A
Copper, Deficiency diseases, Sheep, Swayback.
- 12591-68
EFFECTS OF ATTENUATED HOG CHOLERA VIRUS IN PREGNANT SWINE AT VARIOUS STAGES OF GESTATION.
W O Cowart L G Morehouse
Amer Vet Med Ass J 151(12):1788-1794 REF
15 Dec 1967 41.8 AM3
Hog cholera virus, Pregnancy, Swine.
Abstract
- 12592-68
DIETARY SODIUM AND POTASSIUM IN INFECTIOUS BRONCHITIS OF CHICKENS.
R B Cumming
Australian Vet J 43(4):156
Apr 1967 41.8 AU72
Chickens, Infectious bronchitis, Potassium, Sodium.
- 12593-68
AN INDIRECT HAEMAGGLUTINATION TEST FOR THE DIAGNOSIS OF BABESIA ARGENTINA INFECTION IN CATTLE.
J A Curnow B A Curnow
Australian Vet J 43(8):286-290
Aug 1967 41.8 AU72
Agglutination, Babesia argentina, Piroplasmosis.
Abstract
- 12594-68
IN VITRO AGGLUTINATION OF BOVINE ERYTHROCYTES INFECTED WITH BABESIA ARGENTINA.
J A Curnow
Nature 217(5125):267-268
20 Jan 1968 472 N21
Agglutination, Babesia argentina, Cattle, Erythrocytes, Piroplasmosis.
- 12595-68
THE USE OF FLAQUE MORPHOLOGY IN THE STUDY OF NEWCASTLE DISEASE VIRUS.
M D Daniel
Diss Abstr Sect 8 28(3):779B
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Blood, Newcastle disease virus.
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NOTE ON A SIMPLIFIED ION EXCHANGE METHOD FOR SULFAMETHAZINE IN FEEDS.
E J Davis
Ass Offic Anal Chem J 50(4):870-872
Aug 1967 381 AS7
Feed additives, Ion exchange, Sulfamethazine.
- 12597-68
TREATMENT OF ARTERIOSCLEROTIC DISEASES. PATENT 3,337,406.
P T De Marco L J Salerno
Us Patent Office Offic Gaz 841(4):1279
22 Aug 1967 156.65 OF2
Arteriosclerosis, Atherosclerosis, Immunization, Patents, Polyvinylpyrrolidone, Vaccines.
- 12598-68
MUCINASE ACTIVITY OF VIBRIO FETUS.
S M Dennis
Cornell Vet 57(4): 630-637 SEP
Oct 1967 41.8 C81
Cattle, Vibrio fetus.
Abstract
- 12599-68
METHOD AND COMPOSITIONS FOR ENHANCING THE UTILIZATION OF IRON BY MAMMALS. PATENT 3,367,834.
M Dexter J V Princiotto M Rubin
Us Patent Office Offic Gaz 847(1):230
06 Feb 1968 156.65 OF2
Amines, Animal nutrition, Chelation, Iron, Mammals, Patents.
- 12600-68
A VIRAL GASTROENTERITIS OF ONTARIO SWINE. I. CLINICAL ILLNESS AND RECOVERY OF THE VIRUS.
J Ditchfield H G Pearce R D Jolly R A Curry
Can J Comp Med Vet Sci 31(8):193-196
Aug 1967 41.8 C162
Intestines, Swine, Transmissible gastroenteritis virus.
Abstract
- 12601-68
A PRELIMINARY EVALUATION OF SEROLOGIC TESTS FOR EQUINE INFECTIOUS ANEMIA.
W J B Ditchfield G H Waddell V R Sanrino M B Teigland
Amer Vet Med Ass J 151(12):1840-1846
15 Dec 1967 41.8 AM3
Diagnosis, Equine infectious anemia, Horses, Serological tests.
Abstract
- 12602-68
STREPTOMYCIN TREATMENT OF BOVINE CARRIERS OF LEPTOSPIRA POMONA.
P C Doherty
Australian Vet J 43(4):138-139
Apr 1967 41.8 AU72
Animal vectors, Cattle, Leptospira pomona, Streptomycin.
Abstract
- 12603-68
THE EFFECT OF FEEDING OXYTETRACYCLINE ON LEPTOSPIRURIA IN PIGS INFECTED WITH LEPTOSPIRA POMONA.
P C Doherty I D Baynes

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Apr 1967 41.8 AU72
Leptospira pomona, Oxytetracycline, Urine.
Abstract
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MYCOPLASMA SALPINGITIS OF CHICKENS AND TURKEYS.
C H Deermuth W B Gross R T DuBose
Avian Dis 11(3):393-398
Aug 1967 41.8 AV5
Mycoplasma gallisepticum, Poultry, Salpingitis.
- 12605-68
ACUTE HAEMORRHAGIC ENTERITIS ASSOCIATED WITH WELCHIA
PERFRINGENS IN ZEEU CATTLE IN SENEGAL. (FR.)
M P Doutre
Rev Elevage Med Vet Pays Trop (N.S.) 20(2):345-347
1967 41.8 R3262
Cattle, Enteritis.
Abstract
- 12606-68
FIRST OBSERVATION OF BETA C BOTULISM IN SWINE IN
SENEGAL. (FR.)
M P Doutre
Rev Elevage Med Vet Pays Trop (N.S.) 20(2):331-333
1967 41.8 R3262
Botulism, Clostridium botulinum, Swine.
Abstract
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EVALUATION OF GENERAL COURSE OF ERYTHROCYTE SEDIMENTATION
CURVE IN HORSES. I. (GE)
J Dusek
Arch Exp Veterinarmed 21(2):577-592
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Erythrocyte sedimentation reaction, Horses.
Abstract
- 12608-68
EFFECT OF DIETARY ORGANIC PHOSPHORUS ON MAGNESIUM
METABOLISM IN SHEEP.
J E Dutton J P Fontenot
J Anim Sci 26(6):1409-1414 REF
Nov 1967 49 J82
Diet, Hypomagnesemia, Magnesium, Metabolism, Phosphorus,
Sheep.
Abstract
- 12609-68
A RAPID SCREENING TEST FOR DETECTING SALMONELLA
TYPHIMURIUM INFECTION IN POULTRY.
M A El-Agrud I M Sadek
Arab Vet Med Ass J 26(3):235-240 Ref
Jul 1966 41.9 Ar1
Diagnosis, Poultry, Salmonella typhimurium, Serological tests.
Abstract
- 12610-68
BUQUINOLATE, A NEW BROAD SPECTRUM COCCIDIOSTAT.
A T Engle E P Humphrey C A Johnson
Poultry Sci 46(4):789-795
Jul 1967 47.8 AM33F
Buquinolate, Coccidiostats, Eimeria.
- 12611-68
PASTEURILLOSIS IN WILD BIRDS IN MASSACHUSETTS.
G F Faddoul G W Fellows J Baird
Avian Dis 11(3):413-418 REF
Aug 1967 41.8 AV5
Birds, Epizootic diseases, Pasteurellosis.
Abstract
- 12612-68
THE PRESENCE OF ANTIBODIES IN THE OVINE SERUM INHIBITING THE
HEMAGGLUTINATION BY MYXOVIRUS PARAINFLUENZA. (FR)
P Paye A Chartron C Le Layec
Acad Vet France Bull 40(4):203-207 REF
Apr 1967 41.9 R24
Agglutination, Antibodies, Blood, Parainfluenza-3, Serum,
Sheep, Viruses.
- 12613-68
TREATMENT AND CHEMICAL CONTROL OF THE BRUCELLIC ABORTION OF
CATTLE WITH 4,4'-DIAMIDINO-2,6-DIAMINOBENZENE. (FR.)
B Fiocre
Acad Vet France Bull 40(4):159-167
Apr 1967 41.9 B24
Abortion, Berenil, Brucellosis, Cattle.
- 12614-68
EFFECT OF BOVINE COCCIDIOSIS ON BLOOD SEBUM SODIUM AND
POTASSIUM LEVELS IN CALVES.
P F Fitzgerald
Amer J Vet Res 28(124):667-670
May 1967 41.8 AM3A
Blood serum, Cattle, Coccidiosis, Potassium, Sodium.
- 12615-68
VERSUCHE ZUR BIOLOGISCHEN BEKÄMPFUNG DER
STAPHYLOKOKKEN-MASTITIS (EXPERIMENTS ON BIOLOGICAL
CONTROL OF STAPHYLOCOCCAL MASTITIS). (GE)
K Forster
17,42 P.
1966 41.2 M9222
Biological control, Cattle, Livestock diseases, Mastitis,
Nisin, Staphylococci.
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Abscesses, Precipitin test, Streptococcus bacterins, Swine.
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Blackhead, Cecal worms, Heterakis gallinarum, Poultry.
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Histology, Strongyloides ransomi, Swine.
Abstract

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Diptera, Farms, Grain, Household pests, Insect pests, Insecticide resistant insects, Pest control, Rodents, Stored products.
English and Danish texts

Storage Diseases

12776-68

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Plant Dis Rep 51(10):820-822

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Captan, Chemical control (plant diseases), Crownvetch coronilla, Fungicides, Fungus diseases (plants), Fusarium roseum, Maneb, Pesticide application, Storage diseases, Tiram.

12783-68

NEEM SEED AS A PROTECTANT AGAINST BRUCHID CALLOSORHUCHUS MACULATUS (FABRICIDS) INFESTING SOME LEGUMINOS SEEDS.

M G Jotwani P Sircar

Indian J Entomol 29(1):21-24

Mar 1967 420 IN23

Azadirachta indica, Callosorhuchus maculatus, Insect repellents, Legumes, Seeds, Stored products. Abstract.

12784-68

A TRAP FOR THE DETECTION AND RECOVERY OF INSECTS IN STORED GRAIN.

S R Loschiavo J M Atkinson

Can Entomol 99(11):1160-1163

Nov 1967 421 C16

Grain, Insect traps, Sampling (statistics), Storage. Abstract

12785-68

SOME INSECTICIDAL TRIALS FOR THE PROTECTION OF TIL SEEDS IN STORAGE.

P B Mookberjee B N Bose

Indian J Entomol 29(1):103-104

Mar 1967 420 IN23

Ddt, Dieldrin, Endrin, Insecticides, Lindane, Pyrethrum, Seed germination, Sesame, Stored products, Tribolium castaneum.

12786-68

PESTS OF STORED PRODUCTS. SB937 .M8.

J W Munro

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Insect control, Insect pests, Legislation, Mites, Stored products.

12787-68

STUDIES ON THE EFFECT OF AIRTIGHTNESS ON THE DEVELOPMENT OF TRIBOLIUM CASTANEDM HERBST (COLEOPTERA: TENERIONIDAE) IN WHEAT AND WHEAT FLOUR.

B P Sinha P B Mookberjee

Indian J Entomol 29(1):79-83

Mar 1967 420 IN23

Air, Flour, Insect physiology, Storage, Tribolium castaneum, Wheat. Abstract

12788-68

CLIMATE AND POTENTIAL RANGE OF DISTRIBUTION OF STORED-PRODUCT MITES IN JAPAN.

R N Sinha

J Econ Entomol 61(1):70-75, MAP REF

Feb 1968 421 J822

Climate, Insect pests, Mites, Stored products, Temperature, Zoogeography. Abstract

12789-68

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Fao Plant Protect Bull 15(1):21-23

Feb 1967 421 P692

Forest insects, Lumber, Lumberyards, Quercus, Sawmills, Swietenia, United States, Wood borers.

12790-68

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Entomol Soc Queensland J 6(2):89-90

31 Dec 1967 420 EN823

Acrotelsa collaris, Household insects, Thysanura. Abstract

12791-68

DETERMINATION OF APHIDS IN HOPS.

R G Wright

Ass Offic Anal Chem J 50(3):499-501

Jun 1967 381 AS7

Aphididae, Flotation, Food contamination, Hops, Iodine. Abstract

12777-68

NOTE ON A LABORATORY SAMPLING PROCEDURE FOR DETERMINING APHIDS IN HOPS.

P M Brickley W V Eisenberg

Ass Offic Anal Chem J 50(3):520-521

Jun 1967 381 AS7

Aphididae, Flotation, Food contamination, Hops, Sampling (statistics).

12778-68

DETECTION OF LEAF MINERS IN CANNED SPINACH AND TURNIP GREENS.

R F Brown

Ass Offic Anal Chem J 50(3):515-518

Jun 1967 381 AS7

Aphididae, Arthropoda, Flotation, Food contamination, Pongonia hyoscyami, Spinach, Turnip greens. Abstract

12779-68

EXTIBANEUCUS MATERIALS IN MUSHROOMS.

R F Brown

Ass Offic Anal Chem J 50(3):514-515

Jun 1967 381 AS7

Food contamination, Maggots, Micrometers, Mushrooms. Abstract:

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12780-68

RESPIRATION OF THE CONFUSED FLOUR BEETLE IN FIVE ATMOSPHERES OF VARYING CO₂:O₂ RATIOS.

S D Carlson

J Econ Entomol 61(1):94-96

Feb 1968 421 J822

Atmosphere, Carbon dioxide, Insect respiration, Oxygen, Tribolium confusum. Abstract

12781-68

RESPIRATION OF CONFUSED FLOUR BEETLE ADULTS IN CO₂ O₂ N₂ AND AFTER SUFFOCANT FUMIGATION.

S D Carlson

J Econ Entomol 61(1):125-131 BEF

Feb 1968 421 J822

Atmosphere, Carbon dioxide, Carbon disulfide, Carbon tetrachloride, Fumigation, Insect respiration, Nitrogen, Tribolium confusum. CCL4:CS₂ 80:20 mixture. Abstract

12782-68

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Microbial Contamination

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Food contamination, Salmonella.
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DILUTION METHOD FOR MOLD COUNT OF CATSUP.
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Ass Offic Anal Chem J 50(3):509-513
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Food contamination, Ketchup, Molds, Statistical analysis, Tomatoes.
Abstract
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Aug 1967 41.8 AV5
Eggs, Food contamination, Microorganisms, Pseudomonas.
Abstract

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IDENTIFICATION OF AIR POLLUTION DAMAGE TO AGRICULTURAL CROPS.
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Calif Dept Agr Bull 55(1):11-19
1966 2 CL2M
Air pollution, Crop losses, Gases.
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ULTRASONIC EXTRACTION OF INSECTICIDES. I. COMPARISON OF EXTRACTION METHODS AND SOLVENT SYSTEMS OVER THREE TIME INTERVALS.
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J Econ Entomol 60(6):1679-1682
Dec 1967 421 J822
Dieldrin, Heptachlor epoxide, Soils.
Abstract
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EFFECT OF DETERGENTS AND INORGANIC SALTS IN WATER ON THE PERSISTENCE AND MOVEMENT OF INSECTICIDES IN SOILS.
E P Lichtensteiñ T W Fuhremann K R Schulz R F Skrentny
J Econ Entomol 60(6):1714-1721 REP
Dec 1967 421 J822
Aldrin, Detergents, Insecticide residues, Parathion, Sodium chloride, Soils, Water.
Abstract

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RESIDUES IN FOODS. (CHLORINATED PESTICIDES).
Ass Offic Anal Chem J 49(1):222-229
Feb 1966 381 AS7
Chlorinated hydrocarbons, Dairy products, Food contamination,
Fruit, Insecticide residues, Vegetables.
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THIN-LAYER CHROMATOGRAPHIC DETERMINATION OF CARBARYL
(SEVIN) IN SOME FOODS.
W R Benson
Ass Offic Anal Chem J 46(4):736-738
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Carbamates, Carbaryl, Chromatography, Food contamination,
Fruit, Insecticide residues, Vegetables.
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DETERMINATION OF 3-AMINO-1,2,4-TRIAZOLE IN CROPS.
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Amitrole, Canned food, Food contamination, Frozen food, Grain,
Herbicide residues, Meal, Vegetables.
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cial Agricultural Chemists.
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Acaricides, Chlorinated hydrocarbons, Insecticides,
Pesticide residues.
Abstract
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CHROMATOGRAPHY AND ULTRAVIOLET SPECTROPHOTOMETRY.
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Ass Offic Anal Chem J 50(4):934-938
Aug 1967 381 AS7
Biphenyl, Chromatography, Citrus, Fungicides,
Pesticide residues, Spectrophotometry.
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C A Edwards E R Dennis D W Empson
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Soils.
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Anal Chem 36(1):221-224, REF.
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Food contamination, Fruit, Fungicides, Pesticide residues,
Spectrophotometry, Thiocarbamates, Vegetables.
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J Dairy Sci 50(9):1512-1514 REF
Sep 1967 44.8 J822
Cattle, Ddt, Insecticide residues, DDE.
Abstract
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EFFECT OF DIFFERENT SOIL TILLAGE METHODS ON RESIDUAL AFTER-
EFFECT OF SIMAZINE. ВЛИЯНИЕ РАЗЛИЧНЫХ СПОСОБОВ ОСНОВНОЙ
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Kb Kh Khahitrahmanov
Zemledelie 5(9):62-63
Sep 1967 20 Z44
Insecticide residues, Simazine, Soils, Tillage.
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FIELD WEATHERING OF TOXAPHENE AND CHLORDANE.
A K Klein J C Link
Ass Offic Anal Chem J 50(3):586-591
Jun 1967 381 AS7
Chlordane, Ddt, Insecticide residues, Kale, Rainfall,
Toxaphene, Vegetables, Weather.
Abstract
- 12808-68
DETERMINATION OF NICOTINE RESIDUES ON FOODS.
R J Martin
Ass Offic Anal Chem J 50(4):939-940
Aug 1967 381 AS7
Chromatography, Food, Insecticide residues, Mustard greens,
Nicotine.
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EFFECT OF THYROPROTEIN AND A LOW-ENERGY RATION ON REMOVAL OF
DDT FROM LACTATING DAIRY COWS.
D D Miller
J Dairy Sci 50(9):1444-1447 REF
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Dairy cattle, Ddt, Insecticide residues, Lactation,
Thyroprotein.
Abstract
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Ass Offic Anal Chem J 50(4):922-926
Aug 1967 381 AS7
Carbophenothion, Chromatography, Epn, Ethion, Fruit,
Insecticide residues, Malathion, Organophosphorus compounds,
Parathion, Phorate, Thiophosphates, Vegetables.
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DIMETHOATE RESIDUES IN EGGS AND TISSUES OF LAYING HENS.
M Sherman M T Y Chang
J Econ Entomol 60(6):1552-1554
Dec 1967 421 J822
Dimethoate, Eggs, Insecticide residues, Poultry, Tissues.
Abstract
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REPORT ON FUNGICIDES, FUMIGANTS, AND MISCELLANEOUS.
R W Storberr
Ass Offic Anal Chem J 50(4):933-934
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Fumigants, Fungicides.
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MICRODETERMINATION OF PHOSPHORUS.
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Phosphorus, Spectrophotometry, Urine.
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Handbooks, Pesticide application, Pesticides.

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 Acetylcholine, Atropine, Coumaphos, Dogs, Mice, Toxicity, Trichlorfon.
- 12816-68
 RESPONSE OF PINEAPPLE ORANGE TREES TO SELECTED PETROLEUM OIL FRACTIONS.
 H A Dean C E Hoelscher
 J Econ Entomol 60(6):166B-1672 REF
 Dec 1967 421 JB22
 Diaspididae, Leaf drop (taxus), Oranges, Petroleum, Pineapples.
 Abstract
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 I Fox I G Eayona H I Orozco
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 Ampromium, Coccidiostats, Laboratory animals, Zoalene. Experiment on laboratory animals.
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 Cats, Dogs, Ethylene glycol, Poisoning.
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 Biological assay, Culicidae, Insect repellents, Programming (computers), Statistical analysis.
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 R G McLean
 Diss Abstr Sect B 28(3):1277B
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 Apholate, Bird control, Chemical control (pests), Chemosterilants, Figeons.
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 Cattle, Grubs, Insecticides, Poisoning, Toxicology.
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 Antidotes, Cattle, Organophosphorus compounds, Oximes, Poisoning.
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65 PLANT PHYSIOLOGY AND BIOCHEMISTRY

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Patents, Plant regulators, Seed germination.
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Anesthesia, Oogs, Narcosis.
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R J Herschler
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Dimethyl sulfoxide, Patents, Plant regulators.
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PLANT DEFOLIATION PROCESS AND COMPOSITION. PATENT 3,342,582.
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Cotton, Patents, Plant regulators.
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E W Addor
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Carbamates, Chemical control (insects), Insect control, Insecticides, Patents, Sulfur compounds.
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Chemical control (insects), Chemical control (weeds), Herbicides, Insecticides, Patents.
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A D Argoudelis R F Herr D J Mascn
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Antibiotics, Armentomycin, Bactericides, Patents, Streptomyces armentosus.
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A D Argoudelis J H Coats
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Antibiotics, Antiseptics, Aspergillus nidulans, Asperlin, Bactericides, Patents.
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Alkyd resins, Chemical control (weeds), Halogenated hydrocarbons, Herbicides, Patents.
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