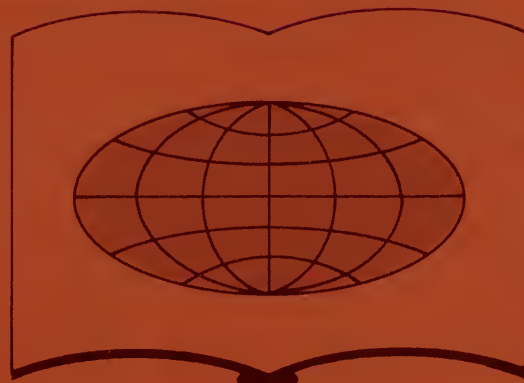


Pesticides DOCUMENTATION BULLETIN

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MARCH 29, 1968

Number 7



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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

PESTICIDES DOCUMENTATION BULLETIN

A BI-WEEKLY PUBLICATION OF

U. S. DEPARTMENT OF AGRICULTURE

Volume 4

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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.

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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

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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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10 ENTOMOLOGY

Systematics

- 7761-68
BEEKEEPERS REQUEST FOR PESTICIDE BAN IS DENIED.
Agr Chem 17(9) 81
Sep 1962 381 AG8
Bees, Legislation, Pesticides.
- 7762-68
PRELIMINARY EVALUATION OF LINDANE AND HEPTACHLOR CRYSTALS FOR PROTECTION OF CRATED FURNITURE AGAINST INSECT DAMAGE.
R E Bry L L McDonald D F Davis
J Sci Food Agr 12(4) I-207-7
Apr 1961 382 S012
Furniture, Heptachlor, Insects, Lindane.
- 7763-68
INSECT CONTROL BY GAMMA-IRRADIATION AN APPRAISAL OF THE POTENTIALITIES AND PROBLEMS INVOLVED.
P B Cornwell J O Bull
J Sci Food Agr 12(3) I-151-1
Mar 1961 382 S012
Insect control, Irradiation, Sterilization.
- 7764-68
EFFECTS OF ALDRIN AND DDT ON SOIL FAUNA AND ARABLE LAND.
C A Edwards E B Dennis
J Sci Food Agr 12(6) I-279-3
Jun 1961 382 S012
Aldrin, Coleoptera, Diptera, DDT, Nematodes.
- 7765-68
EFFICIENCY OF GRANULATED INSECTICIDES BY SOLVENTS USED FOR IMPREGNATION.
M S Mulla H Axelrod
J Sci Food Agr 12(4) I-169-8
Apr 1961 382 S012
Biological assay, Culicidae, Parathion.
- 7766-68
DIMETILAN BAIT, FLY RIBBONS AND CORDS FOR CONTROL OF HOUSE FLIES.
C N Smith G C LaBrecque H G Wilson R A Hoffman E M Jones
J Sci Food Agr 12(4) I-207-2
Apr 1961 382 S012
Diazinon, Dimetilan, Fly traps, Musca domestica, Parathion.
- 7767-68
MODIFIED CAR-TOP INSECT TRAP FUNCTIONAL TO 45MPH.
K M Sommerman
Entomol Soc Amer Ann 60(4) 857
17 Jul 1967 420 EN82
Ephemeroptera, Humidity, Insect traps, Tipulidae, Vehicles.
- 7768-68
EFFECTIVENESS OF LIQUEFIED-GAS-PROPELLED CONCENTRATED ALLETHRIN AEROSOLS AND AIR-ATOMISED DIBROM AEROSOLS AGAINST NORMAL AND RESISTANT HOUSE FLIES.
W N Sullivan A H Yeomans M S Schechter
J Sci Food Agr 12(4) I-207-3
Apr 1961 382 S012
Allethrin, Insecticide resistant insects, Musca domestica, Naled.
- 7769-68
ANALYSIS OF JOINT ACTION OF INSECTICIDES AGAINST HOUSE FLIES.
Y P Sun E R Johnson
J Sci Food Agr 12(4) I-207-1
Apr 1961 382 S012
Insecticides, Musca domestica.
- 7770-68
NEGATIVE RESULTS FROM TREATING THE AMERICAN COCKROACH, PERR-PLANETA AMERICANA WITH CARRAGEENIN.
N D Addy A G Richards
Entomol Soc Amer Ann 58(3) 402-403, 6 REFS.
May 1965 420 EN82
Periplaneta.
- 7771-68
LIFE HISTORY OF AEROPEDELLUS CLAVATUS (ORTHOPTERA ACRIDIDAE) IN THE ALPINE TUNDRA OF COLORADO.
G Alexander J R Hilliard Jr
Entomol Soc Amer Ann 57(3) 310-317, 16 REFS., 6 FIGS.
May 1964 420 EN82
Aeropedellus, Colorado.
- 7772-68
METHODS FOR DISTINGUISHING NULLIPAROUS FROM PAROUS FLIES AND FOR ESTIMATING THE AGES OF FANNIA CANICULARIS AND SOME OTHER CYCLORRAPHOUS DIPTERA.
J R Anderson
Entomol Soc Amer Ann 57(2) 226-236, 10 REFS., 5 TABS., 8 FIGS.
Mar 1964 420 EN82
Diptera, Fannia, Reproduction.
- 7773-68
SOME RELATIONSHIPS BETWEEN GRASSHOPPERS AND VEGETATION.
N L Anderson
Entomol Soc Amer Ann 57(6) 736-742, 34 REFS., 3 TABS.
Nov 1964 420 EN82
Grasshoppers, Vegetation.
- 7774-68
TWO NEW TRIBES OF RHYPAROCHROMINAE A RE-EVALUATION OF THE LETHAEINI (HEMIPTERA-HETEROPTERA LYGAEIDAE).
P D Ashlock
Entomol Soc Amer Ann 57(4) 414-422, 12 REFS., 3 FIGS.
Jul 1964 420 EN82
Hemiptera, Heteroptera, Insect taxonomy, Lethaeini, Lygaeidae, Rhyparochrominae.
- 7775-68
PHORETIC RELATIONSHIP OF SOME COMMON MANURE-INHABITING MACROCHELIDAE, (ACARINA MESOSTIGMATA) TO THE HOUSE-FLY.
R C Axtell
Entomol Soc Amer Ann 57(5) 584-587, 9 REFS., 6 TABS.
Sep 1964 420 EN82
Acarina, Macrochelidae, Musca domestica.
- 7776-68
NEW BLATTISOCID MITES (ACARINA MESOSTIGMATA) RECOVERED FROM NEOTROPICAL FLOWERS AND HUMMINGBIRDS NARES.
E W Baker C E Yunker
Entomol Soc Amer Ann 57(1) 103-127, 130 FIGS.
Jan 1964 420 EN82
Acarina, Flowers, Mesostigmata, Mites, Rhinoseius, Tropicoseius.
- 7777-68
PATTERNS IN THE HOST-FEEDING HABIT OF ADULT PARASITIC HYMENOPTERA.
B R Bartlett
Entomol Soc Amer Ann 57(3) 344-350, 18 REFS., 3 TABS.
May 1964 420 EN82
Hymenoptera.
- 7778-68
HUMIDITY AND THE EMERGENCE OF BRUCHOPHAGUS KOLOBOVAE (HYMENOPTERA EURYTOMIDAE) AND ITS PARASITES FROM TREFOIL SEEDS.
W C Batiste
Entomol Soc Amer Ann 60(4) 752-756
17 Jul 1967 420 EN82
Birdsfoot trefoil, Bruchophagus kolobovae, Emergence, Humidity, Parasitism, Seeds, Tetrastichus bruchophagi, Trimeromicrus maculatus.
Abstract

BIBLIOGRAPHY

10 7779-68

- 7779-68
HIPPELATES COLLUSOR (DIPTERA CHLOROPIDAE) AS A HOST FOR FOUR SPECIES OF PARASITE HYMENOPTERA IN SOUTHERN CALIFORNIA.
E C Bay E F Legner R Medved
Entomol Soc Amer Ann 57(5) 582-584, 6 REFS.
Sep 1964 420 EN82
California, Chloropidae, Hymenoptera, Parasitic insects.
- 7780-68
STUDY OF THE POPLAR SAWFLY, TRICHIOCAMPUS VIMINALIS (FALL.) (HYMENOPTERA TENTHRIDINIDAE.) FR
R Beique
Can Entomol 93(12) 1085-1097, REF.
01 Dec 1961 421 C16
Parasitic insects, Populus, Predaceous insects, Tenthredinidae, Trichiocampus viminalis.
Host plants, morphology, life history, natural controls, and ecology.
- 7781-68
THE ADULTS AND PUPA OF CULEX (C.) KESSELI FROM TAHITI AND REMARKS ON THE ATRICEPS GROUP (DIPTERA CULICIDAE).
J N Belkin
Entomol Soc Amer Ann 57(2) 236-239, 1 REF.
Mar 1964 420 EN82
Atriceps, Culex, Culicidae, Tahiti.
- 7782-68
A REARING TECHNIQUE FOR THE COLONIZATION OF CHIRONOMID MIDGES.
K D Biever
Entomol Soc Amer Ann 58(2) 135-136, 3 REFS.
Mar 1965 420 EN82
Chironomidae, Insect rearing.
- 7783-68
A NEW GENUS OF DUFOREINE BEE FROM TEXAS (HYMENOPTERA HALICTIDAE).
G E Bohart
Entomol Soc Amer Ann 58(3) 319-321, 11 FIGS.
May 1965 420 EN82
Dufourea, Halictidae, Insect taxonomy, Michenerula, Texas.
- 7784-68
BARK BEETLES OF THE GENUS DRYOCOETES (COLEOPTERA SCOLYTIDAE) IN NORTH AMERICA.
D E Bright Jr
Entomol Soc Amer Ann 56(1) 103-115, 14 REFS., 2 TABS.
Jan 1963 420 EN82
Dryocoetes, Insect ecology, Insect morphology, Scolytidae.
- 7785-68
THE NORTH AMERICAN SPECIES OF APROSTOCETUS WESTWOOD (HYMENOPTERA EULOPHIDAE).
B D Burks
Entomol Soc Amer Ann 60(4) 756-760
17 Jul 1967 420 EN82
Aprostocetus, Insect taxonomy, North America.
Abstract
- 7786-68
TYPHLODROMUS AND AMBLYSEIUS (ACARINA PHYTOSELIIDAE) AS PREDATORS ON ORCHARD MITES.
R W Burrell W J McCormick
Entomol Soc Amer Ann 57(4) 483-487, 4 REFS.
Jul 1964 420 EN82
Acarina, Amblyseius, Typhlodromus.
- 7787-68
THE LIFE HISTORY OF PANORPA NUPTIALIS (MECOPTERA PANORPIDAE).
G W Byers
Entomol Soc Amer Ann 56(2) 142-149, 9 REFS., 1 TAB.
Mar 1963 420 EN82
Insect morphology, Panorpa.
- 7788-68
A PHOTOELECTRIC-PHOTOGRAPHIC ANALYSIS OF FLIGHT BEHAVIOR IN THE CORN EARWORM, HELIOTHIS ZEA, AND OTHER MOTHS.
P S Callahan
Entomol Soc Amer Ann 58(2) 159-169, 14 REFS., 26 FIGS.
Mar 1965 420 EN82
Heliothis zea, Insect flight, Moths, Photoelectric effects, Photography.
- 7789-68
INTERMEDIATE AND FAR INFRARED SENSING OF NOCTURNAL INSECTS. PART I. EVIDENCES FOR A FAR INFRARED (FIR) ELECTROMAGNETIC THEORY OF COMMUNICATIONS AND SENSING IN MOTHS AND ITS RELATIONSHIP TO THE LIMITING BIOSPHERE OF THE CORN EARWORM.
P S Callahan
Entomol Soc Amer Ann 58(5) 727-745, 32 REFS., 13 FIGS., 5 TABS.
Sep 1965 420 EN82
Electromagnetic waves, Heliothis zea, Infrared rays, Moths, Noctuidae.
- 7790-68
INTERMEDIATE AND FAR INFRARED SENSING OF NOCTURNAL INSECTS. PART II. THE COMPOUND EYE OF THE CORN EARWORM, HELIOTHIS ZEA, AND OTHER MOTHS AS A MOSAIC OPTIC-ELECTROMAGNETIC THERMAL RADIOMETER.
P S Callahan
Entomol Soc Amer Ann 58(5) 746-756, 16 REFS., 8 FIGS.,
Sep 1965 420 EN82
Compound eye, Heliothis zea, Ommatidia.
- 7791-68
THE FORMS OF THE PEA APHID IN THE SOUTH OF QUEBEC.) FR (J J Cartier
Can Entomol 95(5) 558-560, REF.
22 May 1963 421 C16
Acyrtosiphon pisum.
Alate and apterous males
- 7792-68
LIFE HISTORY AND HABITS OF THE ELM SPANWORM, ENNOMOS SUBSIGNARIUS, IN THE SOUTHERN APPALACHIAN MOUNTAINS (LEPIDOPTERA GEOMETRIDAE).
W M Ciesla
Entomol Soc Amer Ann 57(5) 591-596, 21 REFS., 6 FIGS.
Sep 1964 420 EN82
Ennomos, Insect morphology.
- 7793-68
THE SYSTEMATICS OF THE SUBFAMILY ORNITHODORINAE (ACARINA ARGASIDAE). I. THE GENERA AND SUBGENERA.
C M Clifford G M Kohls D E Sonenshine
Entomol Soc Amer Ann 57(4) 429-437, 25 REFS.
Jul 1964 420 EN82
Acarina, Argasidae, Ornithodorinae.
- 7794-68
DISCOVERY OF THE WORKER CASTE OF PHEIDOLE (P.) INQUILINA, NEW COMBINATION (HYMENOPTERA FORMICIDAE).
A C Cole
Entomol Soc Amer Ann 58(2) 173-175, 3 REFS.
Mar 1965 420 EN82
Formicidae, Insect taxonomy, Pheidole.
- 7795-68
SAMPLING BIOLOGICALLY IN FOREST INSECT POPULATIONS.
W E Cole
Entomol Soc Amer Ann 60(4) 860-861
17 Jul 1967 420 EN82
Dendroctonus ponderosae, Forests, Insect behavior, Insect eggs, Insect populations, Sampling (statistics).
- 7796-68
THE IMPACT OF THE FISHERY UPON THE MIDGE POPULATIONS OF CLEAR LAKE, LAKE COUNTY, CALIFORNIA.
S F Cook Jr J D Connors R L Moore
Entomol Soc Amer Ann 57(6) 701-707, 20 REFS., 3 TABS.
Nov 1964 420 EN82
California, Chironomid, Fisheries.
- 7797-68
THE DIRECT RESPONSE OF CHAOBORUS ASTICTOPUS TO LIGHT (DIPTERA CULICIDAE).
S F Cook Jr J D Connors
Entomol Soc Amer Ann 57(3) 387-388, 5 REFS.
May 1964 420 EN82
Chaoborus, Culicidae, Light.
- 7798-68
A CONTRIBUTION TOWARD A MONOGRAPH OF THE SCATOPSIDAE. PART IX. THE GENERA ASPISTES AND ARTHRIA (DIPTERA SCATOPSIDAE ASPISTINAE).
E F Cook
Entomol Soc Amer Ann 58(5) 713-721, 6 REFS., 36 FIGS.
Sep 1965 420 EN82
Arthria, Aspistes, Insect taxonomy.
- 7799-68
A CONTRIBUTION TOWARD A MONOGRAPH OF THE SCATOPSIDAE (DIPTERA). PART VIII. THE GENUS ANAPAUSIS.
E F Cook
Entomol Soc Amer Ann 58(1) 7-18, 7 REFS., 54 FIGS.
Jan 1965 420 EN82

- Anapausis, Insect identification, Insect taxonomy, Scatopsidae.
- 7800-68
AN ADVENTIVE EMPOASCA FOUND IN NORTH AMERICA (HEMIPTERA CICADELLIDAE).
H B Cunningham
Entomol Soc Amer Ann 57(2) 263-264, 4 REFS.
Mar 1964 420 EN82
Cicadellidae, Empoasca, North America.
- 7801-68
SOME HOST-PLANT PREFERENCES SHOWN BY LYGUS LINEOLARIS (HEMIPTERA MIRIDAE) IN THE LABORATORY.
C E Curtis C E McCoy
Entomol Soc Amer Ann 57(4) 511-513, 2 REFS., 3 TABS.
Jul 1964 420 EN82
Lygus.
- 7802-68
THE GENUS ABGRALLASPIS IN NORTH AMERICA (HOMOPTERA DIASPIDIDAE).
J A Davidson
Entomol Soc Amer Ann 57(5) 638-643, 3 REFS., 3 FIGS.
Sep 1964 420 EN82
Abgrallaspis, Insect taxonomy, North America.
- 7803-68
AN APHYTIS COMPLEX (HYMENOPTERA EULOPHIDAE) OF CHAFF SCALE.
H A Dean
Entomol Soc Amer Ann 58(2) 142-145, 6 REFS.
Mar 1965 420 EN82
Aphytis, Parasitism, Parlatoria.
- 7804-68
NEOTROPICAL SARCOPHAGINAE WITH IMPRESSED SCUTELLUM (DIPTERA, SARCOPHAGIDAE).
H R Dodge
Entomol Soc Amer Ann 58(3) 252-259, 18 FIGS.
May 1965 420 EN82
Insect taxonomy, Sarcophagidae, Scutellum.
- 7805-68
EFFECTS OF SOLARIZATION ON ELM SPANWORM EGGS (LEPIDOPTERA GEOMETRIDAE).
A T Drooz J D Solomon
Entomol Soc Amer Ann 57(1) 95-98, 2 REFS.
Jan 1964 420 EN82
Ennomos, Geometridae, Lepidoptera, Solarization.
- 7806-68
EFFECT OF MONTHLY SOLARIZATION ON EGGS OF THE ELM SPANWORM, ENNOMOS SUBSIGNARIUS (LEPIDOPTERA GEOMETRIDAE).
A T Drooz
Entomol Soc Amer Ann 57(5) 657, 1 REF.
Sep 1964 420 EN82
Reproduction, Solarization.
- 7807-68
GNAMPTOGENYS HARTMANI (HYMENOPTERA FORMICIDAE) DISCOVERED IN LOUISIANA.
H W Echols
Entomol Soc Amer Ann 57(1) 137, 2 REFS.
Jan 1964 420 EN82
Formicidae, Louisiana, Predaceous insects.
- 7808-68
EXTERNAL CHARACTERS FOR SEPARATING THE SEXES OF THE RICE WATER WEEVIL, LISSORHOPTRUS ORYZOPHILIS (COLEOPTERA CURCULIONIDAE).
T R Everett L D Newsom
Entomol Soc Amer Ann 57(4) 514-515, 3 REFS., 2 FIGS.
Jul 1964 420 EN82
Insect identification, Insect taxonomy, Lissorhoptrus.
- 7809-68
PRELIMINARY STUDIES ON FACE FLY DISPERSION.
J H Fales O F Bodenstien G D Mills Jr L H Wessel
Entomol Soc Amer Ann 57(1) 135-137, 6 REFS.
Jan 1964 420 EN82
Musca, Population statistics.
- 7810-68
THE POPULAR AND SCIENTIFIC NOMENCLATURE OF THE ELM SPANWORM, ENNOMOS SUBSIGNARIUS (LEPIDOPTERA GEOMETRIDAE).
G F Fedde
Entomol Soc Amer Ann 58(1) 68-71, 34 REFS.
Jan 1965 420 EN82
Ennomos, Geometridae, Insect names.
- 7811-68
DURATION OF DEVELOPMENT, GENERATION TIME, AND LONGEVITY OF THREE HYMENOPTEROUS PARASITES OF THERIOAPHIS MACULATA, REARED AT VARIOUS CONSTANT TEMPERATURES.
D C Force P S Messenger
Entomol Soc Amer Ann 57(4) 405-413, 21 REFS., 6 FIGS.
Jul 1964 420 EN82
Hymenoptera, Insect biology, Longevity, Metamorphosis, Temperature.
- 7812-68
A NEW GENUS AND SPECIES OF STYLOPIDAE (STREPSIPTERA) FROM LIBERIA, WEST AFRICA.
J W Fox R M Fox
Entomol Soc Amer Ann 57(6) 754-756, 11 REFS.
Nov 1964 420 EN82
Insect taxonomy, Strepsiptera, Stylopidae.
- 7813-68
A NEW SPECIES OF TRIOZOCERA (MENGEIDA STREPSIPTERA) FROM LIBERIA, WEST AFRICA.
J W Fox R M Fox
Entomol Soc Amer Ann 57(4) 402-405, 7 REFS.
Jul 1964 420 EN82
Insect taxonomy, Liberia, Mengeida, Strepsiptera, Triozocera.
- 7814-68
SOME ENDEMIC INSECTS THAT FEED UPON INTRODUCED TANSY RAGWORT (SENECIO JACOBAEA) IN WESTERN UNITED STATES.
K E Frick
Entomol Soc Amer Ann 57(6) 707-710, 21 REFS.
Nov 1964 420 EN82
Senecio jacobaea, United States.
- 7815-68
DIPTEROUS GALLS ON THE ARTEMISIA TRIDENATA COMPLEX AND INSECTS ASSOCIATED WITH THEM.
W D Fronk A A Beetle D G Fullerton
Entomol Soc Amer Ann 57(5) 575-577, 8 REFS., 4 FIGS.
Sep 1964 420 EN82
Artemisia, Diptera, Gall-making insects.
- 7816-68
ON THE BIOLOGY OF CAMPOLETIS PERDISTINCTUS (HYMENOPTERA ICHNEUMONIDAE) IN MADHYA PREDISH, INDIA.
G A Gangrade
Entomol Soc Amer Ann 57(5) 570-574, 4 REFS., 9 FIGS.
Sep 1964 420 EN82
Campoletis, Insect biology, Insect morphology.
- 7817-68
METHODS OF MARKING INSECTS, WITH ESPECIAL REFERENCE TO ORTHOPTERA (SENS. LAT.).
S K Gangwere W Chavin F C Evans
Entomol Soc Amer Ann 57(6) 662-669, 83 REFS.
Nov 1964 420 EN82
Insect identification, Orthoptera.
- 7818-68
SEX PHEROMONES OF NOCTUID MOTHS. IV. AN APPARATUS FOR BIOASSAYING THE PHEROMONES OF SIX SPECIES.
L K Gaston H H Shorey
Entomol Soc Amer Ann 57(6) 779-780, 2 REFS.
Nov 1964 420 EN82
Biological assay, Heliothis zea, Noctuidae, Pheromones.
- 7819-68
SYSTEMATICS OF THE ACORN-INFESTING WEEVILS CONOTRACHELUS NASO, C. CARINIFER, AND C. POSTICATUS (COLEOPTERA CURCULIONIDAE).
L P Gibson
Entomol Soc Amer Ann 58(5) 703-712, 4 REFS., 9 FIGS.
Sep 1965 420 EN82
Conotrachelus, Insect taxonomy.
- 7820-68
BIOLOGY AND LIFE HISTORY OF ACORN-INFESTING WEEVILS OF THE GENUS CONOTRACHELUS (COLEOPTERA CURCULIONIDAE).
L P Gibson
Entomol Soc Amer Ann 57(5) 521-526, 8 REFS., 3 TABS.
Sep 1964 420 EN82
Acorns, Conotrachelus, Insect biology.
- 7821-68
THE LIFE HISTORY OF THE WHITE-PINE CONE BEETLE, CONOPHTHORUS CONIPERDA.
P A Godwin T M Odell
Entomol Soc Amer Ann 58(2) 213-219, 24 REFS., 3 FIGS.
Mar 1965 420 EN82
Conophtorus, Insect biology.

BIBLIOGRAPHY

10 7822-68

- 7822-68
SOME BIOLOGICAL AND ECOLOGICAL ASPECTS OF OVIPOSITIONAL ATTACK IN *CARYA* SPP. BY *SCOLYTUS QUADRISPINOSUS* (COLEOPTERA SCOLYTIDAE).
P D Goeden D M Norris Jr
Entomol Soc Amer Ann 58(6) 771-777, 22 REFS., 5 FIGS.
Nov 1965 420 EN82
Carya, Insect biology, Ovipositors.
- 7823-68
SOME BIOLOGICAL AND ECOLOGICAL ASPECTS OF THE DISPERSAL FLIGHT OF *SCOLYTUS QUADRISPINOSUS* (COLEOPTERA SCOLYTIDAE).
R D Goeden D M Norris Jr
Entomol Soc Amer Ann 57(6) 743-749, 17 REFS., 7 FIGS.
Nov 1964 420 EN82
Insect ecology, Insect flight, Scolytidae.
- 7824-68
THE BEHAVIOR OF *SCOLYTUS QUADRISPINOSUS* (COLEOPTERA SCOLYTIDAE) DURING THE DISPERSAL FLIGHT AS RELATED TO ITS HOST SPECIFICITIES.
R D Goeden D M Norris Jr
Entomol Soc Amer Ann 58(3) 249-252, 11 REFS., 5 FIGS.
May 1965 420 EN82
Insect dissemination, Quercus, Scolytidae.
- 7825-68
FLUCTUATIONS IN AQUATIC INSECT POPULATIONS ASSOCIATED WITH AERIAL APPLICATIONS OF DDT TO NORTHERN MAINE FORESTS.
J G Gorham
J Sci Food Agr 12(6) I-282-1
Jun 1961 382 S012
Aquatic insects, Choristoneura, DDT .
- 7826-68
NOCTURNAL HABITS OF SIX LEPIDOPTERAN PESTS OF COTTON AS INDICATED BY LIGHT-TRAP COLLECTIONS.
H M Graham P A Glick D F Martin
Entomol Soc Amer Ann 57(3) 328-332, 14 REFS., 3 FIGS.
May 1964 420 EN82
Cotton, Insect pests, Lepidoptera.
- 7827-68
CONTRIBUTION TO THE ECOLOGY OF *Aedes vexans* (DIPTERA CULICIDAE) IN THE COACHELLA VALLEY, CALIFORNIA.
S E Gunstream R M Chew
Entomol Soc Amer Ann 57(3) 383-387, 6 REFS., 5 TABS.
May 1964 420 EN82
Aedes, California, Culicidae.
- 7828-68
THE ECOLOGY OF *PSOROPHORA CONFINIS* (DIPTERA CULICIDAE) IN SOUTHERN CALIFORNIA. I. THE SEASONAL NATURE OF HATCHING.
S E Gunstream
Entomol Soc Amer Ann 58(5) 663-667, 8 REFS., 5 TABS.
Sep 1965 420 EN82
California, Culicidae, Insect ecology, Psorophora.
- 7829-68
COMPARATIVE ANATOMY OF HEAD CARAPACES OF ADULT ODONATA.
Z M Hakim
Entomol Soc Amer Ann 57(3) 267-278, 15 REFS., 5 FIGS.
May 1964 420 EN82
Insect anatomy, Odonata.
- 7830-68
SKELETOMUSCULATURE OF THE FEMALE GENITALIA IN THE ODONATA.
Z M Hakim
Entomol Soc Amer Ann 57(5) 578-581, 15 REFS.
Sep 1964 420 EN82
Odonata, Reproductive organs.
- 7831-68
SPATIAL PATTERN OF THE CABBAGE LOOPER, *TRICHOPLUSIA NI*, ON CRUCIFERS.
D G Harcourt
Entomol Soc Amer Ann 58(1) 89-94, 14 REFS., 4 TABS., 3 FIGS.
Jan 1965 420 EN82
Cruciferae, Trichoplusia.
- 7832-68
STUDIES ON THE BIOLOGY OF *ELACHERTUS CERAMIDIAE* (HYMENOPTERA EULOPHIDAE), A PARASITE OF THE BANANA PEST *CERAMIDIA BUTLERI* (LEPIDOPTERA SYNTOMIDAE).
J O Harrison
Entomol Soc Amer Ann 58(1) 64-66, 3 REFS.
Jan 1965 420 EN82
Eulophidae, Insect biology, Syntomidae.
- 7833-68
POPULATION STUDIES ON THE BIG-HEADED GRASSHOPPER, *AULOCARA ELLIOTTI*.
E Hastings J H Pepper
Entomol Soc Amer Ann 57(2) 216-220, 4 REFS.
Mar 1964 420 EN82
Aulocara, Population statistics.
- 7834-68
THE SUBGENUS *PERSICARGAS* (IXODOIDEA, ARGASIDAE, ARGAS). 2. A. (P.) *ABDUSSALAMI*, NEW SPECIES, ASSOCIATED WITH WILD BIRDS ON TREES AND BUILDINGS NEAR LAHORE, PAKISTAN.
H Hoogstraal V C McCarthy
Entomol Soc Amer Ann 58(5) 756-762, 5 REFS., 18 FIGS.
Sep 1965 420 EN82
Argas, Birds, Insect taxonomy, Insect vectors, Ixodides, Pakistan, Persicargas.
- 7835-68
THE MESOPHRAGMATICA SPECIES GROUP OF *DROSOPHILA* IN COLOMBIA.
A S Hunter R A Hunter
Entomol Soc Amer Ann 57(6) 732-736, 8 REFS.
Nov 1964 420 EN82
Drosophila, Insect identification, Mesophragmatica.
- 7836-68
A LABORATORY LIFE HISTORY OF THE CONSPERSE STINK BUG, *EUSCHISTUS CONSPERSUS* (HEMIPTERA PENTATOMIDAE).
R E Hunter T F Leigh
Entomol Soc Amer Ann 58(5) 648-649, 5 REFS., 3 TABS.
Sep 1965 420 EN82
Insect biology, Pentatomidae.
- 7837-68
ECOLOGICAL STUDIES OF MITES FOUND IN SHEEP AND CATTLE PASTURES. I. DISTRIBUTION PATTERNS OF ORIBATID MITES.
E L Ibarra J A Wallwork J G Rodriguez
Entomol Soc Amer Ann 58(2) 153-159, 7 REFS., 5 TABS., 4 FIGS.
Mar 1965 420 EN82
Cattle, Insect ecology, Mites, Oribatidae, Sheep.
- 7838-68
CONTARINIA WASHINGTONENSIS (DIPTERA CECIDOMYIIDAE), NEW SPECIES INFESTING CONES OF DOUGLAS-FIR.
N E Johnson
Entomol Soc Amer Ann 56(1) 94-103, 9 REFS., 4 TABS.
Jan 1963 420 EN82
Contarinia, Diptera, Insect identification.
- 7839-68
OBSERVATIONS ON RESPONSE AND ORIENTATION TO LIGHT BY THE *PASSALUS* BEETLE, *POPILUS DISJUNCTUS*.
B J Jump P E Hunter
Entomol Soc Amer Ann 57(6) 792-793, 3 REFS.
Nov 1964 420 EN82
Light, Popilins.
- 7840-68
DESCRIPTIONS OF TWO NEW SPECIES OF *GRYLLOBLATTIDAE* AND OF THE ADULT OF *GRYLLOBLATTA BARBERI*, WITH AN INTERPRETATION OF THEIR GEOGRAPHICAL DISTRIBUTION.
J W Kamp
Entomol Soc Amer Ann 56(1) 53-68, 21 REFS.
Jan 1963 420 EN82
Insect identification, Insect morphology.
- 7841-68
OBSERVATIONS ON AGGREGATION, MIGRATION, AND FEEDING HABITS OF *ZONOCERUS VARIEGATUS* IN GHANA (ORTHOPTERA ACRIDIDAE).
T Kaufmann
Entomol Soc Amer Ann 58(4) 426-436, 12 REFS., 4 TABS., 5 FIGS.
Jul 1965 420 EN82
Ghana, Insect migration, Zonocerus.
- 7842-68
ECOLOGICAL AND BIOLOGICAL STUDIES ON THE WEST AFRICAN FIREFLY *LUCIOLA DISCICOLLIS* (COLEOPTERA LAMPYRIDAE).
T Kaufmann
Entomol Soc Amer Ann 58(4) 414-426, 23 REFS., 9 FIGS.
Jul 1965 420 EN82
Insect biology, Insect ecology, Lampyridae.
- 7843-68
MORPHOMETRIC DIFFERENCES AMONG FOUR BIOTYPES OF *OSTRINIA NUBILALIS* (LEPIDOPTERA PYRALIDAE).
K C Kim H C Chiang B W Brown
Entomol Soc Amer Ann 60(4) 796-801
17 Jul 1967 420 EN82
Geography, Insect morphology, Iowa, Minnesota, Missouri,

- Morphometry, Ohio, *Ostrinia nubilalis*.
Abstract
- 7844-68
NEW GENERA, NEW SPECIES, AND NEW RECORDS OF PYGOSTENINI FROM WEST AFRICA (COLEOPTERA STAPHYLINIDAE).
D H Kistner
Entomol Soc Amer Ann 56(1) 18-25, 6 REFS.
Jan 1963 420 EN82
Coleoptera, Insect identification.
- 7845-68
AMINO ACIDS AND REDUCING SUGARS IN SILKS OF CORN RESISTENT OR SUSCEPTIBLE TO CORN EARWORM.
J L Knapp P A Hedin W A Douglas
Entomol Soc Amer Ann 58(3) 401-402
May 1965 420 EN82
Amino acids, Corn, Corn silk, *Heliothis zea*.
- 7846-68
A REVISION OF THE SPECIES OF THE GENUS MYRMECHUSA FROM TROPICAL AFRICA WITH NOTES ON THEIR BEHAVIOR AND THEIR RELATIONSHIP TO THE PYGOSTENINI (COLEOPTERA STAPHYLINIDAE).
T A Koblick D H Kistner
Entomol Soc Amer Ann 58(1) 28-44, 9 REFS., 9 FIGS.
Jan 1965 420 EN82
Africa, Insect taxonomy, *Myrmecusa*, *Pygostenini*.
- 7847-68
THE SYSTEMATICS OF THE SUBFAMILY ORNITHODORINAE (ACARINA ARGASIDAE). II. IDENTIFICATION OF THE LARVAE OF THE WESTERN HEMISPHERE AND DESCRIPTIONS OF THREE NEW SPECIES.
G M Kohls D E Sonenshine C M Clifford
Entomol Soc Amer Ann 58(3) 331-364, 37 REFS., 62 FIGS.
May 1965 420 EN82
Acarina, Insect taxonomy, Larvae, *Ornithodorinae*.
- 7848-68
THREE NEW COSTA RICAN CERAMBYCIDAE (COLEOPTERA) COLLECTED ON CACAO.
E F Lara R D Shenefelt
Entomol Soc Amer Ann 57(4) 437-443, 1 REF., 14 FIGS.
Jul 1964 420 EN82
Cacao, *Cerambycidae*, *Coleoptera*.
- 7849-68
NOTES ON THE DISTRIBUTION AND ETHOLOGY OF *EFFERIA BICAUDATA* (DIPTERA ASILIDAE), WITH A DESCRIPTION OF THE EGGS.
R. J. Lavigne
Entomol Soc Amer Ann 57(3) 341-344, 4 REFS.
May 1964 420 EN82
Asilidae, *Diptera*, *Efferia*, Eggs, Insect biology.
- 7850-68
THEORY OF CONTROL OF INSECT POPULATIONS BY SEXUALLY STERILE MALES.
F R Lawson
Entomol Soc Amer Ann 60(4) 713-722 REF.
17 Jul 1967 420 EN82
Biological control (insects), Chemosterilants, Insect mutation, Mathematical analysis, Radiation, Sterilization.
Abstract
- 7851-68
CULTURE OF HIPPELATES PUSIO (DIPTERA CHLOROPIDAE) IN THE WEST INDIES FOR NATURAL ENEMY EXPLOITATION AND SOME NOTES ON BEHAVIOR AND DISTRIBUTION.
E F Legner E C Bay
Entomol Soc Amer Ann 58(4) 436-440, 10 REFS.
Jul 1965 420 EN82
Chloropidae, *Hippelates*, Insect behavior, West Indies.
- 7852-68
NATURAL EXPOSURE OF HIPPELATES EYE GNATS TO FIELD PARASITIZATION AND THE DISCOVERY OF ONE PUPAL AND TWO LARVAL PARASITES.
E F Legner E C Bay
Entomol Soc Amer Ann 57(6) 767-769, 5 REFS.
Nov 1964 420 EN82
Hippelates, Insect rearing, Larvae, Parasitism.
- 7853-68
NOTES ON THE USE OF SODA STRAWS AS NESTING SITES BY *RYGCHIUM FOHAMINATUM* (HYMENOPTERA VESPIDAE).
G P Markin
Entomol Soc Amer Ann 58(1) 132-133, 4 REFS.
Jan 1965 420 EN82
Insect nests, *Rygchium*, Soda straws.
- 7854-68
THE NEARCTIC DORYCTINAE. I. A REVIEW OF THE SUBFAMILY WITH A TAXONOMIC REVISION OF THE TRIBE HECABOLINI: (HYMENOPTERA BRACONIDAE).
P M Marsh
Entomol Soc Amer Ann 58(5) 668-699, 35 REFS., 68 FIGS.
Sep 1965 420 EN82
Braconidae, *Doryctinae*, *Hecabolini*, Insect taxonomy.
- 7855-68
OBSERVATIONS ON THE LIFE HISTORY OF THE PINYON NEEDLE SCALE *MATSUCOCCUS ACALYPTUS* (HOMOPTERA, COCCOIDEA, MARGARODIDAE).
W F McCambridge D A Pierce
Entomol Soc Amer Ann 57(2) 197-200, 3 REFS., 5 FIGS.
Mar 1964 420 EN82
Insect biology, *Matsucoccus*.
- 7856-68
BATESIAN MIMICRY IN *PTECTICUS CYANIFRONS* (DIPTERA STRATIOMYIDAE).
M W McFadden
Entomol Soc Amer Ann 58(1) 131-132, 1 REF.
Jan 1965 420 EN82
Mimicry, *Ptecticus*.
- 7857-68
A CONTRIBUTION TO THE UNDERSTANDING OF COCKROACH-TERMITE AFFINITIES.
McKittrick
Entomol Soc Amer Ann 58(1) 18-22, 13 REFS., 8 FIGS.
Jan 1965 420 EN82
Blattidae, *Isoptera*.
- 7858-68
PHYLETIC RELATIONSHIPS WITHIN THE BLATTIDAE.
F A McKittrick M J Mackerras
Entomol Soc Amer Ann 58(2) 224-230, 3 REFS., 14 FIGS.
Mar 1965 420 EN82
Blattidae, Insect biology, *Tryonicus*.
- 7859-68
SOME FACTORS INFLUENCING THE ABUNDANCE OF THE PREDACEOUS MITE *AMBLYSEIUS HIBISCI* IN SOUTHERN CALIFORNIA (ACARINA PHYTOSEIIDAE).
J A McMurtry H G Johnson
Entomol Soc Amer Ann 58(1) 49-56, 10 REFS., 4 FIG.
Jan 1965 420 EN82
Acarina, *Amblyseius*, *Predaceous insects*.
- 7860-68
BIOLOGY OF THE PREDACEOUS MITE *TYPHLODROMUS RICKERI* (ACARINA PHYTOSEIIDAE).
J A McMurtry G T Scriven
Entomol Soc Amer Ann 57(3) 362-367, 10 REFS., 3 TABS.
May 1964 420 EN82
Insect biology, Mites, *Typhlodromus*.
- 7861-68
SOME FACTORS INFLUENCING POPULATION GROWTH OF THE ASTER LEAFHOPPER IN ANOKA COUNTY, MINNESOTA.
A B Meade A G Peterson
J Econ Entomol 60 (4) 936-941
15 Aug 1967 421 J822
Attractants, Barley, Insect populations, Insect taxonomy, *Macrostelus fascifrons*.
Abstract
- 7862-68
BIOLOGY OF *ISODONTIA (MURRAYELLA) MEXICANA* IN TRAP-NESTS IN WISCONSIN (HYMENOPTERA SPHECIDAE).
J T Medler
Entomol Soc Amer Ann 58(2) 137-142, 13 REFS., 4 FIGS.
Mar 1965 420 EN82
Insect biology, Insect traps, *Sphécidae*, Wisconsin.
- 7863-68
NOTES ON THE LIFE HISTORY OF *TETRANYCHUS ATLANTICUS* (ACARINA TETRANYCHIDAE).
J L Mellott W A Connell
Entomol Soc Amer Ann 58(3) 379-383, 14 REFS.
May 1965 420 EN82
Acarina, *Compositae*, Insect biology, Strawberries, *Tetranychus*.
- 7864-68
A SURVEY OF THE NEOTROPICAL SPECIES *CHLORION* (HYMENOPTERA SPHECIDAE).
A S Menke A Willink
Entomol Soc Amer Ann 57(5) 548-552, 5 REFS., 8 FIGS.

BIBLIOGRAPHY

10 7865-68

- Sep 1964 420 EN82
Chlorion, Sphecidae.
- 7865-68
THE INFLUENCE OF TEMPERATURE AND HUMIDITY ON EMBRYONIC LONG-EVITY IN AEDES AEGYPTI.
R Meola
Entomol Soc Amer Ann 57(4) 468-472, 15 REFS., 4 FIGS.
Jul 1964 420 EN82
Aedes aegypti, Humidity, Insect temperature.
- 7866-68
A GENERIC REVIEW OF THE DUFOUPEINAE OF THE WESTERN HEMISPHERE (HYMENOPTERA HALICTIDAE).
C D Michener
Entomol Soc Amer Ann 58(3) 321-326, 6 REFS., 28 FIGS.
May 1965 420 EN82
Dufoureinae, Halictidae, Insect taxonomy, Penapsis.
- 7867-68
A REVIEW OF THE MUTILLID GENUS CHYPHOTES BLAKE (HYMENOPTERA MUTILLIDAE APTEROGYNAE).
C E Mickel
Amer Entomol Soc Trans 93 (2), 125-234, MAP REF
Jun 1967 420 P53
Chyphototes, Mutillidae.
- 7868-68
THE SPECIES OF EMBIDOPSOCINAE OF THE UNITED STATES (PSOCTERA LIPOSCOLIDAE).
E L Mockford
Entomol Soc Amer Ann 56(1) 25-37, 7 REFS.
Jan 1963 420 EN82
Embidopsocinae, Insect morphology, Liposcolidae.
- 7869-68
ON THE FLIGHT DISTANCE OF THE BOLL WEEVIL.
BECKHAM, C M.
L W Morgan
J Econ Entomol 53(4) 681-682
Aug 1960 421 J822
Anthonomus grandis, Insect behavior.
- 7870-68
THE ABUNDANCE OF WILD BEES (APOIDEA) IN THE NORTHEASTERN UNITED STATES.
R A Morse
J Econ Entomol 53(4) 679-680
Aug 1960 421 J822
Apoidea, Northeastern United States, Population statistics.
- 7871-68
SEASONAL POPULATION TRENDS OF HIPPELATES GNATS (DIPTERA CHLOROPIDAE) IN SOUTHERN CALIFORNIA.
M S Mulla
Entomol Soc Amer Ann 57(1) 12-19, 11 REFS., 6 FIGS., 3 TABS.
Jan 1964 420 EN82
California, Chloropidae, Diptera, Population.
- 7872-68
PRACTICAL METHODS OF YEAR-ROUND LABORATORY REARING OF THE SILKWORM, BOMBYX MORI (L.) (LEPIDOPTERA, BOMBYCIDAE).
J K Nayar G Fraenkel
Entomol Soc Amer Ann 56(1) 122-123, 1 REF.
Jan 1963 420 EN82
Bombyx mori, Insect rearing.
- 7873-68
OBSERVATIONS ON THE BIOLOGY OF FOUR SPECIES OF DIORYCTRIA IN NORTH CAROLINA (LEPIDOPTERA PHYCITIDAE).
H H Neunzig E D Cashett G A Matuza
Entomol Soc Amer Ann 57(3) 317-321, 9 REFS., 8 FIGS.
May 1964 420 EN82
Dioryctria, Insect biology, North carolina, Pinus.
- 7874-68
A TAXONOMIC STUDY OF THE GENUS DIORYCTRIA IN THE SOUTHEASTERN UNITED STATES (LEPIDOPTERA PHYCITIDAE).
H H Neunzig E P Merkel
Entomol Soc Amer Ann 60(4) 801-808 REF
17 Jul 1967 420 EN82
Dioryctria, Insect taxonomy, United states.
Abstract
- 7875-68
PREDATION BY FUSCUIPODA VEGETANS (ACARINA UROPODIDAE) ON THE HOUSE FLY (MUSCA DOMESTICA).
A E O Donnell R C Axtell
Entomol Soc Amer Ann 58(3) 403-404, 6 REFS., 3 TABS.
May 1965 420 EN82
- Acarina, Fuscuiropoda, Musca domestica, Predaceous insects.
- 7876-68
A NEW SUBGENUS AND TWO NEW SPECIES OF DACTYNOTUS (HOMOPTERA APHIDIDAE).
A T Olive
Entomol Soc Amer Ann 58(3) 284-289, 10 REFS., 6 FIGS.
May 1965 420 EN82
Aphididae, Dactynotus, Insect identification, Insect taxonomy.
- 7877-68
TWO NEW SPECIES OF DACTYNOTUS FROM PENNSYLVANIA (HOMOPTERA APHIDIDAE).
A T Olive
Entomol Soc Amer Ann 58(6) 786-791, 4 REFS., 6 FIGS.
Nov 1965 420 EN82
Aphididae, Dactynotus, Insect taxonomy, Pennsylvania.
- 7878-68
A BEHAVIORAL STUDY OF TWO RACES OF THE FALL WEBWORM, HYPHANTHRIA CUNEA, (LEPIDOPTERA ARCTIIDAE) IN LOUISIANA.
A D Oliver
Entomol Soc Amer Ann 57(2) 192-194, 7 REFS., 4 TABS.
Mar 1964 420 EN82
Arctiidae, Hyphantria, Insect behavior, Lepidoptera, Louisiana.
- 7879-68
CATINATHRIPS, NEW GENUS, A NEW SPECIES, AND A REASSIGNMENT (THYSANOPTERA THIRIPIDAE).
K O'Neill
Entomol Soc Amer Ann 60(4) 854-856
17 Jul 1967 420 EN82
Catinathrips, Insect taxonomy, Thripidae.
Abstract
- 7880-68
ON THE SUBFAMILY ASTATINAE, PART II. A REVIEW OF THE GENUS ASTATA FROM MEXICO AND CENTRAL AMERICA (HYMENOPTERA SPHECIDAE).
F D Parker
Entomol Soc Amer Ann 57(5) 552-559, 4 REFS., 21 FIGS.
Sep 1964 420 EN82
Astata, Mexico, Sphecidae.
- 7881-68
A NEW GENUS OF SOLITARY WASPS (HYMENOPTERA EUMENIDAE) FROM SOUTHWESTERN NORTH AMERICA.
F D Parker
Entomol Soc Amer Ann 58(3) 364-368, 1 REF., 19 FIGS.
May 1965 420 EN82
Cephalodynerus, Eumenidae, Insect taxonomy.
- 7882-68
SYNOPTIC WEATHER CONDITIONS ASSOCIATED WITH LONG-RANGE MOVEMENT OF THE POTATO LEAFHOPPER, EMPOASCA FABAE, INTO WISCONSIN.
R L Pienkowski J T Medler
Entomol Soc Amer Ann 57(5) 588-591, 7 REFS.
Sep 1964 420 EN82
Empoasca, Insect dissemination, Weather, Wisconsin.
- 7883-68
ECOLOGICAL CONTROL OF A PARASITE POPULATION BY GENETIC EVOLUTION IN THE PARASITE-HOST SYSTEM.
D Pimentel R Al-Hafidh
Entomol Soc Amer Ann 58(1) 1-6, 3 REFS., 4 TABS.
Jan 1965 420 EN82
Insect evolution, Musca domestica, Parasitism.
- 7884-68
DESCRIPTION OF STAGES OF HOMALODISCA INSOLITA, A LEAFHOPPER VECTOR OF PHONY PEACH VIRUS DISEASE.
H N Pollard
Entomol Soc Amer Ann 58(5) 699-702, 4 REFS., 9 FIGS.
Sep 1965 420 EN82
Cicadellidae, Insect vectors, Phony disease (peaches).
- 7885-68
RELATIVE TOXICITY OF INSECTICIDAL FILMS TO ADULTS OF TROGODERMA GRANARIUM EVERTS., ORYZAEPHILUS SUNINAMENSIS L. AND LAEMOPHLOEUS MINUTHUS OLIV.
S Pradhan P Sarup
J Sci Food Agr 12(4) I-170-1
Apr 1961 382 S012
Aldrin, Benzene hexachloride, Dieldrin, DDT, Laemophloeus, Oryzaephilus, Toxaphene, Trogoderma.

- 7886-68
TRE COLPOCEPHALUM (MALLOPRAGA MENOPONIDAE) OF TRE CICONIIFORMES.
R D Price J R Beer
Entomol Soc Amer Ann 58(1) 111-131, 6 REFS., 94 FIGS.
Jan 1965 420 EN82
Colpocephalum, Insect identification, Insect taxonomy.
- 7887-68
SPECIES OF COLPOCEPHALUM (MALLOPHAGA MENOPONIDAE) PARASITE UPON GALLIFORMES.
R D Price J R Beer
Entomol Soc Amer Ann 57(4) 391-402, 7 REFS., 36 FIGS.
Jul 1964 420 EN82
Colpocephalum, Galliformes, Insect taxonomy, Mallophaga, Menoponidae, Parasitic insects.
- 7888-68
DIEL FLIGHT ACTIVITY OF MIGRATING ALPALPA WEEVILS, HYPERA POSTICA (COLEOPTERA CURCULIONIDAE).
R J Prokopy G G Gyrisco
Entomol Soc Amer Ann 58(5) 642-647, 11 REFS., 5 TABS.
Sep 1965 420 EN82
Curculionidae, Insect flight, Insect migration, Light.
- 7889-68
A CONSTANT-TEMPERATURE MOSQUITO-REARING APPARATUS.
M W Provost P T M Lum L M Bourinot
Entomol Soc Amer Ann 58(6) 937-938
Nov 1965 420 EN82
Culicidae, Insect rearing equipment, Temperature.
- 7890-68
TRE BIOLOGY AND ECOLOGY OF GRANARY MITES OF TRE PACIFIC NORTHWEST. III. LIFE HISTORY AND DEVELOPMENT OF LEIODONYCHUS KRAMERI (ACARINA UROPODIDAE).
S Radinovsky
Entomol Soc Amer Ann 58(3) 259-267, 10 REFS., 4 TABS., 11 FIGS.
May 1965 420 EN82
Acarina, Insect biology, Insect morphology, Leiodynychus.
- 7891-68
LONGEVITY OF REFRIGERATED NOSEMA SPORES- NOSEMA APIS, A PARASITE OF RONEY BEES.
I L Revell
J Econ Entomol 53(6) 1132-1133, 9 REFS.
Dec 1960 421 J822
Apis mellifera, Nosema, Parasitic insects, Refrigeration.
- 7892-68
TRE BIOLOGY AND TAXONOMY OF SOME IMMATURE NEARCTIC TABANIDAE (DIPTERA).
R H Roberts R J Dicke
Entomol Soc Amer Ann 57(1) 31-40, 20 REFS.
Jan 1964 420 EN82
Diptera, Insect biology, Insect taxonomy, Tabanidae.
- 7893-68
ECOLOGICAL STUDIES OF MITES FOUND IN SHEEP AND CATTLE PASTURES. II. DISTRIBUTION PATTERNS OF MESOSTIGMATID MITES.
J G Rodriguez E L Iarra
Entomol Soc Amer Ann 60(4) 808-812
17 Jul 1967 420 EN82
Cattle, Dithinozercon halberti, Insect ecology, Lasioseius, Oribatei, Pastures, Poa pratensis, Sheep.
Abstract
- 7894-68
TRE TAXONOMIC SIGNIFICANCE OF TRE SPIDER TROCHANTER.
V D Roth
Entomol Soc Amer Ann 57(6) 759-766, 18 REFS., 22 FIGS.
Nov 1964 420 EN82
Insect taxonomy, Trochanter.
- 7895-68
GENERA ERRONEOUSLY PLACED IN TRE SPIDER FAMILIES AGELENIDAE AND PISAURIDAE (ARANEIDA ARACHIDA).
V D Roth
Entomol Soc Amer Ann 58(3) 289-292, 11 REFS.
May 1965 420 EN82
Cybaeodanus, Cyrioctea, Insect taxonomy, Ishania, Valcheta.
- 7896-68
FAT BODY MORPHOLOGY OF ENGLISH GRAIN APHIDS INFECTED WITH BARLEY YELLOW DWARF VIRUS.
C W Rutschky R L Campbell
Entomol Soc Amer Ann 57(1) 53-56, 6 REFS.
Jan 1964 420 EN82
Fat body, Macrosiphum, Morphology, Yellow dwarf (barley).
- 7897-68
BIOSYSTEMATICS OF TRE RESPEROCIMAX COMPLEX (HEMIPTERA DIMICIDAE) AND ROSTS (PICOPFORMES PICIDAE PASSERIFORMES HIRUNDINIDAE).
R E Ryckman N Ueshima
Entomol Soc Amer Ann 57(5) 624-638, 8 REFS. 16 FIGS.
Sep 1964 420 EN82
Resperocimex, Piciformes, Taxonomy.
- 7898-68
PHYSICAL AND PSYCHOLOGICAL CHANGES IN THE ADULT MONTEREY-PINE CONE BEETLE, CONOPTRORUS RADIATAE (COLEOPTERA SCOLYTIDAE).
C R Schaeffer
Entomol Soc Amer Ann 57(2) 195-197, 12 REFS.
Mar 1964 420 EN82
Biochemistry, Coleoptera, Conophthorus, Scolytidae.
- 7899-68
STUDIES ON THE BIOLOGY OF DUSMETTA SANGWANI (RYMENOPTERA ENCYRTIDAE).
M F Schuster
Entomol Soc Amer Ann 58(3) 272-275, 4 REFS., 3 TABS.
May 1965 420 EN82
Dusmetia, Insect biology, Parasitism.
- 7900-68
SEX PHEROMONES OF NOCTUID MOTHS. III. INHIBITION OF MALE RESPONSES TO THE SEX PHEROMONE IN TRICHOPLUSIA NI (LEPIDOPTERA NOCTUIDAE).
H H Shorey L K Gaston
Entomol Soc Amer Ann 57(6) 775-779, 9 REFS., 4 FIGS.
Nov 1964 420 EN82
Noctuidae, Pheromones, Reproduction.
- 7901-68
SEX PHEROMONES OF NOCTUID MOTHS. II. MATING BEHAVIOR OF TRICHOPLUSIA NI (LEPIDOPTERA NOCTUIDAE) WITH SPECIAL REFERENCE TO TRE ROLE OF TRE SEX PHEROMONE.
R R Shorey
Entomol Soc Amer Ann 57(3) 371-377, 12 REFS., 3 TABS.
May 1964 420 EN82
Sex behavior, Trichoplusia.
- 7902-68
A SIMPLE ASPIRATOR FOR COLLECTING SMALL ARTHROPODS DIRECTLY INTO ALCOHOL.
G Singer
Entomol Soc Amer Ann 57(6) 796-798, 3 REFS.
Nov 1964 420 EN82
Arthropoda, Insect collecting equipment.
- 7903-68
URANOTAENIA GERDAE, A NEW SPECIES OF THE TIBIALIS GROUP, FROM WEST NEW GUINEA (DIPTERA CULICIDAE).
R Slooff
Entomol Soc Amer Ann 56(1) 82-86, 4 REFS.
Jan 1963 420 EN82
Culicidae, Insect identification, Insect morphology, New Guinea, Uranotaenia.
- 7904-68
TILIPRAGUS LYCOPOSUGUS, NEW GENUS, NEW SPECIES (APRIDIDAE HOMOPTERA) FROM TILIA AMERICANA AND LYCOPUS VIRGINICUS.
C F Smith
Entomol Soc Amer Ann 58(6) 781-786, 4 FIGS.
Nov 1965 420 EN82
Aphididae, Insect taxonomy, Tiliphagus.
- 7905-68
NEW APPROVED COMMON NAMES OF INSECTICIDES.
C N Smith
J Econ Entomol 53(4) 677
Aug 1960 421 J822
Cue-lure, Deet, ENT-31560, ENT-31833, Nomenclature, Tert-butyl 4-chloro-2-methylcyclohexanecarboxylate, Trimeclure.
- 7906-68
RESISTANCE OF PINES TO TRE PINE REPRODUCTION WEEVIL, CYLINDROCOPTURUS EATONI.
R R Smith
J Econ Entomol 53(6) 1044-1048, 5 TABS.
Dec 1960 421 J822
Cylindrocopturus, Pinus, Plant pest resistance, Statistics.
- 7907-68
VARIATION IN MITES BELONGING TO TRE GENUS BRYOBIA.
R Snetsinger
Entomol Soc Amer Ann 57(2) 220-226, 15 REFS., 4 TABS. 4 FIGS.

BIBLIOGRAPHY

- 10 7908-68
Mar 1964 420 EN82
Bryobia, Insect taxonomy.
- 7908-68
A SIMPLIFIED LABORATORY METHOD FOR REARING THE SOUTHERN ARMYWORM, *PRODENIA ERIDANIA*, FOR FEEDING EXPERIMENTS.
C F Soo Hoo G Fraenkel
Entomol Soc Amer Ann 57(6) 798-799, 5 REFS.
Nov 1964 420 EN82
Insect rearing, *Prodenia*.
- 7909-68
PHYLOGENY OF THE NEW TERMITE GENUS *TERRENITERMES* FROM *HISFANIOLA* (ISOPTERA TERMITIDAE NASUTITERMITINAE).
V A Spaeth
Entomol Soc Amer Ann 60(4) 849-854 REF
17 Jul 1967 420 EN82
Diversitermes, Insect taxonomy, Nasutitermitinae, Termites, Terrenitermes, Velocitermes.
Abstract
- 7910-68
CORN EARWORM LARVAL FEEDING RESPONSE TO CORN SILK AND KERNEL EXTRACTS.
K J Starks W W McMillian A A Sekul H C Cox
Entomol Soc Amer Ann 58(1) 74-76, 7 REFS.
Jan 1965 420 EN82
Corn, Corn silk, *Heliothis zea*, Insect nutrition.
- 7911-68
ARTIFICIAL BEE BEDS FOR THE PROPAGATION OF THE ALKALI BEE, *NOMIA MELANDERI*.
W P Stephen
J Econ Entomol 53(6) 1025-1030, 5 REFS.
Dec 1960 421 J822
Bedding (insects), *Nomia*.
- 7912-68
DISPERSAL STUDIES OF *TRICHOGRAMMA SEMIFUMATUM* (HYMENOPTERA TRICHOGRAMMATIDAE) TAGGED WITH RADIOACTIVE PHOSPHORUS.
V M Stern E I Schlinger W R Bowen
Entomol Soc Amer Ann 58(2) 234-240, 8 REFS., 4 TABS.
Mar 1965 420 EN82
Hymenoptera, Insect dissemination, Phosphorus, Radioactive tracers.
- 7913-68
ECOLOGICAL STUDIES OF *TRICHOGRAMMA RETORRIDUM* AND EMERGENCE OF TWO *TRICHOGRAMMA* SPECIES FROM THE SAME HOST EGG.
V M Stern Y H Atallah
Entomol Soc Amer Ann 58(1) 76-81, 5 REFS., 3 TABS.
Jan 1965 420 EN82
Insect ecology, Insect eggs, *Trichogramma*.
- 7914-68
THE SUBGENUS *NEOCATA* OF THE RHAPHOMYIA (DIPTERA EMPIDIDAE).
G C Steyskal
Entomol Soc Amer Ann 57(4) 466-468
Jul 1964 420 EN82
Diptera, Empididae, Insect taxonomy, *Neocata*, *Rhaphomyia*.
- 7915-68
DESCRIPTIVE AND SYNONYMICAL NOTES ON *LIRIOMYZA MUNDA* (DIPTERA AGROMYZIDAE).
G C Steyskal
Entomol Soc Amer Ann 57(3) 388-389, 4 REFS.
May 1964 420 EN82
Agromyzidae, Insect anatomy, Insect taxonomy, *Liriomyza*.
- 7916-68
THE THIRD LARVAL INSTAR AND PUPARIUM OF *ODONTOLCOXOZUS LONGICORNIS* (DIPTERA NERIIDAE).
G C Steyskal
Entomol Soc Amer Ann 58(6) 936-937, 1 REF.
Nov 1965 420 EN82
Larvae, *Neriidae*, Pupae.
- 7917-68
MORPHOLOGICAL, HISTOLOGICAL, AND HISTOCHEMICAL STUDIES OF THE ALIMENTARY CANAL AND MALPIGHIAN TUBES OF THE ADULT BOLL WEEVIL, *ANTHONOMUS GRANDIS* (COLEOPTERA CURCULIONIDAE).
J A Sundman D R King
Entomol Soc Amer Ann 57(1) 89-95, 27 REFS.
Jan 1964 420 EN82
Anthonomus grandis, Gastrointestinal system, Histology, Malpighian tubes, Morphology.
- 7918-68
LOSS OF TRANSMISSIBILITY BY APHIDS OF BEAN YELLOW MOSAIC VIRUS.
K G Swenson S S Sohi R E Welton
Entomol Soc Amer Ann 57(3) 378-382, 12 REFS., 5 TABS.
May 1964 420 EN82
Aphididae, Beans, Yellow mosaic (beans).
- 7919-68
FACTORS INFLUENCING THE CIRCADIAN FLIGHT RHYTHM OF DRONE HONEY BEES.
S Taber III
Entomol Soc Amer Ann 57(6) 769-775, 8 TABS.
Nov 1964 420 EN82
Diurnal rhythm.
- 7920-68
ESTIMATION OF TOTAL HONEY BEE POPULATIONS USING A KNOWN POPULATION OF MARKED BEES.
S Taber III
J Econ Entomol 53(6) 993-995, 13 REFS.
Dec 1960 421 J822
Apis mellifera, Labeling, Population, Sampling (statistics).
- 7921-68
A TECHNIQUE FOR PREPARING WATERCOLOR ILLUSTRATIONS OF ADULT LEPIDOPTERA.
H Tashiro G Catlin
Entomol Soc Amer Ann 58(2) 170-173, 4 FIGS.
Mar 1965 420 EN82
Art, Illustrations, Lepidoptera.
- 7922-68
SEASONAL ABUNDANCE AND RELATIVE NUMBERS OF THE TOBACCO HORNWORM, *PROTOPARCE SEXTA* AND THE TOMATO HORNWORM, *PROTOPARCE QUINQUEMACULATA*, IN KENTUCKY.
R Thurston
Entomol Soc Amer Ann 58(1) 71-73, 5 REFS.
Jan 1965 420 EN82
Climate, Insect population, Kentucky, *Sphingidae*, Weather.
- 7923-68
PARASITISM OF THE OVERWINTERING PUPAE OF THE MELON LEAF MINER, *LIRIOMYZA PICTELLA*.
J Econ Entomol 53(4) 682
Aug 1960 421 J822
Hibernation, Parasitic insects, Pupae.
- 7924-68
LABORATORY STUDIES ON THE BIOLOGY OF *RHOPALOSIPHUM PADI* (HOMOPTERA APHIDIDAE).
J R Villanueva B F B Strong
Entomol Soc Amer Ann 57(5) 609-613, 14 FIGS., 3 TABS.
Sep 1964 420 EN82
Aphididae, Insect biology.
- 7925-68
BIOLOGY OF THE SUGARCANE BORER, *DIATRAEA SACCHARALIS* (LEPIDOPTERA CRAMBIDAE) IN PUERTO RICO. III. OVIPOSITION RATE.
D W Walker M Figueroa
Entomol Soc Amer Ann 57(4) 515-516, 3 REFS.
Jul 1964 420 EN82
Diatraea, Ovipositors, Puerto Rico.
- 7926-68
REVISION OF THE OECANTHINAE (GRYLLIDAE ORTHOPTERA) OF AMERICA SOUTH OF THE UNITED STATES.
T J Walker
Entomol Soc Amer Ann 60(4) 784-796 REF
17 Jul 1967 420 EN82
Insect taxonomy.
Abstract
- 7927-68
LABORATORY OBSERVATIONS ON THE LIFE HISTORY AND HABITS OF THE FACE FLY, *MUSCA AUTUMNALIS* (DIPTERA MUSCIDAE).
C M Wang
Entomol Soc Amer Ann 57(5) 563-569, 14 REFS., 4 TABS., 10 FIGS.
Sep 1964 420 EN82
Insect behavior, Insect morphology, *Musca*.
- 7928-68
DESCRIPTION AND BIONOMICS OF A NEW SPECIES OF PUTO FROM UTAH (HOMOPTERA COCCOIDEA PSEUDOCOCCIDAE).
R I Washburn
Entomol Soc Amer Ann 58(3) 293-297, 7 REFS.
May 1965 420 EN82
Insect biology, *Picea*, *Pseudococcidae*, *Puto*.

- 7929-68
A FIVE-YEAR COLONY OF A FUNGUS-GROWING ANT, TRACHYMYRMEX ZETEKI.
N A Weber
Entomol Soc Amer Ann 57(1) 85-89, 2 REFS.
Jan 1964 420 EN82
Formicidae, Fungi, Trachymyrmex.
- 7930-68
OCCURRENCE OF ALATE AND APTEROUS GREEN PEACH APHIDS ON BURLEY TOBACCO IN KENTUCKY.
J A Webster R Thurston
Entomol Soc Amer Ann 58(1) 132, 2 REFS.
Jan 1965 420 EN82
Air-cured tobacco, Aphididae, Kentucky.
- 7931-68
BIOLOGY OF ANOPHELES QUADRIMACULATUS UNDER FIELD CONDITIONS IN CENTRAL FLORIDA.
D E Weidhaas D H Woodard C H Schmidt H R Ford
Entomol Soc Amer Ann 58(2) 145-150, 11 REFS., 4 TABS.
Mar 1965 420 EN82
Anopheles, Florida, Insect biology.
- 7932-68
PHOTOPERIOD AND MOISTURE AS FACTORS INVOLVED IN THE TERMINATION OF DIAPAUSE IN THE PINK HOLLWORM, PECTINOPHORA GOSSYPIELLA.
S G Wellso P L Adkisson
Entomol Soc Amer Ann 57(2) 170-173, 10 REFS.
Mar 1964 420 EN82
Diapause, Pectinophora gossypiella.
- 7933-68
THE ANT LARVAE OF THE SUBFAMILY PONERINAE SUPPLEMENT.
G C Wheeler J Wheeler
Entomol Soc Amer Ann 57(4) 443-462, 22 REFS., 19 FIGS.
Jul 1964 420 EN82
Larvae, Ponerinae.
- 7934-68
EFFERIA COQUILLET IN AMERICA NORTH OF MEXICO (DIPTERA ASILIDAE).
J Wilcox
Calif Acad Sci Proc 34(SER.4) 85-234
19 Sep 1966 500 C12P
Asilidae, Efferia.
Includes new species from America north of Mexico.
- 7935-68
NEW COPHURA, WITH REVISED KEYS TO THE GROUPS AND TO THE NEARCTIC SPECIES (DIPTERA ASILIDAE).
J Wilcox
Entomol Soc Amer Ann 58(6) 805-816, 7 REFS.
Nov 1965 420 EN82
Asilidae, Cophura, Insect taxonomy.
- 7936-68
OBSERVATIONS ON HABITATS OF CULICOIDES LARVAE IN TRINIDAD, W. I. (DIPTERA CERATOPOGONIDAE).
R W Williams
Entomol Soc Amer Ann 57(4) 462-466, 4 REFS.
Jul 1964 420 EN82
Ceratopogonidae, Culicoides, Diptera, Larvae, Trinidad.
- 7937-68
OBSERVATIONS ON GEO-ORIENTATION OF SPRUCE HUDWORM, CHORISTONEURA FUMIFERANA, ADULTS.
L F Wilson
Entomol Soc Amer Ann 57(5) 645-648, 2 REFS., 3 FIGS.
Sep 1964 420 EN82
Choristoneura, Geotropism, Gravitation, Ovipositors.
- 7938-68
OVIPOSITION SITE OF THE SPRUCE BUDWORM, CHORISTONEURA FUMIFERANA, MODIFIED BY LIGHT.
L F Wilson
Entomol Soc Amer Ann 57(5) 643-645, 3 REFS.
Sep 1964 420 EN82
Choristoneura, Light, Ovipositors.
- 7939-68
A NEW SPECIES OF BLISTER-FORMING ERIOPHYID MITE ON PEAR.
N S Wilson
Entomol Soc Amer Ann 58(3) 327-330, 4 REFS., 12 FIGS.
May 1965 420 EN82
Eriophyid, Insect taxonomy, Mites, Pears.
- 7940-68
A REVISION OF THE SHORE FLIES OF THE GENUS HRACHYDEUTERA LOEW (DIPTERA EPHYDRIDAE).
W W Wirth
Entomol Soc Amer Ann 57(1) 3-12, 1 REF.
Jan 1964 420 EN82
Brachydeutera, Insect taxonomy.
- 7941-68
NEW SPECIES AND RECORDS OF NORTH AMERICAN MONOHELEA (DIPTERA CERATOPOGONIDAE).
W W Wirth R W Williams
Entomol Soc Amer Ann 57(3) 302-310, 1 REF., 37 FIGS.
May 1964 420 EN82
Ceratopogonidae, Diptera, North America.
- 7942-68
BIOLOGY OF MEGALOTOMUS QUINQUESPINOSUS (HEMIPTERA ALYDIDAE).
T R Yonke J T Medler
Entomol Soc Amer Ann 58(2) 222-224, 13 REFS.
Mar 1965 420 EN82
Alydidae, Insect biology, Insect taxonomy, Megalotomus.
- 7943-68
SOME OBSERVATIONS ON TERRITORILITY AND OVIPOSITION IN ANAX JUNIUS (ODONATA AESHNIDAE).
A M Young
Entomol Soc Amer Ann 58(5) 767-768, 6 REFS.
Sep 1965 420 EN82
Anax, Insect ecology, Odonata, Ovipositors.
- 7944-68
THE COMPARATIVE EXTERNAL MORPHOLOGY OF TRICHOBIUS CORYNORHINI, T. MAJOR, AND T. SPHAERONOTUS (DIPTERA, STREBLIDAE) PART II. THE THORAX.
V H Zeve D E Howell
Entomol Soc Amer Ann 56(1) 2-17, 7 REFS., 1 TAB.
Jan 1963 420 EN82
Diptera, Insect morphology.
- 7945-68
THE COMPARATIVE EXTERNAL MORPHOLOGY OF TRICHOBIUS CORYNORHINI, T. MAJOR, AND T. SPHAERONOTUS (DIPTERA, STREBLIDAE) PART III. THE ABDOMEN.
V H Zeve D E Howell
Entomol Soc Amer Ann 56(2) 127-138, 7 REFS.
Mar 1963 420 EN82
Insect morphology, Trichobius.

Physiology and Biochemistry

- 7946-68
MECHANISMS OF INSECT RESISTANCE ARE MANIFOLD AND HIGHLY EFFICIENT.
Agr Chem 17(5) 22-23
May 1962 381 AG8
DDT, Insect behavior, Musca domestica.
- 7947-68
NEW JERSEY COURT UPHOLDS GYPSY MOTH SPRAYING.
Agr Chem 20(3) 72
Mar 1965 381 AG8
Insect control, Porthetria, Spraying.
- 7948-68
NOTES ON THE BIOLOGY, PARASITES, AND INQUILINES OF PONTANIA PACIFICA (HYMENOPTERA TENTHREDINIDAE), A LEAF-GALL INCITANT ON SALIX LASIOLEPIS.
Entomol Soc Amer Ann 57(3) 279-291, 25 REFS., 5 FIGS.
May 1964 420 EN82
Insect biology, Tenthredinidae.
- 7949-68
INSECTICIDE RESISTANCE IN HRACON MELLITOR, A PARASITE OF THE HOLL WEEVIL.
C H Adams W H Cross
J Econ Entomol 60(4) 1016-1020
15 Aug 1967 421 J822
Anthonomus grandis, Beneficial insects, Hracon mellitor, Carbaryl, Ddt, Insecticide resistant insects, Methyl parathion, Parasitism, Toxaphene.

BIBLIOGRAPHY

- 10 7950-68
Abstract
- 7950-68
A COMPARISON OF CERTAIN ARTIFICIAL DIETS FOR LABORATORY CULTURES OF THE PINK BOLLWORM.
P L Adkisson D L Bull W E Allison
J Econ Entomol 53(5) 791-793, TABS.
Oct 1960 421 J822
Casein, Cottonseed, Culture media, Diet, Pectinophora gossypiella.
- 7951-68
A WHEAT GERM MEDIUM FOR REARING THE PINK BOLLWORM.
P L Adkisson E S Vanderzant D L Bull W E Allison
J Econ Entomol 53(5) 759-762, TABS.
Oct 1960 421 J822
Culture media, Insect rearing, Pectinophora gossypiella, Wheat germ.
- 7952-68
RESISTANCE OF THE LUCERNE WEEVIL TO HEPTACHLOR.
V E Adler C C Blickenstaff
J Sci Food Agr 15(9) II-133-10
Sep 1964 382 S012
Heptachlor, Hypera, Insecticide resistant insects.
- 7953-68
EFFECTS OF LOW TEMPERATURES ON THE EGGS OF THE ANGOUMOIS GRAIN MOTH, AND THE CONFUSED FLOUR BEETLE.
V E Adler
J Econ Entomol 53(5) 973-974
Oct 1960 421 J822
Eggs, Sitotroga, Temperature, Tribolium.
- 7954-68
MORPHOLOGY OF THE CENTRAL NERVOUS SYSTEM OF THE BOLL WEEVIL, ANTHONOMUS GRANDIS (COLEOPTERA CURCULIONIDAE), AND SOME ELECTROPHYSIOLOGICAL TECHNIQUES.
H R Agee
Entomol Soc Amer Ann 60(4) 779-783
17 Jul 1967 420 EN82
Anthonomus grandis, Central nervous system, Electrophysiology, Insect morphology.
Abstract
- 7955-68
BIOLOGY AND IMMATURE STAGES OF THREE SPECIES OF OTITIDAE (DIPTERA) WHICH HAVE SAPROHAGOUS LARVAE.
E J Allen B A Foote
Entomol Soc Amer Ann 60(4) 826-836 REF
17 Jul 1967 420 EN82
Delphinia picta, Feeding, Insect biology, Larvae, Otitidae, Physiphora demandata, Saprohagous insects, Scioptera vibrans.
Abstract
- 7956-68
CHEMICAL COMPOSITION, ENVIRONMENTAL CONDITIONS AND BODY WEIGHT AS RELATED TO ENDRIN TOLERANCE IN THE BOLL WEEVIL.
W E Allison
J Sci Food Agr 15(9) II-132-7
Sep 1964 382 S012
Anthonomus grandis, Endrin, Insect metabolism, Insecticide resistant insects, Lipids, Photoperiodism, Temperature.
- 7957-68
HCST-PLANT SELECTION BY THE MEXICAN BEAN BEETLE, EPILACHNA VARIVESTIS.
M G Augustine F W Fisk R H Davidson J B LaPids R W Cleary
Entomol Soc Amer Ann 57(1) 127-134, 25 REFS., 5 TABS.
Jan 1964 420 EN82
Beans, Epilachna, Sucrose.
- 7958-68
INFLUENCE OF CERTAIN BIOLOGICAL AND ENVIRONMENTAL FACTORS ON INSECTICIDE TOLERANCE OF THE LYGUS BUG LYGUS HESPERUS.
O G Bacon W D Biley G Zweig
J Sci Food Agr 15(9) II-133-11
Sep 1964 382 S012
DDT, Insect physiology, Insecticide resistant insects, Lipids, Lygus, Temperature, Toxaphene.
- 7959-68
LABORATORY EVALUATION OF CERTAIN CHLORINATED HYDROCARBON INSECTICIDES AGAINST THE IMPORTED FIRE ANT.
W A Banks C S Lofgren C Stringer Jr
J Sci Food Agr 15(10) II-187-7
Oct 1964 382 S012
Insecticides, Solenopsis, Toxicology.
- 7960-68
TWO CONFIRMED MUTATIONS IN THE BOLL WEEVIL.
A C Bartlett
Entomol Soc Amer Ann 57(2) 261-262, 3 REFS.
Mar 1964 420 EN82
Anthonomus grandis, Insect mutation.
- 7961-68
TOXICITY OF SOME PESTICIDES TO EGGS, LARVAE AND ADULTS OF THE GREEN LACEWING, CHRYSOPA CARNEA.
B R Bartlett
J Sci Food Agr 15(10) II-185-9
Oct 1964 382 S012
Aldrin, Chrysopa, Dieldrin, Endosulfan, Endrin, Heptachlor.
- 7962-68
THE DEVELOPMENTAL BIOLOGIES OF TWO ENCYRTID PARASITES OF COCCUS HESPERIDUM AND THEIR INTRINSIC COMPETITION.
B R Bartlett J C Ball
Entomol Soc Amer Ann 57(4) 496-503, 14 REFS.
Jul 1964 420 EN82
Coccus, Insect biology, Metaphycus, Microterys.
- 7963-68
SOME EFFECTS OF AGE, PREIMAGINAL HABITAT AND ADULT FOOD ON SUSCEPTIBILITY OF BOLL WEEVIL TO CERTAIN INSECTICIDES.
M H Bass J W Rawson
J Sci Food Agr 12(1) I-21-1
Jan 1961 382 S012
Anthonomus grandis, Azinphosmethyl, Benzene hexachloride, Insect behavior, Insect nutrition, Toxaphene.
- 7964-68
OBSERVATIONS ON HOUSE FLIES IN HIGH-OZONE ENVIRONMENTS.
R L Beard
Entomol Soc Amer Ann 58(3) 404-405, 3 REFS.
May 1965 420 EN82
Musca domestica, Ozone.
- 7965-68
CHANGES IN STORED GLYCOGEN AND LIPID ASSOCIATED WITH DIAPAUSE OF THE ADULT BOLL WEEVIL, ANTHONOMUS GRANDIS (COLEOPTERA CURCULIONIDAE).
N L Betz E N Lambremont
Entomol Soc Amer Ann 60(4) 866-867 REF
17 Jul 1967 420 EN82
Anthonomus grandis, Diapause, Glycogen, Insect physiology, Lipids.
- 7966-68
PHYSIOLOGICAL EFFECT OF CARBAMATES ON LEPIDIUM SATIVUM.
F Beye
J Sci Food Agr 12(6) I-279-4
Jun 1961 382 S012
Dimetan, Isolan, Lepidium, Phenylurethane, Plant physiology, Pyrolan.
- 7967-68
DEVELOPMENT OF HEPTACHLOR RESISTANCE IN THE LUCERNE WEEVIL IN VIRGINIA.
J L Bishop
J Sci Food Agr 15(12) II-294-1
Dec 1964 382 S012
Dieldrin, Heptachlor, Hypera, Insecticide resistant insects, Virginia.
- 7968-68
INSECT DEFENSIVE SECRETIONS HEX-2-ENAL-1 IN PELMATOSILPHA CORIACEA (BLATTARIA) AND ITS REPELLENT VALUE UNDER NATURAL CONDITIONS.
M S Blum
Entomol Soc Amer Ann 57(5) 600-602, 12 REFS.
Sep 1964 420 EN82
Blattidae, Hex-2-enal-1, Insect protective devices.
- 7969-68
INSECTICIDAL DEGRADATION BY PSEUDOMONAS MELOPHTHORA, THE BACTERIAL SYMBIOTE OF THE APPLE MAGGOT.
G M Boush F Matsumura
J Econ Entomol 60(4) 918-920 REF
15 Aug 1967 421 J822
Bacteria, Degradation, Insecticides, Pseudomonas melophtora, Rhagoletis pomonella, Symbiosis.
Abstract
- 7970-68
COURTSHIP BEHAVIOR AND EVIDENCE FOR A SEX PHEROMONE IN THE APPLE MAGGOT PARASITE OPIUS ALLOEUS (HYMENOPTERA BRACONIDAE).
G M Boush R J Baerwald

BIBLIOGRAPHY

10 7991-68

- Entomol Soc Amer Ann 60(4) 865-866
17 Jul 1967 420 EN82
Opilus alloeus, Parasitic insects, Pheromones,
Rhagoletis pomonella, Sex attractants, Sex behavior.
- 7971-68
NOTES ON ANTISTROPHUS PISUM (HYMENOPTERA CYNIPIDAE) AND
THREE TYPES OF GALLS INDUCED BY IT ON LYGODESMIA JUNCEA.
C T Brandhorst
Entomol Soc Amer Ann 57(1) 74-77, 4 REFS., 6 FIGS.
Jan 1964 420 EN82
Antistrophus, Lygodesmia.
- 7972-68
DDT-RESISTANCE IN HELIOTHIS ZEA.
J R Brazzel
J Sci Food Agr 15(12) II-294-3
Dec 1964 382 S012
DDT, Insecticide resistant insects, Texas.
- 7973-68
CERTAIN FACTORS INFLUENCING DIAPAUSE IN THE PINK BOLLWORM,
PECTINOEHOBA GOSSYPIELLA.
D L Bull P L Adkisson
J Econ Entomol 53(5) 793-798, TABS.
Oct 1960 421 J822
Cottonseed, Diapause, Pectinophora gossypiella, Wheat germ.
- 7974-68
DEVELOPMENT OF CHLORDANE AND MALATHION RESISTANCE IN GERMAN
COCKROACHES.
G S Burden C S Lofgren C N Smith
J Sci Food Agr 12(5) I-224-1
May 1961 382 S012
Blatella, Chlordane, Insecticide resistant insects, Malathion.
- 7975-68
DEVELOPMENT OF CHLORDANE AND MALATHION RESISTANCE IN THE
GERMAN COCKROACH.
G S Burden C S Lofgren C N Smith
J Econ Entomol 53(6) 1138-1139, 4 REFS., PL.
Dec 1960 421 J822
Blattella germanica, Chlordane, Malathion.
- 7976-68
FORMICIDAE ASSOCIATED WITH THE TULIPTREE SCALE.
D P Burns
Entomol Soc Amer Ann 57(1) 137-139, 5 REFS., 3 FIGS.
Jan 1964 420 EN82
Formicidae, Liriiodendron, Toumeyella.
- 7977-68
SOME EFFECTS OF FOOD AND SUBSTRATE ON OVIPOSITION OF THE
SPOTTED CUCUMBER BEETLE.
R B Chalfant E R Mitchell
J Econ Entomol 60(4) 1010-1012
15 Aug 1967 421 J822
Diabrotica undecimpunctata howardi, Insect eggs,
Insect nutrition, Insect rearing, Ovipositors, Soils.
Abstract
- 7978-68
SURVIVAL OF FIRST-INSTAR COMMON CATTLE GRUBS UNDER ANAEROBIC
CONDITIONS IN VITRO.
W F Chamberlain
Entomol Soc Amer Ann 57(6) 799-800, 1 REF.
Nov 1964 420 EN82
Hypoderma, Insect respiration, Larvae.
- 7979-68
METABOLISM IN VIVO OF ¹⁴C-LABELLED PYRETHRIN I AND CINERIN
I BY HOUSEFLIES WITH SPECIAL REFERENCE TO THE SYNERGISTIC
MECHANISM.
S C Chang C W Kearns
J Sci Food Agr 15(10) II-221-2
Oct 1964 382 S012
Insect metabolism, Musca domestica, Pyrethrum.
- 7980-68
BIOLOGY AND LIFE HISTORY OF DENDROCTONUS ADJUNCTUS (CO-
LEOPTERA SCOLYTIDAE).
J F Chansler
Entomol Soc Amer Ann 60(4) 760-767
17 Jul 1967 420 EN82
Dendroctonus adjunctus, Insect biology.
Abstract
- 7981-68
INTERNAL DDE PRODUCTION BY NORMAL AND DDT-RESISTANT
LARVAE OF Aedes Aegypti.
A N Chatteraj A W A Brown
J Econ Entomol 53(6) 1049-1051, 11 REFS., 3 TABS.
Dec 1960 421 J822
Aedes aegypti, DDE, DDT, Insecticide resistant insects,
Larvae.
- 7982-68
LABORATORY STUDIES ON RESISTANCE OF THE BODY LOUSE TO
INSECTICIDES.
P H Clark M M Cole
J Sci Food Agr 15(10) II-221-3
Oct 1964 382 S012
Carbaryl, DDT, Insecticide resistant insects, Lindane,
Malathion, Pediculus.
- 7983-68
A TECHNIQUE FOR INDUCING ATTACKS AND MATING OF THE MOUNTAIN
PINE BEETLE, DENDROCTONUS PONDEROSAE (=MONTICOLAE) (COLE-
OPTERA SCOLYTIDAE).
W E Cole C Weenig
Entomol Soc Amer Ann 60(4) 857-858
17 Jul 1967 420 EN82
Dendroctonus ponderosae, Insect rearing, Sex behavior.
- 7984-68
CARBONYL COMPOUNDS PRODUCED BY THE MEADOW PLANT BUG, LEP-
TOPTERNA DOLABRATA (HEMIPTERA MERIDAE).
R P Collins T H Drake
Entomol Soc Amer Ann 58(5) 764-765, 3 REFS.
Sep 1965 420 EN82
Carbonyl group, Leptopterna, Miridae, Scent glands.
- 7985-68
ANTIFERTILITY EFFECTS OF ANTHELMINTHICS IN INSECTS.
M M Crystal
J Sci Food Agr 15(12) II-294-6
Dec 1964 382 S012
Antimony dimercaptosuccinate, Benzimidazole, 2-(4-thiazolyl)-,
Chloroquine diphosphate, Cochliomyia, Emetine, Fertility,
Tartar emetic, Thiabendazole.
- 7986-68
RESISTANCE TO MALATHION IN THE MOSQUITO, Culex tarsalis.
D I Darrow F W Plapp
J Sci Food Agr 12(3) I-152-4
Mar 1961 382 S012
Culex, Culicidae, Insecticide resistant insects, Malathion.
- 7987-68
STUDIES ON RESISTANCE TO MALATHION IN THE MOSQUITO, Culex
TARSALIS.
D I Darrow F W Plapp
J Econ Entomol 53(5) 777-781, TABS.
Oct 1960 421 J822
Coumaphos, Culex, Dieldrin, DDT, Malathion.
- 7988-68
SOIL TEMPERATURE AND SOIL MOISTURE FACTORS AFFECTING THE
SURVIVAL OF EGGS OF THE ROOT-KNOT NEMATODES MELOIDOGYNE
JAVANICA JAVANICA AND M. HAPLA.
R A C Daulton
J Sci Food Agr 12(1) I-21-9
Jan 1961 382 S012
Meloidogyne, Nematodes, Soil moisture, Soil temperature.
- 7989-68
AGE AT SEXUAL MATURITY IN FEMALE FLOUR BEETLES, TRIBOLIUM
CASTANEUM AND T. CONFUSUM.
P S Dawson
Entomol Soc Amer Ann 57(1) 1-3, 3 REFS.
Jan 1964 420 EN82
Sexual maturity, Tribolium.
- 7990-68
LARVAL CHAETOTAXY AND NOTES ON THE BIOLOGY OF TOXORHYNCHI-
TES RUTILUS SEPTENTRIONALIS (DIPTERA CULICIDAE).
H R Dodge
Entomol Soc Amer Ann 57(1) 46-53, 6 REFS.
Jan 1964 420 EN82
Chaetotaxy, Culicidae, Diptera, Toxorhynchites.
- 7991-68
LOWER ALIPHATIC AMINES AS CHEMICAL ATTRACTANTS, FOR
MILICHIELLA LACTEIPENNIS (DIPTERA MILICHIIDAE).
R W Dorner M S Mulla
Entomol Soc Amer Ann 56(1) 1-2, 4 REFS., 1 TAB.
Jan 1963 420 EN82

BIBLIOGRAPHY

- 10 7992-68
Attractants, Diptera, Milichiella.
- 7992-68
SOME RELATIONSHIPS BETWEEN HOST, FGG POTENTIAL, AND PUPAL WEIGHT OF THE ELM SPANWORM, ENNOMOS SUBSIGNARIUS (LEPIDOPTERA GEOMETRIDAE).
A T Drooz
Entomol Soc Amer Ann 58(2) 243-244, 4 REFS., 3 TABS.
Mar 1965 420 EN82
Carya, Geometridae, Insect biology, Insect morphology, Quercus.
- 7993-68
SEX DIFFERENCES IN THE FREE AMINO ACIDS OF THREE COLONIZED MOSQUITO SPECIES.
J P Duffy
Entomol Soc Amer Ann 57(1) 24-28, 17 REFS.
Jan 1964 420 EN82
Aedes aegypti, Amino acids, Culicidae, Sex.
- 7994-68
EVALUATION OF THE RATE OF REPRODUCTION OF THE TWO-SPOTTED SPIDER MITE REARED ON GIBBERELLIN-TREATED BEAN PLANTS.
J Eichmeier G Guyer
J Sci Food Agr 12(1) I-19-8
Jan 1961 382 S012
Beans, Gibberellins, Insect physiology.
- 7995-68
DEFENSE MECHANISMS OF ARTHROPODS. XVI. PARA-BENZOQUINONES IN THE SECRETION OF SPIROSTREPTICID MILLIPEDES.
T Eisner J J Hurst W T Keeton Y Meinwald
Entomol Soc Amer Ann 58(2) 247-248, 7 REFS., 3 FIGS.
Mar 1965 420 EN82
Diplopoda, Insect protective devices, Para-benzoquinones.
- 7996-68
DEFENSE MECHANISMS OF ARTHROPODS. VIII. SECRETION OF SALICYLALDEHYDE BY A CARABID BEETLE.
T Eisner C Swithentank J Meinwald
Entomol Soc Amer Ann 56(1) 37-41, 11 REFS.
Jan 1963 420 EN82
Insect protective devices.
- 7997-68
SOME EFFECTS OF GAMMA RADIATION ON THE POTATO TUBERWORM, GNORIMOSCHEMA OPERCULELLA (LEPIDOPTERA GELECHIIDAE).
E Elbadry
Entomol Soc Amer Ann 58(2) 206-209, 5 REFS., 5 TABS.
Mar 1965 420 EN82
Gamma rays, Insect morphology, Phthorimaea.
- 7998-68
SOME GAMMA RADIATION EFFECTS ON HOST-PARASITOID RELATIONSHIPS.
E Elbadry
Entomol Soc Amer Ann 58(2) 209-212, 7 REFS., 3 TABS.
Mar 1965 420 EN82
Gamma rays, Host-parasite relationships, Insect morphology.
- 7999-68
COMPARISON OF STEROLS IN RESISTANT AND SUSCEPTIBLE HOUSEFLIES, MUSCA DOMESTICA.
O Egan R Miskus R Craig
J Sci Food Agr 15(10) II-221-1
Oct 1964 382 S012
DDT, Insecticide resistant insects, Malathion, Musca domestica, Parathion, Sterols.
- 8000-68
APHOLATE CHEMOSTERILIZATION OF THE CEREAL BEETLE.
M I Ezueh R A Hoopingarner
J Econ Entomol 60(4) 907-910
15 Aug 1967 421 J822
Apholate, Biological control (insects), Chemosterilants, Oulema melanopus.
Abstract
- 8001-68
AN AGGLUTINATING FACTOR IN INSECT HEMOLYMPH.
D Feir M A Walz
Entomol Soc Amer Ann 57(3) 388, 2 REFS.
May 1964 420 EN82
Agglutination test, Hemolymph, Oncopectus.
- 8002-68
DIGESTIVE CARBOHYDRASES IN THE CUBAN BURROWING COCKROACH.
F W Fisk B R Rao
Entomol Soc Amer Ann 57(1) 40-44, 20 REFS., 3 TABS.
Jan 1964 420 EN82
- Byrsotria, Carbohydrases.
- 8003-68
EFFECTS OF TEMPERATURE AND PARENTAL AGE ON THE LIFE CYCLE OF THE BODY LOUSE, PEDICULUS HUMANUS HUMANUS.
M B Flemings D Ludwig
Entomol Soc Amer Ann 57(5) 560-563, 12 REFS., 3 TABS.
Sep 1964 420 EN82
Insect morphology, Pediculus, Temperature.
- 8004-68
SYSTEMIC AND TOPICAL INSECTICIDAL ACTIVITY OF SOME SUBSTITUTED PHOSPHATES AND PHOSPHOROTHIOATES.
A D Flynn W G Eden
J Sci Food Agr 12(1) I-15-3
Jan 1961 382 S012
Aedes aegypti, Cimex, Insecticides, Oo-dimethyl 2,4-dichlorophenyl phosphate, Oo-dimethyl 2,4,5-trichlorophenyl phosphate, Stomoxys.
- 8005-68
FURTHER STUDIES ON THE TOXICITY OF INSECTICIDES TO DIAZINON-RESISTANT MUSCA DOMESTICA.
A J Forgas E J Hansens
J Econ Entomol 53(5) 741-745
Oct 1960 421 J822
Barthrin, Demeton, Diazinon, Dicapthon, Dichlorvos, Dimethoate, Endosulfan, Heptachlor, Heptachlor epoxide, Insecticide resistant insects, Mevinphos, Musca domestica, Naled, Phorate.
- 8006-68
TOXICITY OF INSECTICIDES TO DIAZINON-RESISTANT MUSCA DOMESTICA.
A J Forgas E J Hansens
J Sci Food Agr 12(3) I-152-1
Mar 1961 382 S012
Diazinon, Insecticide resistant insects, Musca domestica.
- 8007-68
ABSORPTION, METABOLISM AND EXCRETION OF C14-LABELLED TDE IN CERTAIN INSECTS.
P E Gatterdam R K De F E Guthrie T G Bowery
J Sci Food Agr 15(10) ---187-4
Oct 1964 382 S012
Argyrotaenia, Insect metabolism, Metabolites, Periplaneta, Protoparce, TDE.
- 8008-68
EFFECT OF THE CHEMOSTERILANT HEMPA ON THE YELLOW-FEVER MOSQUITO AND ITS LIABILITY TO INDUCE RESISTANCE.
J A George A W A Brown
J Econ Entomol 60(4) 974-978
15 Aug 1967 421 J822
Aedes aegypti, Chemosterilants, Hempa, Heredity, Resistance, Sterilization.
Abstract
- 8009-68
SOME ASPECTS OF THE INTERNAL ANATOMY OF THE LEAFHOPPER AGALLIA CONSTRICTA (HOMOPTERA CICADELLIDAE).
C Gil-Fernandez L M Black
Entomol Soc Amer Ann 58(3) 275-284, 22 REFS., 12 FIGS.
May 1965 420 EN82
Agallia, Cicadellidae, Insect anatomy.
- 8010-68
NUTRITIONAL STUDIES ON SCREW-WORM LARVAE WITH CHEMICALLY DEFINED MEDIA.
R E Gingrich
Entomol Soc Amer Ann 57(3) 351-360, 10 REFS., 12 TABS.
May 1964 420 EN82
Cochliomyia, Insect nutrition.
- 8011-68
VAPOUR TOXICITY AND VAPOUR SELECTION FOR RESISTANCE OF THE TWOSPOTTED SPIDER MITE (TETRANYCHUS TELARIOS) USING DDVP.
B M Glancey
J Sci Food Agr 15(11) II-239-3
Nov 1964 382 S012
Dichlorvos, Insecticidal aerosols, Insecticide resistant insects, Tetranychus.
- 8012-68
ANALOG-SYNERGISM OF SEVERAL CARBAMATE INSECTICIDES.
H T Gordon M E Eldefrawi
J Econ Entomol 33(6) 1004-1009, 16 REFS.
Dec 1960 421 J822
Analog synergism, Blattella germanica, Carbaryl, Dimethylcarbamate, 5-(3-methyl-1-phenylpyrazolyl), Dimetilan,

- Musca domestica, Pyroalan.
- 8013-68
ANALOGUE SYNERGISM OF SEVERAL CARBAMATE INSECTICIDES.
H T Gordon M E Elderfrawl
J Sci Food Agr 12(5) I-223-3
May 1961 382 S012
Blatella, Carbaryl, Dimetilan, Isolan, Musca domestica,
Pyroalan.
- 8014-68
SOME TECHNIQUES FOR THE PREPARATION, STUDY, AND STORAGE IN
MICROVIALS OF INSECT GENITALIA.
A B Gurney J P Kramer G C Steyskal
Entomol Soc Amer Ann 57(2) 240-242, 9 REFS.
Mar 1964 420 EN82
Glycerol, Sodium hydroxide.
- 8015-68
TOXICOLGY OF INSECTICIDES.
W J Harris Jr
J Sci Food Agr 15(11) II-238-2
Nov 1964 382 S012
Insecticides, Toxicology.
- 8016-68
ON THE BIOLOGY OF THREE BANANA PESTS IN COSTA RICA
(LEPIDOPTERA LIMACODIDAE, NYMPHALIDAE).
J O Harrison
Entomol Soc Amer Ann 56(1) 87-94, 4 REFS., 1 TAB.
Jan 1963 420 EN82
Butterflies, Insect biology.
- 8017-68
FEED ADDITIVES FOR CONTROL OF HOUSE-FLY LARVAE IN LIVESTOCK
FÆCES.
T L Harvey J R Brethour
J Sci Food Agr 12(3) I-152-2
Mar 1961 382 S012
Chemical control (insects), Feces, Feed additives,
Musca domestica.
- 8018-68
THE EFFECT OF PHOTOPERIOD ON FAT BODY AND OVARIAN DEVELOP-
MENT OF CULEX TARSA LIS (DIPTERA CULICIDAE).
R F Harwood E Halfhill
Entomol Soc Amer Ann 57(5) 596-600, 12 REFS., 3 FIGS.
Sep 1964 420 EN82
Culicidae, Insect morphology.
- 8019-68
SOME CHEMICAL CHARACTERISTICS OF A DDT- INDUCED NEUROACTIVE
SUBSTANCE FROM COCKROACHES AND CRAYFISH.
W B Hawkins J Sternburg
J Sci Food Agr 15(10) II-190-3
Oct 1964 382 S012
Blattidae, Central nervous system, Crayfish, DDT,
Tetraethyl pyrophosphate, Tetramethyl pyrophosphate.
- 8020-68
QUEEN-REARING AND THE AGE OF NURSE BEES.
M H Haydak N G Patel A Dietz
Entomol Soc Amer Ann 57(2) 262-263, 5 REFS.
Mar 1964 420 EN82
Apiculture, Queen bees.
- 8021-68
RELATION OF DDT-IRRITATION THRESHOLD TO KNOCKDOWN OF THREE
SPECIES OF ANOPHELINE MOSQUITOES.
O Hecht O Mancera A Barrera
J Econ Entomol 53(4) 634-640
Aug 1960 421 J822
Anopheles, DDT.
- 8022-68
LABORATORY STUDIES ON THE ADULT BEHAVIOR OF CONOPHTHORUS
CONIPERDUS (COLEOPTERA SCOLYTIDAE). IV. RESPONSES TO
TEMPERATURE AND HUMIDITY.
W R Henson
Entomol Soc Amer Ann 57(1) 77-85, 14 REFS., 11 FIGS.
Jan 1964 420 EN82
Coleoptera, Conopthorus, Humidity, Scolytidae, Temperature.
- 8023-68
MORPHOLOGY AND HISTOLOGY OF THE REPRODUCTIVE SYSTEM OF THE
IMPORTED FIRE ANT QUEEN, SOLENOPSIS SÆVISSIMA RICHTERI.
E R Hermann Jr M S Blum
Entomol Soc Amer Ann 58(1) 81-89, 12 REFS., 9 FIGS.
Jan 1965 420 EN82
Insect histology, Insect morphology, Reproductive organs,
- Solenopsis.
- 8024-68
POTATO FOLIAGE SUGAR CONCENTRATION IN RELATION TO INFESTA-
TION BY THE POTATO LEAFHOPPER, EMPOASCA FABAE (HOMOPTERA
CICADELLIDAE).
E T Hibbs D L Dahlman R L Rice
Entomol Soc Amer Ann 57(5) 517-521, 21 REFS., 3 TABS.
Sep 1964 420 EN82
Empoasca, Potatoes, Sugar.
- 8025-68
PREDATION BY THE LEECH HELOBDELLA NEPHELOIDEA ON LARVAE OF
TENDIPES PLUMOSUS (DIPTERA TENDIPEIDAE).
W L Hilsenhoff
Entomol Soc Amer Ann 57(1) 139, 1 REF.
Jan 1964 420 EN82
Helobdella, Predaceous insects, Tendipes.
- 8026-68
IDENTIFICATION OF TRIBOLIUM LARVAE BY THEIR SETAL CHARAC-
TERISTICS (COLEOPTERA TENEBRIONIDAE).
F K Ho
Entomol Soc Amer Ann 60(4) 729-732
17 Jul 1967 420 EN82
Hair, Insect identification, Insect pests, Larvae,
Stored products, Tenebrionidae, Tribolium.
Abstract
- 8027-68
GAMETOGENESIS AND RADIATION EFFECTS IN THE CEREAL LEAF BEE-
TLE, OULEMA MELANOPEA.
R A Hoopingarner S Kumararaj A L French
Entomol Soc Amer Ann 58(6) 777-781, 13 REFS., 6 FIGS.
Nov 1965 420 EN82
Gametogenesis, Oulema, Radioactivity.
- 8028-68
BIOLOGY OF THE PERIODICAL CICADA IN GEORGIA.
P E Hunter H O Lund
J Econ Entomol 53(5) 961-963, 10 REFS.
Oct 1960 421 J822
Cicadidae, Georgia, Insect biology.
- 8029-68
DEFENSE MECHANISMS OF ARTHROPODS XII. GLUCOSE AND HYDROCAR-
BONS IN THE QUINONE-CONTAINING SECRETION OF ELEODES LONGI-
COLLIS.
J J Hurst J Meinwald T Eisner
Entomol Soc Amer Ann 57(1) 44-46, 11 REFS.
Jan 1964 420 EN82
Eleodes, Glucose, Hydrocarbons, Insect protective devices,
Quinones.
- 8030-68
NOTES ON THE BEHAVIOR OF FOUR SUBSPECIES OF THE CARPENTER
BEE, XYLOCOPEA (NOTOXYLOCOPEA) TABANIFORMIS, IN MEXICO.
D H Janzen
Entomol Soc Amer Ann 57(3) 296-301, 4 REFS.
May 1964 420 EN82
Bee behavior, Mexico, Xylocopa.
- 8031-68
TOXICITY OF DICHLORVOS IN AIR TO ADULT DROSOPHILA MELANO-
GASTER.
E G Jay P K Harein H B Gillenwater
J Sci Food Agr 15(10) II-184-8
Oct 1964 382 S012
Dichlorvos, Drosophila, Insecticidal aerosols.
- 8032-68
TOXICITY OF SEVERAL DICHLORVOS (DDVP) AND NALED FORMULA-
TIONS TO ADULT CONFUSED FLOUR BEETLE.
E G Jay H B Gillenwater P K Harein
J Sci Food Agr 15(10) II-184-7
Oct 1964 382 S012
Dichlorvos, Insecticide application, Naled, Tribolium.
- 8033-68
RESPONSE OF CITRUS MITES TO SELECTED QUINOXALINE CYCLIC
DI- OR TRITHIOCARBONATES.
L R Jeppson M J Jesser J O Complin
J Econ Entomol 60(4) 994-999 REF
15 Aug 1967 421 J822
Chemical control (insects), Dimercapto-quinoxaline, 2,3-,
Dithiocarbonates, Horestan, Panonychus citri,
Tetranychus pacificus, Thioquinox, Toxicity,
Trithiocarbonates.
Abstract

BIBLIOGRAPHY

10 8034-68

- 8034-68
CCCKCHAFERS, MELOLONTHA MELOLONTHA, L. AND
M. HIPPCASTANI, FABR.
J Joergensen
J Sci Food Agr 12(5) I-227-7
May 1961 382 S012
Aldrin, Chlordane, DDT, Lindane, Scarabaeidae.
- 8035-68
SOME IRRADIATION STUDIES AND RELATED BIOLOGICAL DATA FOR
CULICOIDES VARIIPENNIS (DIPTERA CERATOPOGONIDAE).
R H Jones
Entomol Soc Amer Ann 60(4) 836-846
17 Jul 1967 420 EN82
Culicoides variipennis, Gamma rays, Insect eggs.
Abstract
- 8036-68
DISAPPEARANCE OF BLOOD FROM THE GUT OF ENGORGED ECHINOLAE-
LAES ECHIDNINUS (ACAFINA LAELAPTIDAE).
K Kanungo
Entomol Soc Amer Ann 57(4) 427-428, 7 REFS.
Jul 1964 420 EN82
Acarina, Insect physiology.
- 8037-68
BIOLOGICAL STUDIES ON SOME BAVARIAN ACRIDOIDEA (ORTHOP-
TERA), WITH SPECIAL REFERENCE TO THEIR FEEDING HABITS.
T Kaufmann
Entomol Soc Amer Ann 58(6) 791-801, 24 REFS., 6 FIGS., 8 TABS.
Nov 1965 420 EN82
Acridoidea, Insect biology, Insect nutrition.
- 8038-68
LABORATORY TESTS OF INSECTICIDES AGAINST EGGS AND LARVAE OF
THE CABBAGE LOOPER.
W P Kerr J R Brazzel
J Sci Food Agr 12(5) I-226-5
May 1961 382 S012
Carbaryl, DDT, Endosulfan, Endrin, Toxaphene, Trichoplusia.
- 8039-68
LABORATORY REARING OF THE IMPORTED FIRE ANT.
A R Khan H B Green J R Brazzel
J Econ Entomol 60(4) 915-917
15 Aug 1967 421 J822
Chemical control (insects), Insect rearing equipment, Mirex,
Solenopsis saevissima.
Abstract
- 8040-68
NOTES ON THE LIFE CYCLE AND HABITS OF DIGAMASELLUS QUADRI-
SETUS (MESOSTIGMATA DIGAMASELLIDAE).
D N Kinn
Entomol Soc Amer Ann 60(4) 862-865
17 Jul 1967 420 EN82
Digamasselus quadrisetus, Insect behavior, Insect biology.
- 8041-68
BIOLOGY AND IMMATURE STAGES OF SNAIL-KILLING FLIES THE GE-
NUS ELGIVA (DIPTERA SCIOMYZIDAE).
L V Knutson C O Berg
Entomol Soc Amer Ann 57(2) 173-192, 18 REFS., 10 FIGS.
Mar 1964 420 EN82
Elgiva, Insect biology.
- 8042-68
OVIPOSITION HABITS OF TRICHOGRAMMA MINUTUM ON ARTIFICIAL
CONCENTRATIONS OF EGGS OF THE EUROPEAN PINE SHOOT MOTH.
H M Kulman
Entomol Soc Amer Ann 58(2) 241-243, 3 TABS.
Mar 1965 420 EN82
Ovipositors, Parasitism, Rhyacionia, Trichogramma.
- 8043-68
A STUDY OF THE DIGESTIVE TRACT OF FOUR INDIAN GYMNOCERATE
HEMIPTERA.
N G Kurur
Entomol Soc Amer Ann 57(2) 200-209, 38 REFS., 14 FIGS.
Mar 1964 420 EN82
Gastrointestinal system, Hemiptera.
- 8044-68
PROGRESSIVE SCLEROTIZATION AND MELANIZATION OF CERTAIN
STRUCTURES IN MALES OF A FIELD POPULATION OF HYPERA
BRUNNEIPENNIS (COLEOPTERA CURCULIONIDAE).
C F Lagace R Van Den Bosch
Entomol Soc Amer Ann 57(2) 247-252, 4 REFS., 9 FIGS.
Mar 1964 420 EN82
Curculionidae, Hypera, Melanins, Sclerotization.
- 8045-68
C14O2 PRODUCTION IN THE BOLL WEEVIL, ANTHONOMUS GRANDIS,
AFTER INJECTION OF C14-1-ACETATE.
E N Lambremont C I Stein
Entomol Soc Amer Ann 58(5) 765-766, 7 REFS.
Sep 1965 420 EN82
Anthonomus grandis, Carbon dioxide, C14-1-acetate, C14O2.
- 8046-68
STORAGE AND FATTY ACID COMPOSITION OF TRIGLYCERIDES DURING
ADULT DIAPAUSE OF THE BOLL WEEVIL.
E N Lambremont M S Blum R M Schrader
Entomol Soc Amer Ann 57(5) 526-532, 16 REFS., 6 TABS.
Sep 1964 420 EN82
Anthonomus grandis, Diapause, Glycerides.
- 8047-68
FEEDING AND NUTRITION OF LYGUS HESPERUS (HEMIPTERA MIRI-
DAE). I. SURVIVAL OF BUGS FED ON ARTIFICIAL DIETS.
D A Landes F E Strong
Entomol Soc Amer Ann 58(3) 306-309, 8 REFS., 4 TABS.
May 1965 420 EN82
Insect nutrition, Lygus, Miridae.
- 8048-68
TESTS WITH COMPOUNDS AFFECTING HOUSE-FLY METABOLISM.
G C LaBrecque P H Adcock C N Smith
J Sci Food Agr 12(3) I-152-3
Mar 1961 382 S012
Insect metabolism, Metabolites, Musca domestica.
- 8049-68
TESTS WITH COMPOUNDS AFFECTING HOUSE FLY METABOLISM.
G C LaBrecque P H Adcock C N Smith
J Econ Entomol 53(5) 802-805
Oct 1960 421 J822
Amethopterin, Amino benzoyl,
Glutamic acid, N-(p (2,4-diamino-6-pteridylmethyl)methyl)-
Insect metabolism, Methotrexate, Musca domestica.
- 8050-68
SELECTION FOR AUTOGENY IN Aedes Aegypti (DIPTERA CULI-
CIDAE).
A O Lea
Entomol Soc Amer Ann 57(5) 656-657, 7 REFS.
Sep 1964 420 EN82
Autogeny, Culicidae.
- 8051-68
BEHAVIOR CHANGES THE REPRODUCTION OF SPALANGIA CAMERONI,
S ENDIUS, MUSCIDIFURAX RAPTOR, AND NASONIA VITRIPENNIS
(HYMENOPTERA PTEROMALIDAE) AT INCREASING FLY HOST
DENSITIES.
E F Legner
Entomol Soc Amer Ann 60(4) 819-826 REF
17 Jul 1967 420 EN82
Biological control (insects), Insect behavior,
Musca domestica, Muscidifurax raptor, Nasonia vitripennis,
Parasitic insects, Pteromalidae, Reproduction,
Spalangia cameroni, Spalangia endius.
Abstract
- 8052-68
ON THE STABILITY OF INSECTICIDE RESISTANCE IN MOSQUITOES.
L L Lewallen
J Econ Entomol 53(6) 1122
Dec 1960 421 J822
Culicidae, Insecticide resistant insects, Malathion,
Musca domestica, Parathion.
- 8053-68
STABILITY OF INSECTICIDE-RESISTANCE IN MOSQUITOES.
L L Lewallen
J Sci Food Agr 12(5) I-256-1
May 1961 382 S012
Culicidae, Malathion, Parathion.
- 8054-68
TEMPERATURE AND MOISTURE IN RELATION TO THE TOXICITY OF 1,3-
DICHLOROPROPENE TO DITYLENCHUS DIPSACI IN ORGANIC SOIL.
G D Lewis W F Mai
J Sci Food Agr 15(10) II-187-6
Oct 1964 382 S012
Dichloropropene, 1,3-, Ditylenchus, Soil moisture,
Soil temperature, Telone.
- 8055-68
RESPONSE OF QUIESCENT KHAPRA BEETLE LARVAE TO FUMIGATION AND
TO LOW TEMPERATURES.
D L Lindgren L E Vincent

- J Econ Entomol 53(4) 698-699
Aug 1960 421 J822
Acrylonitrile, Fumigation, Hydrocyanic acid, Larvae,
Methyl bromide, Temperature, Trogoderma.
- 8056-68
NOTES ON FLASH COMMUNICATION IN THE FIREFLY PYRACOMENA
DISPERSA (COLEOPTERA LAMPYRIDAE).
J E Lloyd
Entomol Soc Amer Ann 57(2) 260-261, 2 REFS.
Mar 1964 420 EN82
Coleoptera, Lampyridae, Luminescence, Pyracomena.
- 8057-68
CONTROL OF IMPORTED FIRE ANTS WITH CHLORDANE.
C S Lofgren V E Adler W A Banks N Pierce
J Sci Food Agr 15(10) II-185-6
Oct 1964 382 S012
Chlordane, Solenopsis.
- 8058-68
EFFECT OF HEPTACHLOR AND CHLORDANE ON THE FORAGING ACTIVITY
OF IMPORTED FIRE ANTS.
C S Lofgren C Stringer Jr
J Sci Food Agr 15(10) II-187-5
Oct 1964 382 S012
Chlordane, Feeding, Heptachlor, Insect repellents, Solenopsis.
- 8059-68
CHANGES
HOMOGENATES OF THE YELLOW MEALWORM, TENEBRIO MOLITOR, DURING
AGING.
D Ludwig C R Jones
Entomol Soc Amer Ann 57(2) 210-213, 9 REFS.
Mar 1964 420 EN82
Amino acids, Insect biology, Tenebrio.
- 8060-68
TOXICITY OF INSECTICIDES TO FIFTH-INSTAR NYMPHS OF THE
DESERT LOCUST.
R D MacCuaig
J Sci Food Agr 12(1) I-21-8
Jan 1961 382 S012
Benzene hexachloride, Diazinon, Dieldrin, Dinitroresol,
Parathion, Schistocerca.
- 8061-68
DDT-RESISTANT CODLING MOTHS ON PEARS IN CALIFORNIA.
H F Madsen L A Falcon
J Sci Food Agr 12(5) I-223-8
May 1961 382 S012
Carpocapsa, DDT, Pears.
- 8062-68
EFFECT OF SESAMEX UPON DIELDRIN RESISTANCE IN THE GERMAN
COCKROACH.
F Matsumura J N Telford M Hayashi
J Econ Entomol 0 (4) 942-944 REF
15 Aug 1967 421 J822
Blattella germanica, Dieldrin, Insecticide resistant insects,
Sesamex.
abstract
- 8063-68
COMPOUNDS FOUND IN THE DEFENSIVE SCENT FLUID OF DICAELUS
SPLENDIDUS AND D DILATATUS (COLEOPTERA CARABIDAE).
T McCullough
Entomol Soc Amer Ann 60(4) 861
17 Jul 1967 420 EN82
Alanine, Amino acids, Dicaelus dilatatus, Dicaelus splendidus,
Insect protective devices, Proline, Scent glands.
- 8064-68
QUANTITATIVE DETERMINATION OF TRANS-2-HEXENAL IN THE DEPENSIVE
SCENT FLUID OF ACANTHOCEPHALA DECLIVIS AND A GRANU-
LOSA (HEMIPTERA COREIDAE).
T McCullough
Entomol Soc Amer Ann 60(4) 862
17 Jul 1967 420 EN82
Acanthocephala declivis, Acanthocephala granulosa,
Hexenal, trans-2-, Insect protective devices, Scent glands.
- 8065-68
A STUDY OF TERMITE FEEDING RELATIONSHIPS, USING
RADIOISOTOPES.
E A McMahan
Entomol Soc Amer Ann 56(1) 74-82, 25 REFS., 3 TABS.
Jan 1963 420 EN82
Feeding, Radioisotopes, Termites.
- 8066-68
STUDIES ON THE FEEDING, REPRODUCTION, AND DEVELOPMENT OF
AMHYSEIUS HIHISCI (ACARINA PHYTOSEIIDAE) ON VARIOUS
FOOD SUBSTANCES.
J A McMurtry G T Scriven
Entomol Soc Amer Ann 57(5) 649-655, 10 REFS., 3 TABS.
Sep 1964 420 EN82
Acarina, Insect behavior, Insect morphology.
- 8067-68
BIOLOGY OF RYGCHEM FORAMINATUM IN TRAP-NESTS IN WISCONSIN
(HYMENOPTERA VESPIDAE).
J T Medler
Entomol Soc Amer Ann 57(1) 56-60, 5 REFS., 4 TABS.
Jan 1964 420 EN82
Hymenoptera, Insect biology, Trapnests.
- 8068-68
DEFENSE MECHANISMS OF ARTHROPODS. XIV. CAPRYLIC ACID AN
ACCESSARY COMPONENT OF THE SECRETION OF ELEODES LONGICOL-
LIS.
Y C Meinwald T Eisner
Entomol Soc Amer Ann 57(4) 513-514, 5 REFS.
Jul 1964 420 EN82
Eleodes, Insect protective devices, Octanoic acid.
- 8069-68
METABOLISM OF 14C-LABELLED DDT IN THE LARVAE, PUPAE AND
ADULTS OF DROSOPHILA MELANOGASTER.
D H Menzel S M Smith R Miskus W M Hoskins
J Sci Food Agr 12(6) I-279-2
Jun 1961 382 S012
DDT, Drosophila melanogaster, Insect metabolism.
- 8070-68
ALKOXYPHENYL N METHYLCARBAMATES AS INSECTICIDES.
R L Metcalf T R Fukuto M Y Winton
J Econ Entomol 53(5) 828-832, 21 REFS., 3 TABS.
Oct 1960 421 J822
Culex, Estigmene, Insecticides, Musca domestica, Panonychus,
Piperonyl butoxide.
- 8071-68
VANILLIN AND SYRINGALDEHYDE AS ATTRACTANTS FOR SCOLYTUS
MULTISTRIATUS (COLEOPTERA SCOLYTIDAE).
H J Meyer D M Norris
Entomol Soc Amer Ann 60(4) 858-859
17 Jul 1964 420 EN82
Attractants, Coleoptera, Scolytus multistriatus,
Syringaldehyde, Vanillin.
- 8072-68
SUSCEPTIBILITY OF MOSQUITOES TO SILICA GEL INSECTICIDES.
D W Micks
J Sci Food Agr 12(4) I-207-9
Apr 1961 382 S012
Culicidae, Dri-Die, Silica gels.
- 8073-68
ESTIMATION OF NITROGENOUS COMPOUNDS IN THE FECES OF HOLL
WEEVILS, ANTHONOMUS GRANDIS, FED DIFFERENT DIETS.
N Mitlin D H Vickers R T Gast
Entomol Soc Amer Ann 57(6) 757-759, 23 REFS.
Nov 1964 420 EN82
Anthonomus grandis, Feces, Insect physiology,
Nitrogen compounds.
- 8074-68
ASSIMILATION BY APTEROUS ADULT MYZUS PERSICAE MAINTAINED ON
A SYNTHETIC DIET.
T E Mittler R H Dadd
Entomol Soc Amer Ann 58(3) 396-401, 7 REFS., 3 FIGS.
May 1965 420 EN82
Aphididae, Insect nutrition, Sucrose.
- 8075-68
STEROL ANTAGONISTS AND HOUSE FLY REPRODUCTION.
R E Monroe W E Robbins D L Chambers L A Tabor
Entomol Soc Amer Ann 56(1) 124-125, 6 REFS., 1 TAB.
Jan 1963 420 EN82
Insect eggs, Musca domestica, Reproduction, Sterols.
- 8076-68
SOME IN VITRO EFFECTS OF DINITROCREOSOL AND MAGNESIUM CHLO-
RIDE ON ATPASE IN THE HOLL WEEVIL.
R F Moore Jr H M Taft
Entomol Soc Amer Ann 57(1) 28-31, 9 REFS.
Jan 1964 420 EN82
Anthonomus grandis, Atpase, Dinitroresol, Magnesium chloride.

BIBLIOGRAPHY

10 8077-68

- 8077-68
EFFECTS OF HEMPA ON THE OVARIAN DEVELOPMENT OF THE HOUSE FLY, MUSCA DOMESTICA (DIPTERA MUSCIDAE).
P B Mcrgan
Entomol Soc Amer Ann 60(4) 812-818 REF
17 Jul 1967 420 EN82
Chemosterilants, Diptera, Hempa, Insect eggs, Musca domestica, Teja.
Abstract
- 8078-68
MASS PRODUCTION OF THE CITRUS RED MITE.
F Munger J E Gilmore
J Econ Entomol 53(5) 964-966, 4 REFS., PL.
Oct 1960 421 J822
Insect rearing equipment, Panonychus.
- 8079-68
A METHOD OF RELEASING STERILE MEDITERRANEAN FRUIT FLY ADULTS FROM AIRCRAFT.
D J Nadel J Monro E A Peleg H C F Figdor
J Econ Entomol 60 (4) 899-902
15 Aug 1967 421 J822
Aerial insect control, Aircraft disinfection, Biological control (insects), Insect dissemination, Tephritidae.
Abstract
- 8080-68
THE TOXIC ACTION OF A MIXTURE OF SEVIN AND P,P -DDT TO THE HOUSE FLY.
S Nagasawa
J Econ Entomol 53(5) 709-711
Oct 1960 421 J822
Carbaryl, Musca domestica, Para para -DDT, Toxicology.
- 8081-68
TOXIC ACTION OF A MIXTURE OF SEVIN AND PP- DDT TO THE HOUSE FLY.
S Nagasawa
J Sci Food Agr 12(3) I-151-2
Mar 1961 382 S012
Carbaryl, Musca domestica, Para para -DDT.
- 8082-68
THE CHEMICAL BASIS OF THE HOST SELECTION IN THE CATALPA SPHINX, CERATOMIA CATALPAE (LEPIDOPTERA, SPHINGIDAE).
J K Nayar G Fraenkel
Entomol Soc Amer Ann 56(1) 119-122, 7 REFS., 2 TABS.
Jan 1963 420 EN82
Ceratomia, Insect behavior.
- 8083-68
GLYCOGEN IN THE BOLL WEEVIL WITH RESPECT TO DIAPAUSE, AGE, AND DIET.
W C Nettles Jr N L Betz
Entomol Soc Amer Ann 58(5) 721-726, 24 REFS., 4 TABS.
Sep 1965 420 EN82
Anthonomus grandis, Diapause, Glycogen, Insect eggs.
- 8084-68
THE EGGS AND EARLY-INSTAR LARVAE OF HELIOTHIS ZEA AND HELIOTHIS VIRESCENS (LEPIDOPTERA NOCTUIDAE).
H H Neunzig
Entomol Soc Amer Ann 57(1) 98-102, 8 REFS., 8 FIGS.
Jan 1964 420 EN82
Heliothis, Heliothis zea, Larvae, Metamorphosis.
- 8085-68
LARVAE OF THE GENUS DIORYCTRIA (LEPIDOPTERA PHYCITIDAE) IN THE SOUTHEASTERN UNITED STATES.
H H Neunzig R L Rabb B H Ebel E P Merkel
Entomol Soc Amer Ann 57(6) 693-700, 12 REFS., 22 FIGS.
Nov 1964 420 EN82
Dioryctria, Insect morphology, Larvae.
- 8086-68
AERIAL APPLICATIONS OF MALATHION LV CONCENTRATE FOR CONTROL OF ALFALFA WEEVIL IN OHIO.
H D Niemczyk J E Henry W W Roberts
J Econ Entomol 60 (4) 1000-1002
15 Aug 1967 421 J822
Aerial insect control, Hypera postica, Low volume spraying, Malathion, Spraying.
Abstract
- 8087-68
METABOLISM OF C14-DIELDRIN BY DIELDRIN-RESISTANT CULEX PIPIENS QUINQUEFASCIATUS MOSQUITOES.
E S Oonnithan R Miskus
J Sci Food Agr 15(12) II-294-5
Dec 1964 382 S012
Culex, Dieldrin, Insect metabolism, Insecticide resistant insects.
- 8088-68
EFFECT OF LIGHT ON THE BEHAVIOR OF THE ALFALFA WEEVIL, HYPERA POSTICA.
G O Poinar Jr G G Cyrisco
Entomol Soc Amer Ann 57(2) 213-215, 17 REFS., 4 FIGS.
Mar 1964 420 EN82
Hypera, Insect behavior, Light.
- 8089-68
GRUB POPULATIONS IN TURF VARIES WITH PH LEVELS IN OHIO SOILS.
J B Polivka
J Econ Entomol 53(5) 860-863, 6 REFS., 6 PL.
Oct 1960 421 J822
Grubs, Hydrogen-ion concentration, Ohio, Soils, Turf.
- 8090-68
FACTORS INFLUENCING EFFECTIVENESS OF ARTIFICIAL OVIPOSITION DEVICES FOR APPLE MAGGOT.
R J Prokopy
J Econ Entomol 60 (4) 950-955 REF
15 Aug 1967 421 J822
Insect rearing equipment, Ovipositors, Petrolatum, Rhagoletis pomonella.
Abstract
- 8091-68
THE BIOLOGY AND ECOLOGY OF GRANARY MITES OF THE PACIFIC NORTHWEST.IV. VARIOUS ASPECTS OF THE REPRODUCTIVE BEHAVIOR OF LEIODINYCHUS KRAMERI (ACARINA UROPODIDAE).
S Radinovsky
Entomol Soc Amer Ann 58(3) 267-272, 4 REFS., 4 FIGS.
May 1965 420 EN82
Acarina, Insect biology, Leiodinychus, Reproduction.
- 8092-68
POPULATIONS OF ARTHROPOD PREDATORS AND HELIOTHIS SPP AFTER APPLICATIONS OF SYSTEMIC INSECTICIDES TO COTTON.
R L Ridgway F D Lingren C B Cowan J W Davis
J Econ Entomol 60 (4) 1012-1016 REF
15 Aug 1967 421 J822
Arthropoda, Beneficial insects, Cl-47031, Cotton, Disulfoton, Heliothis virescens, Heliothis zea, Predaceous insects, Systemic insecticides, Temik.
Abstract
- 8093-68
AXENIC REARING OF THE RED-BANDED LEAF ROLLER, ARGYROTAENIA VELUTINANA, ON MERIDIC DIETS.
G C Rock E H Glass R L Patton
Entomol Soc Amer Ann 57(5) 617-621, 22 TABS., 4 TABS.
Sep 1964 420 EN82
Argyrotaenia, Broadbeans, Insect nutrition, Meridic diets.
- 8094-68
ASEPTIC REARING OF THE CODLING MOTH ON SYNTHETIC DIETS ASCORBIC ACID AND FATTY ACID REQUIREMENTS.
G C Rock
J Econ Entomol 60 (4) 1002-1005 REF
15 Aug 1967 421 J822
Ascorbic acid, Carpocapsa pomonella, Fatty acids, Insect nutrition, Insect rearing.
Abstract
- 8095-68
ADULT EMERGENCE OF THE HOUSE FLY, MUSCA DOMESTICA, FROM X-IRRADIATED PUPAE.
M Rockstein M Dauer P L Bhatnagar
Entomol Soc Amer Ann 58(3) 375-379, 22 REFS.
May 1965 420 EN82
Musca domestica, Pupae, X-rays.
- 8096-68
A GYNANDROMORPH OF THE GERMAN COCKROACH, BLATTELLA GERMANICA.
M H Ross D G Cochran
Entomol Soc Amer Ann 60(4) 859-860
17 Jul 1967 420 EN82
Blattella germanica, DDT, Gynandromorphism, Insecticide resistant insects.
- 8097-68
THE HUMIDITY BEHAVIOR OF COSMOPOLITES SORDIDUS (COLEOPTERA CURCULIONIDAE).
L M Roth E R Willis

- Entomol Soc Amer Ann 56(1) 41-52, 18 REFS., 6 TABS.
Jan 1963 420 EN82
Coleoptera, Insect behavior.
- 8098-68
SEXUAL ISOLATION IN PARTHENOGENETIC PYCNOSCELUS SURINAMENSIS AND APPLICATION OF THE NAME PYCNOSCELUS INDICUS TO ITS HISEXUAL RELATIVE (DICTYOPTERA BLATTARIA HLABERIDAE PYCNOSCELINAE).
L M Hoth
Entomol Soc Amer Ann 60(4) 774-779 REF
17 Jul 1967 420 EN82
Hermaphroditism, Insect morphology, Insect names, Pycnoscelus indicus, Pycnoscelus surinamensis.
Abstract
- 8099-68
SOUND PRODUCTION AND ITS EVOLUTIONARY SIGNIFICANCE IN THE BLATTARIA.
L M Roth H H Hartman
Entomol Soc Amer Ann 60(4) 740-752 REF
17 Jul 1967 420 EN82
Blaberidae, Blattaria, Spiracles, Stridulation.
Abstract
- 8100-68
SOME EFFECTS OF SORGHUM VARIETIES ON THE DEVELOPMENT OF A RICE WEEVIL, SITOPHILUS ZEAMIS (COLEOPTERA CURCULIONIDAE).
M P Russell M M Hink
Entomol Soc Amer Ann 58(5) 763, 3 REFS.
Sep 1965 420 EN82
Curculionidae, Insect nutrition, Sitophilus, Sorghum.
- 8101-68
FINE PARTICLE, COARSE PARTICLE AND CONCENTRATED AEROSOLS.
M S Schechter W N Sullivan A H Yeomans
J Sci Food Agr 12(4) I-207-10
Apr 1961 382 S012
Allethrin, Insecticidal aerosols, Musca domestica.
- 8102-68
REPRODUCTIVE SYSTEM OF THE EYE GNAT HIPPELATES PUSIO (DIPTERA CHLOROPIDAE).
P H Schwartz Jr
Entomol Soc Amer Ann 58(3) 298-303, 15 REFS., 6 FIGS.
May 1965 420 EN82
Chloropidae, Hippelates.
- 8103-68
THE ONTOGENY OF HLISTER HEETLES (COLEOPTERA, MELOIDAE) I. A STUDY OF THREE SPECIES OF THE GENUS PYROTA.
H H Selander J M Mathieu
Entomol Soc Amer Ann
57(6) 711-732, 13 REFS., 16 TABS., 40 FIGS.
Nov 1964 420 EN82
Meloidae, Ontogeny, Pyrota.
- 8104-68
ACTIVITY OF SOME INSECTICIDES AGAINST THE GARDEN SYMPHYLAN, SCUTIGERELLA IMMACULATA.
C H Shanks Jr G Gans
J Sci Food Agr 15(10) II-185-8
Oct 1964 382 S012
Nemacide, Parathion, Scutigereella, Zinophos.
- 8105-68
RESISTANCE OF THE STRAWBERRY APHID TO ENDOSULFAN IN SOUTHWESTERN WASHINGTON.
C H Shanks
J Econ Entomol 60(4) 968-970
15 Aug 1967 421 J822
Chaetosiphon fragaefolii, Chemical control (insects), Endosulfan, Insecticide resistant insects.
Abstract
- 8106-68
RELATION OF GOSSYPOL CONTENT OF COTTON PLANTS TO INSECT RESISTANCE.
BOTTGER, G T.
E T Sheehan M J Lukefahr
J Sci Food Agr 15(9) II-133-9
Sep 1964 382 S012
Cotton, Glands (plants), Gossypol, Insect physiology.
- 8107-68
THE MALE REPRODUCTIVE SYSTEM AND SPERMATOGENESIS OF THE EUROPEAN PINE SHOCI MOTH, RHYACIONIA HUOLIANA (LEPIDOPTERA OLETHREUTIDAE), WITH OBSERVATIONS ON THE EFFECTS OF GAMMA IRRADIATION.
S K Shen A A Berryman
Entomol Soc Amer Ann 60(4) 767-774 REF
17 Jul 1967 420 EN82
Biological control (insects), Gamma rays, Reproduction, Rhyacionia buoliana, Spermatogenesis.
Abstract
- 8108-68
TOXICITY TO HOUSE FLY LARVAE OF DROPPINGS FROM CHICKS GIVEN DIPTEREX-TREATED WATER.
M Sherman E Ross
J Sci Food Agr 12(6) I-302-2
Jun 1961 382 S012
Chicks, Dichlorvos, Musca domestica, Trichlorfon.
- 8109-68
THE BIOLOGY OF TRICHOPLUSIA NI (LEPIDOPTERA NOCTUIDAE). III RESPONSE TO THE OVIPOSITION SUBSTRATE.
H H Shorey
Entomol Soc Amer Ann 57(2) 165-170, 11 REFS., 7 TABS.
Mar 1964 420 EN82
Insect biology, Ovipositors, Trichoplusia.
- 8110-68
SEX PHEROMONES OF NOCTUID MOTHS. XII. LACK OF EVIDENCE FOR MASKING OF SEX PHEROMONE ACTIVITY IN EXTRACTS FROM FEMALES OF HELIOTHIS ZEA AND H VIRESCENS (LEPIDOPTERA NOCTUIDAE).
H H Shorey L K Gaston
Entomol Soc Amer Ann 60(4) 847-849
17 Jul 1967 420 EN82
Heliothis virescens, Heliothis zea, Pheromones, Sex attractants.
Abstract
- 8111-68
METHODOLOGY FOR ISOLATION AND IDENTIFICATION OF INSECT PHEROMONES WITH REFERENCE TO STUDIES ON CALIFORNIA FIVE-SPINED IPS.
R M Silverstein J O Rodin D L Wood
J Econ Entomol 60(4) 944-949
15 Aug 1967 421 J822
Insect physiology, Ips confusus, Pheromones, Sex attractants.
Abstract
- 8112-68
A SEMIMICROTECHNIQUE FOR THE ESTIMATION OF CHOLINESTERASE ACTIVITY IN BOLL WEEVILS.
D R Simpson D L Bull D A Lindquist
Entomol Soc Amer Ann 57(3) 367-371, 3 REFS., 3 FIGS.
May 1964 420 EN82
Anthonomus grandis, Cholinesterases, Colorimetry, Insect metabolism.
- 8113-68
FINE STRUCTURE OF THE THIN-WALLED SENSORY PEGS ON THE ANTENNA OF A BEETLE, POPILIUS DISJUNCTUS (COLEOPTERA PASSALIDAE).
E H Slifer S S Sekhon
Entomol Soc Amer Ann 57(5) 541-548, 8 REFS., 18 FIGS.
Sep 1964 420 EN82
Antennae, Coleoptera, Insect histology, Passalidae, Popilius.
- 8114-68
OVARY DEVELOPMENT AND OVIPOSITION RATES IN THE PLUM CURCULIO CONOTRACHELUS NENUPHAR (COLEOPTERA CURCULIONIDAE).
E H Smith E H Salkeld
Entomol Soc Amer Ann 57(6) 781-787, 10 REFS., 5 TABS., 6 FIGS.
Nov 1964 420 EN82
Curculionidae, Ovaries, Ovipositors.
- 8115-68
INTERSEXES IN CULICOIDES SPP CAUSED BY MERMITHID PARASITISM IN FLORIDA.
W W Smith V G Perry
J Econ Entomol 60(4) 1025-1027 REF
15 Aug 1967 421 J822
Culicoides, Insects, Intersexuality, Mermithidae, Natural control (insects), Nematodes, Parasitism.
Abstract
- 8116-68
THE RESISTANCE OF FERNS TO THE FEEDING OF PRODENIA ERIDANEA LARVAE.
C F Soo Hoo G Fraenkel
Entomol Soc Amer Ann 57(6) 788-790, 14 REFS.
Nov 1964 420 EN82
Larvae, Prodenia, Pteridophyta.

BIBLIOGRAPHY

10 8117-68

- 8117-68
SUSCEPTIBILITY TO CHLORDANE, DIAZINON, NALED AND MALATHION OF NATURAL POPULATIONS OF *BLATTELLA GERMANICA* FROM THE FIFTH U.S. ARMY AREA.
R R Staff
J Sci Food Agr 15(10) II-220-7
Oct 1964 382 S012
Blattella, Chlordane, Diazinon, Insecticide resistant insects, Malathion, Naled.
- 8118-68
LARVAE OF THE MICROCPEZIDAE (DIPTERA), INCLUDING TWO SPECIES THAT BORE IN GINGER ROOTS.
G C Stetskal
Entomol Soc Amer Ann 57(3) 292-296, 11 REFS., 13 FIGS.
May 1964 420 EN82
Diptera, Insect morphology, Micropezidae, Zingiber officinale.
- 8119-68
BIOLOGY OF THE CHICKEN BODY LOUSE, *MENACANTHUS STRAMINEUS*.
H J Stockdale E S Raun
Entomol Soc Amer Ann 58(6) 802-805, 7 REFS., 3 TABS., 4 FIGS.
Nov 1965 420 EN82
Insect biology, Menacanthus.
- 8120-68
FEEDING AND NUTRITION OF *LYGUS HESPERUS* (HEMIPTERA MIRIDAE). II. AN ESTIMATION OF NORMAL FEEDING RATES.
F E Strong D A Landes
Entomol Soc Amer Ann 58(3) 309-314, 7 REFS.
May 1965 420 EN82
Feeding rates, Insect nutrition, *Lygus*, Miridae.
- 8121-68
MICRONISED INSECTICIDAL DUSTS FOR AIRCRAFT DISINSECTISATION.
W N Sullivan S C Hill C H Gaddis R D Chisholm V A Johnson
J Sci Food Agr 15(9) II-168-1
Sep 1964 382 S012
Aircraft disinfection, Carbaryl, DDT, Dusting, Popillia.
- 8122-68
EFFECT OF ACCELERATION FORCE ON INSECT MORTALITY.
W N Sullivan T R McCauley
J Econ Entomol 53(4) 691-692
Aug 1960 421 J822
Acceleration, Centrifugation, Insects, Mortality.
- 8123-68
ANALYSIS OF JOINT ACTION OF INSECTICIDES AGAINST HOUSE FLIES.
Y P Sun E R Johnson
J Econ Entomol 53(5) 887-892, 14 REFS.
Oct 1960 421 J822
Bidrin, Methyl parathion, *Musca domestica*, N,N-dimethyl-crotonamide, 3-(Dimethoxyphosphinyloxy), Toxicology.
- 8124-68
ENGINEERS HEAR DEBATE OF PESTICIDE PROS AND CONS.
G A Swanson T R Hansberry
Agr Chem 20(3) 83
Mar 1965 381 AG8
Pest control, Pesticides, Public health, Wildlife conservation.
- 8125-68
GLYCOGEN LEVELS OF ADULT *CULEX TARSALIS* IN RESPONSE TO POSTERIOD.
S Takahashi R F Harwood
Entomol Soc Amer Ann 57(5) 621-623, 5 REFS.
Sep 1964 420 EN82
Culex, Glycogen.
- 8126-68
FATTY ACID COMPOSITION DURING POSTEMBRYONIC DEVELOPMENT OF THE MOSQUITO *CULEX TARSALIS*.
N Takata R F Harwood
Entomol Soc Amer Ann 57(6) 749-753, 16 REFS., 3 FIGS.
Nov 1964 420 EN82
Culex, Glycerides, Insect physiology.
- 8127-68
ECOLOGY OF PLANT RESISTANCE TO THE TARNISHED PLANT BUG, *LYGUS LINEOLARIS*.
G Taksdal
Entomol Soc Amer Ann 56(1) 69-74, 9 REFS., 6 TABS.
Jan 1963 420 EN82
Insect ecology, Plant pest resistance.
- 8128-68
BUTYL SORBATE AS AN ATTRACTANT FOR EUROPEAN CBAFER.
H Tashiro S I Gertler M Beroza N Green
J Sci Food Agr 15(9) II-133-4
Sep 1964 382 S012
Amphimallon, Attractants, Butyl sorbate.
- 8129-68
THE PHOSPHOLIPIDS OF VARIOUS SUBCELLULAR FRACTIONS FROM THE LARVAE OF THE BLOW FLY.
J F Taylor E Hodgson
Entomol Soc Amer Ann 57(6) 795-796, 4 REFS.
Nov 1964 420 EN82
Larvae, Phormia, Phospholipids.
- 8130-68
AN ABNORMAL ANTENNAL CONDITION IN A RESISTANT STRAIN OF THE BOLL WEEVIL.
J G Thomas J R Brazzel
J Econ Entomol 53(4) 688-689
Aug 1960 421 J822
Antennae, *Anthonomus grandis*, Insect abnormalities, Insecticide resistant insects.
- 8131-68
SODIUM POTASSIUM RATIOS IN INSECT CELL CULTURE AND THE GROWTH OF COCKROACH CELLS (*BLATTARIAE BLATTIDAE*).
K Y Ting M A Brooks
Entomol Soc Amer Ann 58(2) 197-202, 28 REFS., 5 FIGS.
Mar 1965 420 EN82
Blattella germanica, Blattidae, Potassium, Sodium.
- 8132-68
THE NESTING HABITS OF THE WASP, *SOLIERELLA* SP., AND THE LOCATION OF ITS EGG ON THE GRASSHOPPER, *AGENEOTETTIX DEORUM*.
J Econ Entomol 53(5) 958-959, 4 REFS.
Oct 1960 421 J822
Ageneotettix, Eggs, Insect behavior, *Solierella*.
- 8133-68
AN AUDIOSPECTROGRAPHIC STUDY OF STRIDULATION AS AN ISOLATING MECHANISM IN THE GENUS *BEROSUS* (COLEOPTERA HYDROPHILIDAE).
E R Van Tassell
Entomol Soc Amer Ann 58(4) 407-413, 11 REFS., 18 FIGS.
Jul 1965 420 EN82
Audiospectrography, *Berosus*, Stridulation.
- 8134-68
RESISTANCE TO ORGANOPHOSPHORUS COMPOUNDS IN THE TWO-SPOTTED SPIDER MITE TWO DIFFERENT MECHANISMS OF RESISTANCE.
G Voss F Matsumura
J Sci Food Agr 15(10) II-184-2
Oct 1964 382 S012
Cholinesterases, Insecticide resistant insects, Paraaxon, Phosphorus compounds, Tetranychus.
- 8135-68
EFFECTS OF THE TOXIN PYEMOTES (*ACARINA PYEMOTIDAE*) ON THE INSECT PREY, WITH SPECIAL REFERENCE TO RESPIRATION.
J Weiser K Slama
Entomol Soc Amer Ann 57(4) 479-482, 10 REFS.
Jul 1964 420 EN82
Acarina, Galleria, Predaceous insects, Pyemotes.
- 8136-68
THE INFLUENCE OF VARIOUS GRAMINEAE ON WEIGHT GAINS OF POST-DIAPAUSE ADULTS OF THE CEREAL LEAF BEETLE, *OULEMA MELANOPE* (COLEOPTERA CHRYSOMELIDAE).
M C Wilson R E Shade
Entomol Soc Amer Ann 57(6) 659-661, 7 REFS.
Nov 1964 420 EN82
Grasses, *Oulema*.
- 8137-68
INSECT CROSS-RESISTANCE PHENOMENA THEIR PRACTICAL AND FUNDAMENTAL IMPLICATIONS.
F P W Winteringham P S Hewlett
J Sci Food Agr 15(12) II-293-4
Dec 1964 382 S012
Aedes aegypti, *Blattella*, *Boophilus*, Chemical structure, Insecticide resistant insects, Insecticides, *Musca domestica*.
- 8138-68
TOXICITY OF SURFACTANTS AND SURFACTANT-INSECTICIDE COMBINATIONS TO THE BOLLWORM, TOBACCO BUDWORM, AND PINK BOLLWORM.
D A Wolfenbarger M J Lukefahr W L Lowry
J Econ Entomol 60(4) 902-904
15 Aug 1967 421 J822

- Carbaryl, Chemical control (insects), DDT, Heliothis virescens, Heliothis zea, Insecticides, Pectinophora gossypiella, Surface-active agents, Toxicity. Abstract
- 8139-68
THE INFLUENCE OF A BLOOD MEAL ON COPULATION IN Aedes TRISERIATUS (DIPTERA CULICIDAE).
J E Wright C E Venard
Entomol Soc Amer Ann 60(4) 861-862
17 Jul 1967 420 EN82
Aedes triseriatus, Blood, Insect nutrition, Sex behavior.
- 8140-68
LIPIDS OF THE LARVA OF THE GREATER WAX MOTH, GALLERIA MELLONELLA.
R G Young
Entomol Soc Amer Ann 57(3) 321-324, 11 REFS., 5 FIGS.
May 1964 420 EN82
Galleria, Insect physiology, Lipids.
- 8141-68
DIGESTION OF WAX BY THE GREATER WAX MOTH, GALLERIA MELLONELLA.
R G Young
Entomol Soc Amer Ann 57(3) 325-327, 8 REFS., 4 FIGS.
May 1964 420 EN82
Galleria, Insect physiology, Waxes.
- 8142-68
FLIGHT EXHAUSTION STUDIES ON THE BLOW FLY, PHAENICA SERICATA USING C14-LABELED SUCROSE.
W J Yurkiewicz
Entomol Soc Amer Ann 58(5) 766, 2 REFS.
Sep 1965 420 EN82
Calliphoridae, C14, Insect flight, Phaenica, Sucrose, Temperature.
- 8143-68
THE EFFECT OF MANDIBULAR GLAND EXTIRPATION ON THE LONGEVITY AND ATTRACTIVENESS TO WORKERS OF QUEEN HONEY BEES, APIS MELLIFERA.
C Zmarlicki R A Morse
Entomol Soc Amer Ann 57(1) 73-74, 5 REFS.
Jan 1964 420 EN82
Apis mellifera, Longevity, Mandibular glands.
- 8144-68
SEASONAL CHANGES IN THE REPRODUCTIVE ORGANS OF THE ALFALFA WEEVIL, HYPERA POSTICA (COLEOPTERA CURCULIONIDAE), IN SOUTH CAROLINA.
A S Tombes
Entomol Soc Amer Ann 57(4) 422-426, 8 REFS., 3 FIGS.
Jun 1964 420 EN82
Hypera, Insect morphology, Reproductive organs.
- 8145-68
STUDIES OF MEIOSIS IN THE MALE OF THE MOSQUITO CULISETA INORNATA.
O P Hreland G Gassner III j G Riemann
Entomol Soc Amer Ann 57(4) 472-479, 16 REFS., 32 FIGS.
Jul 1964 420 EN82
Culiseta, Insect genetics, Meiosis.
- 8146-68
EFFECT OF COLCHICINE ON SCREW-WORMS.
W F Chamberlain D E Hopkins
J Econ Entomol 53(6) 1133-1134, 2 REFS.
Dec 1960 421 J822
Callitroga, Colchicine, Musca domestica, Sterilization.
- 8147-68
ANTENNAEPEDIA AN UNUSUAL ANTENNAL MUTATION IN TRIBOLIUM CASTANEUM.
D C Englert A E Bell
Entomol Soc Amer Ann 56(1) 123-124, 4 REFS., 1 TAB.
Jan 1963 420 EN82
Insect genetics, Insect mutation, Tribolium.
- 8148-68
ADULT LONGEVITY AS A SENSITIVE CRITERION OF RADIATION-INDUCED DAMAGE WHEN 24-HOUR HABROBRACON (HYMENOPTERA) EMBRYOS ARE X-RAYED.
H E Erdman
J Econ Entomol 53(5) 971-972, 15 REFS.
Oct 1960 421 J822
Habrobracon, Hymenoptera, Longevity, Sterilization, X-rays.
- 8149-68
GENETICS IN THE COLONIZATION OF NATURAL ENEMIES FOR BIOLOGICAL CONTROL.
D C Force
Entomol Soc Amer Ann 60(4) 722-729 REF
17 Jul 1967 420 EN82
Biological control (insects), Insect colonization, Insect genetics, Insect populations, Predaceous insects. Abstract
- 8150-68
CHROMOSOME STUDIES OF THE EUROPEAN CORN BORER, SMARTWEED BORER, AND LOTUS BORER (PYRALIDAE).
W D Guthrie E J Dollinger J P Stetson
Entomol Soc Amer Ann 58(1) 100-105, 22 REFS., 10 FIG.
Jan 1965 420 EN82
Chromosomes, Pyralidae.
- 8151-68
GENETICS OF HOUSE FLY (MUSCA DOMESTICA) RESISTANCE TO MALATHION.
R L Harris S Wearden C C Roan
J Sci Food Agr 12(6) I-302-1
Jun 1961 382 S012
Insect genetics, Insecticide resistant insects, Malathion, Musca domestica.
- 8152-68
COMPARATIVE ACARICIDAL ACTIVITY OF TEDION, OVEX, AND CHLORBENSIDE AGAINST TWO STRAINS OF THE TWO-SPOTTED SPIDER MITE.
T J Henneberry E A Taylor F P Smith A L Boswell
J Econ Entomol 53(5) 841-843, 7 REFS.
Oct 1960 421 J822
Chlorbenside, Ovex, Tetradifon, Tetranychus.
- 8153-68
SOME NEW MUTANTS AND LINKAGE GROUPS OF THE HOUSE FLY.
T Hiroyoshi
J Econ Entomol 53(6) 985-990, 8 REFS., 3 TABS.
Dec 1960 421 J822
Color, DDT, Eyes, Insect genetics, Insecticide resistant insects, Musca domestica, Wings (insects).
- 8154-68
CHROMOSOME STUDIES IN THREE SPECIES OF DIPTERA (MUSCIDAE AND HYPODERMATIDAE).
L E LaChance
Entomol Soc Amer Ann 57(1) 69-73, 7 REFS., 8 FIGS.
Jan 1964 420 EN82
Chromosomes, Diptera.
- 8155-68
GENETIC FACTOR CONTROLLING COLOUR AND ITS ASSOCIATION WITH DDT SENSITIVITY IN THE CABBAGE LOOPER.
F L McEwen C M Splittstoesser
J Sci Food Agr 15(9) II-131-7
Sep 1964 382 S012
Color, DDT, Insect genetics, Insecticide resistant insects, Trichoplusia.
- 8156-68
PREPARATION OF HOUSE FLY CHROMOSOMES.
P B Morgan G C LaBrecque
Entomol Soc Amer Ann 57(6) 794-795, 3 REFS.
Nov 1964 420 EN82
Chromosomes, Musca domestica.
- 8157-68
A PRELIMINARY REPORT ON GENETIC VARIABILITY IN THE GERMAN COCKROACH, BLATTELLA GERMANICA.
M H Ross D G Cochran
Entomol Soc Amer Ann 58(3) 368-375, 16 REFS., 4 FIGS.

Genetics

BIBLIOGRAPHY

10 8158-68

May 1965 420 EN82
Blattella germanica, Insect genetics, Mutations.

8158-68

EYE-COLOR MUTATIONS IN THE AMERICAN COCKROACH, PERIPLANETA AMERICANA.
M H Ross D G Cochran T Smyth Jr
Entomol Soc Amer Ann 57(6) 790-792, 13 REFS.
Nov 1964 420 EN82
Eyes, Mutations, Periplaneta.

8159-68

STUDIES ON THE TROPISTERNUS MEXICANUS COMPLEX (COLEOPTERA HYDROPHILIDAE) I. THE BIOLOGY OF THE RACES AND THEIR GENETIC CROSSES.
D P Wooldridge
Entomol Soc Amer Ann 57(1) 19-24, 8 REFS., 4 TABS.
Jan 1964 420 EN82
Insect biology, Insect genetics, Tropisternus.

8160-68

STUDIES ON THE TROPISTERNUS MEXICANUS COMPLEX (COLEOPTERA HYDROPHILIDAE) II. THE CONTROL OF THE PIGMENTATION PAT-
TERN.
D P Wooldridge
Entomol Soc Amer Ann 58(1) 44-48, 2 REFS.
Jan 1965 420 EN82
Insect genetics, Pigmentation, Tropisternus.

8161-68

MEIOTIC X-Y EXCHANGE AND NONDISJUNCTION INDUCED BY X-RAYS IN PRIMARY SPERMATOCYTES OF MALE DROSOPHILA MELANOGASTER.
C-K Wu
Diss Abstr Sect B 28(1) 57B-58B
Jul 1967 Z5055.U49D53
Drosophila melanogaster, Insect genetics, X-rays.

Abstract

8167-68

DIMETILAN BAIT, FLY RIBBONS AND CORDS FOR THE CONTROL OF HOUSE FLIES.
C N Smith G C LaPrecque H G Wilson R A Hoffman C M Jones
J Econ Entomol 53(5) 898-902, 9 TABS
Oct 1960 421 J822
Baits, Cordage, Diazinon, Dimetilan, Musca domestica, Parathion, Ribbons, Syrups.

8168-68

SYSTEMIC INSECTICIDAL PROPERTIES OF CERTAIN CARBAMATES.
W A L David R L Metcalf M Winton
J Sci Food Agr 12(5) 1-223-2
May 1961 382 S012
Beans, Carbaryl, Insects, Isolan.

Medical Entomology

8162-68

LEISHMANIASIS IN THE SUDAN REPUBLIC. 16. SEASONAL INCIDENCE OF PHLEBOTOMUS SPECIES (DIPTERA PSYCHODIDAE) IN AN UPPER NILE PROVINCE TOWN AND VILLAGE.
D R Dietlein
Entomol Soc Amer Ann 57(2) 243-246, 7 REFS., 4 TABS.,
Mar 1964 420 EN82
Diptera, Leishmaniasis, Phlebotomus, Psychodidae, Sudan Republic.

8163-68

SCREENING OF REPELLENTS AND REARING METHODS FOR WATER LEECHES.
H K Gouck J D Taylor C S Barnhart
J Econ Entomol 60 (4) 959-961
15 Aug 1967 421 J822
Aquatic insects, Hirudo, Insect rearing equipment, Insect repellents, Macrobdella decora.
Abstract

8164-68

MOSQUITOES FLAGUE SPACE AGENCY AT NEW MISSISSIPPI TEST OPERATIONS.
F W Harden
Agr Chem 20(5) 23-25
May 1965 381 AG8
Culicidae, Pest control, Swamps.

8165-68

CONTROL OF PESTS VITAL TO STRENGTH OF FREE WORLD.
C E Palm
Agr Chem 20(1) 98
Jan 1965 381 AG8
International cooperation, Pest control, Public health.

8166-68

REPELLENCY OF HUMAN SKIN-SURFACE LIPID HYDROCARBONS TO THE YELLOW-FEVER MOSQUITO.
W A Skinner H C Tong T R Pearson H I Maibach
J Econ Entomol 60 (4) 927-929
15 Aug 1967 421 J822
Aedes aegypti, Humans, Hydrocarbons, Insect repellents, Lipids, Skin.

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- 8169-68
AERIAL APPLICATION ACTIVITY CONTINUES TO INCREASE GRADUALLY.
Agr Chem 18(9) 135-139,179, 2 TABS.
Sep 1963 381 AG8
Aerial dusting, Aerial spraying, Insect control, Weed control.
- 8170-68
STREPTOMYCIN ANTIBIOTIC COPPER COMPLEX.
J Sci Food Agr 12(3) I-132-7
Mar 1961 382 S012
Bactericides, Copper sulfate, Fungicides.
C. Pfizer Co. Inc.
- 8171-68
SPECIAL ACS SYMPOSIUM TO DISCUSS ROLE OF CHEMICALS IN FOOD PRODUCTION.
Agr Chem 17(3) 39-40, 107
Mar 1962 381 AG8
Crops, Food industry, Livestock, Pesticides.
- 8172-68
CONTROL OF PLANT PESTS.
J Sci Food Agr 12(6) I-283-8
Jun 1961 382 S012
Plant pest control.
Farbwerke Boechst A.-G.
- 8173-68
FIFTH ANNUAL APPLICATOR COURSE IS UNDERWAY AT OHIO STATE.
Agr Chem 19(9) 68,165
Sep 1964 381 AG8
Aerial dusting, Aerial spraying, Pesticide application.
- 8174-68
PHYSICO-CHEMICAL STUDIES ON AGRICULTURAL SPRAYS. V. INCORPORATION OF WETTING AGENTS IN HIGH-VOLUME SPRAYS.
J Sci Food Agr 15(12) II-293-3
Dec 1964 382 S012
Spraying, Surface-active agents, Wetting agents.
- 8175-68
BOARD LISTS PRECAUTIONS FOR FOREST SPRAY PROGRAMS.
Agr Chem 17(4) 78
Apr 1962 381 AG8
DDT, Forest insects, Forests, Insect control, Spraying.
- 8176-68
PESTICIDAL COMPOSITIONS.
J Sci Food Agr 12(5) I-228-1
May 1961 382 S012
Pesticides.
Lunevale Products Ltd. and M. Fitzgibbons
- 8177-68
CHEMICAL AND BIOLOGICAL CONTROL TO BE COMBINED AT CLEAR LAKE, CALIF.
Agr Chem 18(9) 37,189
Sep 1963 381 AG8
Biological control (insects), Chemical control (insects), Diptera, Fish, TDE.
- 8178-68
JAPAN'S PESTICIDE INDUSTRY HAS DEVELOPED REMARKABLY.
Agr Chem 17(3) 92
Mar 1962 381 AG8
Industry, Pesticides.
- 8179-68
PENNSYLVANIA TESTS CERTIFY HELICOPTERS FOR ORCHARD WORK.
Agr Chem 19(10) 57-62
Oct 1964 381 AG8
Aerial spraying, Helicopters.
- 8180-68
ROTENONE BULLETIN COVERS HISTORY, CHEMISTRY AND USES.
Agr Chem 17(5) 53
May 1962 381 AG8
Bees, Hypodermia, Rotenone.
- 8181-68
NEW IDEAS CONTINUE TO IMPROVE AERIAL APPLICATION.
Agr Chem 18(7) 43-48,77-78
Jul 1963 381 AG8
Aerial dusting, Aerial spraying, Azinphosmethyl, Carbaryl.
- 8182-68
CORRECTION ON GEIGY CARBAMATES.
Agr Chem 17(2) 84
Feb 1962 381 AG8
Carbamates, Carbaryl, Diazinon, Dimetilan.
- 8183-68
FERTILIZERS AIR-DROPPED IN BEAUTIFICATION PROGRAM.
Agr Chem 19(7) 59
Jul 1964 381 AG8
Aerial fertilizing, Fertilizers.
- 8184-68
PESTICIDE SALES INCREASE FOR EIGHTH STRAIGHT YEAR.
Agr Chem 17(8) 30-33, 74
Aug 1962 381 AG8
Foreign trade, Marketing, Pesticides, Sales.
- 8185-68
DEMAND FOR NON-TOXIC INSECTICIDES SPURS RENEWED INTEREST IN CARBAMATES.
Agr Chem 19(11) 46,103
Nov 1964 381 AG8
Carbamates, Insecticides, Poisons.
- 8186-68
STATEWIDE SAFETY PROGRAM IS CONDUCTED TO HEAD-OFF PESTICIDE USE RESTRICTIONS.
Agr Chem 17(5) 20
May 1962 381 AG8
Accident prevention, Labeling, Legislation, Pesticides.
- 8187-68
HOW TO APPLY PESTICIDES SAFELY BY AIRCRAFT.
Agr Chem 19(8) 61-66,98-99
Aug 1964 381 AG8
Accident prevention, Aerial pest control, Pesticide application.
- 8188-68
DUPONT MOVIE TELLS STORY OF UNSEEN HARVESTERS.
Agr Chem 17(9) 40-41
Sep 1962 381 AG8
Pesticides, Research.
- 8189-68
PESTICIDES ARE VALUABLE TOOL IN WORLD'S FAIR MAINTENANCE.
Agr Chem 19(10) 39
Oct 1964 381 AG8
Fairs, Maintenance, Pesticides.
- 8190-68
FOLIAR APPLICATION OF NITROGEN TO COTTON FOUND IMPRACTICAL DURING FRUITING PERIOD.
Agr Chem 17(4) 27-28, 105, 4 TABS.
Apr 1962 381 AG8
Cotton, Crop yields, Foliar application, Nitrogen.
- 8191-68
REPORTS OF PESTICIDE INJURIES CONTINUE TO DECLINE IN CALIFORNIA.
Agr Chem 19(7) 28-29,88-89
Jul 1964 381 AG8
Injuries, Parathion, Pesticides.
- 8192-68
FLUTATION TIRE FOR SPREADERS CUTS ROOT INJURY IN VEGETABLE SOILS.
Agr Chem 17(8) 35-36
Aug 1962 381 AG8
Equipment, Plant injuries, Roots, Vegetables.
- 8193-68
CALIFORNIA GROUPS FORM CROP PROTECTION COUNCIL.
Agr Chem 17(5) 30, 99
May 1962 381 AG8
Crop yields, Pesticide application, Pesticides.
- 8194-68
DEDICATED PEST CONTROL MEANS QUALITY CIGAR WRAPPERS.
Agr Chem 17(10) 55-58, 82
Oct 1962 381 AG8
Pest control, Pesticide application, Tobacco, Zineb.

BIBLIOGRAPHY

26 8195-68

- 8195-68
PESTICIDE INDUSTRY EXPANSION CONTINUES.
Agr Chem 17(1) 23
Jan 1962 381 AG8
Industry, Pesticides.
- 8196-68
SYMPOSIUM ON FOOD AND FIBER FINES CHEMICALS ARE ABSOLUTELY NECESSARY.
Agr Chem 17(4) 37-40, 98
Apr 1962 381 AG8
Food additives, Pesticides, Public health.
- 8197-68
MICRONUTRIENTS ASSUMING PROMINENCE AS CONTRIBUTORS TO AGRICULTURAL PROSPERITY.
Agr Chem 17(1) 16-17, 85, 1 TAB.
Jan 1962 381 AG8
Crop yields, Micronutrients.
- 8198-68
FUNGICIDE TREATMENT OF MUCK SOIL IN THE GREEN HOUSE.
D J deZeeuw R A Davis R A Crum
Agr Chem 19(7) 63
Jul 1964 381 AG8
Para-dimethylaminobenzenediazo sodium sulfonate.
- 8199-68
FERTILISER STUDIES WITH WHEAT, OATS AND BARLEY GROWN ON GREY WOODED AND BLACK SOILS IN THE PEACE RIVER REGION OF NORTH-WESTERN CANADA.
C H Anderson P B Hoyt S H Pawlowski
J Sci Food Agr 12(4) I-164-1
Apr 1961 382 S012
Crop rotation, Fertilizers, Grain.
- 8200-68
COATED FERTILIZERS FOR THE CONTROLLED RELEASE OF PLANT NUTRIENTS.
T J Army
Agr Chem 18(8) 26-28, 81-82, 14 REFS., 1 TAB.
Aug 1963 381 AG8
Fertilizers, Plant nutrition.
- 8201-68
A SOIL ACHROMOBACTER WHICH DEGRADES 2,4-DICHLOROPHENOXY-ACETIC ACID.
G R Bell
J Sci Food Agr 12(6) I-282-9
Jun 1961 382 S012
Soil bacteria, 2,4-D.
- 8202-68
ASSOCIATION OF POTATO SKIN NECROSIS WITH SOIL FACTORS.
P Bergin J D Golden
J Sci Food Agr 15(10) II-185-2
Oct 1964 382 S012
Borax, Copper sulfate, Liming, Potato skin necrosis, Potatoes, Soil hydrogen-ion concentration.
- 8203-68
FARMERS MUST USE CHEMICALS.
A M Boyce
Agr Chem 17(9) 26-27
Sep 1962 381 AG8
Agricultural chemistry, Farming.
- 8204-68
SIMPLE METHOD FOR ESTIMATING OIL-MIST DEPOSIT ON BANANA LEAVES.
L Calpouzcis T Theis
J Sci Food Agr 12(3) I-130-1
Mar 1961 382 S012
Bananas, Fungicides.
- 8205-68
EFFECT OF MOISTURE CONTENT ON GERMINATION AND GROWTH OF FUMIGATED MAIZE GRAIN.
G H Caswell H T Clifford
J Sci Food Agr 12(1) I-12-1
Jan 1961 382 S012
Carbon tetrachloride, Corn, Dichloroethane, Fumigation, Growth factors, Humidity, Seed germination.
- 8206-68
THE USE OF ADDITIVES IS THEME OF LIQUID FERTILIZER MEETING.
B Chronister
Agr Chem 19(12) 46-50
Dec 1964 381 AG8
Herbicides, Liquid fertilizers, Marketing.
- 8207-68
APPLICATION OF RADIOISOTOPES TO THE CHEMISTRY OF PESTICIDE AND PLANT PROTECTION.
W Deder
J Sci Food Agr 15(9) II-133-5
Sep 1964 382 S012
Pesticides, Plant protection, Radioisotopes.
- 8208-68
INFLUENCE OF MERCURY DIPS ON GERMINATION AND EARLY GROWTH OF SUGAR BEET, WITH SPECIAL REFERENCE TO THEIR SELECTIVE ACTION ON THE MICROFLORA PRESENT ON THE SEED.
L Ebner
J Sci Food Agr 12(5) I-225-3
May 1961 382 S012
Mercury, Seed germination, Seed treatment, Sugar beets.
- 8209-68
USE OF INTERFACE-ACTIVE SUBSTANCES IN PLANT PROTECTION.
G Fricke
J Sci Food Agr 15(12) II-293-2
Dec 1964 382 S012
Chemical control (plant diseases), Plant protection, Surface-active agents.
- 8210-68
EFFECT OF SOIL FUMIGANTS ON EASTER LILY, LILUM LONGIFLORUM, BULB PRODUCTION.
D L Gill J M Good
J Sci Food Agr 15(9) II-133-3
Sep 1964 382 S012
Chloropicrin, Crop yields, Dichloropropane dichloropropene mixture, Lilium, Methyl bromide, Methyl isothiocyanate, Soil fumigation.
- 8211-68
PESTICIDE INDUSTRY'S FUTURE IS LINKED TO PUBLIC OPINION.
H J Grady
Agr Chem 17(1) 14-15, 85-86
Jan 1962 381 AG8
Industry, Legislation, Pesticides, Public opinion.
- 8212-68
CONTROL OF VERTICILLIUM WILT.
R J Green Jr
Agr Chem 20(9) 117, 174, 176
Sep 1965 381 AG8
Mentha spicata, Telone, Verticillium wilt, Vorlex.
- 8213-68
CORNELL ENGINEER TESTING AIR SUSPENSION TECHNIQUES.
W W Gunkel
Agr Chem 19(9) 66
Sep 1964 381 AG8
Aerial dusting, Pesticides.
- 8214-68
FUMIGATION OF LOBLOLLY PINE PLANTING SITES.
Thomas Hansbrough J P Hollis R G Merrifield R R Foil
Agr Chem 20(11) 79
Nov 1965 381 AG8
Pinus taeda, Soil fumigation.
- 8215-68
WHAT'S AHEAD FOR NON-FARM FERTILIZERS.
W H Heflin
Agr Chem 19(11) 34, 99-100
Nov 1964 381 AG8
Consumers, Fertilizers, Marketing, Pesticides.
- 8216-68
MICROBIAL DECOMPOSITION OF HALOGENATED PROPIONIC AND ACETIC ACIDS.
P Hirsch M Alexander
J Sci Food Agr 12(6) I-282-8
Jun 1961 382 S012
Acetic acid, Propionic acid, Soil bacteria.
- 8217-68
EFFECTS OF ARBORICIDES ON EAST AFRICAN TREES AND SHRUBS. IV. TARCHONATHUS CAMPHORATUS, L. AND EUCLIA DIVINORUM, HIERN.
G W Ivens
J Sci Food Agr 12(3) I-130-5
Mar 1961 382 S012
Silviculture, Trees, 2,4-D.

BIBLIOGRAPHY

20 8240-68

- 8218-68
ULTRA-VIOLET RAYS. GERMICIDAL EFFECT, DISINFECTION OF AIR, FRUITS, GRANULAR MATERIALS, ETC.
J Janicki E Sobkowska J Wierzbowski
J Sci Food Agr 12(4) I-208-1
Apr 1961 382 S012
Antiseptics, Ultraviolet rays.
- 8219-68
SPEAKERS PROBE IMAGE OF PESTICIDES AT 31ST NACA CONVENTION LAST MONTH.
R L Kenyon
Agr Chem 19(10) 19-21,90-91
Oct 1964 381 AG8
Crops, Livestock, Marketing, Pesticide residues, Pesticides.
- 8220-68
SEARCH FOR BIOLOGICAL CONTROLS POSES THREAT TO NATION S FOOD SUPPLY.
D Lerch
Agr Chem 19(11) 21-22,103
Nov 1964 381 AG8
Biological control (pests), DDT, Food supply, Pesticides.
- 8221-68
PROTECTION OF CROPS BY SEED COATING.
J Lhoste
J Sci Food Agr 12(5) I-222-1
May 1961 382 S012
Crops, Seed treatment.
- 8222-68
CHEMICALS SEEN AS REPLACEMENT FOR CONVENTIONAL TILLAGE.
W G Lovely
Agr Chem 17(1) 78
Jan 1962 381 AG8
Atrazine, Weed control, 2,4-D.
- 8223-68
ACTION OF ESSENTIAL OILS.
J C Maruzzella S Reine A Zeitlin
Agr Chem 18(11) 63
Nov 1963 381 AG8
Bacteria, Cassia oil, Clove oil, Origanum oil.
- 8224-68
LOW VOLUME AERIAL SPRAYING.
K Messenger
Agr Chem 19(9) 61-64
Sep 1964 381 AG8
Aerial spraying, Anthonomus grandis, Chrysomelidae, Circulifer tenellus, DDT, Malathion.
- 8225-68
WASHINGTON GROWERS DISCUSS NEW PESTICIDES.
L Milliman
Agr Chem 18(9) 62-64,173-174
Sep 1963 381 AG8
Endosulfan, Perthane, Pesticides, Plant regulators.
- 8226-68
COMPARISON OF SEVIN WITH DDT AND ROTENONE ON TOMATOES UNDER TROPICAL CONDITIONS.
G W Miskimen
J Econ Entomol 53(6) 1128-1129, 4 REFS.
Dec 1960 421 J822
Carbaryl, DDT, Rotenone, Tomatoes, Virgin Islands.
- 8227-68
PROPER USE OF CHEMICALS IS BEST WAY TO AVOID STARVATION.
E R Mrak
Agr Chem 17(6) 78
Jun 1962 381 AG8
Chemicals, Food additives.
- 8228-68
SUPPLYING ESSENTIAL MICRONUTRIENTS.
J A Naftel
Agr Chem 18(9) 59-61,175
Sep 1963 381 AG8
Crop yields, Fertilizers, Micronutrients.
- 8229-68
DEPLETION AND ACCUMULATION OF TRACE ELEMENTS IN IRRIGATED SOILS.
P F Pratt F L Bair
Agr Chem 19(9) 39, 2 TABS.
Sep 1964 381 AG8
Boron, Copper, Molybdenum, Soils, Zinc.
- 8230-68
I. COLORIMETRIC METHODS FOR THE DETERMINATION OF 2-CHLORO-4,6-BIS(ETHYLAMINO)-1,3,5-TRIAZINE (SIMAZINE) AND RELATED COMPOUNDS. II. DEGRADATION OF 14C-LABELLED SIMAZINE BY PLANTS AND SOIL MICROORGANISM.
M T Ragab
J Sci Food Agr 12(3) I-130-2
Mar 1961 382 S012
Assay, Chlorazine, Plants, Radioactivity, Soil microorganisms.
- 8231-68
TOMATO YIELD RESPONSE OWING TO EARLY APPLICATIONS OF DIELDRIN.
J P Reed
J Sci Food Agr 15(9) II-130-10
Sep 1964 382 S012
Crop yields, Dieldrin, Fruit setting, Tomatoes.
- 8232-68
VERTICILLUM WILT OF STRAWBERRIES MADE WORSE BY SOIL FUNGICIDES THAT STIMULATE MEADOW NEMATODE POPULATIONS.
S Rich P M Miller
J Sci Food Agr 15(9) II-128-4
Sep 1964 382 S012
Nematodes, Pentachloronitrobenzene, Strawberries, Tetrachlorotetrahydrothiophen 1,1-dioxide, 3,3,4,4-, Verticillium.
- 8233-68
ALLYLIDENE DIACETATE- AN EXPERIMENTAL SOIL FUNGICIDE.
R H Sciaroni A H McKain
Agr Chem 19(7) 63,82-83
Jul 1964 381 AG8
Fungicides, Ornamental plant culture, Sd 345, Soil fungi.
- 8234-68
SAFETY AND EASE OF USE ADD TO VALUE OF SULFUR AS A PESTICIDE.
H H Shepard
Agr Chem 19(12) 34-37, 11 REFS.
Dec 1964 381 AG8
Lyctidae, Pesticides, Plant diseases, Sulfur, Tetranychidae.
- 8235-68
1963 PESTICIDES SALES GAIN FAILS TO MAINTAIN RECENT PACE.
H H Shepard J N Mahan
Agr Chem 19(9) 24-26,168, 3 TABS.
Sep 1964 381 AG8
Marketing, Pesticides.
- 8236-68
MAN SEEKS FAVORABLE BALANCE.
H L Sweetman
Agr Chem 17(9) 32, 111
Sep 1962 381 AG8
Balance of nature, Chemicals.
- 8237-68
PRICE, RATHER THAN MH-30 CALLED MAJOR PROBLEM OF U.S. TO-BACCO.
H D Tate
Agr Chem 18(8) 37-38
Aug 1963 381 AG8
Prices, Tobacco.
- 8238-68
NITROGEN DIOXIDE IN FARM SILOS DISCUSSED AT AG. ENGINEERS MEETING.
N J Wardle
Agr Chem 19(7) 55-58
Jul 1964 381 AG8
Farmer s lung, Nitrogen dioxide, Silo filler s disease, Silos, Spraying.
- 8239-68
FADDISTS HAMPERING PROGRESS.
R H White-Stevens
Agr Chem 17(9) 28-32, 111
Sep 1962 381 AG8
Cobalt, Food faddism, Fruits, Iron, Vegetables.
- 8240-68
AGRICULTURAL SCIENCE IS VITAL TO SURVIVAL.
R H White-Stevens
Agr Chem 19(8) 55
Aug 1964 381 AG8
Agricultural research, Pesticides.

BIBLIOGRAPHY

20 8241-68

- 8241-68
EFFECT OF CERTAIN TEMPERATURES AND SEED TREATMENTS ON
EMERGENCE AND TERMINAL BREAKDOWN OF COTTON SEEDLINGS.
A B Wiles
J Sci Food Agr 12 (4) I-172-2
Apr 1961 382 S012
Calcium sulfate, Cotton, Seed treatment, Temperature.
- 8242-68
EFFECT OF SPRAY OILS ON THE DEPOSITION AND RETENTION OF A
FIXED-COPPER FUNGICIDE.
J D Wilson O K Hedden
Agr Chem 19 (8) 70,100
Aug 1964 381 AG8
Copper, Fungicides, Oils, Sugar beets.
- 8243-68
ADVANCES IN FOLIAR FEEDING OF FERTILIZER MATERIALS TO
PLANTS.
S H Wittwer M J Bukovac H B Tukey
Agr Chem 17 (7) 20-22, 78
Jul 1962 381 AG8
Feeding, Plant nutrition, Spraying.
- 8244-68
ADVANCES IN FOLIAR FEEDING OF FERTILIZER MATERIALS TO
PLANTS.
S H Wittwer M J Bukovac H B Tukey
Agr Chem 17 (6) 41-42, 100-101
Jun 1962 381 AG8
Feeding, Plant nutrition.
- Diseases**
- 8245-68
ANTIFUNGAL COMPOSITIONS AND PROCEDURE FOR PROTECTING
ARTICLES THEREWITH.
J Sci Food Agr 12 (3) I-131-7
Mar 1961 382 S012
Boric acid, B203, Ethanolamine, Fungicides.
Etablissements Sergent Laboratoires Prolac
Inventor J. Ploquin
- 8246-68
INDIVIDUALITY OF FUNGI STRAINS ACCOUNTS FOR ERRATIC CONTROL
RESULTS.
Agr Chem 17 (9) 51, 114-116
Sep 1962 381 AG8
Fungi, Fungicides, Pentachloronitrobenzene, Plant diseases,
Seedlings.
- 8247-68
DRY SEED-DRESSING COMPOSITIONS.
J Sci Food Agr 12 (5) I-228-4
May 1961 382 S012
Dieldrin, Seed treatment.
Shell Research Ltd.
Inventors J K Eaton and J Bromilow
- 8248-68
INHIBITION OF WHEAT STRIP RUST, DUE TO PUCCINIA STRIIFORM-
J Sci Food Agr 15 (9) II-127-7
Sep 1964 382 S012
Phleomycin, Puccinia, Wheat.
- 8249-68
(PREPARATION AND COMPOUNDING) OF FUNGICIDAL PRODUCTS.
J Sci Food Agr 12 (4) I-174-5
Apr 1961 382 S012
Ethyl-benzoxalium ethyl sulfate, 2-(2-anilinovinyl),
Fungicides.
Murphy Chem. Co. Ltd. and M. Pianka
- 8250-68
PEST-COMBATING PREPARATIONS.
J Sci Food Agr 12 (5) I-228-2
May 1961 382 S012
Fungicides.
CIBA Ltd.
- 8251-68
EFFECTS OF FUNGICIDES ON THE DEVELOPMENT OF APPLE SCAB.
J J Albert J W Heuberger R K Jones F H Lewis
Agr Chem 17 (7) 57, 75-76
Jul 1962 381 AG8
Apples, Captan, Dodine, Scab (apples).
- 8252-68
INACTIVATION OF TNV FROM TOMATO SEED.
L J Alexander
J Sci Food Agr 12 (4) I-171-8
Apr 1961 382 S012
Hydrochloric acid, Sodium phosphate, Tomatoes, Viruses.
- 8253-68
CONTROL OF SPADIX ROT OF ANTHURIUM, ANTHURIUM ANDRAEANUM,
IN HAWAII.
M Aragaki M Ishii
J Sci Food Agr 12 (6) I-282-5
Jun 1961 382 S012
Anthurium, Dodine, Dyrene, Maneb, Spadix rot.
- 8254-68
COPPER FUNGICIDES II ABSORPTION OF SOLUBLE COPPER IN
RELATION TO STAGE OF LEAF GROWTH AND TO LEAF INJURY.
P Arman R L Wain
J Sci Food Agr 12 (1) I-15-4
Jan 1961 382 S012
Copper sulfate, Foliar application, Fungicides,
Plant injuries, Spraying.
- 8255-68
AMERICAN, EGYPTIAN AND INDIAN COTTON-WILT PUSARIA.
G M Armstrong J K Armstrong
J Sci Food Agr 12 (3) I-129-4
Mar 1961 382 S012
Cotton, Wilt (cotton).
- 8256-68
EFFECT OF VARIOUS HERBICIDES ON SOME SOIL FUNGI IN CULTURE.
D C Bain
Agr Chem 17 (6) 70
Jun 1962 381 AG8
Culture media, Herbicides, Soil fungi.
- 8257-68
CHEMICAL CONTROL OF SPRING BLACK STEM IN LUCERNE.
E E Bantari L Sundheim R D Nilcoxson
J Sci Food Agr 15 (9) II-128-1
Sep 1964 382 S012
Alfalfa, Dyrene, Leptosphaerulina, Maneb, Phoma, Pseudopeziza.
- 8258-68
CHEMICAL CONTROL OF SPRING BLACK STEM IN ALFALFA.
E E Bantari L Sundheim R D Wilcoxson
Agr Chem 19 (10) 68,88
Oct 1964 381 AG8
Alfalfa, Leaf spot (alfalfa), Maneb,
Spring black stem (alfalfa).
- 8259-68
EFFECTS OF ANTIBIOTIC AND FUNGICIDAL TREATMENTS ON WOUND
PERIDERM FORMATION, PLANT EMERGENCE AND YIELDS PRODUCED BY
CUT SEED POTATOES.
R Bonde F Hyland
J Sci Food Agr 12 (6) I-273-1
Jun 1961 382 S012
Captan, Plant injuries, Potatoes.
- 8260-68
CONDITIONS OF FOREST INSECTS IN 1964.
J W Bongberg
Agr Chem 20 (4) 85-87,124-125
Apr 1965 381 AG8
Defoliation, Forest insects.
- 8261-68
CHEMICAL SOIL TREATMENT FOR CONTROL OF FUSARIUM INFECTION.
H I Borders
Agr Chem 17 (8) 49
Aug 1962 381 AG8
Hexachlorophene, Pentachloronitrobenzene, Soils, Tomatoes,
Wilt (tomatoes).
- 8262-68
CHEMICAL CONTROL OF BACTERIAL AND CERCOSPORA LEAF SPOTS.
H I Borders
Agr Chem 18 (9) 147
Sep 1963 381 AG8
Captan, Copper sulfate, Pentachloronitrobenzene, Piper nigrum.

- 8263-68
CHEMICAL CONTROL OF TWO SOIL-BORNE DISEASES OF SNAP BEANS.
B I Borders
Agr Chem 18(7) 54
Jul 1963 381 AG8
Beans, DAC-1200 , DAC-649 , Root rot (beans).
- 8264-68
DIAGNOSIS OF FLUORINE INJURY (TO PLANTS) I INDICATOR
PLANTS AMONG THE WILD FLORA.
W Borsdorf
J Sci Food Agr 12(1) I-8-1
Jan 1961 382 S012
Fluorine, Indicator plants, Plant injuries, Wild flowers.
- 8265-68
VANCOMYCIN PREVENTS CROWN GALL.
A M Boyle R M Price
J Sci Food Agr 15(9) II-130-9
Sep 1964 382 S012
Crown galls (tomatoes), Plant translocation, Rosa, Tomatoes,
Vancomycin.
- 8266-68
CONTROL OF LEAF MOULD, DUE TO CLADOSPORIUM FULVUM, IN A
HEAVILY INFECTED TOMATO CROP.
J F Bradbury R W Fisher
J Sci Food Agr 15(9) II-131-3
Sep 1964 382 S012
Cladosporium fulvum, Maneb, Polybutenes, Tomatoes.
- 8267-68
CONTROL OF POWDERY MILDEW OF CUCUMBER WITH POLYBUTENE
EMULSIONS.
J F Bradbury R W Fisher
J Sci Food Agr 15(9) II-131-4
Sep 1964 382 S012
Cucumbers, Polybutenes.
- 8268-68
SPRAYING AGAINST APPLE MILDEW AND APPLE SCAB AT LONG ASH-
TON 1962.
R J W Bryde G M Clarke C W Barber
J Sci Food Agr 15(11) II-241-2
Nov 1964 382 S012
Apples, Bayer 4964, Dinocap,
Methylquinoxaline-2,3-dithiol carbonate, 6-, Mildew (apples),
Scab (apples), Spraying.
- 8269-68
POTENTIAL FUNGICIDES FOR APPLE MILDEW. PROGRESS REPORT.
R J W Bryde G M Clarke M Clarke D R Clifford E D Evans
J Sci Food Agr 15(11) II-241-1
Nov 1964 382 S012
Apples, Fungicides, Mildew (apples).
- 8270-68
SEED ABORTION AND FRUIT DROP IN BARTLETT PEAR CAUSED BY
SEVIN.
E C Burts S G Kelly
J Sci Food Agr 12(4) I-169-6
Apr 1961 382 S012
Abortion, Carbaryl, Pears, Seeds.
- 8271-68
CONTROL OF SUGAR-BEET DOWNY MILDEW, PERONOSPORA FARINOSA,
BY SPRAYS.
W J Byford R Bull
J Sci Food Agr 15(10) II-186-7
Oct 1964 382 S012
Downy mildew (sugarbeets), Fungicides, Peronospora,
Root crops, Spraying, Steckling beds.
- 8272-68
CERCOSPORA DISEASES OF TOBACCO, PEANUT AND GRAMALOTE GRASS.
L Calpouzos C Colberg T Theis
Agr Chem 17(9) 68
Sep 1962 381 AG8
Grasses, Oils, Peanuts, Plant diseases, Tobacco.
- 8273-68
IMPORTANCE OF SOURCE OF SPRAY OILS FOR SIGATOKA DISEASE
CONTROL AND PHYTOTOXICITY TO BANANA LEAVES.
L Calpouzos C Colberg
J Sci Food Agr 15(11) II-241-4
Nov 1964 382 S012
Bananas, Oils, Plant injuries, Sigatoka (bananas), Spraying.
- 8274-68
EFFECTS OF CHEMICALS AND CULTURAL PRACTICES ON CONTROL OF
PLASMOPHORA BRASSICAE WOR. (CLUBROOT).
S Catovic-Catani A E Rich
J Sci Food Agr 15(9) II-131-9
Sep 1964 382 S012
Broccoli, Cabbage, Cauliflower,
Cultural control (plant diseases), Pentachloronitrobenzene,
Tetrachloronitroanisole.
- 8275-68
NEW SOIL FUNGICIDES.
R C Cetas E D Jones
Agr Chem 18(7) 54
Jul 1963 381 AG8
Fungicides, Pentachloronitrobenzene, Scab (potatoes),
Soil fungi.
- 8276-68
FIELD SPRAY TRIALS AGAINST WILDFIRE AND ANGULAR LEAF-SPOT OF
TOBACCO IN RHODESIA.
J S Cole
J Sci Food Agr 12(1) I-21-4
Jan 1961 382 S012
Angular leafspot (tobacco), Bordeaux mixture, Oxytetracycline,
Rhodesia, Streptomycin, Tobacco, Wildfire (tobacco).
- 8277-68
FUNGICIDAL SPRAYS FOR CONTROL OF PEANUT LEAF SPOT.
W E Cooper
Agr Chem 17(5) 63
May 1962 381 AG8
Dodine, Dyrene, Folpet, Maneb, Peanuts.
- 8278-68
CALCIUM REQUIREMENT FOR GROWTH-REGULATOR-INDUCED RESISTANCE
TO FUSARIUM WILT OF TOMATO.
M E Corden L V Edgington
J Sci Food Agr 12(4) I-169-1
Apr 1961 382 S012
Calcium, Plant disease resistance, Plant regulators,
Wilt (tomatoes).
- 8279-68
ANTIBIOTICS AGAINST PLANT DISEASE. VII. ANTIFUNGAL BEPTAENE
COMPONENT (P-17-C) PRODUCED BY STREPTOMYCES CINNAMOMENSIS, P.
AZACOLUTA.
R Craveri O L Shotwell R G Dworschack T G Pridham R W Jackson
J Sci Food Agr 12(1) I-15-6
Jan 1961 382 S012
Antibiotics.
- 8280-68
APPLE SCALD AND ITS CONTROL BY USE OF DIPBENYLAMINE OR SAN-
TOQUIN.
R A Daines
Agr Chem 18(10) 64
Oct 1963 381 AG8
DPA , Santoquin, Scald (apples).
- 8281-68
CONTROL OF BACTERIAL SPOT CAUSED BY XANTHOMONAS PRUNI, OF
PEACH.
R B Daines
J Sci Food Agr 15(9) II-128-2
Sep 1964 382 S012
Copper, Lime, Peaches, Xanthomonas, Zinc chromate.
- 8282-68
CONTROL OF BACTERIAL SPOT OF PEACH WITH N-DODECYLGUANIDINE
ACETATE.
R B Daines
J Sci Food Agr 12(6) I-280-8
Jun 1961 382 S012
Bacterial spot (peaches), Captan, Dodecylguanidine acetate.
- 8283-68
TREATMENTS FOR THE CONTROL OF SOLEROTINEOSE OF LETTUCE.
J F Darby
Agr Chem 17(2) 63
Feb 1962 381 AG8
Crop rotation, Ferbam, Fungi, Lettuce,
Pentachloronitrobenzene.
- 8284-68
SYSTEMIC ACTION OF DIMETHYLDITHIOCARBAMATES ON CUCUMBER SCAB
CAUSED BY CLADOSPORIUM CUCUMERINUM AND THE CONVERSION OF
THESE COMPOUNDS BY THE PLANT.
H M Dekhuijzen
J Sci Food Agr 15(11) II-241-6

BIBLIOGRAPHY

20 8285-68

- Nov 1964 382 S012
Cladosporium, Cucumbers, Dimethyldithiocarbamate-glucoside,
L-dimethyldithiocarbamate-alanine, Scab (cucumbers),
Sodium dimethyldithiocarbamate.
- 8285-68
ANTIBIOTIC GRISEOFULVIN AND SOME ASPECTS OF ITS MODE OF
ACTION.
J Dekker I Tulleners
J Sci Food Agr 15(10) II-183-7
Oct 1964 382 S012
Anthracnose (cucumbers), Chocolate spot (broadbeans),
Griseofulvin, Plant metabolism, Powdery mildew (plants).
- 8286-68
DISINFECTANT TREATMENTS FOR FRESHLY-HARVESTED PEPPER SEEDS.
A H Dempsey W A Chandler
J Sci Food Agr 15(9) II-132-4
Sep 1964 382 S012
Acrizane chloride, Colletotrichum, Pimientos, Seed treatment,
Xanthomonas.
- 8287-68
MYCOSTIASIS AND ROOT EXUDATION FACTORS INFLUENCING THE
COLONIZATION OF BEAN ROOTS BY FUNGI.
N J Dix
Brit Mycol Soc Trans 50(1) 23-31, REP.
Mar 1967 451 B76
Beans, Fungi, Fungicides, Mycostasis, Rhizosphere,
Root excretions, Roots, Soil fungi.
- 8288-68
EFFECTS OF NUTRITION ON THE CHLOROTIC DWARF DISEASE OF
EASTERN WHITE PINE, PINUS STROBUS.
L S Dochinger
J Sci Food Agr 15(9) II-132-3
Sep 1964 382 S012
Fertilizers, Pinus, Plant nutrition.
- 8289-68
CONTROL OF COLONISATION OF SLASH PINE STUMPS BY FOMES
ANNOSUS.
C H Driver
J Sci Food Agr 15(9) II-132-5
Sep 1964 382 S012
Borax, Fomes annosus, Pinus.
- 8290-68
EVALUATION OF AMMONIA-GENERATING FORMULATIONS FOR CONTROL OF
CITRUS FRUIT DECAY.
J W Eckert M J Kolliezen
J Sci Food Agr 12(4) I-168-5
Apr 1961 382 S012
Ammonia, Ammonium sulfate, Calcium hydroxide, Plant diseases.
- 8291-68
FUNGICIDAL ACTIVITY OF DERIVATIVES OF 2-NITROPROPANE-1,3-
DIOL.
Z Eckstein E Grochowski T Urbanski
J Sci Food Agr 12(4) I-168-6
Apr 1961 382 S012
Arylnitromethane compounds, Fungicides,
Nitropropane-1,3-diol, 2-.
- 8292-68
EVALUATION OF A PATENTED TREATMENT FOR CONTROL OF DUTCH ELM
DISEASE.
L V Edgington A E Dimond
J Sci Food Agr 15(9) II-129-11
Sep 1964 382 S012
Chemical control (plant diseases).
- 8293-68
EVALUATING FUNGICIDES FOR CONTROL OF COTTON SORE-SHIN.
H M Elsaid J B Sinclair
Agr Chem 18(11) 63
Nov 1963 381 AG8
Damping-off (cotton), Pentachloronitrobenzene,
Soil sterilization.
- 8294-68
CORYNEUM BLIGHT OF PEACH.
H English J R Davis
Agr Chem 18(9) 147
Sep 1963 381 AG8
Blight, Bordeaux mixture, Dithane, Dodine, Peaches, Ziram.
- 8295-68
CONTROL OF VERTICILLIUM WILT OF MINT BY SOIL FUMIGATION.
L R Faulkner C B Skotland
Agr Chem 19(9) 118,160, 3 REFS.
Sep 1964 381 AG8
Fumigation, Mentha, Soils, Wilt.
- 8296-68
EFFECTS OF POLYBUTENE EMULSIONS ON GREENHOUSE TOMATOES AND
THE CONTROL OF LEAF MOULD.
R W Fisher E A Kerr
J Sci Food Agr 15(9) II-128-9
Sep 1964 382 S012
Leaf mold disease (tomatoes), Polybutenes, Tomatoes.
- 8297-68
NEW CHEMICALS FOR CONTROL OF FIREBLIGHT ON PEAR.
P R Pronek E J Klos
J Sci Food Agr 15(10) II-187-3
Oct 1964 382 S012
Bromoacetylvalinamide,
Dodecyl-2-methyl-1,4,5,6-tetrahydropyrimidine, 1-,
Fire blight (pears),
N-ethylmercuri-1,2,3,6-tetrahydro-3,6-endomethano-3,4,5,6,7,,
Pears, Pyridinethiol-1-oxide copper salt, 2-,
7-hexachlorophthalimide.
- 8298-68
NEW HOSTS OF BLACK BLOTCH OF CLOVER IN BRITAIN.
L C Frost
Brit Mycol Soc Trans 50(1) 155.
Mar 1967 451 B76
Cymadothea trifolii, Host specificity,
Sooty blotch (Trigonella), Trigonella incarnatum molinerii,
Trigonella occidentale, Trigonella ornithopodioides.
- 8299-68
INFLUENCE OF INSECTICIDE-FUNGICIDE SPRAY PROGRAMMES ON
GROWTH OF APPLE NURSERY TREES.
P L Gambrell R M Gilmer
J Sci Food Agr 12(3) I-127-6
Mar 1961 382 S012
Apples, Demeton, DDT, Lindane, Powdery mildew (apples).
- 8300-68
EFFECT OF GYPSUM ON SOIL ROT OF GROUNDNUT PODS IN VIRGINIA.
K H Garren
J Sci Food Agr 15(11) II-242-6
Nov 1964 382 S012
Gypsum (soil amendment), Peanuts, Pentachloronitrobenzene,
Soil organic matter, Soil rot (peanuts).
- 8301-68
SPORICIDAL EFFECTS OF RING POLYCHLORINATED PYRIMIDINES.
PHYSICAL FACTORS AFFECTING TOXICITY.
H Gershon R Parmegiani
J Sci Food Agr 15(10) II-183-8
Oct 1964 382 S012
Aspergillus, Fungi, Fungicides, Penicillium,
Polychloropyrimidines, Trichoderma.
- 8302-68
SPINACH LEAF DISEASES CONTROLLED WITH FUNGICIDES.
M J Goode
J Sci Food Agr 15(9) II-129-4
Sep 1964 382 S012
Antibiotics, Fungicides, Spinach.
- 8303-68
TREATMENT OF BULBS WITH CERTAIN MERCURY COMPOUNDS.
C J Gould W D McClellan V L Miller
Agr Chem 17(1) 66
Jan 1962 381 AG8
Mercury compounds, Narcissus.
- 8304-68
FUNGICIDAL SOIL TREATMENT WITH AND WITHOUT A HERBICIDE.
D R Grossan A L Morehart
Agr Chem 17(10) 60
Oct 1962 381 AG8
Fungicides, Herbicides, Maneb, Soils.
- 8305-68
EFFECT OF SOME FUNGICIDE ON PECTOLYTIC ENZYME ACTIVITY OF
SCLEROTINIA SCLEROTIORUM AND BOTRYTIS ALLII.
R J Grover
J Sci Food Agr 15(11) II-239-5
Nov 1964 382 S012
Botrytis,
Cyclohexene-1,2-dicarboximide, N-(1,1,2,2,-tetrachloro-

BIBLIOGRAPHY

20 8327-68

- Cycloheximide, Diflolan, Dodine, Ethylsulphenyl)-cis-delta-4-, Pectic enzymes, Phaltan, Sclerotinia.
- 8306-68
DORMANT SPRAYS FOR THE CONTROL OF DUTCH ELM DISEASE.
G E Rafstad J F Reynolds
Agr Chem 17(4) 65
Apr 1962 381 AG8
Dieback (ulmus), DDT, Methoxychlor, Spraying.
- 8307-68
CONTROL OF RHIZOPUS BOLL ROT OF COTTON.
P M Halisky M M Satour
Agr Chem 20(4) 88
Apr 1965 381 AG8
Boll rot (cotton), Cotton, Fungicides, Fungus.
- 8308-68
CONTROL OF VERTICILLUM WILT OF EGGPLANTS BY SOIL FUMIGATION.
Y Hameiri J Palti
J Sci Food Agr 15(9) II-131-6
Sep 1964 382 S012
Dibromo-3-chloropropane, 1,2-, Eggplant, Methyl bromide, Soil fumigation.
- 8309-68
LEMON DECAY FUNGI.
P R Harding D C Savage
Agr Chem 18(10) 64
Oct 1963 381 AG8
Biphenyl, Fungi, Lemons.
- 8310-68
CYTOSPORA CINCTA IN CULTURE.
A E Harvey A W Helton
Agr Chem 18(7) 54,77, 3 REFS.
Jul 1963 381 AG8
Canker, Cycloheximide.
- 8311-68
ABSORPTION, TOXICITY AND BIOASSAY OF HIGH-POTENCY FUNGICIDES IN PRUNUS DOMESTICA.
A W Helton A E Harvey
J Sci Food Agr 15(11) II-238-7
Nov 1964 382 S012
Biological assay, Cycloheximide, Plant translocation, Prunus domestica, Pyridinethione, Quinolinol, 8-.
- 8312-68
EPIDEMIOLOGY OF BLUE MOLD (PERONOSPORA TABACINA ADAM) OF TOBACCO IN THE OVEENS VALLEY DISTRICT OF VICTORIA. I. DISEASE OCCURENCE.
A V Hill R G Paddick S Green
Australian J Agr Res 18 (4), 575-587
Jul 1967 23 AU783
Downy mildew (tobacco), Epidemiology, Peronospora tabacina, Tobacco.
- 8313-68
DETACHED CUCUMBER LEAF METHOD FOR SCREENING FUNGICIDES FOR THE CONTROL OF ANTHRACNOSE.
N L Horn
J Sci Food Agr 15(11) II-238-6
Oct 1964 382 S012
Anthracoese (plants), Biological assay, Fungicides.
- 8314-68
ANTISPORULANT ACTION OF HEXACHLORO-2-PROPANOL.
J G Horsfall S Rich
J Sci Food Agr 12(4) I-168-1
Apr 1961 382 S012
Fungi, Fungicides, Hexachloro-2-propanol, 1,1,1,3,3,3,-.
- 8315-68
ORCHARD-MITE RESISTANCE TO KELTHANE.
S C Hoyt F H Barries
J Sci Food Agr 12(6) I-280-5
Jun 1961 382 S012
Dicofol, Insecticide resistant insects, Tetranychidae.
- 8316-68
HAWTHORNE LEAF BLIGHT.
R E Inman
Agr Chem 18(10) 64,129-130
Oct 1963 381 AG8
Crataegus, Cycloheximide, Dodine, Zineb.
- 8317-68
CONTROL OF ASPERGILLUS CROWN ROT AND OTHER SEEDLING DISEASES OF GROUNDNUTS.
C R Jackson
J Sci Food Agr 15(9) II-130-1
Sep 1964 382 S012
Aspergillus, Captan, Ceresan, Panogen, Peanuts.
- 8318-68
COMPARISONS OF SEED-TREATMENT FUNGICIDES.
C R Jackson
Agr Chem 20(4) 88
Apr 1965 381 AG8
Fungicides, Seed treatment, Soil fungi.
- 8319-68
INCIDENCE OF BACTERIAL WILT, DUE TO PSEUDOMONAS SOLANACEARUM, IN TOMATO PLANTS AS RELATED TO SOIL POTASSIUM, CALCIUM AND MAGNESIUM LEVELS.
C A Jaworski D J Morton
J Sci Food Agr 15(9) II-131-2
Sep 1964 382 S012
Calcium, Magnesium, Potassium, Pseudomonas solanacearum, Tomatoes.
- 8320-68
CONTROL OF FIRE BLIGHT BLOSSOM INFECTION ON PEAR.
A L Jones K G Parker
J Sci Food Agr 15(9) II-130-3
Sep 1964 382 S012
Bordeaux mixture, Pears, Streptomycin.
- 8321-68
BACTERICIDAL ACTION OF ORGANIC FUNGICIDES AGAINST ERWINIA AMYLOVORA, AND FIREBLIGHT DISEASE CONTROL.
A L Jones
J Sci Food Agr 15(9) II-129-10
Sep 1964 382 S012
Acetanilide, alpha-(2-bromoacetoxy)-, Erwinia amylovora, Maneb, Nabam, Nitrofurantoin-5-amidoxime, 2-.
- 8322-68
APPLE SCAB. III. EFFECT OF SERIAL APPLICATION OF FUNGICIDES ON LEAF LESIONS OF PREVIOUSLY UNSPRAYED TREES.
R K Jones J W Heuberger J D Bates
J Sci Food Agr 15(10) II-187-1
Oct 1964 382 S012
Captan, Dodine, Folpet, Leaves.
- 8323-68
FULL COOPERATION WITH CONTROL PROGRAMS CAN RESULT IN EFFECTIVE BOLL WEEVIL REDUCTION.
S E Jones
Agr Chem 20(4) 50-52
Apr 1965 381 AG8
Anthonomus grandis, Cotton bolls, Cotton ginning, Harvesting.
- 8324-68
SCIRRHIA ACICOLA IN LIQUID CULTURE.
A G Kais
Agr Chem 20(6) 75
Jun 1965 381 AG8
Antibiotics, Brown spot (pinus palustris), Fungus.
- 8325-68
FUMIGATION OF AGRICULTURAL PRODUCTS XVII. CONTROL OF ASCOCHYTA BLIGHT OF PEAS BY FUMIGATION.
J Kennedy
J Sci Food Agr 12(6) I-281-3
Jun 1961 382 S012
Ascochyta blight, Chloropicrin, Peas.
- 8326-68
STERILE MALES AND INSECTICIDES OFFER HOPE FOR BOLL WEEVIL ERADICATION.
E F Knipling
Agr Chem 20(5) 29-30,123
Jun 1965 381 AG8
Anthonomus grandis, Insecticides, Sterility.
- 8327-68
NEW FUNGICIDE EXHIBITS POTENTIAL FOR BROAD-SPECTRUM DISEASE CONTROL.
N E Krog
Agr Chem 19(11) 30-32,102, 14 REFS., 1 TAB.
Nov 1964 381 AG8
Apples, Fungicides, Potatoes, Rust (apples), Tomatoes.

BIBLIOGRAPHY

20 8328-68

- 8328-68
SELECTIVE PROTECTION AFFORDED BY CERTAIN SEED AND SOIL FUNGICIDES.
I D Leach R H Garber W J Tolmsoff
J Sci Food Agr 12(4) I-170-2
Apr 1961 382 S012
Cotton, Fungi, Fungicides,
Para-dimethylaminobenzenediazo sodium sulfonate,
Pentachloronitrobenzene, Sugar beet seeds.
- 8329-68
EFFECT OF AMINO ACIDS AND ORGANIC ACIDS ON THE SEXUAL REPRODUCTION OF SPECIES OF PHYTOPHTHORA AND PYTHIUM.
J A Leal A Gomez-Miranda
Brit Mycol Soc Trans 50(1) 77-84, REF.
Mar 1967 451 B76
Amino acids, Phytophthora cactorum, Phytophthora hevea, Pythium butleri.
- 8330-68
TRANSMISSION OF DOWNY MILDEW (SCLEROSPORA SACCHARI) FROM SUGARCANE TO MAIZE AND VICE VERSA.
L S Leu T L Chu
J Sci Food Agr 12(1) I-17-6
Jan 1961 382 S012
Corn, Downy mildew (corn), Downy mildew (sugarcane).
- 8331-68
SORGHUM DISEASES AND THEIR CONTROL.
R W Leukel J H Martin C L Lefebvre
J Sci Food Agr 12(6) I-281-7
Jun 1961 382 S012
Plant diseases, Seed treatment, Sorghum.
- 8332-68
CONTROL OF POTATO SEED-PIECE DECAY.
R F Line C J Eide
J Sci Food Agr 12(4) I-170-6
Apr 1961 382 S012
Fungi, Maneb, Oxytetracycline, Potato seeds, Streptomycin.
- 8333-68
A NEW SPECIES OF CLAVICEPS ON CYPERACEAE.
A R Loveless
Brit Mycol Soc Trans 50(1) 19-22
Mar 1967 451 B76
Claviceps cyperi, Cyperaceae, Hypocreales, Parasitic plants.
- 8334-68
THE EFFECT OF GIBBERELLIN.
G B Lucas C von Ramm
Agr Chem 18(11) 63
Nov 1963 381 AG8
Brown spot (tobacco), Flue-cured tobacco, Gibberellins.
- 8335-68
CONIDIAL STATES OF BRITISH SPECIES OF LEPTOSPHAERIA.
M T Lucas D Webster
Brit Mycol Soc Trans 50(1) 85-121, REF.
Mar 1967 451 B76
Fungus diseases (plants), Leptosphaeria.
Includes plant hosts.
- 8336-68
DISINFECTANTS AND POTATO RING ROT CONTROL.
D S MacLachlan
J Sci Food Agr 12(6) I-279-8
Jun 1961 382 S012
Mercuric chloride, Potatoes, Ring rot (potatoes), Semesan.
- 8337-68
STREPTOMYCIN ABSORPTION, TRANSLLOCATION AND RETENTION IN HOPS.
C R Maier
J Sci Food Agr 12(1) I-16-1
Jan 1961 382 S012
Downy mildew, Hops, Streptomycin.
- 8338-68
BITTER PIT IN THE APPLE VARIETY CLEOPATRA IN TASMANIA IN RELATION TO CALCIUM AND MAGNESIUM.
D Martin T L Lewis J Cerny
J Sci Food Agr 12(5) I-225-6
May 1961 382 S012
Bitter pit (apples), Calcium, Calcium nitrate, Magnesium, Potassium nitrate, Spraying.
- 8339-68
EFFECTS OF VAPOURS OF AROMATIC CHEMICALS ON PHYTOPATHOGENIC BACTERIA.
J C Maruzzella C C Kleinberg C J Urso
J Sci Food Agr 15(10) II-189-2
Oct 1964 382 S012
Bacteria, Bacterial diseases (plants), Organic compounds, Toxicology, Vapors.
- 8340-68
CHANGES IN SUGARS AND AMINO-ACIDS OF CUCUMBER FRUITS INFECTED WITH PYTHIUM APHANIDERMATUM.
C L McCombs N N Winstead
J Sci Food Agr 15(11) II-241-5
Nov 1964 382 S012
Amino acids, Cucumbers, Pythium, Sugars.
- 8341-68
CHEMICALS FOR PLANT DISEASE CONTROL.
H McGrath
Agr Chem 19(8) 22-27
Aug 1964 381 AG8
Captan, Polpet, Maneb, Plant disease control, Zineb.
- 8342-68
CHEMICALS FOR PLANT DISEASE CONTROL.
H McGrath
Agr Chem 19(9) 28-37
Sep 1964 381 AG8
Bayer 25141, Ferbam, Plant disease control, Zineb.
- 8343-68
FUNGICIDES AND BACTERICIDES FOR CONTROLLING PLANT DISEASES.
G L McNew
J Sci Food Agr 12(1) I-15-1
Jan 1961 382 S012
Bactericides, Fungicides, Plant diseases.
- 8344-68
INHIBITION OF THE MULTIPLICATION OF TOBACCO MOSAIC VIRUS IN TISSUE CULTURE BY ITS ANTISERUM.
K A Mieczynski
J Sci Food Agr 12(6) I-281-4
Jun 1961 382 S012
Mosaic (tobacco), Tissue culture.
- 8345-68
RELATIONSHIP OF LIPID CONTENTS OF FUNGAL CONIDIA TO UPTAKE OF TOXICANTS.
L P Miller E Richter
J Sci Food Agr 12(4) I-168-9
Apr 1961 382 S012
Fungi, Fungicides, Lipids.
- 8346-68
MECHANISM OF ACTION OF FUNGITOXICANTS IN DESTROYING FUNGUS CONIDIA. XV.2 .
L P Miller S E A McCallan
J Sci Food Agr 12(1) I-15-2
Jan 1961 382 S012
Chemical control (plant diseases), Conidia, Fungi, Fungicides.
- 8347-68
UPTAKE AND INNATE TOXICITY OF DODINE (n-DODECYLGUANIDINE ACETATE) TO FUNGUS CONIDIA.
L P Miller
J Sci Food Agr 12(4) I-168-10
Apr 1961 382 S012
Dodine, Fungi.
- 8348-68
WHEAT STRIPE RUST.
P Miller
Agr Chem 20(1) 61
Jan 1965 381 AG8
Fungicides, Stripe rust (wheat), Wheat.
- 8349-68
EVALUATION OF OIL.
P Miller
Agr Chem 20(1) 61
Jan 1965 381 AG8
Fungi, Fungicides.
- 8350-68
EVALUATION OF FRUIT FUNGICIDES.
P Miller
Agr Chem 20(3) 68
Mar 1965 381 AG8
Antibiotics, Fruit, Fungicides.

BIBLIOGRAPHY

20 8372-68

- 8351-68
CHEMICAL CONTROL OF STRIPE RUST ON OMAR WHEAT.
P Miller
Agr Chem 20(1) 61,91, 3 REFS.
Jan 1965 381 AG8
Fungicides, Stripe rust (wheat), Wheat.
- 8352-68
ORGANIC TIN COMPOUNDS FOR CONTROL OF BLUE MOULD, DUE TO PENICILLIUM SP., OF IRIS BULBS.
V L Miller C J Gould
J Sci Food Agr 15(9) II-133-2
Sep 1964 382 S012
Pentin acetate, Iris, Penicillium, Tributyltin acetate, Tributyltin oxide.
- 8353-68
WESTERN RESEARCH RESULTS ARE COORDINATED AT PORTLAND MEETINGS.
L H Milliman
Agr Chem 17(3) 25-29, 109-110
Mar 1962 381 AG8
Crops, Fruit, Virus diseases (plants).
- 8354-68
SYSTEMIC AND FUNGICIDAL ACTIVITY OF D-, L- AND DL-ETHIONINE, S-ALKYL-DL-HOMOCYSTEINE DERIVATIVES AND METHIONINE ANTAGONISTS.
W Moje J B Kendrick Jr G A Zentmeyer
J Sci Food Agr 15(7) II-23-4
Jul 1964 382 S012
Alkyl DL-homocysteine, S-, Ethionine, Methionine, Persea, Phytophthora, Soil fungi.
- 8355-68
PATHOGENICITY OF BRITISH ISOLATES OF PHYTOPHTHORA FRAGARIAE AND THEIR RELATIONSHIP WITH AMERICAN AND CANADIAN RACES.
I G Montgomerie
Brit Mycol Soc Trans 50(1) 57-67
Mar 1967 451 B76
Pathogenicity, Phytophthora fragariae, Plant disease resistance, Red stele (strawberries), Strawberries.
- 8356-68
TOMATO SOUTHERN BLIGHT.
D J Morton R E Worley
Agr Chem 20(11) 79
Nov 1965 381 AG8
Calcium nitrate, Dichloro,1,4-,dimethoxybenzene,2,5-, Southern blight (tomatoes), Tetrachloronitroanisole,2,3,5,6-.
- 8357-68
ROOT-ROT IN SUGAR-BEET AND ITS CONTROL.
H H Noelle
J Sci Food Agr 12(1) I-18-1
Jan 1961 382 S012
Mercury compounds, Root rot (sugar beets), Sugar beets.
- 8358-68
(A) OXIDATION OF PHLORIDZIN TO PHLORETIN RELATED TO RESISTANCE OF MALUS TO VENTURIA INAEQUALIS.
E L Noveroske J Kuc E B Williams
J Sci Food Agr 15(11) II-239-4
Nov 1964 382 S012
Apples, Beta-glycosidases, Phenolases, Phloretin, Phlorizin, Plant disease resistance, Venturia.
- 8359-68
EFFECTS OF THE COMBINATION OF SODIUM PENTACHLOROPHENOXIDE AND LIQUID LIME-SULPHUR ON THE BROWN-ROT FUNGI.
J M Ogawa E E Wilson
J Sci Food Agr 12(4) I-171-4
Apr 1961 382 S012
Brown rot (apples), Sodium pentachlorophenoxide, Sulfur compounds.
- 8360-68
TESTS OF SOIL FUNGICIDES UNDER UNIFORM CONDITIONS FOR CONTROL OF COTTON DAMPING-OFF CAUSED BY RHIZOCTONIA SOLANI.
J H Owens J D Gay
Agr Chem 20(5) 78
May 1965 381 AG8
Cotton, Damping-off (cotton), Fungicides.
- 8361-68
CHEMISTRY AND PHYSIOLOGY OF FUNGICIDAL ACTION.
R G Owens
J Sci Food Agr 15(10) II-183-3
- Oct 1964 382 S012
Chemistry, Fungicides, Physiology.
- 8362-68
EPIDEMIOLOGY OF BLUE MOLD (PERONOSPORA TABACINA ADAM) TOBACCO IN THE OVENS VALLEY DISTRICT OF VICTORIA. II. DISEASE SEVERITY.
R G Paddick A V Hill S Green
Australian J Agr Res 18 (4), 589-600
Jul 1967 23 AU783
Downy mildew (tobacco), Epidemiology, Peronospora tabacina, Tobacco.
Abstract
- 8363-68
CONTROL OF SUPERFICIAL SCALD ON GRANNY SMITH APPLES USING PREHARVEST SPRAYS OF DIPHENYLAMINE.
C A S Padfield R M Smock
J Sci Food Agr 12(6) I-290-1
Jun 1961 382 S012
Diphenylamine, Scald (apples).
- 8364-68
TWO NEW COMPOUNDS AS SEED AND SOIL TREATMENTS.
E N Pelletier H C Palmer
J Sci Food Agr 12(4) I-168-2
Apr 1961 382 S012
Fungicides, Soil fungi.
- 8365-68
CONTROL OF CEDAR BLIGHT, PHOMOPSIS JUNIPEROVORA HAHN.
G W Peterson D Nuland J L Weihing
J Sci Food Agr 12(4) I-172-8
Apr 1961 382 S012
Cedar blight (juniperus), Cycloheximide, Dodine.
- 8366-68
SEEDLING DISEASES.
L J Peterson
Agr Chem 20(11) 97
Nov 1965 381 AG8
Aquatic fungi, Plant diseases, Rice, Seed germination, Seedlings.
- 8367-68
CONTROL OF POTATO LEAF-ROLL VIRUS WITH SYSTEMIC INSECTICIDES.
D D Pond
J Sci Food Agr 15(9) II-127-8
Sep 1964 382 S012
Disulfoton, Leaf roll (potatoes), Phorate, Potatoes.
- 8368-68
APPLE AND PEAR CANKER.
W Porreye
J Sci Food Agr 12(5) I-225-5
May 1961 382 S012
Apples, Canker (fruit), Captan, Pears, Thiram.
- 8369-68
WHEAT DWARF BUNT CONTROL.
L H Purdy
Agr Chem 18(11) 63, 118
Nov 1963 381 AG8
Hexachlorobenzene, Stinking smut (wheat).
- 8370-68
CONTROL OF FLAG SMUT, DUE TO UROCYSTIS AGROPYRI, OF WHEAT WITH SEED-TREATMENT CHEMICALS.
L H Purdy
J Sci Food Agr 15(9) II-127-5
Sep 1964 382 S012
Mercury compounds, Seed treatment, Tetrachloronitroanisole, Urocystis, Wheat.
- 8371-68
PREVENTION OF BASAL ATTACKS OF TOMATO STEM ROT (DIDYMELLA LYCOPERSICI) WITH CAPTAN.
W H Read
J Sci Food Agr 12(5) I-226-4
May 1961 382 S012
Captan, Fungus, Tomatoes.
- 8372-68
RESIDUAL EFFECTIVENESS.
J H Reinhart
Agr Chem 20(11) 79,103
Nov 1965 381 AG8
Pentachloronitrobenzene, Pesticide residual activity.

BIBLIOGRAPHY

20 8373-68

- 8373-68
FUNGISTASIS BY ACIDS PRODUCED BY THE DEGRADATION OF GLYCERIDES.
O M Repetto
J Sci Food Agr 12(4) I-168-7
Apr 1961 382 S012
Acids, Fungicides, Glycerides.
- 8374-68
YELLOW VIRUSES IN SUGAR BEET AND MANGOLD SEED CROPS.
C R Ribbands
J Sci Food Agr 15(10) II-188-1
Oct 1964 382 S012
Mangel-wurzel, Metasystox, Sugar beets, Viruses, Yellows (mangel-wurzel), Yellows (sugar beets).
- 8375-68
FUNGICIDE DUST FORMULATIONS FOR THE CONTROL OF APPLE SCAB, VENTURIA INAEQUALIS.
A E Rich
J Sci Food Agr 15(10) II-186-8
Oct 1964 382 S012
Apples, Captan, Dichlone, Dodine, Scab (apples), Thiram, Venturia.
- 8376-68
VERTICILLIUM WILT OF STRAWBERRIES.
S Rich F M Miller
Agr Chem 20(4) 125-126
Apr 1965 381 AG8
Fungicides, Nematodes, Strawberries, Verticillium wilt.
- 8377-68
EFFECTIVE FUNGICIDE DOSAGE IN RELATION TO INOCULUM CONCENTRATION IN SOIL.
L T Richardson D E Munnecke
J Sci Food Agr 15(10) II-183-5
Oct 1964 382 S012
Biological assay, Correlation, Fungicides, Soil fungi.
- 8378-68
DIVERSIFICATION IS NEEDED FOR MEXICAN PESTICIDES.
A Rivera
Agr Chem 19(10) 76
Oct 1964 381 AG8
Cotton, Insecticides.
- 8379-68
BACTERIAL WILT AND STEWARTS LEAF BLIGHT OF MAIZE.
A L Robert
J Sci Food Agr 12(6) I-279-5
Jun 1961 382 S012
Bacterial wilt (corn), Corn.
- 8380-68
CONTROL OF BLACKLEG, DRY ROT AND VERTICILLIUM WILT OF POTATO.
D B Robinson G W Ayers J E Campbell
J Sci Food Agr 12(1) I-17-9
Jan 1961 382 S012
Blackleg (potatoes), Dry rot (potatoes), Mercury chloride, Potatoes, Seed treatment, Semesan, Verticillium wilt.
- 8381-68
NEW BROCHURE DISCUSSES AERIAL SPRAYING OF FUNGICIDES.
Agr Chem 18(7) 53
Jul 1963 381 AG8
Aerial spraying, Dithane S-31, Fungicides, Maneb, Zineb.
- 8382-68
ALLYLIDENE DIACETATE AS A SOIL FUNGICIDE.
R H Sciaroni A H McCain
J Sci Food Agr 15(10) II-189-3
Oct 1964 382 S012
Allycidene diacetate, Greenhouse culture, Soil fungi.
- 8383-68
PREVENTING LEAF-ROLL INFECTION OF POTATOES BY CONTROLLING APHIDS.
W A Shands G W Simpson
J Sci Food Agr 15(9) II-127-9
Sep 1964 382 S012
Aphididae, Dimethyl-3-(p-acetamidophenyl) triazev, 1,1-, Leaf roll (potatoes), Milk, Potatoes, Skim milk, Whey.
- 8384-68
EFFECT OF PYRIMIDINES AND 5-PHENYLAZOPYRIMIDINES ON THE MULTIPLICATION OF TOBACCO MOSAIC VIRUS.
T Shimomura T Hirai
J Sci Food Agr 12(1) I-21-5
Jan 1961 382 S012
Mosaic (tobacco), Pyrimidines.
- 8385-68
EFFECT OF COPPER AND GLYODIN FUNGICIDES ON AMINO-ACID AND SUGAR CONTENTS AND OXYGEN USE OF COLLETOTRICHUM CAPSISI.
M R Siegel D F Crossan
J Sci Food Agr 12(4) I-168-11
Apr 1961 382 S012
Amino acids, Fungicides, Glyodin.
- 8386-68
RED CLOVER MOTTLE VIRUS.
R C Sinha
J Sci Food Agr 12(6) I-280-3
Jun 1961 382 S012
Red clover, Virus diseases (plants).
- 8387-68
CONTROL OF LIMA-BEAN DOWNY MILDEW WITH PHENACRIDAN CHLORIDE AND CLOSELY RELATED COMPOUNDS.
B C Smale J W Mitchell
J Sci Food Agr 12(4) I-172-5
Apr 1961 382 S012
Acrizane chloride, Downy mildew (lima beans), Lima beans.
- 8388-68
CYCLOHEXIMIDE DERIVATIVES FOR CONTROLLING BROWN SPOTS ON LONGLEAF PINE.
G A Snow F J Czabator S S Sorrels
Agr Chem 20(6) 75,125, 4 REFS.
Jun 1965 381 AG8
Brown spot (pinus palustris), Cycloheximide.
- 8389-68
CONTROL OF SCAB, DUE TO CLADOSPORIUM CUCUMERINUM, OF CUCUMBER AND SQUASH.
D L Strider
J Sci Food Agr 15(9) II-131-5
Sep 1964 382 S012
Cucumbers, Dithane M-45, Polpet, Maneb, Nabam, Squash.
- 8390-68
GERMINATION OF SMALL LEGUME SEEDS AFTER FUMIGATION WITH METHYL BROMIDE AND HYDROCYANIC ACID.
R G Strong D L Lindgren
J Sci Food Agr 12(6) I-279-6
Jun 1961 382 S012
Legumes, Methyl bromide.
- 8391-68
CONCEPT OF HOST-PARASITE RELATIONSHIP IN VERTICILLIUM WILT DISEASES.
P W Talboys
J Sci Food Agr 15(10) II-183-4
Oct 1964 382 S012
Bacterial diseases (plants), Parasitism, Verticillium.
- 8392-68
RESISTANCE OF THE CELERY BACTERIAL BLIGHT ORGANISM, PSEUDOMONAS APII, TO STREPTOMYCIN IN THE EVERGLADES.
P L Thayer
J Sci Food Agr 15(9) II-129-5
Sep 1964 382 S012
Celery, Everglades, Streptomycin.
- 8393-68
METHOD FOR EVALUATING FUNGICIDES.
P L Thayer C Wehlberg
J Sci Food Agr 15(11) II-238-5
Nov 1964 382 S012
Biological assay, Fungicides, Propene-1,1-diol diacetate, 2-, Pythium, Rhizoctonia, Tetrachlorotetrahydrothiophen-1,1-dioxide, 3,3,4,4-, Tetrafluoroterephthalonitrile, Urea-formaldehyde.
- 8394-68
ONION YIELD INCREASES FOLLOWING APPLICATION OF NEMATOCIDES TO CONTROL STUBBY-ROOT, ROOT-KNOT AND LESION NEMATODES.
I J Thomason J D Radewald N C Welch H E McKinney
Agr Chem 20(5) 97
May 1965 381 AG8
Nematocides, Nematodes, Onions, Soil fumigation.
- 8395-68
FUNGICIDES FOR CONTROL OF DAMPING-OFF OF CONIFERS.
O Vaartaja J Wilner W H Cram P J Salisbury A W Crookshanks
J Sci Food Agr 15(9) II-132-2
Sep 1964 382 S012
Damping-off (Conifera), Fungicides, Picea, Pinus,

- Seed treatment, Soil sanitation.
- 8396-68
WHAT IS HAPPENING TO CORN IN ILLINOIS.
C Webb
Agr Chem 19(10) 44-47
Oct 1964 381 AG8
Australia, Fertilizers, Herbicides, Insect control.
- 8397-68
EFFECTS OF TELONE ON NITROGEN TRANSFORMATIONS AND ON GROWTH OF CELERY IN AN ORGANIC SOIL.
A R Wolcott F Maciak L N Shepherd R E Lucas
J Sci Food Agr 12(1) I-20-1
Jan 1961 382 S012
Celery, Plant physiology, Telone.
- 8398-68
INEFFECTIVENESS OF CALCIUM SOURCES IN REDUCING SOUTHERN BLIGHT INCIDENCE, DUE TO SCEROTIUM ROLFSSII, ON RUTGERS TOMATOES UNDER EPIPHYTIC CONDITIONS.
R E Worley D J Morton
J Sci Food Agr 15(11) II-131-1
Sep 1964 382 S012
Calcium, Foliar application, Scerotium rolfsii, Soil amendments, Tomatoes.
- 8399-68
FACTORS IN TESTING FUNGICIDES AGAINST APPLE MILDEW. PROGRESS REPORT.
C Zaracouitis
J Sci Food Agr 15(11) II-241-3
Nov 1964 382 S012
Apples, Biological assay, Fungicides, Mildew (apples).
- 8400-68
SOIL FUNGICIDES FOR PREVENTION AND THERAPY OF PHYTOPHTHORA ROOT-ROT OF AVOCADO.
G A Zentmyer J D Gilpatrick
J Sci Food Agr 12(4) I-171-7
Apr 1961 382 S012
OOO trimethylphosphorothioate, Para-dimethylaminobenzenediazo sodium sulfonate, Root rot (avocados).
- ## Arthropods
- 8401-68
USDA SCIENTISTS FIND SUBSTANCE COTTON BOLL WEEVILS FEED ON.
Agr Chem 17(10) 72
Oct 1962 381 AG8
Anthonomus grandis, Cotton, Feeding, Plant extracts.
- 8402-68
THIOPHOSPHORIC ACID ESTERS.
J Sci Food Agr 12(3) I-131-4
Mar 1961 382 S012
Aphididae,
Et2-S-2-(trimethylammonium) ethyl thiophosphate bromide, 00-, Phosphoric acid esters.
Farbenfabriken Bayer A.-G.
- 8403-68
USDA TESTS OF GRASSHOPPER CONTROL WITH MALATHION SHOWS PROMISE.
Agr Chem 18(9) 128
Sep 1963 381 AG8
Grasshoppers, Malathion.
- 8404-68
INFLUENCE OF SOIL TYPE AND SOIL MOISTURE ON THE TOXICITY OF INSECTICIDES IN SOILS TO INSECTS.
J Sci Food Agr 15(12) II-294-8
Nov 1964 382 S012
Insect control, Insecticides, Soil moisture, Soil organic matter, Soil series.
- 8405-68
BOLL WEEVIL IS POTENTIAL THREAT TO ALL U.S. COTTON.
Agr Chem 17(4) 90-92
Apr 1962 381 AG8
Anthonomus grandis, Cotton, Insect adaptation, Spraying.
- 8406-68
THIOMETHYLALS.
J Sci Food Agr 12(3) I-132-5
Mar 1961 382 S012
Aphididae, Culicidae, Tetranychidae.
Farbenfabriken Bayer A.-G.
- 8407-68
BOLL WEEVIL SURVIVAL HIGHER THIS YEAR THAN IN 1963.
Agr Chem 19(7) 62
Jul 1964 381 AG8
Anthonomus grandis.
- 8408-68
PROPER USE OF INSECTICIDES INVOLVES EFFECTIVE AND SAFE APPLICATION.
Agr Chem 17(1) 31-33, 86-87
Jan 1962 381 AG8
Insecticide application, Insecticides.
- 8409-68
PRECISION APPLICATION CREDITED WITH SUCCESS OF FOREST PROJECT.
Agr Chem 18(9) 71, 177
Sep 1963 381 AG8
Carbaryl, DDT, Geometridae, Pesticide application, Tsuga.
- 8410-68
NEW APPROACHES TO INSECT CONTROL ARE DISCUSSED AT ACS MEETING.
Agr Chem 17(10) 42-45
Oct 1962 381 AG8
Bacteria, Insect control, Sterilization.
- 8411-68
U.S.D.A. COMBATS GYPSY MOTH SPREAD.
Agr Chem 20(6) 77
Jun 1965 381 AG8
Biological control (insects), Insecticides, Porthetria.
- 8412-68
EFFECT OF (2-CHLOROETHYL) TRIMETHYLAMMONIUM CHLORIDE ON THE RATE OF INCREASE OF THE CABBAGE APHID (BREVICORYNE BRASSICAE, L.).
H F van Emden
J Sci Food Agr 15(9) II-131-8
Sep 1964 382 S012
Brevicoryne, Brussels sprouts, Trimethylammonium chloride, (2-chloroethyl),.
- 8413-68
EFFECTIVENESS OF VARIOUS PESTICIDES AGAINST RESISTANT TWO-SPOTTED SPIDER MITES ON GREENHOUSE ROSES.
W W Allen A K Ota R D Gehring
J Sci Food Agr 15(9) II-133-1
Sep 1964 382 S012
Bidrin, Bipentachloro-2,4-cyclopentadien-5-yl, Pentac, Rosa, Tetranychus.
- 8414-68
INSECTICIDAL CONTROL OF SAN JOSE SCALE ON STONE FRUITS.
E W Anthon
J Econ Entomol 53(6) 1085-1087, 2 REFS.
Dec 1960 421 J822
Aspidiotus, Azinphosmethyl, Carbaryl, Carbophenothion, Diazinon, Dimethoate, Fruit, Parathion.
- 8415-68
INSECTICIDAL CONTROL OF SAN JOSE SCALE ON STONE FRUITS.
E W Anthon
J Sci Food Agr 12(5) I-225-7
May 1961 382 S012
Aspidiotus, Carbophenothion, Cherries, Ethion, Malathion, Parathion.
- 8416-68
INSECTICIDES CHANGE THE IMPORTANCE OF SEGMENTS OF INSECT GENERATIONS.
D Asquith
J Econ Entomol 53(4) 694-695
Aug 1960 421 J822
Apples, Insecticides.
- 8417-68
THREE PLANS FOR USING ACARICIDES TO CONTROL MITES ON APPLE.
D Asquith
J Sci Food Agr 12(3) I-127-7
Mar 1961 382 S012
Apples, Dicofol, Dimethoate, Mites, Tetradifon.

BIBLIOGRAPHY

- 20 8418-68
- 8418-68
SYSTEMIC INSECTICIDES APPLIED TO CUT SEED PIECES AND TO SOIL AT PLANTING TIME TO CONTROL POTATO INSECTS.
O G Bacon
J Econ Entomol 53(5) 835-839, 7 REFS., 5 TABS.
Oct 1960 421 J822
Demeton, Disulfoton, Phorate, Potatoes.
- 8419-68
SYSTEMIC INSECTICIDES APPLIED TO CUT SEED-PIECE AND TO SOIL AT PLANTING TIME TO CONTROL POTATO INSECTS.
O G Bacon
J Sci Food Agr 12(4) I-170-8
Apr 1961 382 S012
Disulfoton, Emposca, Epitrix, Phorate, Potatoes.
- 8420-68
EFFECT OF FORMULATION ON TOXICITY TO PLANTS AND INSECTS OF SYSTEMIC INSECTICIDAL SEED DRESSINGS.
R Bardner
J Sci Food Agr 12(4) I-169-2
Apr 1961 382 S012
Aphididae, Benzene hexachloride, Coleoptera, Phorate, Seed treatment.
- 8421-68
OBSERVATIONS ON THE DESERT GRASSHOPPER, TRIMEROTROPIS PAL-LIDIPENNIS FALLIDIPENNIS, IN ARIZONA.
O L Barnes
J Econ Entomol 53(5) 721-724
Oct 1960 421 J822
Aldrin, Alfalfa, Arizona, Cotton, Seedlings.
- 8422-68
ESTABLISHMENT OF IMPORTED PARASITES OF THE SPOTTED ALFALFA APHID IN ARIZONA.
O L Barnes
J Econ Entomol 53(6) 1094-1096, 6 REFS.
Dec 1960 421 J822
Alfalfa, Aphelinus, Parasitic insects, Praon, Therioaphis, Trioxys.
- 8423-68
FIELD STUDIES WITH BAITS AGAINST SOLENOPTIS SAEVISSIMA V. RICHTERI, THE IMPORTED FIRE ANT.
F J Bartlett C S Lofgren
J Sci Food Agr 12(6) I-282-3
Jun 1961 382 S012
Baits, Kepone, Solenopsis.
- 8424-68
CONTROL OF THE CORN EARWORM WITH AMERICAN CYANAMID 18133.
R A Blanchard L W Getzin W A Douglas
J Econ Entomol 53(4) 695-696
Aug 1960 421 J822
American Cyanamid 18133, Corn, DDT, Heliothis zea, O,O-diethyl O-2-pyrazinyl phosphorothiate.
- 8425-68
CONDITIONS OF FOREST INSECTS IN 1961.
J W Bongberg
Agr Chem 17(4) 67-68, 105-106
Apr 1962 381 AG8
Geometridae, Scolytidae.
- 8426-68
COMPARISON OF EFFECTIVENESS OF ALDRIN SEED TREATMENT FOR RICE WATER WEEVIL CONTROL ON WATER- AND DRILL-SEEDED RICE.
C C Bowling
J Sci Food Agr 12(5) I-224-9
May 1961 382 S012
Aldrin, Lissorhoptrus, Rice, Seed treatment.
- 8427-68
EFFECTIVENESS OF CHLORINATED HYDROCARBON INSECTICIDE MIXTURES FOR CONTROL OF RESISTANT AND SUSCEPTIBLE BOLL WEEVILS.
J R Brazzel D A Lindquist
J Sci Food Agr 12(1) I-20-8
Jan 1961 382 S012
Anthonomus grandis, DDT, Strobane, Toxaphene.
- 8428-68
INSECTICIDAL CONTROL OF THE HESSIAN FLY.
H E Brown
J Sci Food Agr 12(1) I-21-10
Jan 1961 382 S012
American Cyanamid 12008, Disulfoton, Mayetiola, Phorate.
- 8429-68
EUROPEAN MAIZE BORER CONTROL IN PEPPERS.
P P Burbutis R VanDenBurgh D P Bray L P Ditman
J Sci Food Agr 12(1) I-20-3
Jan 1961 382 S012
Carbaryl, DDT, Pyrausta, Redpeppers (vegetable).
- 8430-68
OVERWINTERING EGGS OF THE ALFALFA WEEVIL IN DELAWARE.
P P Burbutis D P Bray A H Mason
J Econ Entomol 60(4) 1007-1010
15 Aug 1967 421 J822
Alfalfa, Chemical control (insects), Hibernation, Hypera postica, Insect eggs.
Abstract
- 8431-68
CONTAINMENT AND CONTROL OF INSECTS ARE VITAL TO ADEQUATE CROP PRODUCTION.
E D Burgess
Agr Chem 17(4) 16-18, 106
Apr 1962 381 AG8
Crop yields, Insect control.
- 8432-68
CHEMICAL CONTROL OF THE EASTERN SPRUCE GALL APHID WITH OBSERVATIONS ON HOST PREFERENCE AND POPULATION INCREASE.
J W Butcher D L Haynes
J Sci Food Agr 12(5) I-226-7
May 1961 382 S012
Adelges, Carbaryl, Chermes, Lindane.
- 8433-68
CHEMICAL CONTROL OF THE EASTERN SPRUCE GALL APHID WITH OBSERVATIONS ON HOST PREFERENCE AND POPULATION INCREASE.
J W Butcher D L Haynes
J Econ Entomol 53(6) 979-982, 5 REFS.
Dec 1960 421 J822
Carbaryl, Dimethoate, Mevinphos, Picea, Population.
- 8434-68
CONTROL OF ONION FLY, DELIA ANTIQUA, WITH SEED DRESSINGS.
P W Carden
J Sci Food Agr 12(1) I-19-10
Jan 1961 382 S012
Aldrin, Delia, DDT, Onion fly, Onions, Seed treatment.
- 8435-68
NEW INSECTICIDES FOR LYGUS BUG CONTROL ON VEGETABLE SEED CROPS.
E C Carlson
J Econ Entomol 53(5) 767-771, TABS.
Oct 1960 421 J822
Carbophenothion, Disulfoton, DDT, Endosulfan, Ethion, Lygus, Seeds, Trichlorfon, Vegetables.
- 8436-68
EFFECT OF SOIL FUMIGATION ON GROWTH OF SUGAR CANE.
H T Chu T K Tsai
J Sci Food Agr 12(3) I-129-6
Mar 1961 382 S012
Soil fumigation, Sugarcane.
- 8437-68
HIBERNATING INSECTS DID NOT SURVIVE.
J T Conner Jr
Agr Chem 18(10) 26-27
Oct 1963 381 AG8
Heliothis zea, Hibernation, Marketing, Pesticides.
- 8438-68
CONTROL OF MAPLE LEAF CUTTER, PARACLEMENSIA ACERIFOLIELLA, BY AERIAL SPRAYING.
D P Connola
J Sci Food Agr 12(4) I-173-1
Apr 1961 382 S012
Aerial spraying, DDT, Paraclemensia.
- 8439-68
CONTROL OF MAPLE LEAF CUTTER, PARACLEMENSIA ACERIFOLIELLA, BY AERIAL SPRAYING.
D P Connola
J Econ Entomol 53(5) 957-958, 1 REF.
Oct 1960 421 J822
Acer saccharum, Aerial spraying, DDT, Paraclemensia.
- 8440-68
SYSTEMIC INSECTICIDES FOR CONTROL OF THE INTRODUCED PINE SAWFLY, DIPRION SIMILIS, WITH NOTES ON PARASITE SURVIVAL.
H C Coppel D M Norris Jr

BIBLIOGRAPHY

20 8462-68

- J Sci Food Agr 12(1) I-21-3
Jan 1961 382 S012
Demeton, Diprionidae, Phorate, R-6199.
- 8441-68
FIELD EXPERIMENTS AGAINST SEVERAL LATE-SEASON COTTON INSECTS IN 1959.
C B Cowan Jr J W Davis Jr, C R Parencia
J Econ Entomol 53(5) 747-749
Oct 1960 421 J822
Anthonomus grandis, Azinphosmethyl, Bayer 25141, Cotton, DDT, Heliothis zea, Strobane, Toxaphene.
- 8442-68
BIOLOGY OF BROWN WHEAT MITE.
H C Cox F V Lieberman
J Econ Entomol 53(5) 704-708
Oct 1960 421 J822
Eggs, Insect biology, Petrobia, Wheat.
- 8443-68
HEXACHLOROCYCLOPENTADIENE, A PROMISING NEW INSECTICIDE FOR THE CONTROL OF THE ROOT FORM OF THE GRAPE PHYLLOXERA.
J A Cox J Van Geluwe D Lawatsch
J Econ Entomol 53(5) 788-791
Oct 1960 421 J822
Grapes, Hexachlorocyclopentadiene, Phylloxera.
- 8444-68
DIMETHOATE FOR CONTROL OF CALIFORNIA RED SCALE.
A W Crossman J E Gilmore
J Sci Food Agr 15(10) II-185-5
Oct 1964 382 S012
Aonidiella, Dimethoate, Fruit, Parathion.
- 8445-68
DESIGNING ORCHARD EXPERIMENTS FOR EUROPEAN RED MITE CONTROL.
R J Daum J E Dewey
J Econ Entomol 53(5) 892-898, 35 REFS., 5 TABS.
Oct 1960 421 J822
Captan, Diazinon, DDT, Glyodin, Panonychus, Parathion, Trees.
- 8446-68
DESIGNING ORCHARD EXPERIMENTS FOR EUROPEAN RED MITE CONTROL.
R J Daum J E Dewey
J Sci Food Agr 12(4) I-171-2
Apr 1961 382 S012
Acaricides, Panonychus ulmi.
- 8447-68
THE SYSTEMIC INSECTICIDAL PROPERTIES OF CERTAIN CARBAMATES.
W A L David R L Metcalf M Winton
J Econ Entomol 53(6) 1021-1025, 9 REFS., 7 TABS.
Dec 1960 421 J822
Carbaryl, Compound 5727, Estigmene, Isolan, Lima beans.
- 8448-68
DROSOPHILA CONTROL IN TOMATO FIELDS.
A C Davis
J Sci Food Agr 12(5) I-226-2
May 1961 382 S012
Diazinon, Diptera, Drosophila, Malathion, Mevinphos, Naled, Tomatoes.
- 8449-68
DROSOPHILA CONTROL IN TOMATO FIELDS.
A C Davis
J Econ Entomol 53(6) 1107-1110, 9 REFS.
Dec 1960 421 J822
Diazinon, Drosophila melanogaster, Malathion, Mevinphos, Naled, Ronnel, Tomatoes.
- 8450-68
INTRODUCTION AND ESTABLISHMENT OF ANAGYRUS ANTONINAE ON RHODE-GRASS SCALE IN MEXICO.
H A Dean
J Econ Entomol 53(4) 694
Aug 1960 421 J822
Anagyrus, Antonina graminis, Chloris gayana, Grasses, Livestock, Mexico.
- 8451-68
CONTROL OF OLIGONYCHUS PRATENIS ATTACKING WINTER WHEAT IN WESTERN KANSAS.
L J DePew
J Sci Food Agr 12(5) I-224-6
May 1961 382 S012
Carbophenothion, Dicofol, Insects, Parathion, Wheat.
- 8452-68
CONTROL OF OLIGONYCHUS PRATENIS ATTACKING WINTER WHEAT IN WESTERN KANSAS.
L J DePew
J Econ Entomol 53(6) 1061-1063, 8 REFS.
Dec 1960 421 J822
Azinphosmethyl, Carbophenothion, Dicofol, Dioxathion, Kansas, Oligonychus, Tetradifon, Wheat.
- 8453-68
PROPER APPLICATION CONTROLS RESISTANT GREEN PEACH APHIDS.
J E Dibble
Agr Chem 17(4) 63-64
Apr 1962 381 AG8
Insecticide application, Myzus persicae, Spraying.
- 8454-68
HOST RANGE AND DAMAGE BY THE GRASS MEALYBUG, HETEROCOCCUS GRAMINICOLA.
S M Dietz R F Harwood
J Econ Entomol 53(5) 737-740
Oct 1960 421 J822
Carbophenothion, Grain, Grass mealybug, Grasses, Heterococcus, Malathion, Phorate.
- 8455-68
FIELD METHODS TO DETERMINE THE INFESTATION OF THE SORGHUM WEBWORM AND THE DAMAGE BY THE SORGHUM MIDGE IN GRAIN SORGHUM.
G W Doering N M Randolph
J Econ Entomol 53(5) 749-750
Oct 1960 421 J822
Celama, Contarinia, Plant injuries, Sorghum.
- 8456-68
EARLY-SEASON CONTROL OF GREEN PEACH APHIDS ON TOBACCO.
C B Dominick
J Sci Food Agr 12(5) I-226-9
May 1961 382 S012
Azinphosmethyl, Dusting, Endosulfan, Endrin, Myzus, Tobacco.
- 8457-68
EXPERIMENTS FOR EARLY-SEASON CONTROL OF THE GREEN PEACH APHID ON TOBACCO.
C B Dominick
J Econ Entomol 53(6) 1099-1101, 4 REFS.
Dec 1960 421 J822
Azinphosmethyl, Demeton, Endosulfan, Flue-cured tobacco, Myzus, Octachloro-3a,4,7,7a-tetrahydro-4,7-methanophthalan, 1,3,4,5, Phorate, SD-4402, Trichlorfon, 6,7,8,8-.
- 8458-68
CONTROL OF THE CORN ROOT WEBWORM.
C B Dominick
J Econ Entomol 53(4) 670-672
Aug 1960 421 J822
Aldrin, Chlordane, Corn, Crambus, Heptachlor.
- 8459-68
THE ALFALFA WEEVIL IN THE EASTERN UNITED STATES.
K Dorward
Agr Chem 18(11) 65-66
Nov 1963 381 AG8
Alfalfa, Hypera.
- 8460-68
SEVERAL INSECTS CONTINUE TO SPREAD.
K Dorward
Agr Chem 20(3) 64,109
Mar 1965 381 AG8
Hypera, Insect control, Musca, Ostrinia, Plant pest control.
- 8461-68
GRASSHOPPER POPULATIONS ARE BELOW EXPECTATIONS.
K Dorward
Agr Chem 17(9) 65-66
Sep 1962 381 AG8
Diabrotica, Grasshoppers, Mites, Ostrinia, Popilla.
- 8462-68
FALL INSECT PROBLEMS ARE LOCALIZED.
K Dorward
Agr Chem 19(12) 62
Dec 1964 381 AG8
Acyrtosiphon, Alfalfa, Anthonomus grandis, Heliothis zea, Pectinophora gossypiella, Spodoptera, Therioaphis, Trichoplusia, Zeadiatraea.

BIBLIOGRAPHY

20 8463-68

- 8463-68
EUROPEAN CEREAL PEST IS FOUND IN MICHIGAN.
K Dorward
Agr Chem 17(10) 59, 79-80
Oct 1962 381 AG8
Anthonomus grandis, Chrysomelidae, Epilachna, Heliothis zea, Hypera, Rhopalosiphum.
- 8464-68
PEST ROUNDUP. INCREASING PEA APHID ACTIVITY REPORTED IN SEVERAL AREAS.
K Dorward
Agr Chem 20(1) 53,90
Jan 1965 381 AG8
Acyrthosiphon, Pest control.
- 8465-68
OVERALL SPRING INSECT ACTIVITY IS GENERALLY LIGHT.
K Dorward
Agr Chem 17(6) 72, 101-103
Jun 1962 381 AG8
Aphididae, Chorizagrotis, Conotrachelus, Hypera, Petrobia, Schizapis.
- 8466-68
SEVERAL TRUCK CROP INSECTS ACTIVE IN MAY.
K Dorward
Agr Chem 18(7) 57,79-80
Jul 1963 381 AG8
Anthonomus grandis, Aphididae, Cotton, Hypera, Potatoes, Thrips.
- 8467-68
MEDITERRANEAN FRUIT FLY AGAIN FOUND IN FLORIDA.
K Dorward
Agr Chem 17(8) 41-42, 74
Aug 1962 381 AG8
Anthonomus grandis, Florida, Reports.
- 8468-68
INSECT ACTIVITY INCREASES.
K Dorward
Agr Chem 20(6) 73,124
Jun 1965 381 AG8
Anthonomus grandis, Aphididae, Chochliomyia, Mites, Musca.
- 8469-68
COUNTS BELOW 1960 IN EUROPEAN CORN BORER SURVEY.
K Dorward
Agr Chem 17(2) 65, 110-111
Feb 1962 381 AG8
Anthonomus grandis, Ostrinia, Trogoderma.
- 8470-68
INSECTS ACTIVE ON LATE SEASON COTTON IN SEVERAL AREAS.
K Dorward
Agr Chem 18(10) 78,124
Oct 1963 381 AG8
Cotton, Diabrotica, Galerucella, Heliothis zea, Musca autumnalis, Pectinophora gossypiella, Tetranychidae.
- 8471-68
PEA APHID IS WIDESPREAD AND DAMAGING IN SOME AREAS.
K Dorward
Agr Chem 17(7) 55, 74-75
Jul 1962 381 AG8
Acyrthosiphum, Anthonomus grandis, Chorizagrotis, Conotrachelus, Hypera, Leptinotarsa, Mites.
- 8472-68
FULL COUNTS INDICATE HOLL WEEVILS ARE UP, CORN BORERS DOWN.
K Dorward
Agr Chem 20(2) 63,96
Feb 1965 381 AG8
Anthonomus grandis, Corn borers, Plant pest control.
- 8473-68
HIERNATING HOLL COUNTS ARE BELOW THOSE OF LAST FALL.
K Dorward
Agr Chem 17(1) 64-65, 88
Jan 1962 381 AG8
Anthonomus grandis, Aphididae, Cochliomyia, Trichoplusia.
- 8474-68
MEDITERRANEAN FRUIT FLY FOUND AGAIN IN FLORIDA.
K Dorward
Agr Chem 18(9) 148-152,177-179
Sep 1963 381 AG8
Anthonomus grandis, Ceratitis, Culicidae, Epilachna, Grasshoppers, Heliothis zea, Mites.
- 8475-68
GRASSHOPPER POTENTIAL FOR 1962 IS ABOVE THAT FOR 1961.
K Dorward
Agr Chem 17(3) 80, 107-109
Mar 1962 381 AG8
Anthonomus grandis, Grasshoppers.
- 8476-68
BOLL WEEVIL SURVIVAL COUNTS HIGH.
K Dorward
Agr Chem 20(5) 77,98-99
May 1965 381 AG8
Anthonomus grandis, Plant pest control.
- 8477-68
CONTROL OF LETTUCE ROOT APHID, PEMPHIGUS HURSARIUS, L., WITH ENDRIN AND OTHER INSECTICIDES.
J A Dunn
J Sci Food Agr 12(1) I-19-11
Jan 1961 382 S012
Endrin, Pemphigus.
- 8478-68
CONTROL OF SCALE, PULVINARIA PSIDII, ON IXORA.
W G Eden
J Sci Food Agr 15(10) II-185-10
Oct 1964 382 S012
American Cyanamid 43064, American Cyanamid 47031, Hidrin, Demeton, Dimethoate, Dithiolan, 2-(diethoxyphosphinothioylimino)-1,3-, Dithiolan, 2-(diethoxyphosphinylimino)-1,3-, Ixora, Parathion, Pulvinaria.
- 8479-68
EVALUATION OF CHEMICALS FOR CONTROL OF A SPIDER MITE COMPLEX ON CHERRY AND PEACH.
F E Ellertson
J Sci Food Agr 12(1) I-18-4
Jan 1961 382 S012
Carbophenothion, Cherries, Dicofol, Peaches, Tetradifon, Tetranychidae.
- 8480-68
LOSS IN CORN YIELD ASSOCIATED WITH THE ABUNDANCE OF THE CORN LEAF APHID, RHOPALOSIPHUM MAIDIS, IN INDIANA.
R T Everly
J Econ Entomol 53(5) 924-932, 15 REFS., 4 TAHS., PL.
Oct 1960 421 J822
Corn, Crop losses, Indiana, Nubbins, Rhopalosiphum.
- 8481-68
SUSCEPTIBILITY OF THE RICE PENTATOMID BUG, SCOTINOPHARA LURIDA, TO INSECTICIDES AND THE INSECTICIDAL CONTROL OF THIS PEST IN CEYLON.
H E Fernando
J Sci Food Agr 12(1) I-17-7
Jan 1961 382 S012
Benzene hexachloride, Ceylon, Dieldrin, Endrin, Parathion, Pentatomid bug, Rice, Scotinophara.
- 8482-68
THE STATUS OF SAN JOSE SCALE PARASITIZATION (INCLUDING BIOLOGICAL NOTES).
S E Flanders
J Econ Entomol 53(5) 757-759, BIHL. 758-759
Oct 1960 421 J822
Apples, Ectoparasites, Endoparasites, Parasitic insects, Peaches, Pears, Plums.
- 8483-68
THE INFLUENCE OF INSECTICIDE-FUNGICIDE SPRAY PROGRAMS ON THE GROWTH OF APPLE NURSERY TREES.
F L Gambrell R M Gilmer
J Econ Entomol 53(5) 717-719, TAHS.
Oct 1960 421 J822
Apples, Fungicides, Growth factors, Insecticides, Nursery stock (forestry).
- 8484-68
FRUIT PEST CONTROL INTEREST CONTINUES.
L G Gemmell
Agr Chem 18(10) 28
Oct 1963 381 AG8
Fruits, Herbicides, Insect control, Insecticides.
- 8485-68
BEAN LEAF SKELETONISER, AUTOPLUSIA EGENA, AND ITS CONTROL ON HUSH SNAP BEANS IN THE EVERGLADES.
W G Genung
J Sci Food Agr 12(1) I-19-5

BIBLIOGRAPHY

20 8507-68

- Jan 1961 382 S012
Autoplusia, Bean leaf skeletoniser, Beans, Kepone, Mevinphos, Perthane, SD 4402.
- 8486-68
SELECTIVE INSECTICIDES FOR VEGETABLE LEAF-MINER CONTROL AND PARASITE SURVIVAL.
L W Getzin
J Econ Entomol 53(5) 872-875, 10 REFS.
Oct 1960 421 J822
Cantaloupes, Diazinon, Dimethoate, Dioxathion, EPN, Ethion, Naled, Parasitic insects, Parathion, Trichlorfon.
- 8487-68
SELECTIVE INSECTICIDES FOR VEGETABLE LEAF-MINER CONTROL AND PARASITE SURVIVAL.
L W Getzin
J Sci Food Agr 12(4) I-171-6
Apr 1961 382 S012
Cantaloupes, Diazinon, Dimethoate, Dioxathion, Ethion, Leaf miners, Redpeppers (vegetable).
- 8488-68
CONTROL OF MINT INSECTS.
G E Gould
J Sci Food Agr 12(1) I-20-2
Jan 1961 382 S012
Dieldrin, DDT, Mentha, Rhabdoplusia, Strobane, Toxaphene.
- 8489-68
DYNAMICS OF CAGED PINK BOLLWORM POPULATIONS IN TEXAS AND OKLAHOMA.
H M Graham L C Fife D E Bryan
Entomol Soc Amer Ann 58(5) 658-663, 7 REFS., 3 TABS., 5 FIGS.
Sep 1965 420 EN82
Cotton, Oklahoma, Pectinophora gossypiella, Population, Texas.
- 8490-68
CONTROL OF TADPOLE SHRIMP, TRIOPS LONGICAUDATUS IN CALIFORNIA RICE FIELDS.
A A Grigarick W H Lange D C Pinfrock
J Sci Food Agr 12(6) I-281-8
Jun 1961 382 S012
Carbaryl, Copper sulfate, Kepone, Rice, Tadpole shrimp.
- 8491-68
CONTROL OF LESSER CORNSTALK BORER ATTACKING GROUNDNUTS.
J A Harding
J Sci Food Agr 12(1) I-21-7
Jan 1961 382 S012
Cornstalk borer, DDT, Endrin, Flasmopalpus, Parathion, Peanuts, Sd 4402.
- 8492-68
INSECTICIDE TESTS FOR TOBACCO FLEA BEETLE AND GREEN PEACH APHID CONTROL IN MARYLAND TOBACCO.
F P Harrison C E Osgood
J Econ Entomol 53(5) 963, 1 REF.
Oct 1960 421 J822
Epirix, Maryland, Myzus, Tobacco.
- 8493-68
INSECTICIDE TESTS FOR TOBACCO FLEA BEETLE AND GREEN PEACH APHID CONTROL IN MARYLAND TOBACCO.
F P Harrison C E Osgood
J Sci Food Agr 12(4) I-172-3
Apr 1961 382 S012
Dimethoate, Epirix, Myzus, Phorate, Phosphamidon, Tobacco.
- 8494-68
CONTROL OF SPIDER MITES AND BLACK SPOT ON ROSES WITH ACARICIDE-FUNGICIDE SPRAYS AND DUSTS.
T J Henneberry E A Taylor F F Smith A L Boswell
J Sci Food Agr 12(6) I-282-4
Jun 1961 382 S012
Black spot (rosa), Captan, Demeton, Malathion, Maneb, Zineb.
- 8495-68
COMPARATIVE ACARICIDAL ACTIVITY OF TEDION, OVEK AND CHLORBENSIDE AGAINST TWO STRAINS OF TWO-SPOTTED SPIDER MITE.
T J Henneberry E A Taylor F F Smith A L Boswell
J Sci Food Agr 12(4) I-173-3
Apr 1961 382 S012
Chlorbenside, Ovek, Tetradifon, Tetranychus.
- 8496-68
GRANULAR VERSUS SPRAY FORMULATIONS OF ENDRIN FOR CONTROL OF SUGAR-CANE BORER IN LOUISIANA.
S D Hensley W J McCormick
J Sci Food Agr 15(9) II-132-8
- Sep 1964 382 S012
Diatraea, Endrin, Insecticide application, Sugarcane.
- 8497-68
COMBINATIONS OF ACARICIDES WITH COMPLEMENTARY ACTIVITY.
D C Herne
J Econ Entomol 53(5) 967-968, 2 REFS.
Oct 1960 421 J822
Azinphosmethyl, Mevinphos, Scarlet runner beans, Tetradifon.
- 8498-68
COMBINATIONS OF ACARICIDES WITH COMPLEMENTARY ACTIVITY.
D C Herne
J Sci Food Agr 12(4) I-173-7
Apr 1961 382 S012
Azinphosmethyl, Beans, Mevinphos, Polybutenes, Tetradifon.
- 8499-68
EFFECTS OF AN AERIAL DDT SPRAY ON AQUATIC INSECTS IN CONNECTICUT.
S W Hitchcock
J Sci Food Agr 12(1) I-22-1
Jan 1961 382 S012
Aerial spraying, Aquatic insects, Connecticut, DDT.
- 8500-68
EFFECTIVENESS OF INSECTICIDES AGAINST THE EUROPEAN MAIZE BORER AND GREEN PEACH APHID ON PEPPERS.
R N Hofmaster D F Bray L P Ditman
J Sci Food Agr 12(1) I-20-5
Jan 1961 382 S012
Azinphosmethyl, Carbaryl, DDT, Endrin, Myzus, Phosphamidon, Pyrausta.
- 8501-68
PRELIMINARY ASSESSMENT OF TOXAPHENE, STROBANE AND THIODAN FOR CONTROL OF CLOVER CASE-BEARERS (COLEOPHORA SPP.) (COLEOPHORIDAE, LEPIDOPTERA).
J M Hoyt
J Sci Food Agr 12(6) I-279-7
Jun 1961 382 S012
Clover, Coleophoridae, Endosulfan, Strobane, Toxaphene.
- 8502-68
EFFECT OF UREA ON CONTROL OF SOME APPLE INSECTS WITH CERTAIN INSECTICIDES.
S C Hoyt
J Sci Food Agr 12(1) I-18-3
Jan 1961 382 S012
Apples, Carpocapsa, Dicofol, DDT, Malathion, Urea.
- 8503-68
CONTROL OF YELLOW TEA MITE, HEMITARSONEMUS LATUS (BANKS) WITH DDT ON COTTON IN UGANDA.
W R Ingram
J Sci Food Agr 12(4) I-172-1
Apr 1961 382 S012
Cotton, DDT, Mites.
- 8504-68
CONTROL OF THRIPS AND APHIDS ON CARNATIONS WITH SYSTEMIC INSECTICIDES.
R N Jefferson F S Morishita S T Besemer W A Humphrey
J Sci Food Agr 15(10) II-185-7
Oct 1964 382 S012
Dianthus, Dimethoate, Disulfoton, Frankliniella, Myzus.
- 8505-68
FACTORS INFLUENCING CITRUS RED MITE POPULATIONS ON NAVAL ORANGES AND SCHEDULING OF ACARICIDE APPLICATIONS IN SOUTHERN CALIFORNIA.
L R Jeppson J O Complin M J Jesser
J Sci Food Agr 12(6) I-280-4
Jun 1961 382 S012
Aramite, Dicofol, Oranges, Panonychus.
- 8506-68
CONTROL OF FRIT FLY, OSCINELLA FRIT (L.), IN SWEET MAIZE (ZEA MAYS) BY THIMET (OO-DIETHYL S-ETHYLTHIOMETHYL PHOSPHORODITHIOATE).
W F Jepson P Mathias
J Sci Food Agr 12(4) I-170-5
Apr 1961 382 S012
Oscinella, Phorate, Sweetcorn.
- 8507-68
BEE REPELLENT COMBINED WITH DIELDRIN OR SEVIN IN BEE POISONING TESTS IN ALFALFA.
C Johansen
J Econ Entomol 53(6) 1010-1012, 7 REFS.

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BIBLIOGRAPHY

- 20 8508-68
Dec 1960 421 J822
Alfalfa, *Apis mellifera*, *Bombus*, Carbaryl, Dieldrin,
Hydroxyethyl-n-octyl sulfide, 2-, R-874.
- 8508-68
BEE POISONING VERSUS CLOVER APHID CONTROL IN RED CLOVER
GROWN FOR SEED.
C Johansen
J Sci Food Agr 12(5) I-223-6
May 1961 382 S012
Aphididae, Azinphosmethyl, Bees, Carbaryl, Carbophenothion,
Phorate, Phosphamidon, Red clover.
- 8509-68
BEE POISONING VERSUS CLOVER APHID CONTROL IN RED CLOVER
GROWN FOR SEED.
C Johansen
J Econ Entomol 53(6) 1012-1015, 5 REFS.
Dec 1960 421 J822
Bees, Carbophenothion, Methyl trithion, Phorate, Phosphamidon,
Red clover.
- 8510-68
SEVERAL SYSTEMIC INSECTICIDES FOR CONTROL OF AZALEA LACE
BUGS.
W T Johnson
J Sci Food Agr 12(4) I-173-2
Apr 1961 382 S012
Disulfoton, Phorate, Stephanitis.
- 8511-68
STUDIES WITH SYSTEMIC INSECTICIDES FOR THE CONTROL OF AZALEA
LACE BUGS.
W T Johnson
J Econ Entomol 53(5) 839-841, 3 REFS.
Oct 1960 421 J822
Azalea, Dimethoate, Disulfoton, Phorate, Stephanitis.
- 8512-68
LABORATORY TESTS OF INSECTICIDES AGAINST EGGS AND LARVAE OF
THE CABBAGE LOOPER.
W P Kerr J R Brazzel
J Econ Entomol 53(6) 991-992, 6 REFS.
Dec 1960 421 J822
Carbaryl, Cotton, DDT, Eggs, Endosulfan, Endrin, Larvae,
Mevinphos, Toxaphene, Trichoplusia.
- 8513-68
THE LIFE HISTORY AND SEASONAL OCCURRENCE OF THE PEACH TWIG
BORER IN TEXAS.
D R King T E Denman
J Econ Entomol 53(4) 680-681
Aug 1960 421 J822
Anarsia, Peaches, Population statistics, Texas.
- 8514-68
EFFECT OF SEED TREATMENTS WITH PHORATE AND OTHER SYSTEMIC
INSECTICIDES ON GERMINATION OF WHEAT.
R E Kirk M C Wilson
J Sci Food Agr 12(1) I-17-1
Jan 1961 382 S012
Bidrin, Disulfoton, Phorate, Seed germination, Seed treatment,
Wheat.
- 8515-68
THE EFFECT OF SOIL TYPE AND MOISTURE ON GERMINATION AND
GROWTH FROM WHEAT SEED TREATED WITH PHORATE.
R E Kirk M C Wilson
J Econ Entomol 53(5) 771-774, BIBL. 773-774, TABS.
Oct 1960 421 J822
Growth factors, Humidity, Phorate, Seed germination, Soils,
Wheat.
- 8516-68
THE EVALUATION OF RESISTANCE OF SEEDLING ALFALFA VARIETIES
AND STRAINS TO THE SPOTTED ALFALFA APHID, *Therioaphis macu-*
lata.
W J Klement N M Randolph
J Econ Entomol 53(4) 667-669, TABS.
Aug 1960 421 J822
Alfalfa, Seedlings, *Therioaphis*.
- 8517-68
NATURAL INSECT CONTROL ITS STATUS IN CROP PROTECTION TO-
DAY.
E F Knipling D A Spencer
Agr Chem 18(7) 37-38,75
Jul 1963 381 AG8
Crop yields, *Icerya*, Insect diseases,
Natural control (insects), *Ostrinia*, Parasites.
- 8518-68
SOIL INSECTS IN HOKKAIDO, JAPAN, WITH SPECIAL REFERENCE TO
THE EFFECTS OF SOME CHLORINATED HYDROCARBONS.
S Kuwayama K Sakurai K Endo
J Sci Food Agr 12(5) I-227-7
May 1961 382 S012
Aldrin, Elateridae, Gryllotalpidae, Heptachlor, *Macroductylus*,
Noctuidae.
- 8519-68
SOIL INSECTS IN HOKKAIDO, JAPAN, WITH SPECIAL REFERENCE TO
THE EFFECTS OF SOME CHLORINATED HYDROCARBONS.
S Kuwayama K Sakurai K Endo
J Econ Entomol 53(6) 1015-1018, 9 REFS.
Dec 1960 421 J822
Aldrin, Heptachlor, *Hylemya*, Kidney beans, Onions, Potatoes,
Soils, Turnips.
- 8520-68
TESTS WITH YOUNG POULTRY FOR THE CONTROL OF HOUSE FLY LARVAE
UNDER CAGED LAYING HENS.
G C LaBrecque C N Smith
J Econ Entomol 53(4) 696
Aug 1960 421 J822
Chickens, Larvae, *Musca domestica*, Organic compounds,
Phosphorus, Poultry.
- 8521-68
CONTROL OF SUGAR-BEET MOTH, *Phthorimaea ocellatella*, BOYD.
F J Loecher
J Sci Food Agr 12(5) I-225-2
May 1961 382 S012
Benzene hexachloride, Dieldrin, DDT, Moths, Sugar beets.
- 8522-68
EFFECT OF VARIATIONS IN FORMULATION OR APPLICATION PROCEDURE
ON CONTROL OF IMPORTED FIRE ANT WITH GRANULAR HEPTACHLOR.
C S Lofgren V E Adler W F Barthel
J Sci Food Agr 12(6) I-282-2
Jun 1961 382 S012
Heptachlor, *Solenopsis*.
- 8523-68
CONTROL OF SUGAR CANE BORER WITH INSECTICIDES.
W H Long E J Concienne L D Newsom S D Hensley W J McCormick
J Sci Food Agr 12(3) I-129-5
Mar 1961 382 S012
Diatraea, *Diatraea saccharalis*, DDT, Endrin, Sugarcane.
- 8524-68
EFFECTS OF LOW DOSES OF ETHYLENE DIBROMIDE ON SOME STAGES OF
CONFUSED FLOUR BEETLE, *Tribolium confusum*.
S R Loschiavo
J Sci Food Agr 12(3) I-129-8
Mar 1961 382 S012
Ethylene dibromide, *Tribolium*.
- 8525-68
A FIVE-YEAR REPORT OF OBSERVATIONS IN JAPANESE BEETLE
CONTROL AREA AT SHELDON, ILL.
W H Lukmann G C Decker
J Sci Food Agr 12(3) I-129-7
Mar 1961 382 S012
Dieldrin, Insecticide residues, *Popillia*, *Popillia japonica*.
- 8526-68
DDT RESISTANT CODLING MOTHS ON PEARS IN CALIFORNIA.
H F Madsen L A Falcon
J Econ Entomol 53(6) 1083-1085, 4 REFS.
Dec 1960 421 J822
Azinphosmethyl, Carbaryl, Carbophenothion, Diazinon, DDT,
Insecticide resistant insects, Kepone, Parathion, Pears.
- 8527-68
CONTROL OF GRAPE MEALYBUG ON PEAR WITH OIL-INSECTICIDE
COMBINATIONS.
H F Madsen T T Y Wong
J Sci Food Agr 15(9) II-130-5
Sep 1964 382 S012
Diazinon, Insect collecting equipment, Oils, Pears,
Pseudococcidae.
- 8528-68
EFFECT OF VARIOUS ADJUVANTS ON SYSTEMIC INSECTICIDAL
ACTIVITY OF PHORATE AND ZECTRAN.
J W Matteson H M Taft
J Sci Food Agr 15(10) II-184-3
Oct 1964 382 S012
Anthonomus grandis, Cotton, Phorate,
Quaternary ammonium compounds, Zectran.

BIBLIOGRAPHY

20 8550-68

- 8529-68
EFFECT OF LYGUS BUG CONTROL ON YIELD OF LIMA BEANS.
F L McEwen G E R Hervey
J Sci Food Agr 12(1) I-19-6
Jan 1961 382 S012
DDT , Lima beans, Lygus.
- 8530-68
OBSERVATIONS OF FEEDING HABITS OF THE SPOTTED ALFALFA APHID
ON RESISTANT AND SUSCEPTIBLE ALFALFA PLANTS.
J A McMurtry E H Stanford
J Econ Entomol 53(5) 714-717, BIBL. 716-717
Oct 1960 421 J822
Alfalfa, Feeding, Honeydew, Insect behavior,
Insect resistant plants, Therioaphis.
- 8531-68
CONTROL OF BITING ANTS, MACROMISCHOIDES ACULEATUS, ON
ROBUSTA COFFEE.
D N McNutt
J Sci Food Agr 15(10) II-185-4
Oct 1964 382 S012
Coffee, Dieldrin, Macromischoides, Malathion.
- 8532-68
THE PERSISTENCE OF TRITHION, AN ORGANOPHOSPHORUS INSECTI-
CIDE, IN SCIL.
J J Menn G G Patchett G H Batchelder
J Econ Entomol 53(6) 1080-1082, 8 REFS.
Dec 1960 421 J822
Carbofenothon, Sodium N-methyl dithiocarbamate,
Soil fumigation, Soil sterilization, Vapam.
- 8533-68
AIRCRAFT ARMAMENT FOR INSECT-CONTROL.
K Messenger
Agr Chem 20(1) 47-52
Jan 1965 381 AG8
Aircraft disinfection, Chemicals, Insect control.
- 8534-68
FACTORS INFLUENCING THE SYSTEMIC INSECTICIDAL ACTION OF SUB-
STITUTED DIMETHYL PHENYL PHOSPHATES.
R L Metcalf H T Reynolds T R Fukuto C Collins
J Sci Food Agr 15(12) II-294-7
Dec 1964 382 S012
Dimethyl phenyl phosphates, Insecticides, Plant metabolism.
- 8535-68
PEAR PSYLLA CONTROL AMONG HORTICULTURAL SOCIETY S TOPICS.
L A Milliman
Agr Chem 17(1) 41-43, 87-88
Jan 1962 381 AG8
Azinphosmethyl, Dieldrin, Pears, Psylla.
- 8536-68
PEAR PSYLLA POSES MAJOR CONTROL PROBLEM.
L H Milliman
Agr Chem 19(9) 109-112, 167
Sep 1964 381 AG8
Perthane, Psylla pyricola.
- 8537-68
NEW COMPOUNDS HOLD PROMISE FOR CONTROL OF ORCHARD PESTS.
L H Milliman
Agr Chem 17(9) 49, 111-112
Sep 1962 381 AG8
Azinphosmethyl, Carbaryl, Fruits, Insects, Tetradifon.
- 8538-68
COMPARISON OF SEVIN WITH DDT AND ROTENONE ON TOMATOES
UNDER TROPICAL CONDITIONS.
G W Miskimen
J Sci Food Agr 12(5) I-226-3
May 1961 382 S012
Carbaryl, DDT , Rotenone, Tomatoes, Tropical agriculture.
- 8539-68
CARBONYL SULPHIDE, A VOLATILE FUNGICIDANT FROM NABAM IN
SOIL.
W Moje D E Munnecke L T Richardson
J Sci Food Agr 15(12) II-294-9
Dec 1964 382 S012
Carbonyl sulfide, Fungicidal aerosols, Nabam, Pythium.
- 8540-68
LOSS OF CHLORINATED HYDROCARBON INSECTICIDES FROM SOIL
SURFACE IN THE FIELD.
M S Mulla
J Sci Food Agr 12(1) I-16-5
Jan 1961 382 S012
Aldrin, Biological assay, Chloropidae, Culicidae, DDT ,
Endrin, SD 4402.
- 8541-68
USE OF SYSTEMIC INSECTICIDES AS SEED TREATMENTS TO CONTROL
COWPEA APHIDS ON BLACK LOCUST SEEDLINGS.
W W Neel E W Belcher
J Econ Entomol 60(4) 964-968 REF
15 Aug 1967 421 J822
Apis craccivora, Azodrin, Chemical control (insects),
Robinia pseudoacacia, Seedlings, Systemic insecticides,
Zinophos.
Abstract
- 8542-68
FIELD TESTS WITH A MALATHION BAIT SPRAY FOR CONTROL OF APPLE
MAGGOT, RHAGOLETIS POMONELLA.
W T A Neilson C W Maxwell
J Sci Food Agr 15(10) II-187-2
Oct 1964 382 S012
Apples, Baits, Malathion, Rhagoletis, Spraying.
- 8543-68
INCIDENCE OF ROOT-FEEDING WEEVILS, ROOT ROT, INTERNAL BREAK-
DOWN, AND VIRUS AND THEIR EFFECT ON LONGEVITY OF RED CLOVER.
R C Newton J H Graham
J Econ Entomol 53(5) 865-867, 10 REFS.
Oct 1960 421 J822
Calomycterus, Hylastinus, Red clover, Root rot (red clover),
Sitona.
- 8544-68
SYSTEMIC INSECTICIDAL ACTION IN CORTICAL TISSUES OF ELM
TWIGGS.
D M Norris Jr
J Sci Food Agr 12(5) I-226-6
May 1961 382 S012
dimethylcarbamoyl-1-methylvinyl phosphate, 2-, Phosphamidon,
Scolytus, Scolytus multistriatus, Ulmus.
- 8545-68
SYSTEMIC INSECTICIDAL ACTION IN THE CORTICAL TISSUES OF ELM
TWIGGS.
D M Norris Jr
J Econ Entomol 53(6) 1034-1036, 3 REFS.
Dec 1960 421 J822
Bidrin, Scolytus, Tissues, Ulmus.
- 8546-68
EFFECTS OF VARIOUS WATER VOLUMES ON THE EFFECTIVENESS OF
METHYL PARATHION-DDT, IN CONTROLLING THE COTTON BOLL
WEEVIL, ANTHONOMUS GRANDIS.
A D Oliver L W Sloane
J Sci Food Agr 15(9) II-132-6
Sep 1964 382 S012
Anthonomus grandis, Cotton, DDT , Methyl parathion, Spraying.
- 8547-68
QUANTITATIVE MEASUREMENTS OF DAMAGE BY THE GREENBUG, TOXOP-
TERA GRAMINUM, TO FOUR WHEAT VARIETIES.
E E Ortman R H Painter
J Econ Entomol 53(5) 798-802
Oct 1960 421 J822
Measurement, Plant injuries, Toxoptera, Wheat.
- 8548-68
SELECTION AND EVALUATION OF PEA APHID-RESISTANT ALFALFA
PLANTS.
E E Ortman E L Sorensen R H Painter T L Harvey H L Hackerott
J Econ Entomol 53(5) 881-887, 17 REFS., PL.
Oct 1960 421 J822
Insect resistant plants, Macrosiphum, Peas.
- 8549-68
CONTROL OF SEVERAL EARLY-SEASON COTTON PESTS WITH
INSECTICIDES.
C R Parencia Jr C B Cowan Jr J W Davis
J Sci Food Agr 12(5) I-227-6
May 1961 382 S012
Anthonomus grandis, Cotton, Insecticides, Psallus.
- 8550-68
CONTROL OF SEVERAL EARLY-SEASON COTTON PESTS WITH INSECTI-
CIDES.
C R Parencia C B Cowan Jr J W Davis
J Econ Entomol 53(6) 1051-1054, 4 REFS., 3 TABS.
Dec 1960 421 J822
Anthonomus grandis, Azinphosmethyl, Bayer 25141, Bidrin,
Cotton, Dieldrin, Dimethoate, DDT , Franklينيella,

BIBLIOGRAPHY

20 8551-68

- Methyl parathion, Strobane, Toxaphene.
- 8551-68
RESISTANCE OF HIGH-AMYLOSE MAIZE TO THE ANGOUMAIS GRAIN MOTH.
D C Peters M S Zuber V Ferguson
J Sci Food Agr 12(1) I-17-5
Jan 1961 382 S012
Corn, Plant pest resistance, Sitotroga.
- 8552-68
FIELD EXPERIMENTS WITH SEVERAL INSECTICIDAL SPRAYS AGAINST THE BOLL WEEVIL AND BOLLWORM.
T R Pfrimmer E P Lloyd M E Merkl R E Furr
J Econ Entomol 53(5) 711-714, TABS.
Oct 1960 421 J822
Anthonomus grandis, Azinphosmethyl, Carbaryl, Cotton, Dicapthon, DDT, Fenthion, Heliothis zea, Malathion, Methyl parathion, Toxaphene.
- 8553-68
EFFECTS OF LIGHT, TEMPERATURE, AND RELATIVE HUMIDITY ON THE DIET BEHAVIOR OF THE ALFALFA WEEVIL, HYPERA POSTICA.
G O Poinar Jr G G Gyrisco
J Econ Entomol 53(4) 675-677
Aug 1960 421 J822
Alfalfa, Humidity, Hypera, Insect behavior, Light, Temperature.
- 8554-68
A COMPARISON OF TWO SAMPLING TECHNIQUES FOR LYGUS BUGS AND STINK BUGS ON COTTON.
S R Race
J Econ Entomol 53(4) 689-690
Aug 1960 421 J822
Chlorochroa, Cotton, Lygus, Sampling (statistics).
- 8555-68
FIELD EXPERIMENTS ON THE INSECTICIDAL CONTROL OF INSECTS ATTACKING PEAS, SNAP AND LIMA BEANS.
R H Batcliffe L P Ditman J R Young
J Econ Entomol 53(5) 818-820, 4 REFS.
Oct 1960 421 J822
Beans, Carbaryl, Dilan, Dimethoate, DDT, Endosulfan, Ethion, Heliothis zea, Lima beans, Methyl trithion, Naled, Phosphamidon.
- 8556-68
EFFECT OF TOPICAL APPLICATIONS OF GRANULATED SYSTEMIC INSECTICIDES AND OF CONVENTIONAL APPLICATIONS OF OTHER INSECTICIDES ON CONTROL OF INSECTS AND SPIDER MITES ON SUGAR BEET PLANTS.
H T Reynolds T R Fukuto Jr G D Peterson
J Econ Entomol 53(5) 725-729, TABS.
Oct 1960 421 J822
Carbaryl, Disulfoton, Endosulfan, Ethion, Granules, Insecticides, O,O-diethyl S-2-(ethyl-thio)ethyl phosphorodithioate, Phorate, Sugar beets.
- 8557-68
EVALUATION OF INSECTICIDES FOR CONTROL OF TARNISHED PLANT BUG ON BIRDSFOOT TREFOIL.
R L Ridgway G G Gyrisco
J Sci Food Agr 12(1) I-19-3
Jan 1961 382 S012
Aldrin, Birdsfoot trefoil, Dimethoate, Lygus, Methyl trithion, Naled.
- 8558-68
STUDIES OF THE BIOLOGY OF THE TARNISHED PLANT BUG, LYGUS LINEOLARIS.
R L Ridgway G G Gyrisco
J Econ Entomol 53(6) 1063-1065, 7 REFS.
Dec 1960 421 J822
Birdsfoot trefoil, Insect behavior, Insect biology, Lygus.
- 8559-68
EVALUATION OF INSECTICIDES FOR CONTROL OF THE TARNISHED PLANT BUG ON BIRDSFOOT TREFOIL.
R L Ridgway G C Gyrisco
J Econ Entomol 53(4) 690
Aug 1960 421 J822
Azinphosmethyl, Birdsfoot trefoil, Carbaryl, Carbophenothion, Dimethoate, Ethion, Methyl trithion, Naled, Shell 5539, Trichlorfon.
- 8560-68
STUDIES ON THE RELATION BETWEEN SILICA IN WHEAT PLANTS AND RESISTANCE TO HESSIAN FLY ATTACK.
R J Robinson J A Johnson E T Jones B W X Ponnaiya
J Econ Entomol 53(6) 995-999, 7 REFS., PL.
Dec 1960 421 J822
Phytophaga, Silica, Wheat.
- 8561-68
CONTROL OF NORTHERN FOWL MITE IN COMMUNITY WIRE CAGES WITH MALATHION IN SPECIAL DUST-BATH-BOXES.
J L Rodriguez Jr L A Riehl
J Econ Entomol 53(5) 701-704
Oct 1960 421 J822
Animal cages, Chickens, Dusting, Malathion, Ornithonyssus.
- 8562-68
EFFECTS OF SOIL INSECTICIDES AND ABSORBENTS ON PLANT SUGARS AND RESULTING EFFECT ON MITE NUTRITION.
J G Rodriguez D E Hayward W T Smith Jr
J Sci Food Agr 12(1) I-16-7
Jan 1961 382 S012
DDT, Insect nutrition, Soybeans, Sugars, Tetranychidae.
- 8563-68
EFFECTS OF SOIL INSECTICIDES ON APPLE TREES AND RESULTING EFFECT ON MITE NUTRITION.
J G Rodriguez H H Chen W T Smith Jr
J Sci Food Agr 12(1) I-18-2
Jan 1961 382 S012
Apples, Benzene hexachloride, Dieldrin, DDT, Insect nutrition, Tetranychidae.
- 8564-68
SEED TREATMENTS FOR CONTROL OF SPOTTED ALFALFA APHIDS.
B J Rogers D E Bryan
Agr Chem 17(5) 51
May 1967 381 A68
Alfalfa, Disulfoton, Hydroxyethylcellulose, Phorate, Seed treatment, Therioaphis.
- 8565-68
EFFECT OF COMMON VARIABLES IN RICE PRODUCTION ON RICE WATER WEEVIL CONTROL.
L H Rolston P Rouse
J Sci Food Agr 15(10) II-185-1
Oct 1964 382 S012
Aldrin, Cultural control (insects), Lissorhoptrus, Rice, Seed treatment.
- 8566-68
CONTROL OF MEALYBUGS ON ORNAMENTALS.
L H Rolston P Rouse R Mayes
J Sci Food Agr 15(9) II-129-9
Sep 1964 382 S012
Diazinon, Malathion, Naled, Ornamental plants, Pseudococcidae.
- 8567-68
THE HYMENOPTEROUS PARASITES OF CITRUS ARMORED SCALES IN ISRAEL (HYMENOPTERA CHALCIDOIDEA).
D Rosen
Entomol Soc Amer Ann 58(3) 388-396, 28 REFS., 10 FIGS.
May 1965 420 EN82
Aphytis, Chalcidoidea, Fruit culture, Parasitism.
- 8568-68
EFFECTIVENESS OF VARIOUS FORMULATIONS OF FIVE INSECTICIDES ON INSECTS INFESTING DOUGLAS-FIR LOGS.
J A Rudinsky L C Terriere D G Allen
J Sci Food Agr 12(4) I-172-9
Apr 1961 382 S012
Carbaryl, Dendroctonus, Endosulfan, Endrin, Heptachlor, Lindane, Pseudotsuga menziesii.
- 8569-68
EVALUATING ARTIFICIAL INFESTATION OF BLACK CUTWORMS.
R E Sechrist A C York
J Econ Entomol 60(4) 923-925
15 Aug 1967 421 J822
Agrotis ipsilon, Corn, Insect rearing, Plant injuries, Abstract
- 8570-68
BIOLOGY AND CONTROL OF THE MORNING-GLORY LEAF MINER, BEDELLIA SOMNULENTELLA, ON SWEET POTATOES.
H H Shorey L D Anderson
J Econ Entomol 53(6) 1119-1122, 4 REFS.
Dec 1960 421 J822
Bedellia, Diazinon, DDT, Malathion, Parathion, Sweetpotatoes, Toxaphene, Trichlorfon.

- 8571-68
BIOLOGY AND CONTROL OF MORNING-GLORY LEAF MINER, REDELLIA
SCHMULENTELLA, ON SWEET POTATOES.
H H Shorey I D Anderson
J Sci Food Agr 12(5) I-227-5
May 1961 382 S012
Bedellia, Biological control (insects), Diazinon, DDT,
Malathion, Parathion, Sweetpotatoes, Toxaphene.
- 8572-68
MALATHION AGAINST LEAD CABLE BORERS.
P Simmons
J Sci Food Agr 12(4) I-207-6
Apr 1961 382 S012
Malathion, Raisins, Scobicia.
- 8573-68
RESPONSES OF RAISIN MOTH LARVAE TO RESIDUES OF SIX
INSECTICIDAL SPRAYS.
P Simmons
J Sci Food Agr 12(4) I-171-3
Apr 1961 382 S012
Cadra, Chlordane, Lindane.
- 8574-68
CEREAL LEAF BEETLE MENACES AMERICAN GRAIN PRODUCING AREAS.
J F Spears
Agr Chem 19(10) 14-16
Oct 1964 381 AG8
Carbaryl, Chrysomelidae, Grain, Malathion.
- 8575-68
SPIDER POPULATIONS IN NEW JERSEY APPLE ORCHARDS.
H R Specht C D Dondale
J Econ Entomol 53(5) 810-814, HIHL. 813-814, TARS.
Oct 1960 421 J822
Apples, Insecticides, New Jersey, Spiders.
- 8576-68
EFFECTIVENESS OF SEVIN-SESAMEX COMBINATIONS AGAINST ADULT
FLYBEETLES (TRIBOLIUM SPP.).
R D Speirs
J Sci Food Agr 12(4) I-172-7
Apr 1961 382 S012
Carbaryl, Sesamex, Tribolium.
- 8577-68
CONTROL OF GRAPE LEAF FOLDER IN CALIFORNIA.
E M Stafford F L Jensen R Kido
J Sci Food Agr 12(1) I-18-5
Jan 1961 382 S012
Carbaryl, Desmia, Endrin, Grapes.
- 8578-68
RESISTANCE IN CORN TO THE CORN EARWORM AND FALL ARMYWORM.
II. TYPES OF FIELD RESISTANCE TO THE CORN EARWORM.
K J Starks W W McMillian
J Econ Entomol 60 (4) 920-923 REP
15 Aug 1967 421 J822
Corn, Heliothis zea, Plant pest resistance,
Spodoptera frugiperda.
Abstract
- 8579-68
ROLE OF ATTRACTANTS IN RECENT MEDITERRANEAN FRUIT FLY
ERADICATION PROGRAMME IN FLORIDA.
L F Steiner G G Rohwer E L Ayres L D Christenson
J Sci Food Agr 12(6) I-280-6
Jun 1961 382 S012
Ceratitis, Dichlorvos, Malathion.
- 8580-68
INTEGRATED CONTROL METHODS AGAINST EGYPTIAN LUCERNE WEEVIL
IN CALIFORNIA.
V M Stern
J Sci Food Agr 12(6) I-280-2
Jun 1961 382 S012
Alfalfa, Heptachlor, Hypera.
- 8581-68
NEW APPROACH TO INSECT CONTROL REPORTED AT ALABAMA PESTI-
CIDE MEETING.
R F Stevenson
Agr Chem 17(3) 34-37, 106-107
Mar 1962 381 AG8
Apholate, Musca domestica, Sterilization, Tepa.
- 8582-68
MITE DETECTION, PREVENTION AND CONTROL.
R R Stoller
Agr Chem 17(4) 30-32, 102-103, 3 TARS.
Apr 1962 381 AG8
Dichlorvos, Grain, Mites.
- 8583-68
PROTECTIVE SPRAYS AGAINST INTERNAL INFESTATIONS OF GRAIN
BEETLES IN WHEAT.
R G Strong D E Sbur
J Sci Food Agr 15(12) II-294-10
Dec 1964 382 S012
American Cyanamid 12009, Dichlorvos,
Diethyl S-n-propylthiomethyl phosphorodithionate, OO-,
Phorate, Rhizopertha, Sitophilus, Spraying, Wheat.
- 8584-68
PERFORMANCE OF SEVIN AGAINST GRAPE BERRY MOTR.
E F Taschenberg G M Parsons R R Moorefield
J Econ Entomol 53(5) 856-859, 7 REFS., 6 TARS.
Oct 1960 421 J822
Carbaryl, Cholinesterases, DDT, EPN, Grapes,
N-trichloromethyl-mercaptophthalimide, Parathion, Phaltan.
- 8585-68
CONTROL OF GRAPE BERRY MOTR WITH GUTRION SPRAYS AND STUDIES
ON PERSISTENCE OF SPRAY DEPOSITS.
E F Taschenberg A W Avens P R Sferra S D Gibbs
J Sci Food Agr 15(9) II-130-4
Sep 1964 382 S012
Azinphosmethyl, Biological assay, Grapes,
Insecticide residual activity, Paralobesia.
- 8586-68
PERFORMANCE OF SEVIN AGAINST GRAPE BERRY MOTR.
E F Taschenberg G M Parsons H R Moorefield
J Sci Food Agr 12(4) I-171-1
Apr 1961 382 S012
Azinphosmethyl, Carbaryl, DDT, Grapes, Paralobesia.
- 8587-68
EFFECT OF INSECTICIDAL SPRAYS ON BORROWERS AND ON APANTELES
CONGREGATUS.
R Thurston
J Econ Entomol 53(5) 976
Oct 1960 421 J822
Endrin, Protoparce, TDE, Tobacco.
- 8588-68
FACTORS AFFECTING THE TOLERANCE OF ROLL WEEVILS TO CALCIUM
ARSENATES.
C R Tsao W L Lowry
J Econ Entomol 53(5) 844-847, 15 REFS., 6 TARS
Oct 1960 421 J822
Anthonomus grandis, Calcium arsenate, Cotton, Mortality,
Tricalcium arsenate.
- 8589-68
CHEMICAL CONTROL OF PERIODICAL CICADA, MAGICICADA
SEPTENDECIM, ON APPLES IN NORTH CAROLINA.
G F Turnipseed
J Sci Food Agr 15(9) II-132-9
Sep 1964 382 S012
Apples, Chemical control (insects), Demeton, Magicicada.
- 8590-68
COTTON LEAF PERFORATOR AND ITS CONTROL IN ARIZONA.
D M Tuttle G P Wene L W Sheets
J Sci Food Agr 12(6) I-281-6
Jun 1961 382 S012
Arizona, Rucculatrix, DDT, Terpenes.
- 8591-68
METHODS OF APPLICATION OF EMULSIFIABLE 1,2-DIBROMO-3-
CHLOROPROPANE AROUND CITRUS TREES.
S D Van Gundy F J Foote R L Rackham A Rinkov
J Sci Food Agr 12(6) I-280-9
Jun 1961 382 S012
Citrus nurseries, Insecticide application.
- 8592-68
INSECTICIDE STUDIES ON EAST AFRICAN AGRICULTURAL PESTS.
III. SEED DRESSINGS FOR THE CONTROL OF THE BEAN FLY,
MELANAGROMYZA PHASEOLI, IN TANGANYIKA.
P T Walker
J Sci Food Agr 12(1) I-19-7
Jan 1961 382 S012
Agromyza, Seed treatment.

BIBLIOGRAPHY

20 8593-68

- 8593-68
SOME HOST PLANTS OF THE GREEN PEACH APHID AND BEET WESTERN YELLOW VIRUS IN THE PACIFIC NORTHWEST.
R L Wallis
J Econ Entomol 60 (4) 904-907
15 Aug 1967 421 J822
Host specificity, Myzus persicae, Plant disease transmission, Plant nematodes, Virus diseases (plants), Western yellows (sugar beets).
Abstract
- 8594-68
SOME NEW AND LITTLE-KNOWN INSECTS OF ECONOMIC IMPORTANCE ON RANGE GRASSES.
J G Watts A C Bellotti
J Econ Entomol 60 (4) 961-963
15 Aug 1967 421 J822
Grasses, Insect pests, Ranges.
Abstract
- 8595-68
SYSTEMIC INSECTICIDES FOR MEXICAN BEAN BEETLE CONTROL.
R E Wester F P Smith
Agr Chem 17(4) 44-46, 143, 5 REFS., 1 TAB.
Apr 1962 381 AG8
Disulfoton, Epilachna, Lima beans, Phorate.
- 8596-68
GIANT COFFEE LOOPER, ASCOTIS SELENARIA RECIPROCARIA, AND ITS CONTROL.
P E Wheatley
J Sci Food Agr 15(10) II-185-3
Oct 1964 382 S012
Ascotis, Coffee, DDT, Pyrethrum.
- 8597-68
RESISTANCE OF DOLLARD RED CLOVER TO THE PEA APHID, MACROSIPHUM PISI.
R D Wilcoxson A G Peterson
J Econ Entomol 53(5) 863-865, 14 REFS.
Oct 1960 421 J822
Macrosiphum, Plant insect resistance, Red clover.
- 8598-68
DIELDRIN LATTICES APPLIED BY AIRCRAFT FOR CONTROLLING HOPPERS OF RED LOCUST NOMADACRIS SEPTEMFASCIATA (SERVILLE).
W N Yule
J Sci Food Agr 12(4) I-169-4
Apr 1961 382 S012
Cicadellidae, Dieldrin, Nomadacris septemfasciata, Spraying.
- Nematodes**
- 8599-68
HEMLOCK LOOPER CONTROL SPRAYING CALLED BEST PLANNED AND SAFEST FOREST PROJECT.
Agr Chem 18(8) 55-57
Aug 1963 381 AG8
Aerial spraying, Carbaryl, DDT, Fish, Geometridae, Tsuga.
- 8600-68
PEST CONTROL COMPOSITIONS.
J Sci Food Agr 12(4) I-174-3
Apr 1961 382 S012
Nematodes, Pesticides, Phosphorus chlorides.
Monsanto Chem. Co.
- 8601-68
SCREW WORM ERADICATION CAMPAIGN UNDERWAY IN SOUTHWEST.
Agr Chem 17(3) 100
Mar 1962 381 AG8
Cochliomyia, Sterilization.
- 8602-68
AQUEOUS TRANSPORT OF WATER-SOLUBLE NEMATOCIDES THROUGH SOILS. I. SORPTION OF PHENOL AND ETHYLENE DIBROMIDE SOLUTIONS AND THE CHROMATOGRAPHIC LEACHING OF PHENOL IN SOILS. II. MOVEMENT OF PHENOL SOLUTIONS AT A CONSTANT PERCOLATION RATE THROUGH A SOIL PROFILE. III. NATURAL FACTORS MODIFYING THE CHROMATOGRAPHIC LEACHING OF PHENOL THROUGH SOIL.
J Sci Food Agr 15(10) II-183-6
- Oct 1964 382 S012
Nematocides, Phenols, Soil leaching, Soil percolation, Soil series.
- 8603-68
NEW PEST OF COTTON THREATENS LOUISIANA CROPS.
Agr Chem 17(1) 38
Jan 1962 381 AG8
Cotton, Dodine, Nematodes.
- 8604-68
LATE AUTUMN APPLICATIONS OF PUMIGANT FOR THE CONTROL OF SUGAR BEET NEMATODES.
J Altman B J Fitzgerald
J Sci Food Agr 12(6) I-280-1
Jun 1961 382 S012
Dichloropropane dichloropropene mixture, Heterodera, Sugar beets.
- 8605-68
THE BEET ARMYWORM, SPODOPTERA EXIGUA, AN ECONOMIC PEST OF CITRUS IN CALIFORNIA.
E L Atkins Jr
J Sci Food Agr 12(1) I-19-2
Jan 1961 382 S012
Citrus, DDT, Parathion, Spodoptera.
- 8606-68
NEMATOCIDE-FERTILIZER MIXTURES APPLIED TO VEGETABLE CROPS.
R Aycok J N Sasser
Agr Chem 17(3) 79
Mar 1962 381 AG8
Fertilizers, Nematocides, Root knot, Vegetables.
- 8607-68
CONTROL OF POTATO TUBERWORM IN POTATOES.
O G Bacon
J Sci Food Agr 12(4) I-170-7
Apr 1961 382 S012
Azinphosmethyl, Carbaryl, Dimethoate, Endosulfan, Endrin, Phthorimaea, Potatoes.
- 8608-68
CONTROL OF THE POTATO TUBERWORM IN POTATOES.
O G Bacon
J Econ Entomol 53(5) 868-871, 8 REFS.
Oct 1960 421 J822
Azinphosmethyl, Calcium arsenate, Carbaryl, Dimethoate, DDT, Endosulfan, Endrin, Gnorimoschema, Potatoes.
- 8609-68
CONTROL OF MAIZE EARWORM WITH AMERICAN CYANAMID 18133.
L W Blanchard L W Getzin W A Douglas
J Sci Food Agr 12(1) I-17-4
Jan 1961 382 S012
American Cyanamid 18133, Corn, Heliothis zea.
- 8610-68
EFFECT OF SAMPLE LOCATION WITHIN FIELDS ON CORN EARWORM AND RICE WEEVIL INFESTATION AND DAMAGE.
C C Blickenstaff
J Econ Entomol 53(5) 745-747, TABS.
Oct 1960 421 J822
Corn, Heliothis zea, Rice, Sitophilus.
- 8611-68
BLACK-HEADED FIREWORM OF CRANBERRY - A PEST OF THE EVERGREEN HUCKLEBERRY IN WESTERN WASHINGTON.
E P Breakey
J Sci Food Agr 12(5) I-225-8
May 1961 382 S012
Biological control (insects), Cranberries, Huckleberries, Rhopobota, TDE.
- 8612-68
THE BLACKHEADED FIREWORM OF CRANBERRY - A PEST OF THE EVERGREEN HUCKLEBERRY IN WESTERN WASHINGTON.
E P Breakey
J Econ Entomol 53(6) 1097-1099, 8 REFS.
Dec 1960 421 J822
Cranberries, Huckleberries, Rhopobota.
- 8613-68
EFFECT OF COLCHICINE ON SCREW-WORMS.
W F Chamberlain D E Hopkins
J Sci Food Agr 12(5) I-227-3
May 1961 382 S012
Cochliomyia, Colchicine.

BIBLIOGRAPHY

20 8635-68

- 8614-68
NEMIC PARASITES OF COFFEE IN GUATEMALA AND SUGGESTED AD
INTERIM CONTROL MEASURES.
B G Chitwood C A Berger
J Sci Food Agr 12(6) I-281-5
Jun 1961 382 S012
Coffee, Parasitic insects.
- 8615-68
CYNEM--AN EFFECTIVE CONTROL FOR STING NEMATODES ON PEANUTS.
W E Cooper J N Sasser
Agr Chem 18(8) 58,79, 3 REFS.
Aug 1963 381 AG8
Cynem, Nematodes, Peanuts.
- 8616-68
CONTROL OF MAIZE ROOT WEBWORM.
C B Dominick
J Sci Food Agr 12(1) I-17-3
Jan 1961 382 S012
Aldrin, Chlordane, Corn, Crambus, Dieldrin, Heptachlor.
- 8617-68
GREEN CLOVERWORM OUTBREAK CAUSES WIDESPREAD DAMAGE.
K Dorward
Agr Chem 19(10) 64,89
Oct 1964 381 AG8
Alfalfa, Beans, Heliothis zea, Plathypena, Rhopalosiphum,
Soybeans, Spodoptera, Trichoplusia.
- 8618-68
HEAVY POPULATIONS OF THE PINK BOLLWORM ARE REPORTED.
K Dorward
Agr Chem 18(12) 69, 93-94
Dec 1963 381 AG8
Acyrtosiphon, Alfalfa, Cotton, Heliothis zea,
Pectinophora gossypiella, Spodoptera, Therioaphis,
Trichoplusia.
- 8619-68
ARMYWORMS ACTIVE AND CAUSING DAMAGE OVER WIDE AREA.
K Dorward
Agr Chem 19(7) 61-62
Jul 1964 381 AG8
Grain, Hypera, Pseudaletia.
- 8620-68
FALL ARMYWORM CAUSES CONCERN IN SEVERAL AREAS.
K Durward
Agr Chem 19(9) 114,157-160, 3 REFS.
Sep 1964 381 AG8
Corn, Peanuts, Pseudaletia, Tetranychidae.
- 8621-68
INFLUENCE OF PLANTING DATE ON YIELD OF SOYA-BEAN IN FUMIGA-
TED AND UNTREATED SOIL IMPESTED WITH HETERODERA GLYCINES.
J M Epps A Y Chambers
J Sci Food Agr 15(9) II-130-2
Sep 1964 382 S012
Ethylene dibromide, Heterodera, Planting date,
Soil fumigation, Soybeans.
- 8622-68
YIELD OF SOYBEANS IN SOIL INFESTED WITH HETERODERA GLYCINES.
J M Epps A Y Chambers
Agr Chem 19(8) 70
Aug 1964 381 AG8
Crop yields, Fumigation, Heterodera, Soils, Soybeans.
- 8623-68
ATTEMPTS TO CONTROL SPREADING-DECLINE OF CITRUS WITH HIGH
RATES OF NEMATOCIDES APPLIED BY SPRINKLER IRRIGATION.
A W Feldman E P DuCharme R F Suit
J Sci Food Agr 15(9) II-128-6
Sep 1964 382 S012
Citrus, Dibromo-3-chloropropane, 1,3-,
Dichloropropane dichloropropene mixture,
Dichloropropene, 1,3-, Ethylene dibromide,
Sprinkler irrigation.
- 8624-68
NEW APPROACHES TO NEMATODE CONTROL.
J M Good
Agr Chem 20(7) 49-51,85, 19 REFS.
Jul 1965 381 AG8
Nematocides, Nematodes, Soil fumigation.
- 8625-68
CONTROL OF THE CITRUS NEMATODE.
C I Hannon
Agr Chem 20(5) 78
May 1965 381 AG8
Citrus trees, Cynem, Fumigation, Nematocides, SMDC, Vapam,
1,2-dibromo-3-chloropropane.
- 8626-68
MAIZE EARWORM OVIPOSITION AND THE EFFECT OF DDT ON THE EGG
PREDATOR COMPLEX IN MAIZE SILK.
F P Harrison
J Sci Food Agr 12(5) I-224-8
May 1961 382 S012
DDT, Heliothis zea, Ovipositors.
- 8627-68
CORN EARWORM OVIPOSITION AND THE EFFECT OF DDT ON THE EGG
PREDATOR COMPLEX IN CORN SILK.
F P Harrison
J Econ Entomol 53(6) 1088-1094, 10 REFS.
Dec 1960 421 J822
Corn, DDT, Eggs, Heliothis zea, Mortality, Oviposition,
Predaceous insects.
- 8628-68
CHEMOTHERAPEUTIC CONTROL.
A W Helton
Agr Chem 20(9) 176
Sep 1965 381 AG8
Dimethoate, Meloidogyne, Potatoes.
- 8629-68
CHEMOTHERAPEUTIC ACTION OF DIMETHOATE.
A W Helton
Agr Chem 20(9) 176
Sep 1965 381 AG8
Dimethoate, Meloidogyne, Tomatoes.
- 8630-68
CONTROL OF THE GARDEN SYMPHYLID IN THE PACIFIC NORTHWEST.
A J Howitt
J Sci Food Agr 12(1) I-19-4
Jan 1961 382 S012
Soil fumigation, Telone.
- 8631-68
VIRUS SEEN AS CONTROL FOR IMPORTED CABBAGEWORM.
R P Jaques
Agr Chem 20(2) 80
Feb 1965 381 AG8
Pieris, Plant diseases.
- 8632-68
CONTROL OF STUBBY ROOT NEMATODE, TRICHODORUS ALLIUS, IN
ONIONS.
H J Jensen W E R Hopper G E Page
J Sci Food Agr 15(9) II-129-3
Sep 1964 382 S012
Dichloropropane dichloropropene mixture,
Methyl isothiocyanate, Onions, Telone, Vorlex.
- 8633-68
BEE REPELLANT COMBINED WITH DIELDRIN OR SEVIN IN BEE
POISONING TESTS IN LUCERNE.
C Johansen
J Sci Food Agr 12(5) I-223-7
May 1961 382 S012
Alfalfa, Bees, Carbaryl, Dieldrin, Insect repellents.
- 8634-68
OCCURRENCE AND CONTROL OF SAND WIREWORM IN MISSOURI.
A J Keaster M L Fairchild
J Econ Entomol 53(5) 963-964, 5 REFS.
Oct 1960 421 J822
American Cyanamid 18133, Corn, Cotton, Cowpeas, Heptachlor,
Hercules 5727, Horistonotus, Missouri,
O,O-diethyl O-2-pyrazinyl phosphorothioate.
- 8635-68
OCCURRENCE AND CONTROL OF SAND WIREWORMS IN MISSOURI.
A J Keaster M L Fairchild
J Sci Food Agr 12(4) I-173-6
Apr 1961 382 S012
m-isopropylphenyl methylcarbamate, Corn, Heptachlor,
Hercules 5727, Horistonotus,
OO-diethyl O-2-pyrazinyl phosphorothioate.

BIBLIOGRAPHY

20 8636-68

- 8636-68
ROOT SYMPTOMS AND ANATOMICAL CHANGES IN TRIFOLIUM SPECIES AND LETTUCE RESULTING FROM INJURY BY PRATYLENCHUS PENETRANS AND 2,4-D.
R A Kilpatrick T-a Chen A E Rich L Rodrigues
J Sci Food Agr 15(9) II-132-1
Sep 1964 382 S012
Clover, Lettuce, Plant abnormalities, Plant injuries, Pratylenchus, 2,4-D.
- 8637-68
CHEMICAL CONTROL OF ROOT-KNCT NEMATODES IN FRAME-GROWN CUCUMBERS.
N C Kyrrou
J Sci Food Agr 15(9) II-129-1
Sep 1964 382 S012
Cucumbers, Dibromo-3-chloropropane, 1,3-, Ethylene dibromide.
- 8638-68
INCREASES OF EUROPEAN MAIZE BORERS FOLLOWING SOIL APPLICATION OF LARGE AMOUNTS OF DIELDRIN.
W H Luckmann
J Sci Food Agr 12(1) I-17-2
Jan 1961 382 S012
Corn, Dieldrin, European maize borer.
- 8639-68
1,6-HEXANEDITHIOL DIACETATE AS A DIP NEMATOCIDE FOR BARE-ROOTED NURSERY STOCK.
C W McBeth J E Larson S T Ichikawa
J Sci Food Agr 15(9) II-130-8
Sep 1964 382 S012
Hexanedithiol diacetate, 1,6-, Nursery stock (horticulture), Plant nematodes.
- 8640-68
EFFECT OF FUMIGATION AND OTHER MEASURES FOR NEMATODE CONTROL ON THE PRODUCTION OF NITRATE IN GORADU SOIL.
B V Mehta G J Patel R T Dangarwala
J Sci Food Agr 15(11) II-242-4
Nov 1964 382 S012
Nematodes, Nitrification, Soil fumigation, Tobacco.
- 8641-68
EFFECTS OF SPRING PREPLANTING FUMIGATION IN STRAWBERRY SOIL IN N. BRUNSWICK.
C T Morgan
J Sci Food Agr 15(9) II-128-5
Sep 1964 382 S012
Dichloropropane dichloropropene mixture, Root rot (strawberries), Soil fumigation.
- 8642-68
USDA FIGHTS HORNWORM.
Agr Chem 18(10) 87
Oct 1963 381 AG8
Light traps, Sphingidae, Tobacco.
- 8643-68
SOIL FUMIGATION FOR NEMATODE CONTROL IN FLUE-CURED TOBACCO.
C J Nusbaum
J Sci Food Agr 12(1) I-21-6
Jan 1961 382 S012
Flue-cured tobacco, Nematodes, Soil fumigation.
- 8644-68
RESPONSE OF NAVAL ORANGE TREES TO A POSTPLANTING APPLICATION OF 1,2-DIBROMO-3-CHLOROPROPANE FOR CONTROL OF THE CITRUS NEMATODE.
J H O Bannan H W Reynolds
J Sci Food Agr 15(9) II-130-7
Sep 1964 382 S012
Dibromo-3-chloropropane, 1,2-, Oranges, Tylenchulus.
- 8645-68
EFFECTS OF SUGARS ON TOMATO PLANTS AND NEMATODES OF RHABDITIS AND MELOIDOGYNE SPECIES.
T H A Olthof R H Estey
J Sci Food Agr 15(9) II-128-11
Sep 1964 382 S012
Meloidogyne, Rhabditis, Root knot (tomatoes), Sugars, Tomatoes.
- 8646-68
COTTON PESTS EXHIBIT RESISTANCE TO DDT. .
T L Pate J R Brazzel
Agr Chem 19(8) 34-36, 2 TABS.
Aug 1964 381 AG8
Cotton, DDT, Heliothis zea, Insecticide resistant insects.
- 8647-68
EFFECT OF GREEN MANURES ON ROOT-KNOT INCIDENCE IN TOMATO SEEDLINGS.
R M Patel M V Desai
J Sci Food Agr 15(9) II-128-8
Sep 1964 382 S012
Green manures, Root knot (tomatoes), Tomatoes.
- 8648-68
EFFECT OF SOIL TREATMENTS OF HEPTACHLOR AND PARATHION ON PREDATORS AND PARASITES OF ROOT MAGGOTS ATTACKING RUTABAGAS ON PRINCE EDWARD ISLAND.
D C Read
J Sci Food Agr 12(4) I-171-5
Apr 1961 382 S012
Heptachlor, Maggots, Parathion, Rutabagas.
- 8649-68
PROBLEMS AND PROGRESS IN WESTERN CORN ROOTWORM CONTROL.
R E Roselle
Agr Chem 18(11) 28-29, 115
Nov 1963 381 AG8
Aldrin, Corn, Crop rotation, Diabrotica, Diazinon, Phorate.
- 8650-68
METHYL BROMIDE FUMIGATION FOR CONTROL OF THE SOYA-BEAN CYST NEMATODE, HETERODERA GLYCINES.
J N Sasser G Uzzell Jr
J Sci Food Agr 12(4) I-170-4
Apr 1961 382 S012
Heterodera, Methyl bromide, Soybeans.
- 8651-68
CONTROL OF THE STING NEMATODE, BELONOLAIMUS LONGICAUDATUS, ON GROUNDNUTS WITH 1,2-DIBROMO-3-CHLOROPROPANE AND EN 18133.
J N Sasser W E Cooper T G Bowery
J Sci Food Agr 12(4) I-172-6
Apr 1961 382 S012
EN 18133, Nematodes, 00-diethyl-0-2-pyrazinyl phosphorothioate, Peanuts, 1,2-dibromo-3-chloropropane.
- 8652-68
CHEMICAL CONTROL OF PLANT-PARASITIC NEMATODES IN PLANT ROOTS.
S A Sher
J Sci Food Agr 12(4) I-170-3
Apr 1961 382 S012
Nematocides, Plant nematodes.
- 8653-68
NEMATODE CONTROL ON A STATEWIDE SCALE.
J P Spears
Agr Chem 17(6) 25-28, 100
Jun 1962 381 AG8
Citrus, Fumigation, Radopholus.
- 8654-68
FUMIGATION MEASURES ARE UNDERWAY TO RID LONG ISLAND OF GOLDEN NEMATODE.
J P Spears
Agr Chem 17(8) 12-14, 74
Aug 1962 381 AG8
Fumigation, Heterodera, Potatoes.
- 8655-68
CONTROL OF NEMATODES ATTACKING ONIONS.
I J Thomason J D Radewald N C Welch H E McKinney
J Sci Food Agr 15(11) II-242-2.
Nov 1964 382 S012
Dichloropropene, 1,3-, Meloidogyne, Onions, Pratylenchus, Soil moisture, Trichodorus.
- 8656-68
EFFECT OF INSECTICIDAL SPRAYS ON HORNWORMS AND ON APANTELES CONGREGATUS.
R Thurston
J Sci Food Agr 12(4) I-172-4
Apr 1961 382 S012
Hymenoptera, Sphingidae, TDE .
- 8657-68
CONTROL OF THE CRANBERRY FRUITWORM, ACROBASIS VACCINII.
W E Tomlinson Jr
J Econ Entomol 53(6) 1116-1119, 6 REFS., 3 TABS.
Dec 1960 421 J822
Acrobasis, Carbaryl, Carbophenothion, Cranberries, Diazinon, Endosulfan, Malathion, Methyl parathion, Parathion, Rotenone.

- 8658-68
CONTROL OF CRANBERRY FRUITWORM, ACROBASIS VACCINII.
W E Tomlinson Jr
J Sci Food Agr 12(5) I-226-1
May 1961 382 S012
Acrobasis, Azinphosmethyl, Carbaryl, Cranberries, Diazinon, Endosulfan, Malathion, Rotenone.
- 8659-68
TRIZONE A NEW TRIPLE-ACTION SOIL FUMIGANT.
G O Turner
J Sci Food Agr 12(1) I-16-2
Jan 1961 382 S012
Soil fumigation, Trizone.
- 8660-68
CONTROL OF THE SOUTH-WESTERN MAIZE BORER.
H C Wall W H Whitcomb
J Sci Food Agr 12(5) I-225-1
May 1961 382 S012
Corn, Endosulfan, Endrin, Zeadiatraea.
- 8661-68
RESPONSE OF ESTABLISHED TOKAY GRAPES TO SOIL FUMIGANTS.
L E Warren
J Sci Food Agr 12(1) I-18-6
Jan 1961 382 S012
Ethylene dibromide, Grapes, Soil fumigation.
- 8662-68
AERIAL FOREST SPRAYING AGAINST SPRUCE BUDWORM A PROBLEM OF MUTUAL INTEREST IN CANADA AND THE UNITED STATES.
F E Webb
J Sci Food Agr 12(1) I-21-2
Jan 1961 382 S012
Aerial spraying, Choristoneura.
- 8663-68
BIOLOGICAL CONTROL OF PHYTOPHTHORA ROOT ROT OF AVOCADO WITH LUCERNE MEAL.
G A Zentmeyer
J Sci Food Agr 15(9) II-130-6
Sep 1964 382 S012
Alfalfa meal, Avocados, Phytophthora cinnamoni.
- 8664-68
EFFECTS OF OO-DIETHYL O-2-PYRAZINYL PHOSPHOROTHIOATE (ZINOPHOS) ON NEMATODE POPULATIONS.
B M Zuckerman
J Sci Food Agr 15(9) II-128-3
Sep 1964 382 S012
Cranberries, Diethyl O-2-pyrazinyl phosphorothioate, OO- , Nematodes, Zinophos.
- 8665-68
SELECTIVE, PRE-EMERGENCE HERBICIDE IS ULTIMATE GOAL IN WEED CONTROL.
Agr Chem 17(3) 44-46, 113-114
Mar 1962 381 AG8
Broccoli, Herbicides, Lettuce, Weed control.
- 8666-68
2ND ANNUAL AQUATIC WEED MEETING REVIEWS HERBICIDES AND APPLICATION.
Agr Chem 17(5) 94
May 1962 381 AG8
Aquatic weeds, Herbicides, Pesticide application, Weed control.
- 8667-68
U.S. BORAX INTRODUCES GRANULAR WEED KILLER.
Agr Chem 20(8) 79
Aug 1965 381 AG8
Boralin, Granular herbicide, Herbicides.
- 8668-68
FLAME CULTIVATION, FACE FLIES AMONG TOPICS AT ILLINOIS CONFERENCE.
Agr Chem 17(3) 68-72
Mar 1962 381 AG8
- Atrazine, Corn, Dichlorvos, Musca autumnalis, Weed control, 2,4-D.
- 8669-68
1962 CAMPAIGN AGAINST WITCHWEED UNDERWAY IN THE CAROLINAS.
Agr Chem 17(9) 91
Sep 1962 381 AG8
Spraying, Striga, 2,4-D.
- 8670-68
CITRUS GROVES AND RANGELAND OFFER PROMISE FOR MORE HERBICIDE USE.
Agr Chem 17(3) 43-44, 112
Mar 1962 381 AG8
Citrus nurseries, Herbicides, Nematodes, Weed control.
- 8671-68
TIMING, FORMULATION AND ADJUVANTS ESSENTIAL TO CHEMICAL WEED CONTROL.
Agr Chem 17(2) 39-40, 99-100
Feb 1962 381 AG8
Dacthal, Herbicides, Pesticide application, Weed control, Zytron.
- 8672-68
NEW HERBICIDES.
Agr Chem 20(11) 97
Nov 1965 381 AG8
Chemical control (weeds), MCPA, Ordram, Propanil, Rough seeded bulrush, Watergrass.
- 8673-68
MID-SOUTH S COTTON INDUSTRY DEPENDENT ON WEED CONTROL ADVANCES.
Agr Chem 17(2) 26-27, 109-110
Feb 1962 381 AG8
Cotton, Pesticide application, Weed control.
- 8674-68
CONTROL OF GRASSES AND WEEDS IN RICE OFFERED BY ROHM AND HAAS HERBICIDE.
Agr Chem 17(2) 84, 99-100
Feb 1962 381 AG8
Herbicides, Rice, Weed control.
- 8675-68
TOLERANCE OF CERTAIN CROPS TO SEVERAL AQUATIC HERBICIDES IN IRRIGATION WATER.
V F Bruns R R Yeo H F Arie
J Sci Food Agr 15(10) II-186-3
Oct 1964 382 S012
Acrolein, Diquat, Endothal, Field crops, Herbicides, Irrigation, Plant injuries, Quaternary ammonium compounds.
- 8676-68
NEW HERBICIDE FOR PRE-EMERGENCE CONTROL OF WEEDS IN BEET AND VEGETABLE CROPS.
A Fisher
J Sci Food Agr 12(5) I-227-9
May 1961 382 S012
Beets, BIPC, Monuron, OMU.
- 8677-68
MIDWEST AGRONOMISTS COMPARE CHEMICAL AND MECHANICAL WEED CONTROL.
R E Frans
Agr Chem 20(1) 44,94-95
Jan 1965 381 AG8
Chemical control (weeds), Cultural control (weeds), Soybeans.
- 8678-68
MODIFICATION OF THE LEMNA TEST FOR PHYTOTOXICITY.
F Fromm
J Sci Food Agr 12(6) I-279-1
Jun 1961 382 S012
Chemical control (weeds), Culture media.
- 8679-68
FACTORS AFFECTING THE HERBICIDAL TOXICITY OF ETHYL DI-N-PROPYLTHIOLCARBAMATE.
A K Ghosh
J Sci Food Agr 12(3) I-130-7
Mar 1961 382 S012
Crop losses, EPTC, Ethyl-di-n-propylthiolcarbamate, Weed control.
- 8680-68
CHEMICAL WEED CONTROL IN HAWAII.
N S Hanson
J Sci Food Agr 12(3) I-130-3

Weeds

BIBLIOGRAPHY

20 8681-68

- Mar 1961 382 S012
Herbicides, Weed control.
- 8681-68
ADAPTING APPLICATION EQUIPMENT FOR LAY-BY WEED CONTROL IN POTATOES.
A Bawkins
Agr Chem 17(2) 61
Feb 1962 381 AG8
Mechanization, Potatoes, Weed control.
- 8682-68
GROWTH OF SORGHUM HALPENSE UNDER CONTROLLED CONDITIONS AND PHYSIOLOGICAL RESPONSES OF PLANTS TO 2,2-DICHLOROPROPIONIC ACID.
M Ingle
J Sci Food Agr 12(3) I-131-3
Mar 1961 382 S012
Dichloropropionic acid, 2,2-, Plant physiology, Sorghum.
- 8683-68
BOTH BRIGHT AND DIM SPOTS.
D J Keating
Agr Chem 18(10) 27-28
Oct 1963 381 AG8
Fungicides, Herbicides, Weed control.
- 8684-68
PROMISING HERBICIDES.
D L Klingman
Agr Chem 20(4) 83
Apr 1965 381 AG8
Herbicides, Weed control.
- 8685-68
DEPLETION OF ITS FOOD RESERVE IS KEY TO CONTROL OF QUACK-GRASS.
H M LeBaron
Agr Chem 17(11) 39-40, 164-165, 1 TAB.
Nov 1962 381 AG8
Agropyron repens, Rhizomes, Weed control.
- 8686-68
BRUSH CONTROL WITH A TREE INJECTOR.
F M Meade
J Sci Food Agr 12(5) I-226-8
May 1961 382 S012
Hardwoods.
- 8687-68
CANADA THISTLE CONTROL.
W Meggitt
Agr Chem 20(6) 65-67
Jun 1965 381 AG8
Chemical control (weeds), *Cirsium arvense*,
Cultural control (weeds).
- 8688-68
GEORGIA PROGRAM OFFERS INFORMATION ON HERBICIDES.
J F Miller
Agr Chem 20(3) 81
Mar 1965 381 AG8
Herbicides, Weed control.
- 8689-68
PATHOLOGICAL ALTERATIONS IN FLAX THROUGH INAPPROPRIATE USE OF HERBICIDES.
E Patitz
J Sci Food Agr 12(6) I-282-6
Jun 1961 382 S012
Flax, Plant injuries.
- 8690-68
SPRAYING HERBICIDES ON WOODY PLANTS NEAR SENSITIVE CROPS.
S F Potts
Agr Chem 18(8) 52,83-84
Aug 1963 381 AG8
Beans, Cotton, Herbicides, Plant injuries, Tomatoes, 2,4-D.
- 8691-68
ECOLOGICAL AND PHYSIOLOGICAL STUDY OF ECHINOCHLOA CRUSGALLI, (L.) BEAUV. (BARNYARD GRASS) AND THE RESPONSE OF ITS BIOTYPES TO SODIUM 2,2-DICHLOROPROPIONATE (DALAPON).
Jr., B F Roche T J Muzik
J Sci Food Agr 15(9) II-127-11
Sep 1964 382 S012
Dalapon, Echinochloa, Plant ecology,
Sodium 2,2-dichloropropionate.
- 8692-68
EVALUATING HERBICIDES IN SUGAR CANE CULTIVATION.
E Rochecoste
J Sci Food Agr 12(3) I-130-4
Mar 1961 382 S012
Herbicides, Sugarcane.
- 8693-68
NEW AND EXPERIMENTAL HERBICIDES HOLD SPOTLIGHT AT NORTHEAST CONVENTION.
C B Sayre S A Anderson R F Becker
Agr Chem 20(2) 16-18,104-105
Feb 1965 381 AG8
Ambrosia, Carrots, Linuron, Prometryne.
- 8694-68
INFLUENCE OF AUXIN HERBICIDES ON GRASS-SEED CROPS.
K M Sen
J Sci Food Agr 12(4) I-173-9
Apr 1961 382 S012
Grasses, MCPA, 2-(2,4,5-trichlorophenoxy) propionic acid, 2,4-D.
- 8695-68
INCREASING UTILIZATION OF WATER PUTS SPOTLIGHT ON AQUATIC WEED CONTROL.
Dallas Southern Weed Conference
Agr Chem 20(3) 22-23,113-114
Mar 1965 381 AG8
Aquatic weeds, Water, Weed control.
- 8696-68
EFFECT OF SILVEX (2,4,5-T-P) AS CHEMICAL HERBICIDE ON SUGAR CANE IN LOUISIANA.
E R Stamper S J P Chilton
J Sci Food Agr 12(3) I-130-6
Mar 1961 382 S012
Propionic acid, 2-(2,4,5-trichlorophenoxy), Sugarcane.
- 8697-68
EFFECT OF CHEMICALS AS HERBICIDES ALONE AND IN COMBINATION FOR WEED AND GRASS CONTROL IN LOUISIANA SUGAR CANE.
E R Stamper S J P Chilton
J Sci Food Agr 12(3) I-130-8
Mar 1961 382 S012
Dalapon, Sugarcane, Trichloroacetic acid, Weed control, 2,4-D.
- 8698-68
APPLICATION OF RESIDUAL HERBICIDES FOR CONTROL OF WEEDS IN NEWLY PLANTED WILLOW BEDS.
K G Stott
J Sci Food Agr 15(11) II-242-7
Nov 1964 382 S012
Salix, Simazine, Soil series, Weeds.
- 8699-68
YIELDS OF DRYLAND WINTER WHEAT TREATED WITH 2,4-D.
D C Tingey
J Sci Food Agr 15(9) II-127-6
Sep 1964 382 S012
D, 2,4-, Wheat.
- 8700-68
CHEMICAL WEED CONTROL WITH CHLORO-AMINOTRIAZINE.
G Ubrizsy M Csongrady
J Sci Food Agr 12(6) I-282-7
Jun 1961 382 S012
Atrazine, Chemical control (weeds),
Chloro-4,6-bis(ethylamino), 2-, Corn, Simazine.
- 8701-68
WEED CONTROL IN POTATOES.
T Vossen
J Sci Food Agr 15(10) II-186-2
Oct 1964 382 S012
Aresin, Cultural control (weeds), Dinitrocresol, Potatoes, Weeds.
- 8702-68
ACCEPTANCE OF HERBICIDES BY FARMERS PROVIDES NEW OPPORTUNITIES TO INDUSTRY.
A F Wiese
Agr Chem 19(12) 45,100
Dec 1964 381 AG8
Crop yields, Grain, Herbicides, Weed control.

8703-68
EFFECT OF CHEMICAL WEED CONTROL (CHEMICAL FALLOW) ON SOIL
MOISTURE STORAGE.
A F Wiese T J Army
J Sci Food Agr 12(5) I-227-8
May 1961 382 S012
Chemical control (weeds), Soil moisture.

8704-68
REACTIONS OF TOBACCO PLANTS TO SOME HERBICIDES.
W Wurgler
J Sci Food Agr 12(3) I-131-1
Mar 1961 382 S012
MCPA , MCPB , Plant abnormalities, Tobacco, 2,4-D.

Other Pests

8705-68
LOW VOLUME SPRAYERS FOR ALFALFA WEEVIL CONTROL.
Agr Chem 20(11) 76-77
Nov 1965 381 AG8
Amitrole, Hypera postica, Insect control.

8706-68
PEST ROUNDUP.
L G Davis
Agr Chem 20(11) 83,100-101
Nov 1965 381 AG8
Insect control.

8707-68
SPRAY DRIFT THE OBSERVATIONS OF AN ARBITRATOR.
Phil Marvin
Agr Chem 20(11) 69-74
Nov 1965 381 AG8
Pesticide application, Pesticide residues, Spraying.

8708-68
CHEMICAL SEED TREATMENTS AS BIRD REPELLANTS FOR PROTECTION
OF GERMINATING MAIZE IN THE MEXICAN TROPICS.
W R Young D C Zevallos
J Sci Food Agr 12(4) I-173-5
Apr 1961 382 S012
Bird pests, Corn, Drinox, Seed treatment, Thiram.

8709-68
EXPERIMENTAL COTTON DEFOLIANT SHOWS PROMISE IN EXTENSIVE
TESTS.
R B Carroll
Agr Chem 17(2) 47, 101
Feb 1962 381 AG8
Cacodylic acid, Cotton defoliation.

30 LIVESTOCK PROTECTION

8710-68
SELECTIVE RATICIDE AVAILABLE COMMERCIALY.
Agr Chem 19(10) 26,89-90
Oct 1964 381 AG8
Rats, Rodenticides.

8711-68
FLY CONTROL MATERIALS OFFERED FOR DIRECT APPLICATION TO
LIVESTOCK.
Agr Chem 17(9) 47, 116
Sep 1962 381 AG8
Clodrin, Dichlorvos, Haematobia, Infectious keratitis,
Livestock, Stomoxys.

8712-68
PROCEDURE FOR MODIFIED COMPLEMENT FIXATION TEST WITH TURKEY,
DUCK, AND CHICKEN SERUM ANTIBODY.
H P Brumfield H Benson B S Pomeroy
Avian Dis 5(3) 270-282, TABS.
Aug 1961 41.8 AV5
Antibodies, Chickens, Complement fixation, Ducks, Serum,
Turkeys.

8713-68
METABOLISM OF P32-DELNAV IN CATTLE.
W F Chamberlain P E Gatterdam D E Hopkins
J Econ Entomol 53(4) 672-675, TABS.
Aug 1960 421 J822
Cattle, Dioxathion, Metabolism, Radioactive substances,
Toxicology.

8714-68
MISSISSIPPI DELTA WILDLIFE DEVELOPING RESISTANCE TO PESTI-
CIDES.
D E Ferguson
Agr Chem 18(9) 32-34
Sep 1963 381 AG8
Animal adaptation, DDT , Pesticides, Wildlife.

8715-68
POTENTIATION OF TERRAMYCIN I. EVALUATION OF TEREPHTHALIC
ACID AND LOW DIETARY CALCIUM IN BROILER DIETS.
IN BROILER DIETS.
R H Harms P W Waldroup
Avian Dis 5(2) 183-188, BIBL. 187-188, TABS.
May 1961 41.8 AV5
Calcium, Diet, Oxytetracycline, Terephthalic acid.

8716-68
PRELIMINARY OBSERVATIONS OF AVIAN HYSTERIA.
W F Hughes
Avian Dis 5(3) 351-352
Aug 1961 41.8 AV5
Avian hysteria, Chickens, Hysteria.

8717-68
EFFECT OF INSECTICIDES ON GROWTH AND EGG PRODUCTION OF
CHICKEN WHEN ADMINISTERED CONTINUOUSLY IN THE FEED.
E Ross M Sherman
J Sci Food Agr 12(4) I-183-1
Apr 1961 382 S012
Growth factors, Insecticides, Poultry.

8718-68
CONTROL OF SNAKE MITE (OPHIONYSSUS NATRICIS), OTHER MITES
AND CERTAIN INSECTS WITH THE SORPTIVE DUST, SG67. .
I B Tarshis
J Sci Food Agr 12(4) I-173-4
Apr 1961 382 S012
Mites, Snakes, SG67.

Diseases

- 8719-68
CONTROLLING BOVINE MASTITIS.
Vet Rec 77(22) 612-622, 16 REFS.
29 May 1965 41.8 V641
Antibiotics, Cattle, Mastitis.
- 8720-68
SUMMARY OF THE THIRD ANNUAL MEETING OF THE AMERICAN ASSOCIATION OF AVIAN PATHOLOGISTS, DENVER, COLORADO, AUGUST 15, 1960.
Avian Dis 5(1) 2-4
Feb 1961 41.8 AV5
Animal diseases, Poultry, Societies.
- 8721-68
INFECTIVE DRUG RESISTANCE.
Vet Rec 77(22) 611, 3 REFS.
29 May 1965 41.8 V641
Bacteria, Drugs.
- 8722-68
REPORT OF THE COMMITTEE ON NOMENCLATURE AND REPORTING OF DISEASES, NORTHEASTERN CONFERENCE ON AVIAN DISEASES, JUNE 1961.
Avian Dis 5(3) 463
Aug 1961 41.8 AV5
Animal diseases, Birds.
- 8723-68
BRITISH EQUINE VETERINARY ASSOCIATION SURVEY OF EQUINE DISEASE, 1962-63.
Vet Rec 77(19) 528-538, 5 TABS.
08 May 1965 41.8 V641
Animal diseases, Horses.
- 8724-68
REPORT ON THE PULLORUM DISEASE TESTING RESULTS PRESENTED AT THE 33RD MEETING OF THE NORTHEASTERN CONFERENCE ON AVIAN DISEASES.
Avian Dis 5(3) 461-462
Aug 1961 41.8 AV5
Pullorum disease.
- 8725-68
FOURTH INTERNATIONAL SYMPOSIUM ON DISEASES OF ZOO ANIMALS.
Vet Rec 74(49) 1420-1421
08 Dec 1962 41.8 V641
Animal diseases, Zoological gardens.
- 8726-68
SUMMARY OF A STUDY OF THE CHICK-EMBRYO-LETHAL ORPHAN (CELO) VIRUS BY AGAR GEL DIFFUSION TEST.
D V Ablashi V J Yates P W Chang D E Fry
Avian Dis 5(3) 456
Aug 1961 41.8 AV5
Agar, Chicken embryo lethal orphan virus, Diffusion, Poultry.
- 8727-68
THE EFFECT OF ANIMAL DISEASES ON HUMAN FOOD SUPPLY A REVIEW OF THE WORLD POSITION.
J A Aczel
Vet Rec 77(21) 596-598, 6 REFS., 3 TABS.
22 May 1965 41.8 V641
Animal diseases, Food supply.
- 8728-68
HISTAMINE, LACTIC ACID, AND HYPERTONICITY AS FACTORS IN THE DEVELOPMENT OF RUMENITIS IN CATTLE.
F A Ahrens
Amer J Vet Res 28(126) 1335-1342 REF
Sep 1966 41.8 AM3A
Cattle, Feeds, Histamine, Hypertonicity, Lactic acid, Rumenitis, Toxins.
- 8729-68
RADIOLOGIC FINDINGS IN EQUINE CHOKE.
J E Alexander
Amer Vet Med Ass J 151(1), 47-53.
01 Jul 1967 41.8 AM3
- Esophageal obstruction, Horses, X-rays.
- 8730-68
ADMINISTRATION OF COPPER TO LAMBS FOR PREVENTION OF DELAYED SWAYBACK POSSIBLE TOXIC EFFECTS.
R Allcroft D Buntain W T Rowlands
Vet Rec 77(22) 634
29 May 1965 41.8 V641
Copper, Lambs, Swayback.
- 8731-68
A CASE OF IDIOPATHIC HYPOPLASTIC ANAEMIA IN A TWO-YEAR-OLD THOROUGHBRED FILLY.
R K Archer W C Miller
Vet Rec 77(19) 538-541, 8 REFS., 4 TABS.
08 May 1965 41.8 V641
Anemia, Thoroughbred horses.
- 8732-68
THE ANTHELMINTIC EFFICIENCY OF HALOXON AGAINST THE ADULT AND IMMATURE STAGES OF SHEEP GASTRO-INTESTINAL NEMATODES.
J Armour P R M Brown J E N Sloan
Vet Rec 74(50) 1454-1457, 2 REFS., 4 TABS.
15 Dec 1962 41.8 V641
Anthelmintics, Nematodiasis, Sheep.
- 8733-68
FITS IN DOGS.
L Arnall
Vet Rec 77(18) 513
01 May 1965 41.8 V641
Dogs, Epilepsy.
- 8734-68
A CASE OF VERRUCOSE ENDOCARDITIS IN A PIGLET CAUSED BY AN ORGANISM OF THE ACTINOBACILLUS GENUS.
W A Ashford J F Shirlaw
Vet Rec 74(49) 1417-1418, 2 REFS.
08 Dec 1962 41.8 V641
Baby pigs, Endocarditis.
- 8735-68
HISTOPATHOLOGICAL DIAGNOSIS OF AVIAN RESPIRATORY INFECTIONS.
F D Asplin
Vet Rec 77(18) 514
01 May 1965 41.8 V641
Chickens, Respiratory diseases.
- 8736-68
DUCK HEPATITIS.
F D Asplin
Vet Rec 77(17) 487-488.
24 Apr 1965 41.8 V641
Ducks, Hepatitis, Vaccines.
- 8737-68
EFFECT OF TYLOSIN ON THE REPRODUCTIVE PERFORMANCE OF TURKEYS AND THE GROWTH RATE OF THEIR OFFSPRING.
R L Atkins C F Hall J W Bradley J H Quisenberry D I Gard
Poultry Sci 46 (3), 735-742
May 1967 47.8 AM33P
Growth factors, Reproduction, Turkeys, Tyldsin.
- 8738-68
THE USE OF A DIRECT TEST AS AN INDICATION OF SUB-CLINICAL MASTITIS IN DAIRY CATTLE.
L B Aynsley J M Buol
Vet Rec 77(14) 379-382, 4 REFS., 2 TABS.
03 Apr 1965 41.8 V641
California Mastitis Test, Dairy cattle, Mastitis.
- 8739-68
DIPLOCOCCUS PNEUMONIAE TYPE 16 IN LABORATORY RATS.
H Baer
Can J Comp Med Vet Sci 31 (9), 216-218 REF
Sep 1967 41.8 C162
Penicillin, Pneumonia, Rats, Therapeutics.
Abstract
- 8740-68
CONJUNCTIVITIS AND KERATITIS IN SHEEP ASSOCIATED WITH MORAXELLA (HAEMOPHILUS) ORGANISMS.
J R Baker W B Faull W R Ward
Vet Rec 77(14) 402, 2 REFS.
03 Apr 1965 41.8 V641
Conjunctivitis, Keratitis, Sheep.

- 8741-68
NATURALLY OCCURRING DERMATOMYCOSIS IN THE RABBIT.
K L Banks T B Clarkson
Amer Vet Med Ass J 151(7), 926-929. REF.
01 Oct 1967 41.8 AM3
Dermatitis, Fungus diseases (animals), Rabbits, Ringworm,
Trichophyton mentagrophytes.
Caused by trichophyton mentagrophytes.
Abstract
- 8742-68
INVESTIGATIONS INTO THE CAUSES OF RESPIRATORY DISEASE IN
BROILER CHICKENS.
D A Barr H P Chu L A Hemsley A G Newnham E W Trow
Vet Rec 77(15) 417-420, 6 REFS.
10 Apr 1965 41.8 V641
Chickens, Infectious bronchitis, Mycoplasmosis.
- 8743-68
MANDIBULAR DISEASE IN STOCK COCKERELS.
M Barr
Vet Rec 77(24) 677-679, 2 REFS.
12 Jun 1965 41.8 V641
Birds, Jaws.
- 8744-68
ANTIGENIC ANALYSIS OF BOVINE ENTEROVIRUSES THROUGH STUDIES
OF THE KINETICS OF NEUTRALIZATION.
M A Barya T Moll D E Mattson
Amer J Vet Res 28(126) 1283-1294 REF
Sep 1967 41.8 AM3A
Antigens, Bovine enteroviruses, Cattle, Kinetics,
Neutralization, Tissue culture.
- 8745-68
EXPERIMENTAL PSITTACOSIS AND ORNITHOSIS IN TURKEYS. II.
COMPARISON OF THE HISTOPATHOLOGY OF NINE STRAINS.
J N Beasley D E Davis J R Watkins
Avian Dis 5(1) 94-101, BIBL. 100-101
Feb 1961 41.8 AV5
Histopathology, Ornithosis, Psittacosis, Turkeys,
Virus diseases (animals).
- 8746-68
THE INCIDENCE OF INFECTIOUS AVIAN ENCEPHALOMYELITIS.
W E Beattie
Vet Rec 77(23) 659-660
05 Jun 1965 41.8 V641
Avian encephalomyelitis.
- 8747-68
SOME TOPICAL COMMENTS ON INFLUENZA IN HORSES.
W I B Beveridge
Vet Rec 77(15) 427-428, 5 REFS.
10 Apr 1965 41.8 V641
Equine influenza viruses, Horses.
- 8748-68
FURALTADONE WATER MEDICATION AGAINST NATURALLY INDUCED SAL-
MONELLA PULLORUM INFECTION IN STRESSED FLOOR-PEN BROILERS.
B W Bierer
Avian Dis 5(3) 333-336, 3 REFS.
Aug 1961 41.8 AV5
Chicken types (meat), Chicks, Fowl typhoid, Furmethanol,
Poult, Pullorum disease, Salmonella bacterins, Water.
- 8749-68
AN OSTEOLYTIC MUCOR MYCOSIS IN A PENGUIN.
C H Bigland F E Graesser K S Penniford
Avian Dis 5(3) 367-370
Aug 1961 41.8 AV5
Bones, Mucoraceae, Mucormycosis, Penguins.
- 8750-68
QUANTITATION OF SUSCEPTIBILITY OF SWINE TO INFECTION WITH
PASTEURELLA TULARENSIS.
W S Bivin A L Hogge
Amer J Vet Res 28(126) 1619-1621
Sep 1967 41.8 AM3A
Resistance, Susceptibility, Swine.
- 8751-68
EXPERIMENTAL LISTERIOSIS OF TURKEYS.
F M Bolin D F Eveleth
Avian Dis 5(3) 229-231
Aug 1961 41.8 AV5
Listeriosis, Turkeys.
- 8752-68
EXPERIMENTAL CHOLELITHIASIS IN RABBITS AS AFFECTED BY TYPES
OF DIETARY FAT.
R F Borgman F H Haselden
Amer J Vet Res 28(125), 1161-1166. REF.
Jul 1967 41.8 AM3A
Fats, Gallstones, Livestock diseases, Rabbits.
Abstract
- 8753-68
VACCINATION AGAINST NEWCASTLE DISEASE EFFECT OF DOUBLE
VACCINATION OF BROILER CHICKS.
P G Box L A Hemsley
Vet Rec 77(19) 549-551, 3 REFS., 2 TABS.
08 May 1965 41.8 V641
Chickens, Immunization, Newcastle disease.
- 8754-68
BIOLOGICAL CHARACTERISTICS OF PLAQUE VARIANTS OF RIFT VALL
FEVER VIRUS.
J J Boyle
Amer J Vet Res 28(125), 1027-1031.
Jul 1967 41.8 AM3A
Biological assay, Diethylaminoethyl dextran,
Rift VALLEY fever virus.
Abstract
- 8755-68
EQUINE INFLUENZA VIRUS VACCINE.
G C Brander B K Street G Mann
Vet Rec 77(19) 548-549, 3 REFS., 3 TABS.
08 May 1965 41.8 V641
Equine influenza vaccines, Horses.
- 8756-68
SALMONELLAE IN MEAT.
G C Brander
Vet Rec 77(23) 660, 2 REFS.
05 Jun 1965 41.8 V641
Meat, Salmonellosis.
- 8757-68
BOVINE LIPOMATOSIS.
P S Bridge F R Spratling
Vet Rec 74(48) 1357-1362, 15 REFS., 1 TAB.
01 Dec 1962 41.8 V641
Cattle, Lipomatosis.
- 8758-68
CYTOPATHOLOGIC CHANGES AND DEVELOPMENT OF INCLUSION BODIES
IN CULTURED CELLS INFECTED WITH BLUETONGUE VIRUS.
J G Browne M M Jochin
Amer J Vet Res 28(125), 1091-1105. REF.
Jul 1967 41.8 AM3A
Bluetongue virus, Cells, Inclusion bodies, Tissue culture.
Abstract
- 8759-68
COMPARISON OF SELECTED CHARACTERISTICS OF FOUR STRAINS OF
INFECTIOUS BOVINE RHINOTRACHEITIS VIRUS.
G M Buening J B Gratzek
Amer J Vet Res 28(126) 1257-1267 REF
Sep 1967 41.8 AM3A
Cattle, Infectious bovine rhinotracheitis virus,
Tissue culture.
- 8760-68
STUDIES ON AVIAN ENCEPHALOMYELITIS. III. IMMUNIZATION WITH
AN INACTIVATED VIRUS.
W K Butterfield R E Luginbuhl C F Helmboldt F W Sumner
Avian Dis 5(3) 445-450
Aug 1961 41.8 AV5
Aluminum hydroxide, Avian encephalomyelitis,
Hydracrylic acid beta-lactone.
- 8761-68
OBSERVATIONS ON THE INTRADERMAL PALPEBRAL TUBERCULIN TEST
AND AUTOPSY FINDINGS IN MONKEYS.
J E C Bywater E G Hartley D A Ruddy E T Ackerley
Vet Rec 74(49) 1414-1416, 7 REFS., 1 TAB.
08 Dec 1962 41.8 V641
Monkeys, Tuberculin test.
- 8762-68
STUDIES ON AVIAN ENCEPHALOMYELITIS. V. DEVELOPMENT AND
APPLICATION OF AN ORAL VACCINE.
B W Calnek P J Taylor M Sevoian
Avian Dis 5(3) 297-312
Aug 1961 41.8 AV5
Avian encephalomyelitis, Chickens, Viral vaccines.

BIBLIOGRAPHY

30 8763-68

- 8763-68
COMMITTEE REPORT ON A TENTATIVE PROGRAM FOR THE CONTROL OF AVIAN ENCEPHALOMYELITIS.
B W Calnek R E Luginbuhl P D Mc Kercher H Van Roekel
Avian Dis 5(3) 456-460, 14 REFS.
Aug 1961 41.8 AV5
Avian encephalomyelitis, Chickens.
- 8764-68
REGROWTH OF PRIMARY CELL CULTURES AFTER INFECTION WITH FOOT-AND-MOUTH DISEASE VIRUS.
C H Campbell
Amer J Vet Res 28 (126) 1601-1603
Sep 1967 41.8 AM3A
Calves, Cells, Culture media, Foot-and-mouth disease virus, Mice, Swine.
- 8765-68
LEIOMYOMA OF THE OESOPHAGUS IN A DOG.
J R Campbell H M Pirie
Vet Rec 77(22) 624-626, 5 REFS.
29 May 1965 41.8 V641
Esophagus, Myoma.
- 8766-68
BONE DYSTROPHY IN PUPPIES.
J R Campbell
Vet Rec 74(48) 1340-1345, 19 REFS., 3 TABS.
01 Dec 1962 41.8 V641
Dogs, Osteodystrophy.
- 8767-68
ORNITHOSIS IN TURKEYS IN ALBERTA.
H C Carlson G R Whenham C H Bigland
Avian Dis 5(1) 31-37
Feb 1961 41.8 AV5
Alberta, Ornithosis, Turkeys.
- 8768-68
CROTALARIA (SPECTABILIS) INTOXICATION IN GUINEA PIGS.
W W Carlton
Amer Vet Med Ass J 151(7), 845-855. REF.
01 Oct 1967 41.8 AM3
Crotalaria spectabilis, Feeds, Guinea pigs, Poisoning, Toxicity.
Abstract
- 8769-68
TISSUE CULTURE PROPAGATION AND PATHOLOGY OF CELO VIRUS.
T W Chomiak R E Luginbuhl C F Helmboldt
Avian Dis 5(3) 313-320
Aug 1961 41.8 AV5
Chick embryos, Chicken embryo lethal orphan virus, Tissue culture.
- 8770-68
ACID AND ALKALINE PHOSPHATASE LEVELS IN COCCIDIOSIS-INFECTED CHICKENS.
H L Chute A Zarkower D C O Meara R L Witter
Avian Dis 5(1) 107-115, BIBL. 115-116
Feb 1961 41.8 AV5
Chickens, Coccidiosis, Phosphatases.
- 8771-68
STUDIES OF AN INACTIVATED HEMOPHILUS GALLINARUM VACCINE FOR THE IMMUNIZATION OF CHICKENS AGAINST INFECTIOUS CORYZA.
D S Clark J F Godfrey
Avian Dis 5(1) 37-47
Feb 1961 41.8 AV5
Chickens, Coryza, Hemophilus, Immunization, Poults, Vaccines.
- 8772-68
GENETIC DIFFERENCES IN RESISTANCE TO NEWCASTLE DISEASE.
R K Cole F B Hutt
Avian Dis 5(2) 205-214 BIBL. 213-214
May 1961 41.8 AV5
Animal genetics, Newcastle disease.
- 8773-68
EFFECT OF PREGNANCY AND AGE ON HEMOGRAMS OF HOLSTEIN-FRIESIAN CATTLE IN A HERD WITH NO EVIDENCE OF LEUKEMIA.
G H Conner J A LaBelle J Eyster
Amer J Vet Res 28(126) 1303-1312 REF
Sep 1967 41.8 AM3A
Cattle, Hemograms, Leukemia, Pregnancy.
- 8774-68
THE DIAGNOSIS OF RESPIRATORY UNSOUNDNESS IN THE HORSE.
W R Cook
Vet Rec 77(19) 516-528, 11 REFS., 1 TAB.
- 08 May 1965 41.8 V641
Horses, Paresis, Pulmonary emphysema.
- 8775-68
FITS IN DCGS A SURVEY OF 260 CASES.
P G Croft
Vet Rec 77(16) 438-445, 8 REFS., 2 TABS.
17 Apr 1965 41.8 V641
Dogs, Epilepsy.
- 8776-68
A CASE OF PAROTID FISTULA IN A HORSE.
J A Cunningham
Vet Rec 77(24) 679-680
12 Jun 1965 41.8 V641
Horses, Salivary fistula.
- 8777-68
INFECTIOUS BOVINE RHINOTRACHEITIS (IBR)- A CLINICAL CONDITION OF CATTLE OCCURRING IN THE UNITED KINGDOM.
P S Dawson J H Darbyshire R M Loosmore A B Paterson W B Paull
Vet Rec 77(49) 1379-1383, 20 REFS., 1 TAB.
08 Dec 1962 41.8 V641
Cattle, Infectious bovine rhinotracheitis virus.
- 8778-68
TWO CASES OF CONGENITAL DIAPHRAGMATIC HERNIA IN AUSTRALIAN MERINO LAMBS.
S M Dennis M E Nairn
Vet Rec 77(26) 754, 2 REFS.
26 Jun 1965 41.8 V641
Australian Merino sheep, Diaphragmatic hernia.
- 8779-68
PATHOGENESIS OF THREE STRAINS OF BRUCELLA SUIIS IN SWINE.
B L Deyoe
Amer J Vet Res 28(125), 951-957 REF
Jul 1967 41.8 AM3A
Brucella suis, Brucellosis, Swine.
Abstract
- 8780-68
COMMENTS ON DIAGNOSIS OF ORNITHOSIS.
E M Dickinson
Avian Dis 5(3) 350
Aug 1961 41.8 AV5
Ornithosis, Poultry.
- 8781-68
OBSERVATIONS ON FELINE RESPIRATORY DISEASE IN A BREEDING COLONY.
J B Dixon
Vet Rec 77(26) 752-753, 6 REFS.
26 Jun 1965 41.8 V641
Cats, Influenza viruses.
- 8782-68
THE PATHOLOGY OF PARATYPHOID INFECTION IN THE WHITE PEKIN DUCK, PARTICULARLY THE LESIONS IN THE CENTRAL NERVOUS SYSTEM.
E Dougherty 3rd
Avian Dis 5(3) 415-430, 11 REFS., PL.
Aug 1961 41.8 AV5
Central nervous system, Pekin ducks, Salmonellosis.
- 8783-68
MORTALITY IN SWISS MICE EXPOSED TO CHLOROFORM.
R E Doyle J C Woodard A L Lewis A F Moreland
Amer Vet Med Ass J 151(7), 930-934. REF.
01 Oct 1967 41.8 AM3
Chloroform, Mice, Mortality.
Abstract
- 8784-68
SUMMARY CONCERNING AEROSOL INFECTION WITH MYCOPLASMA ALONE AND COMBINED WITH VIRUSES.
W R Dunlop G Parke R G Strout
Avian Dis 5(3) 455
Aug 1961 41.8 AV5
Aerosols, Birds, Infectious bronchitis virus, Mycoplasma gallisepticum antigens, Newcastle disease virus.
- 8785-68
METABOLISM OF DL-1,2-PROPANEDIOL-2-14-C IN A LACTATING COW.
R S Emery R E Brown A L Black
J Nutr 92 (3), 348-356 REF
Jul 1967 389.8 J82
Cattle, Ketosis, Lactation, Metabolism, Propanediol-2-14-c, DL-1,2-

BIBLIOGRAPHY

30 8808-68

- Abstract
- 8786-68
VIRUS DISEASES IN CATTLE.
W B Paull
Vet Rec 74 (50) 1479-1480
15 Dec 1962 41.8 V641
Cattle, Infectious bovine rhinotracheitis virus.
- 8787-68
SPOROTRICHOSIS IN A HORSE.
F Fishburn D C Kelley
Amer Vet Med Ass J 151(1), 45-46.
01 Jul 1967 41.8 AM3
Horses, Sporotrichosis, Sporotrichum schenckii.
- 8788-68
AORTIC INCOMPETENCE IN A DOG.
E W Fisher D Ritchie A Thomson
Vet Rec 77(18) 506-508, 3 REFS.
01 May 1965 41.8 V641
Aorta, Dogs, Endocarditis.
- 8789-68
THE EFFECT OF VIBRIO FETUS VACCINATION ON THE BREEDING EFFICIENCY OF COWS BRED TO VIBRIO FETUS-INJECTED BULLS.
A H Frank J H Bryner P A OOBerry
Amer J Vet Res 28(126) 1237-1242 REF
Sep 1967 41.8 AM3A
Breeding, Cattle, Immunization, Vibrio fetus bacterins, Vibriosis.
- 8790-68
HEMATOLOGIC SIGNS OF VITAMIN B-12 DEFICIENCY IN SWINE.
G L Frederick
Amer J Vet Res 28(126) 1447-1453 REF
Sep 1967 41.8 AM3A
Deficiency diseases, Swine, Vitamin B-12.
- 8791-68
VIRUS PARTICLES IN A LYMPHOID TUMOR OF THE CHICKEN.
T N Fredrickson H Ris C Olson
Avian Dis 5(3) 400-408, 16 REFS.
Aug 1961 41.8 AV5
Chickens, Lymph, Neoplasms.
- 8792-68
PET FOODS AND GARDEN FERTILIZERS AS SOURCES OF HUMAN SALMONELLOSIS.
N S Gailbraith C E D Taylor P Cavanaugh J G Hagan J L Patton
Vet Rec 74(50) 1468-1469, 2 REFS.
15 Dec 1962 41.8 V641
Fertilizers, Food, Salmonellosis.
Abstract from - (1962). Lancet., feb. 17th. 372.
- 8793-68
SURVIVAL OF FOOT-AND-MOUTH DISEASE VIRUS IN BOVINE HIDES.
P Gailiunas G E Cottrall
Amer J Vet Res 28(125), 1047-1053. REF.
Jul 1967 41.8 AM3A
Cattle, Foot-and-mouth disease virus, Hides.
Abstract
- 8794-68
ISOLATION OF BORDATELLA BRONCHISEPTICA FROM HORSES.
G L Gallagher
Vet Rec 77(22) 632-633, 1 REF.
29 May 1965 41.8 V641
Equine influenza, Horses, Oxytetracycline.
- 8795-68
REMOVAL OF AN INTRA-ABDOMINAL TUMOR OF A PIGEON BY RADICAL INCISION.
C P Gandall
Avian Dis 5(3) 250-252
Aug 1961 41.8 AV5
Neoplasms, Pigeons, Surgery.
- 8796-68
NEWCASTLE DISEASE VACCINATION.
J S Garside
Vet Rec 74(51) 1497-1499
22 Dec 1962 41.8 V641
Immunization, Newcastle disease vaccines.
- 8797-68
GAMMA GLOBULIN LEVELS AND NEONATAL MORTALITY IN CALVES.
C C Gay
Vet Rec 77(14) 403-404
03 Apr 1965 41.8 V641
- Calves.
- 8798-68
SALMONELLA DUBLIN INFECTION IN ADULT CATTLE.
E A Gibson
Vet Rec 74(48) 1375
01 Dec 1962 41.8 V641
Cattle, Salmonellosis.
- 8799-68
VIABILITY OF POX AND LARYNGOTRACHEITIS VACCINES.
T M Goldhaft
Avian Dis 5(2) 196-200, TABS.
May 1961 41.8 AV5
Viral vaccines.
- 8800-68
ORGANO-PHOSPHORUS WARBLE-FLY DRESSINGS.
F D T Good P Cantor
Vet Rec 77(14) 402-403
03 Apr 1965 41.8 V641
Oestridae, Trichlorfon.
- 8801-68
THE PHENOMENON OF SUPPRESSED RESPIRATORY DISEASE IN THE LITTERS OF OLDER SOWS.
R F W Goodwin
Vet Rec 77(14) 383-387, 16 REFS., 1 TAB.
03 Apr 1965 41.8 V641
Baby pigs, Respiratory diseases, Swine.
- 8802-68
URINARY METABOLITES OF 2-NAPHTHYLAMINE IN CATTLE.
D Gordon C Olson A M Pamukcu
Amer J Vet Res 28(126) 1295-1301 REF
Sep 1967 41.8 AM3A
Acetamido-6-naphthylglucuronide, 2-, Amino-1-naphthylsulfate, 2-, Amino-1-naphthylglucuronide, 2-, Carcinogens, Cattle, Chromatography, Metabolism, Naphthylamine, 2-, Neoplasms, Urine.
- 8803-68
IDENTIFICATION OF CERTAIN ESCHERICHIA COLI STRAINS ISOLATED FROM BABY PIGS IN NORTH CENTRAL UNITED STATES.
J Gossling H E Rhoades
Amer J Vet Res 28 (126) 1615-1617
Sep 1967 41.8 AM3A
Escherichia coli, Swine.
- 8804-68
FLY CONTROL IN INTENSIVE UNITS.
R C Green
Vet Rec 77(20) 577
15 May 1965 41.8 V641
Chickens, Diptera, Insecticide residues.
- 8805-68
THE DEVELOPMENT OF AIR SAC DISEASE .
W B Gross
Avian Dis 5(3) 431-439, 15 REFS.
Aug 1961 41.8 AV5
Chickens, Chronic respiratory disease, Escherichia, Infectious bronchitis virus, Mycoplasma, Newcastle disease virus, Pericarditis, Pleuropneumonia-like organisms.
- 8806-68
CASE REPORT A SYNOVITIS CAUSED BY A STRAIN OF ESCHERICHIA COLI.
W B Gross
Avian Dis 5(2) 214-218, BIBL.217-218
May 1961 41.8 AV5
Escherichia, Synovitis.
- 8807-68
CYTOPLASMIC ANTIGEN IN A LYMPHOID TUMOR OF THE CHICKEN.
M Grundboeck C Olson T N Fredrickson
Avian Dis 5(3) 392-399, 16 REFS.
Aug 1961 41.8 AV5
Antigens, Chickens, Cytoplasm, Lymph, Neoplasms.
- 8808-68
OBSERVATIONS ON STRAINS OF SALMONELLA GALLINARUM APPARENTLY RESISTANT TO FURAZOLIDONE.
C F Hall H T Cartrite
Avian Dis 5(3) 382-392, 3 REFS.
Aug 1961 41.8 AV5
Chickens, Powl typhoid, Furazolidone, Salmonella bacterins, Turkeys.

BIBLIOGRAPHY

30 8809-68

- 8809-68
EXPERIMENTAL TRANSMISSION OF BOVINE MYCOPLASMA IN CALVES AND TURKEYS.
A H Hamdy A L Trapp
Amer J Vet Res 28(125), 1013-1018. REF.
Jul 1967 41.8 AM3A
Cattle, Livestock diseases, Mycoplasma pneumoniae, Turkeys.
Abstract
- 8810-68
FLY CONTROL IN INTENSIVE UNITS.
D G Harvey W N Scott
Vet Rec 77(16) 462, 1 REF.
17 Apr 1965 41.8 V641
Chickens, Insecticide residues.
- 8811-68
A COMPARISON OF TWO METHODS USED FOR THE DETERMINATION OF BLOOD UREA IN THE DOG.
D G Harvey M A Richards
Vet Rec 77(16) 450-452, 10 REFS., 2 TABS.
17 Apr 1965 41.8 V641
Dogs, Urea, Urease test.
- 8812-68
A SURVEY OF DISEASE OUTBREAKS IN BROILER CHICKEN FLOCKS AND THEIR ECONOMIC IMPORTANCE.
L A Hemsley
Vet Rec 77(17) 473-476, 14 REFS., 4 TABS.
24 Apr 1965 41.8 V641
Avian encephalomyelitis, Chickens, Coccidiosis, Newcastle disease, Synovitis.
- 8813-68
THE CAUSES OF MORTALITY IN FOURTEEN FLOCKS OF BROILER CHICKENS.
L A Hemsley
Vet Rec 77(17) 467-472, 13 REFS., 6 TABS.
24 Apr 1965 41.8 V641
Chickens, Coccidiosis, Edema, Perosis.
- 8814-68
OSTEOCHONDROSIS OF THE SPINE IN THE FOXHOUND.
J M Hime J C Drake
Vet Rec 77(16) 445-449, 6 REFS.
17 Apr 1965 41.8 V641
English Foxhound dogs, Osteochondrosis.
- 8815-68
ANTIGENIC AND IMMUNOLOGICAL STUDIES ON SEVERAL ISOLATES OF AVIAN INFECTIOUS BRONCHITIS VIRUS.
M S Hofstad
Avian Dis 5(1) 102-107
Feb 1961 41.8 AV5
Infectious bronchitis, Virus diseases (animals), Virus isolation.
- 8816-68
URINARY CALCULI IN PUPPIES.
D G Hogger
Vet Rec 77(14) 405
03 Apr 1965 41.8 V641
Chloramphenicol, Dogs, Methenamine, Urinary calculi.
- 8817-68
A CASE OF SUSPECTED POISONING OF DAIRY COWS BY WHITE MUSTARD SEEDS (SINAPIS ALBA).
R G Holmes
Vet Rec 77(17) 480-481, 5 REFS.
24 Apr 1965 41.8 V641
Brassica hirta, Dairy cattle, Poisoning, Seeds.
- 8818-68
CRYPTOCOCCOSIS IN THE CAT.
J M Howell D Allan
Vet Rec 77(14) 401, 8 REFS.
03 Apr 1965 41.8 V641
Cats, Cryptococcosis.
- 8819-68
PATHOGENESIS OF PORCINE GASTRIC ULCERS.
W G Huber R F Wallin
Amer J Vet Res 28(126) 1455-1459
Sep 1967 41.8 AM3A
Histamine, Hydrochloric acid, Pepsin, Swine, Ulcers.
- 8820-68
A NOTE ON THE INCIDENCE OF INFECTIOUS AVIAN ENCEPHALOMYELITIS (EPIDEMIC TREMOR) IN A PEDIGREED CHICK POPULATION.
P Hunton
Vet Rec 77(21) 592-593, 5 REFS., 3 TABS.
22 May 1965 41.8 V641
Avian encephalomyelitis, Chickens.
- 8821-68
EASTERN ENCEPHALITIS VIRUS IN DUCK EMBRYO FIBROBLAST CULTURE.
J Hwang E Dougherty 3rd
Avian Dis 5(3) 321-327, 13 REFS.
Aug 1961 41.8 AV5
Ducks, Eastern encephalitis virus.
- 8822-68
THE RELATIONSHIP BETWEEN THE BLOOD GROUP LOCUS AND THE INTRADERMAL REACTION IN CHICKENS.
W P Jaffe
Vet Rec 77(14) 388-389, 8 REFS., 1 TAB.
03 Apr 1965 41.8 V641
Blood groups, Chickens, Wattles (poultry).
- 8823-68
INFLUENCE OF EGG ALBUMIN-INDUCED LEUKOPENIA ON EXPERIMENTAL AEROBACTER AEROGENES MASTITIS AND ON NATURAL INFECTION OF MAMMARY GLAND WITH COAGULASE-NEGATIVE STAPHYLOCOCCUS IN A COW.
N C Jain J Lasmanis O W Schalm
Amer J Vet Res 28(126) 1243-1250 REF
Sep 1967 41.8 AM3A
Aerobacter aerogenes, Albumins, Cattle, Leukopenia, Mammary glands, Mastitis, Staphylococcus.
- 8824-68
BLOOD CHANGES ASSOCIATED WITH LOCOWEED POISONING.
L F James W Rinns
Amer J Vet Res 28(125), 1107-1110. REF.
Jul 1967 41.8 AM3A
Astragalus, Blood, Poisoning, Sheep, Toxicity.
Abstract
- 8825-68
ABORTIVE AND TERATOGENIC EFFECTS OF LOCOWEED ON SHEEP AND CATTLE.
L F James J L Shupe W Binns R F Keeler
Amer J Vet Res 28(126) 1379-1388 REF
Sep 1967 41.8 AM3A
Abnormalities, Abortion, Astragalus, Cattle, Oxytropis, Sheep.
Toxicity of Astragalus lentiginosus, Astragalus pubentisimus, and Oxytropis sericea.
- 8826-68
FOG-FEVER. PRECIPITIN (FLH) REACTIONS TO MOULDY HAY.
P A Jenkins J Pepys
Vet Rec 77(17) 464-466, 13 REFS.
24 Apr 1965 41.8 V641
Cattle, Fog fever, Hay.
- 8827-68
ENCEPHALITIS IN HORSES IN HILLSBOROUGH COUNTY, FLORIDA, 1964.
W L Jennings R A Katheine A L Lewis J O Bond
Amer J Vet Res 28(125), 965-970. REF
Jul 1967 41.8 AM3A
Eastern equine encephalomyelitis, Epizootic diseases, Equine encephalomyelitis, Horses, Virus diseases (animals).
Abstract
- 8828-68
DEVELOPMENT OF AN ANTIGEN IN VISCERAL LYMPHOMATOSIS AND SPLENIC LYMPHOID FOCI.
T J Kakuk C Olson
Amer J Vet Res 28 (126) 1491-1499 REF
Sep 1967 41.8 AM3A
Antigens, Lymphoma, Neoplasms, Poultry, Rpl 12, Spleen, Viscera.
Regional Poultry Laboratory viral isolate 12 leukosis virus (RPL 12). East Lansing, Michigan.
- 8829-68
INFECTIOUS BOVINE RHINOTRACHEITIS-INFECTIOUS PUSTULAR VULVOVAGINITIS VIRUS INFECTION IN PREGNANT COWS.
J W Kendrick O C Straub
Amer J Vet Res 28(126) 1269-1282
Sep 1967 41.8 AM3A
Cattle, Infectious bovine rhinotracheitis virus, Infectious pustular vulvovaginitis virus, Tissue culture, Vulva.

BIBLIOGRAPHY

30 8851-68

- 8830-68
HYPERGAMMAGLOBULINEMIA IN FERRETS WITH LYMPHOPROLIFERATIVE LESIONS.
A J Kenyon E Howard L Buko
Amer J Vet Res 28(125), 1167-1172. REF.
Jul 1967 41.8 AM3A
Aleutian disease, Ferrets, Hypergammaglobulinemia, Lymph nodes.
Abstract
- 8831-68
FURTHER OBSERVATIONS CONCERNING ROUS VIRUS NEUTRALIZING ANTIBODIES AND NEOPLASIA. II. IN BREEDER AND EXPERIMENTAL FLOCKS.
S G Kenzy C F McClary D V Zander
Avian Dis 5(3) 337-346
Aug 1961 41.8 AV5
Antibodies, Chickens, Neoplasms, Rous sarcoma.
- 8832-68
THE RESPONSE OF GROWING RABBITS TO THE FEEDING OF AN ANTIBIOTIC.
J O L King
Vet Rec 74(49) 1411-1414, 8 REFS., 3 TABS.
08 Dec 1962 41.8 V641
Antibiotics, Rabbits.
- 8833-68
THE DEVELOPMENT OF RESISTANCE TO SPIRAMYCIN, STREPTOMYCIN AND CHLORTETRACYCLINE BY MYCOPLASMA GALLISEPTICUM IN CHICK EMBRYOS.
J S Kiser F Popken J Clemente
Avian Dis 5(3) 283-291
Aug 1961 41.8 AV5
Chick embryos, Chlorotetracycline, Mycoplasma gallisepticum antigens, Spiramycin, Streptomycin.
- 8834-68
USE OF FLUORESCHEIN-LABELED ANTIBODY FOR RAPID DIAGNOSIS OF TRANSMISSIBLE GASTROENTERITIS IN EXPERIMENTALLY INFECTED PIGS.
S Konishi R A Bankowski
Amer J Vet Res 28(125), 937-942 REF
Jul 1967 41.8 AM3A
Diagnosis, Fluorescein, Fluorescent antibody technic, Gastroenteritis, Swine.
Abstract
- 8835-68
UTERINE INFECTION IN BOVINE PARATUBERCULOSIS.
K E Kopecky A B Larsen R J Merkall
Amer J Vet Res 28(125), 1043-1045. REF.
Jul 1967 41.8 AM3A
Cattle, Livestock diseases, Mycobacterium paratuberculosis, Uterus.
Abstract
- 8836-68
EXPERIMENTAL ESCHERICHIA COLI DIARRHEA IN HYSTERECTOMY-DERIVED, ONE DAY-OLD, FASTING PIGS.
T T Kramer P C Mderito
Amer J Vet Res 28(125), 959-964
Jul 1967 41.8 AM3A
Diarrhea, Escherichia coli, Swine.
Abstract
- 8837-68
SEROLOGIC ANALYSIS OF BOVINE VIBRIOSIS.
K Larson L Ringen
Amer J Vet Res 28(126) 1231-1235 REF
Sep 1967 41.8 AM3A
Cattle, Serological tests, Vibrio fetus, Vibriosis.
- 8838-68
THE PLACE OF VACCINATION IN THE CONTROL OF POULTRY DISEASES.
P P Levine
Vet Rec 74(49) 1394-1398, 10 REFS.
08 Dec 1962 41.8 V641
Avian encephalomyelitis, Infectious bronchitis, Infectious laryngotracheitis, Newcastle disease, Poultry.
- 8839-68
INGUINAL HERNIA WITH ATTENDANT VESICOCELE IN THE PIG.
C J Lewis
Vet Rec 77(25) 699, 9 REFS.
19 Jun 1965 41.8 V641
Inguinal hernia, Swine.
- 8840-68
MILK FEVER IN GOATS.
J L Linzell
Vet Rec 77(26) 767-768, 1 REF.
26 Jun 1965 41.8 V641
Goats, Milk fever.
- 8841-68
CLAVICEPS FUSIFORMIS SP. NOV., THE CAUSAL AGENT OF AN AGALACTIA OF SOWS.
A R Loveless
Brit Mycol Soc Trans 50(1) 15-18, REF.
Mar 1967 451 B76
Agalactia, Claviceps fusiformis, Ergot alkaloids, Hypocreales, Pearl millet, Swine.
- 8842-68
A BRIEF REPORT ON ANATOMY, HISTOLOGY, AND REACTIVITY OF AIR SACS IN THE FOWL.
A M Lucas E M Denington
Avian Dis 5(3) 460-461
Aug 1961 41.8 AV5
Air sacs, Animal anatomy, Animal histology, Poultry.
- 8843-68
A BRIEF DISCUSSION OF NORMAL AND ABNORMAL AVIAN BLOOD CELLS.
A M Lucas E M Denington
Avian Dis 5(3) 454-455
Aug 1961 41.8 AV5
Birds, Blood cells, Erythroblasts, Granuloblasts, Lymphoblasts, Thromboplasts.
- 8844-68
THE INCIDENCE OF LEPTOSPIRAL AGGLUTINATION TITRES IN THE DOMESTIC CAT.
V M Lucke S T Crowther
Vet Rec 77(23) 647-648, 8 REFS., 1 TAB.
05 Jun 1965 41.8 V641
Cats, Leptospirosis, Nephritis.
- 8845-68
PANTOTHENIC ACID DEFICIENCY IN PIGS.
C W Maclean
Vet Rec 77(20) 578
15 May 1965 41.8 V641
Avitaminosis, Pantothenic acid, Swine.
- 8846-68
OBSERVATIONS ON ACUTE LAMINITIS OF CATTLE IN SOUTH HAMPSHIRE.
C W Maclean
Vet Rec 77(24) 662-672, 31 REFS., 7 TABS.
12 Jun 1965 41.8 V641
Cattle, England, Laminitis.
- 8847-68
THE INCIDENCE OF AVIAN ENCEPHALOMYELITIS IN A GROUP OF BROILER BREEDING FLOCKS AS DETERMINED BY THE EMBRYO SUSCEPTIBILITY TEST.
A J Macleod L A Hemsley
Vet Rec 77(18) 500-502, 5 REFS., 2 TABS.
01 May 1965 41.8 V641
Avian encephalomyelitis, Chickens.
- 8848-68
AN ABORTION DUE TO ALLESCHERIA BOYDII AND GENERAL OBSERVATIONS CONCERNING MYCOTIC ABORTIONS OF MARES.
L W Mahaffey P D Rosssdale
Vet Rec 77(19) 541-545, 13 REFS.
08 May 1965 41.8 V641
Abortion, Fungi, Horses.
- 8849-68
RESPIRATORY CONDITIONS IN HORSES.
L W Mahaffey
Vet Rec 74(47) 1295-1311, 10 REFS.
24 Nov 1962 41.8 V641
Horses, Respiratory diseases.
- 8850-68
SUR-CONJUNCTIVAL ANTIBIOSIS.
P G H Mann J E Stock
Vet Rec 77(14) 405-406
03 Apr 1962 41.8 V641
Cats, Chloramphenicol, Conjunctivitis, Dogs.
- 8851-68
CANDIDIASIS IN TURKEYS AND CHICKENS IN THE SACRAMENTO VALLEY OF CALIFORNIA.
B Mayeda

BIBLIOGRAPHY

30 8852-68

- Avian Dis 5(3) 232-243, BIBL. 241-243
Aug 1961 41.8 AV5
Antibiotics, California, Chickens, Moniliasis,
Sacramento Valley, Turkeys.
- 8852-68
WATER CHLORINATION CONTROLS PSEUDOMONAS AERUGINOSA IN A
RABBITRY.
R A McDonald A F Pinheiro
Amer Vet Med Ass J 151(7), 863-864.
01 Oct 1967 41.8 AM3
Chlorination, Coccidiosis, Pneumonia, Pseudomonas aeruginosa,
Rabbits, Sulfaguinoxaline, Water treatment.
- 8853-68
A RARE CASE OF PSEUDOHERMAPHRODITISM IN THE DOG.
R A McFeely J D Biggers
Vet Rec 77(25) 696-698, 23 REFS., 1 TAB.
19 Jun 1965 41.8 V641
Dogs, Hermaphroditism.
- 8854-68
IN VIVO DEMONSTRATION OF LABILITY OF HOG CHOLERA VIRUS TO
LIPOLYTIC AGENTS.
G E McKissick D P Gustafson
Amer J Vet Res 28(125), 909-914 REF
Jul 1967 41.8 AM3A
Chloroform, Ethyl ether, Hog cholera virus, Lipids, Vaccines.
Abstract
- 8855-68
HISTOPATHOLOGICAL CHANGES IN THE DOMESTIC PIGEON INFECTED
WITH TRICHOMONAS GALLINAE (JONES BARN STRAIN)..
C P Mesa R M Stabler M Berthrong
Avian Dis 5(1) 48-59
Feb 1961 41.8 AV5
Animal histology, Jones Barn strain, Pigeons.
- 8856-68
STUDIES ON THE DEVELOPMENT OF ANTIBODIES IN THE SERUM OF
PIGLETS EXPERIMENTALLY INFECTED BY LEPTOSPIRA CANICOLA.
S W Michna
Vet Rec 77(20) 559-566, 23 REFS., 1 TAB.
15 May 1965 41.8 V641
Antibodies, Baby pigs, Leptospirosis.
- 8857-68
EQUINE INFLUENZA. FURTHER OBSERVATIONS ON THE COUGHING
OUTBREAK, 1965.
W C Miller
Vet Rec 77(16) 455-456
17 Apr 1965 41.8 V641
Equine influenza.
- 8858-68
BORDATELLA BRONCHISEPTICA INFECTION IN HORSES.
W C Miller
Vet Rec 77(23) 658-659
05 Jun 1965 41.8 V641
Horses, Respiratory diseases.
- 8859-68
THE INCIDENCE AND SIGNIFICANCE OF BOVINE HERPESVIRUS
(INFECTIOUS BOVINE RHINOTRACHEITIS) ANTIBODIES IN THE
SERA OF ABORTING CATTLE.
D Mitchell A S Greig
Can J Comp Med Vet Sci 31 (9), 234-238 REF
Sep 1967 41.8 C162
Abortion, Antibodies, Blood serum, Cattle, Herpesviruses,
Infectious bovine rhinotracheitis virus.
Abstract
- 8860-68
STUDIES ON THE ANTIGENICITY IN TURKEYS OF AN ERYSIPELAS BAC-
TERIN MADE FROM ERYSIPELOTHRIX RHUSIOPATHIAE STRAINS H4 AND
H7.
M Mitrovic P H Matischeck L C Lynch
Avian Dis 5(3) 327-333, 7 REFS.
Aug 1961 41.8 AV5
Antigens, Erysipelas bacterins,
Erysipelothrix rhusiopathiae vaccine, Turkeys.
- 8861-68
THE CHEMOTHERAPEUTIC ACTIVITY OF 3,5-DINITROBENZAMIDE. 1.
AGAINST PARATYPHOID IN TURKEYS.
M Mitrovic P H Matischeck L C Lynch
Avian Dis 5(1) 5-10
Feb 1961 41.8 AV5
Drug therapy, Salmonellosis, Turkeys, 3,5-dinitrobenzamide.
- 8862-68
THE EFFICACY OF CERTAIN COCCIDIOSTATS AGAINST MIXED AVIAN
COCCIDIAL INFECTIONS.
W D Morrison A E Ferguson M C Connell J K McGregor
Avian Dis 5(3) 222-228
Aug 1961 41.8 AV5
Coccidiostats.
- 8863-68
ARGININE DEFICIENCY IN TWO STRAINS OF CHICKENS SELECTED FOR
DIFFERENCES IN DIETARY REQUIREMENTS OF ARGININE.
M C Nesheim D A Christensen D L Arnold
J Nutr 92 (3), 365-373 REF
Jul 1967 389.8 J82
Arginine, Chickens, Deficiency diseases.
Abstract
- 8864-68
ULCERATION OF THE PARS OESOPHAGEA OF THE PIG.
J J O'Brien J F Connolly
Vet Rec 77(20) 577, 8 REFS.
15 May 1965 41.8 V641
Swine, Ulcers.
- 8865-68
PANTOTHENIC ACID DEFICIENCY IN PIGS.
G A Oakley
Vet Rec 77(21) 610
22 May 1965 41.8 V641
Avitaminosis, Pantothenic acid, Swine.
- 8866-68
HISTOMONIASIS IN CHICKENS AGE OF GREATEST SUSCEPTIBILITY
AND PATHOGENICITY STUDIES.
T Ohara W M Reid
Avian Dis 5(3) 355-361
Aug 1961 41.8 AV5
Blackhead, Chickens.
- 8867-68
PRELIMINARY REPORT ON THE DIPPING OF HATCHING EGGS WITH AN-
TIBIOTIC SOLUTIONS FOR THE CONTROL OF PPLO INFECTION.
O M Olesiuk N K Chandiramani H Van Roekel
Avian Dis 5(3) 454
Aug 1961 41.8 AV5
Chickens, Dipping, Eggs, Pleuropneumonia-like organisms.
- 8868-68
HISTOPATHOLOGIC AND HEMATOLOGIC CHANGES IN MORIBUND STAGES
OF CHICKS INFECTED WITH T-VIRUS.
L D Olson
Amer J Vet Res 28 (126) 1501-1507
Sep 1967 41.8 AM3A
Hematology, Histopathology, Poultry, T-virus.
- 8869-68
RESISTANCE OF DAHALINIA OVIS TO DIELDRIN.
K W Page P R M Brown P Planagan
Vet Rec 77(14) 406
03 Apr 1965 41.8 V641
Anoplura, Dieldrin, Sheep.
- 8870-68
MYOPATHY IN A DONKEY.
B N J Parker
Vet Rec 77(22) 635-636
29 May 1965 41.8 V641
Asses, Myositis.
- 8871-68
JOHNE S DISEASE IN CYPRUS.
M A Petris
Vet Rec 77(17) 488-489
24 Apr 1965 41.8 V641
Cattle, Johne s disease, Tuberculin test.
- 8872-68
EQUINE DISEASES.
J P Pickering
Vet Rec 77(21) 610
22 May 1965 41.8 V641
Animal diseases, Horses.
- 8873-68
POTENCY OF AN INACTIVATED NEWCASTLE DISEASE VACCINE PRE-
PARED FROM AN AVIRULENT STRAIN OF VIRUS.
S E Piercy A J Macleod J D Blaxland
Vet Rec 74(50) 1478-1479, 7 REFS., 1 TAB.
15 Dec 1962 41.8 V641
Chicks, Newcastle disease vaccines, Newcastle disease virus.

BIBLIOGRAPHY

30 8894-68

- 8874-68
THE DIFFERENTIAL DIAGNOSIS OF ABDOMINAL DISORDERS OF THE BOVINE ANIMAL.
P J N Pinsent
Vet Rec 74(46) 1282-1291, 15 REFS.
24 Nov 1962 41.8 V641
Cattle, Diagnosis, Gastrointestinal diseases.
- 8875-68
EFFECTS OF FLUORIDE ON MAGNESIUM DEFICIENCY IN THE GUINEA PIG.
R E Pyke W G Hoekstra P H Phillips
J Nutr 92 (3), 311-316 REF
Jul 1967 389.8 J82
Calcinosis, Deficiency diseases, Dogs, Fluorides, Guinea pigs, Magnesium, Poisons, Rats.
Abstract
- 8876-68
A SUSPECTED CASE OF DUMB RABIES IN A QUARANTINE KENNEL.
P Richmond
Vet Rec 77(25) 736
19 Jun 1965 41.8 V641
Dogs, Rabies.
- 8877-68
GONADS IN HERMAPHRODITIC DUCKS A PATHOLOGIC STUDY.
R H Rigdon
Amer J Vet Res 28(125), 1125-1134. REF.
Jul 1967 41.8 AM3A
Breeding, Ducks, Gonads, Hermaphroditism, Pathology. Hybrids resulted from the mating of Muscovy and White Pekin.
Abstract
- 8878-68
IMMUNOLOGIC RESPONSE OF FOWL TO MYCOPLASMA GALLISEPTICUM AND ITS RELATIONSHIP TO LATENT INFECTION.
D H Roberts O M Olesluk H Van Roekel
Amer J Vet Res 28(125), 1135-1152. REF.
Jul 1967 41.8 AM3A
Immunology, Mycoplasma gallisepticum, Mycoplasmosis, Poultry, Resistance.
Abstract
- 8879-68
A PARALYTIC SYNDROME IN HORSES.
R S Roberts
Vet Rec 77(14) 404-405, 3 REFS.
03 Apr 1965 41.8 V641
Horses, Paralysis.
- 8880-68
SMALL CYSTIC DEGENERATION OF LIVER IN A PIG.
H Rothenbacher M O Braune
Amer J Vet Res 28 (126) 1609-1613
Sep 1967 41.8 AM3A
Cysts, Liver, Swine.
- 8881-68
ADEQUACY OF CRITERIA USED TO EVALUATE THE RESULTS OF POULTRY DISEASE RESEARCH.
W W Sadler
Avian Dis 5(3) 348-350
Aug 1961 41.8 AV5
Animal diseases, Chickens, Meat inspection, Poultry.
- 8882-68
SPIRAMYCIN IN THE TREATMENT OF INFECTIOUS SINUSITIS IN TURKEYS.
V L Sanger C Gale
Avian Dis 5(2) 201-204
May 1961 41.8 AV5
Animal diseases, Antibiotics, Birds, Sinusitis, Spiramycin, Turkeys.
- 8883-68
ATTEMPTS TO IMMUNIZE CHICKENS AND TURKEYS AGAINST NEWCASTLE DISEASE BY THE USE OF TOBACCO MOSAIC VIRUS.
V L Sanger L J Alexander C Gale J J McRitchie
Avian Dis 5(3) 362-367, 7 REFS.
Aug 1961 41.8 AV5
Chickens, Mosaic (tobacco), Newcastle disease, Turkeys.
- 8884-68
EFFECTS OF HUMORAL AND CELLULAR PHASES OF ACUTE INFLAMMATION IN THE BOVINE MAMMARY GLAND ON AEROBACTER AEROGENES INTRODUCED EN MASSE AND ON LEUKOCYTES EXISTING IN MILK.
O W Schalm J Lasmanis N C Jain
Amer J Vet Res 28(126) 1251-1256
Sep 1967 41.8 AM3A
Aerobacter aerogenes, Cattle, Leukocytes, Mammary glands, Mastitis, Milk.
- 8885-68
COMPARISON OF A BOVINE ENTEROVIRUS AND FOOT-AND-MOUTH DISEASE VIRUS.
F W Scott G E Cottral
Amer J Vet Res 28 (126) 1597-1600 REF
Sep 1967 41.8 AM3A
Antigens, Bovine enteroviruses, Cattle, Culture media, Foot-and-mouth disease virus, Serological tests.
- 8886-68
REACTIONS OF SHEEP TO CELL-CULTURE-MODIFIED FOOT-AND-MOUTH DISEASE VIRUS.
H R Seibold E Dougherty
Amer J Vet Res 28(125), 1079-1083.
Jul 1967 41.8 AM3A
Foot-and-mouth disease virus, Immunization, Sheep, Tissue culture.
Abstract
- 8887-68
USE OF SODIUM ALGINATE ADJUVANT IN IMMUNIZATION AGAINST EQUINE INFLUENZA.
I L Shechmeister T Aeschliman W G Kammlade
Amer J Vet Res 28(126) 1373-1378 REF
Sep 1967 41.8 AM3A
Equine influenza, Horses, Immunization, Sodium alginate.
- 8888-68
EFFECT OF TEREPHTHALIC ACID ON THE ACTIVITY OF CHLORTETRACYCLINE AND OXYTETRACYCLINE.
D C Shelton N O Olson
Avian Dis 5(1) 25-31
Feb 1961 41.8 AV5
Chlortetracycline, Oxytetracycline, Terephthalic acid.
- 8889-68
TWO CASES OF PHYCOMYCOTIC ULCERATION IN SHEEP.
A G H Shirley
Vet Rec 77(24) 675-677, 14 REFS.
12 Jun 1965 41.8 V641
Sheep, Ulcers.
- 8890-68
FURTHER STUDIES ON THE ERYSIPELOTHRIX INSIDIOSA TUBE AGGLUTINATION TEST.
D Sikes T J Tumlin
Amer J Vet Res 28(125), 1177-1181. REF.
Jul 1967 41.8 AM3A
Agglutination test, Diagnosis, Erysipelothrix insidiosa, Swine, Swine erysipelas, Turkeys.
Abstract
- 8891-68
EXPERIMENTAL PRODUCTION OF ANKYLOSING SPONDYLITIS IN SWINE WITH AN ISOLATE OF ERYSIPELOTHRIX INSIDIOSA OF HUMAN ORIGIN.
D Sikes
Amer J Vet Res 28(126) 1437-1445 REF
Sep 1967 41.8 AM3A
Ankylosis, Arthritis, Erysipelothrix insidiosa, Spondylosis, Swine.
- 8892-68
FURTHER STUDIES ON THE PATHOLOGIC ALTERATIONS OF TISSUE OF SWINE GIVEN REPEATED WHOLE BLOOD TRANSFUSIONS FROM SWINE WITH RHEUMATOID-LIKE ARTHRITIS.
D Sikes O Fletcher E Papp
Amer J Vet Res 28(126) 1413-1425 REF
Sep 1967 41.8 AM3A
Arthritis, Blood transfusions, Swine.
- 8893-68
COCCOBACILLI WITH HAEMOLYTIC PROPERTIES RECOVERED FROM POULTRY.
G R Smith
Vet Rec 74(51) 1515
22 Dec 1962 41.8 V641
Poultry, Virus diseases (animals).
- 8894-68
SERUM BILIRUBIN LEVELS IN EGYPTIAN BUFFALOES AND CAMELS.
M K Soliman S ElAmrousi
Vet Rec 77(22) 633
29 May 1965 41.8 V641
Bilirubin, Buffaloes, Camels, Liver.

BIBLIOGRAPHY

30 8895-68

- 8895-68
CASE REPORT GENERALIZED GRANULOMATOUS LESIONS IN CHICKENS AND WILD DUCKS CAUSED BY ASPERGILLUS SPECIES.
B L Stock
Avian Dis 5(1) 89-93
Feb 1961 41.8 AV5
Aspergillosis, Chickens, Granulomata.
- 8896-68
SANITATION AS AN APPROACH TO CONTROL OF PARATYPHOID AND PARACOLON INFECTIONS.
D E Stover
Avian Dis 5(3) 350
Aug 1961 41.8 AV5
Paracolon, Salmonellosis, Sanitation, Turkeys.
- 8897-68
SPIROCERCA LUPI INFECTION IN DOGS.
J V Tacal Jr
Vet Rec 77(15) 435-436, 3 REFS.
10 Apr 1965 41.8 V641
Anthelmintics, Dogs, Oesophagostomiasis.
- 8898-68
LIMITED STUDY WITH HAEMOPHILUS CULTURES.
L B Tennison P J Siddle
Avian Dis 5(3) 352-354
Aug 1961 41.8 AV5
Chick embryos, Haemophilus.
- 8899-68
HEMATOLOGIC SURVEY OF CATTLE ON THE ISLAND OF JERSEY, WITH REFERENCE TO THE REPORTED INCIDENCE OF LYMPHOSARCOMA (LEUKEMIA).
G H Theilen N Le Q Blampied B Harrold L S Rosenblatt
Amer J Vet Res 28(126) 1313-1318 REF
Sep 1967 41.8 AM3A
Cattle, Hematology, Leukemia, Lymphosarcoma.
- 8900-68
SUSPECTED CHRONIC COPPER POISONING IN A COW.
J R Todd H J Gribben
Vet Rec 77(18) 498-499, 9 REFS.
01 May 1965 41.8 V641
Cattle, Copper, Poisoning.
- 8901-68
EXPERIMENTAL STUDIES ON CONTROL OF TRANSMISSIBLE ENTERITIS (BLUECOMB) OF TURKEYS.
R B Truscott
Avian Dis 5(3) 440-445, 5 REFS.
Aug 1961 41.8 AV5
Bluecomb, Chloramphenicol, Enteritis, Neomycin, Oxytetracycline, Turkeys.
- 8902-68
TREATMENT OF SKIN CONDITIONS OF THE DOG AND CAT USING AMPICILLIN AND CLOXACILLIN SODIUM.
W T Turner P J Larkin
Vet Rec 77(14) 390-393, 2 REFS., 2 TABS.
03 Apr 1965 41.8 V641
Cats, Dogs, Skin diseases, Sodium.
- 8903-68
POTENTIATION OF TERRAMYCIN II. EVALUATION OF LOW DIETARY CALCIUM IN LAYING HEN DIETS.
P W Waldroup R H Harms
Avian Dis 5(3) 409-414, 7 REFS.
Aug 1961 41.8 AV5
Calcium, Chickens, Diet, Oxytetracycline, Tetracycline.
- 8904-68
DIABETES MELLITUS FOLLOWING STEROID THERAPY IN A DOG.
D Walker
Vet Rec 74(52) 1543-1545, 8 REFS., 1 TAB.
29 Dec 1962 41.8 V641
Diabetes, Dogs.
- 8905-68
THE CARRIAGE OF PATHOGENIC STAPHYLOCOCCI BY SHEEP.
W A Watson
Vet Rec 77(17) 477-480, 12 REFS., 4 TABS.
24 Apr 1965 41.8 V641
Ixodides, Sheep, Viruses.
- 8906-68
OVINE ABORTION.
W A Watson
Vet Rec 74(49) 1403-1407, 30 REFS., 4 TABS.
08 Dec 1962 41.8 V641
- Abortion, Sheep.
- 8907-68
ABORTION AND NEONATAL LOSSES IN SHEEP.
J A Watt
Vet Rec 77(23) 637-642, 16 REFS.
05 Jun 1965 41.8 V641
Abortion, Sheep.
- 8908-68
LEPTOSPIROSIS IN GREYHOUNDS.
A D Weaver
Vet Rec 74(50) 1457-1463, 39 REFS., 4 TABS.
15 Dec 1962 41.8 V641
Greyhound dogs, Leptospirosis.
- 8909-68
A DISEASE RESEMBLING BLUE TONGUE OCCURRING IN TOPI (DEMALISCUS KORRIGUM UGANDA) IN THE QUEEN ELIZABETH NATIONAL PARK, UGANDA.
E A Wells
Vet Rec 74(48) 1372-1373, 1 REF.
01 Dec 1962 41.8 V641
Foot-and-mouth disease, Wildlife.
- 8910-68
ETHYLENE OXIDE TOXICOSIS IN CHICKENS.
R B Wescott H C McDougle
Amer Vet Med Ass J 151(7), 935-938. REF.
01 Oct 1967 41.8 AM3
Eimeria tenella, Ethylene oxide, Poisoning, Poultry, Toxicity. Used for the destruction of Eimeria tenella. Abstract
- 8911-68
GEL DIFFUSION TEST IN THE DIAGNOSIS OF RINDERPEST.
G White
Vet Rec 74(50) 1477-1478
15 Dec 1962 41.8 V641
Rinderpest.
- 8912-68
THE EFFECTIVENESS OF SEVERAL TETRACYCLINES IN THE CONTROL OF AN EXPERIMENTAL PPLO (MYCOPLASMA GALLISEPTICUM) INFECTION IN CHICKENS.
A R Whitehill J S Kiser
Avian Dis 5(2) 188-195, TABS.
May 1961 41.8 AV5
Animal diseases, Antibiotics, Chickens, Mycoplasma, Mycoplasma gallisepticum, Tetracycline.
- 8913-68
TWO FURTHER CLINICAL CASES OF FELINE INFECTIOUS ANAEMIA.
G T Wilkinson
Vet Rec 77(16) 453-454, 4 REFS.
17 Apr 1965 41.8 V641
Anemia, Cats.
- 8914-68
A PERFORATING DUODENAL ULCER IN A CAT.
G T Wilkinson
Vet Rec 77(21) 594-595, 1 REF.
22 May 1965 41.8 V641
Cats, Duodenum, Ulcers.
- 8915-68
BILIRUBIN AS A CONSTITUENT OF URINARY CALCULUS.
J S Wilkinson
Vet Rec 74(46) 1279-1280
17 Nov 1962 41.8 V641
Bilirubin, Dogs, Urinary calculi.
- 8916-68
RELATIONSHIP OF AFLATOXIN TO EPIZOOTICS OF TOXIC HEPATITIS AMONG ANIMALS IN SOUTHERN UNITED STATES.
B J Wilson P A Teer G H Barney F R Blood
Amer J Vet Res 28(126) 1217-1230 REF
Sep 1967 41.8 AM3A
Aflatoxin, Aspergillus flavus, Epizootic diseases, Feed, Hepatitis, Livestock.
- 8917-68
BOVINE INFERTILITY--RESPONSE TO MANGANESE THERAPY.
J G Wilson
Vet Rec 77(17) 489-490
24 Apr 1965 41.8 V641
Cattle, Manganese, Sterility.

- 8918-68
ISOLATION OF PSITTACOSIS-LYMPHOGRANULOMA VENEREUM GROUP VIRUSES FROM THE FAECES OF CLINICALLY NORMAL CATTLE INBRI-TAIN.
M R Wilson
Vet Rec 74 (49) 1430, 6 REFS.
08 Dec 1962 41.8 V641
Cattle, Miyagawanella group viruses.
- 8919-68
CONJUNCTIVITIS IN SHEEP.
D R Wood W A Watson D Hunter
Vet Rec 77 (19) 551-552, 1 REF.
08 May 1965 41.8 V641
Chloramphenicol, Conjunctivitis, Keratitis, Sheep.
- Arthropods**
- 8920-68
A COMPARISON OF THE EFFECTIVENESS OF ALDRIN SEED TREATMENT FOR RICE WATER WEEVIL CONTROL ON WATER- AND DRILL-SEEDED RICE.
C C Bowling
J Econ Entomol 53(6) 1135-1137, 2 REFS.
Dec 1960 421 J822
Aldrin, Lissorhoptrus, Rice.
- 8921-68
FIELD TESTS IN MEXICO WITH NEW INSECTICIDES AND ARSENIC FOR CONTROL OF BOOPHILUS TICKS ON CATTLE.
R O Drummond O H Graham W P Heleney G Diamant
J Sci Food Agr 15(10) II-184-5
Oct 1964 382 S012
Arsenic, Boophilus, Carbaryl G.C. 4072, Cattle, Coumaphos, Diethyl 2-chloro-1-(2,4-dichlorophenyl)vinyl phosphate, Dioxathion, Toxaphene, Trichlorfon.
- 8922-68
EFFECTS OF TIMING AND METHOD OF APPLICATION ON EFFICIENCY OF CO-RAL SPRAYS FOR CATTLE GRUB CONTROL.
R O Drummond B Moore
J Econ Entomol 53(5) 729-731, TABS.
Oct 1960 421 J822
Cattle, Coumaphos, Texas.
- 8923-68
INSECTICIDAL CONTROL OF THE EAR TICK IN THE EARS OF CATTLE.
R O Drummond T M Whetstone S E Ernst
J Econ Entomol 60 (4) 1021-1025 REF
15 Aug 1967 421 J822
Cattle, Chemical control (insects), Coumaphos, Dursban, Ears, Insecticides, Larvae, Otobius megnini, Trichlorfon.
Abstract
- 8924-68
PRELIMINARY EVALUATION OF ANIMAL SYSTEMIC INSECTICIDES.
R O Drummond
J Econ Entomol 53(6) 1125-1127, 3 REFS., 2 TABS.
Dec 1960 421 J822
Cattle, Dothioate, Dowco 105, Ekatin, Fenthion, Hypoderma, O-(4-tert-butyl-2-chlorophenyl) O-methyl ethylphosphoramidate, O,O-diethyl bis-(4-chlorophenyl) methyl phosphorodithioate, Stauffer R-2371.
- 8925-68
SYSTEMIC AND TOPICAL INSECTICIDAL ACTIVITY OF SOME SUBSTITUTED PHOSPHATES AND PHOSPHOROTHIOATES.
A D Flynn W G Eden
J Econ Entomol 53(4) 692-693
Aug 1960 421 J822
Arthropoda, Insecticides, Phosphates, Phosphorothioates, Rabbits.
- 8926-68
THE EFFECT OF HEPTACHLOR AND TOXAPHENE ON STAND OF LADINO CLOVER.
H A Fribourg W W Stanley
J Econ Entomol 53(6) 1134-1135
Dec 1960 421 J822
Heptachlor, Ladino clover, Toxaphene.
- 8927-68
REPRODUCTIVE CAPACITY OF FEMALE BOOPHILUS ANNULATUS COLLECTED FROM CATTLE DIPPED IN ARSENIC OR COUMAPHOS.
O H Graham R O Drummond G Diamant
J Sci Food Agr 15(10) II-184-6
Oct 1964 382 S012
Arsenic, Boophilus, Cattle, Coumaphos, Reproduction.
- 8928-68
LABORATORY SCREENING OF INSECTICIDES FOR THE PREVENTION OF REPRODUCTION OF BOOPHILUS TICKS ON CATTLE.
O H Graham R O Drummond
J Sci Food Agr 15(10) II-184-4
Oct 1964 382 S012
Boophilus, Cattle, Diethoxyphosphinothioxyethyl dimethylcarbamate, 2-, Lindane, Stauffer R 3244, Telodrin.
- 8929-68
A 5-YEAR REPORT OF OBSERVATIONS IN THE JAPANESE BEETLE CONTROL AREA AT SHELDON, ILLINOIS.
W H Luckmann G C Decker
J Econ Entomol 53(5) 821-827, 3 REFS, 8 TABS.
Oct 1960 421 J822
Dieldrin, Earthworms, Illinois, Livestock, Popillia, Population, Reports.
- 8930-68
FIELD TESTS OF DICHLOROVOS, GENERAL CHEMICAL 4072, HOOKER COMPOUND 1422 AND SYNERGISED DDT AGAINST MUSCA DOMESTICA.
W Mathis H F Schoof
J Sci Food Agr 15(10) II-220-8
Oct 1964 382 S012
Dairy barns, Di-isopropylphenyl N-methylcarbamate, 3,5-, Diethyl 1-(2,4-dichlorophenyl)-2-chlorovinyl phosphate, GC 4072, Hooker Compound 1422, Methyl 2,4,5-trichlorophenyl ethylphosphoroamidate, Musca domestica.
- 8931-68
ORGANOPHOSPHORUS AND CARBAMATE INSECTICIDES AS SOIL TREATMENTS AGAINST THE EYE GNAT, HIPPELATES COLLUSOR, IN THE LABORATORY.
M S Mulla
J Econ Entomol 53(6) 1102-1107, 7 REFS., 2 FIGS.
Dec 1960 421 J822
Bayer 25141, Carbaryl, Coumaphos, Fenthion, Hippelates collusor.
- 8932-68
LOSS OF ACTIVITY OF CHLORINATED HYDROCARBON INSECTICIDES IN SOIL AS MEASURED AGAINST THE EYE GNAT, HIPPELATES COLLUSOR.
M S Mulla
J Econ Entomol 53(5) 785-787
Oct 1960 421 J822
Aldrin, Chlorine, Dieldrin, DDT, Endrin, Hippelates, Lindane.
- 8933-68
EFFECTIVENESS OF RUELENE APPLIED AS LOCALIZED POUR-ON AND AS SPRAY FOR CATTLE GRUB CONTROL.
W M Rogoff P H Kohler
J Econ Entomol 53(5) 814-817, 8 REFS.
Oct 1960 421 J822
Butyl 2-chlorophenyl methyl methylphosphoramidate, 4-tert-, Cattle, Hypoderma, Ruelene.
- 8934-68
TOXICITY TO HOUSE FLY LARVAE OF DROPPINGS FROM CHICKS GIVEN DIPTEREX-TREATED WATER.
M Sherman E Ross
J Econ Entomol 53(6) 1066-1070, 9 REFS.
Dec 1960 421 J822
Chicks, Dichlorvos, Feces, Larvae, Musca domestica, Toxicology, Trichlorfon, Water consumptive use.
- 8935-68
BIOLOGY AND CONTROL OF THE LITTLE HOUSE FLY, FANNIA CANICULARIS, IN MASSACHUSETTS.
P C Steve
J Econ Entomol 53(6) 999-1004, 13 REFS.
Dec 1960 421 J822
Diazinon, Fannia, Insect biology, Massachusetts, Parathion, Poultry.

Parasites

- 8936-68
PREPARATION AND CHARACTERIZATION OF A SOLUBLE ANAPLASMA MARGINALE ANTIGEN.
T E Amerault T O Roby
Amer J Vet Res 28(125), 1067-1072.
Jul 1967 41.8 AM3A
Anaplasma marginale, Anaplasmosis, Antigens, Cattle, Immunization.
Abstract
- 8937-68
EXPERIMENTAL INFECTIONS OF OSTERTAGIA OSTERTAGI IN CALVES RESULTS OF TWO REGIMENS OF MULTIPLE INNOCULATIONS.
N Anderson J Armour W F H Jarrett F W Jennings J S D Ritchie
Amer J Vet Res 28(125), 1073-1077.
Jul 1967 41.8 AM3A
Cattle, Nematodes, Ostertagia ostertagi, Ostertagiasis, Parasitism.
Abstract
- 8938-68
OBSERVATIONS ON A HEPATOZOON-LIKE PARASITE IN THE IMPALA.
P A Basson R M McCully R D Bigalke J W Van Niekerk
S Afr Vet Med Ass J 38(1), 12-14. REF.
Mar 1967 41.8 S08
Hepatozoon, Parasitism, Redunca arundinum.
- 8939-68
EXPERIMENTS IN IMMUNITY TO EAST COAST FEVER.
D W Brocklesby K P Bailey W F H Jarrett W B Martin
H R P Miller P Nderito G M Urquhart
Vet Rec 77(18) 512, 2 REFS.
01 May 1965 41.8 V641
Cattle, Immunization, Theileriasis.
- 8940-68
EFFICIENCY OF ALDRIN AND DIELDRIN IN THE FIELD CONTROL OF NATURAL BLOWFLY STRIKE IN SHEEP.
G M Carman
J Sci Food Agr 12(4) I-185-3
Apr 1961 382 S012
Aldrin, Calliphoridae, Dieldrin, Sheep.
- 8941-68
CAPILLARIASIS IN POULTRY.
M I Clarke
Vet Rec 74(49) 1431-1432, 3 REFS., 2 TABS.
08 Dec 1962 41.8 V641
Capillaria, Poultry.
- 8942-68
GASTRO-INTESTINAL PARASITES IN PIGS.
J B Davidson L F Taffs
Vet Rec 77(14) 403, 2 REFS.
03 Apr 1965 41.8 V641
Oesophagostomiasis, Piperazine, Strongylosis, Swine.
- 8943-68
RELATIONSHIP OF ELECTROPHORETIC MOBILITY TO THE SIALIC ACID CONCENTRATION OF ERYTHROCYTES IN BOVINE ANAPLASMOSIS.
A R Dommert G T Dimopoulos
Amer J Vet Res 28(125), 1173-1177. REF.
Jul 1967 41.8 AM3A
Anaplasmosis, Cattle, Erythrocytes, Sialic acids.
Abstract
- 8944-68
THE ESTABLISHMENT OF OSTERTAGIA SPP. IN LAMBS PREVIOUSLY INFECTED WITH TRICHOSTRONGYLUS AXEI.
N E Downey
Vet Rec 74(47) 1321, 7 REFS.
24 Nov 1962 41.8 V641
Immunity, Lambs, Ostertagiasis, Trichostrongylosis.
- 8945-68
FIELD TESTS WITH INSECTICIDES FOR CONTROL OF LONE STAR TICKS ON CATTLE.
R O Drummond B Moore M J Wrich
J Sci Food Agr 12(4) I-185-1
Apr 1961 382 S012
Amblyomma, Carbaryl, Cattle, Lindane, Malathion, Ronnel, Toxaphene.
- 8946-68
USE OF PYRETHRUM TO CONTROL THE BLUE TICK BOOPHILUS DECOLORATUS, KOCH. ON CATTLE.
G D Glynn Jones
J Sci Food Agr 12(4) I-185-2
Apr 1961 382 S012
Boophilus, Cattle, Pyrethrum.
- 8947-68
A NEW TAENIACIDE, BUNAMIDINE HYDROCHLORIDE ITS EFFICIENCY AGAINST TAENIA PISIFORMIS AND DIPYLIDIUM CANINUM IN THE DOG AND HYDATIGERA TAENIAFORMIS IN THE CAT.
C J Hatton
Vet Rec 77(15) 408-411, 2 REFS., 5 TABS.
10 Apr 1965 41.8 V641
Cats, Dipylidiasis, Dogs, Nematocides, Taeniasis.
- 8948-68
POTENTIATION OF SUCCINYLCOLINE BY ORGANOPHOSPHATE COMPOUNDS IN HORSES.
J A Hines G T Edds W W Kirkham F C Neal
Amer Vet Med Ass J 151(1), 54-59 REF.
01 Jul 1967 41.8 AM3
Anthelmintics, Naphthalimide, Organophosphorus compounds, Potentiation, Succinylcholine chloride, Trichlorfon.
Abstract
- 8949-68
THE TREATMENT OF COCCIDIAL INFECTIONS IN FOWL BY A MIXTURE OF AMPROLIUM AND SULFAQUINOXALINE IN THE DRINKING WATER.
C Horton-Smith P L Long
Vet Rec 77(21) 586-591, 17 REFS., 4 TABS.
22 May 1965 41.8 V641
Birds, Coccidiosis, Sulfaquinoxaline.
- 8950-68
GASTROINTESTINAL PARASITES IN PIGS.
D E Jacobs
Vet Rec 77(16) 461-462, 4 REFS., 1 TAB.
17 Apr 1963 41.8 V641
Gastrointestinal system, Helminthiasis, Swine.
- 8951-68
EFFECTS OF ESTROGENS UPON ANAPLASMA MARGINALE INFECTION IN SPLENECTOMIZED CATTLE.
G Klaus E W Jones I O Kliever
Amer J Vet Res 28(125), 1033-1036. REF.
Jul 1967 41.8 AM3A
Anaplasma marginale, Anaplasmosis, Cattle, Estrogens, Parasitism, Resistance, Reticuloendothelial system, Spleen.
Abstract
- 8952-68
CONTROLLED TEST OF ANTHELMINTIC ACTIVITY OF TRICHLORFON AND THIABENDAZOLE IN LAMBS, WITH OBSERVATIONS ON OESTRUS OVIS.
E T Lyons J H Drudge F W Knapp
Amer J Vet Res 28(125), 1111-1116. REF.
Jul 1967 41.8 AM3A
Anthelmintics, Helminthiasis, Nematodes, Oestrus ovis, Parasitism, Sheep, Thiabendazole, Trichlorfon.
Moniezia sp was not removed by either compound.
Abstract
- 8953-68
THE EFFECT OF THIABENDAZOLE ON THE GROWTH OF WORM FREE LAMBS.
P D Penning C R W Spedding
Vet Rec 77(24) 690-692, 1 REF., 2 TABS.
12 Jun 1965 41.8 V641
Benzimidazole, Germ-free life, Helminthiasis, Lambs.
- 8954-68
CONTROL OF NORTHERN FOWL MITE IN COMMUNITY WIRE CAGES WITH MALATHION IN SPECIAL DUST-BATH BOXES.
J L Rodriguez Jr L A Riehl
J Sci Food Agr 12(3) I-138-1
Mar 1961 382 S012
Birds, Malathion, Mites.
- 8955-68
THE RESTED PASTURE AS A SOURCE OF LUNGWORM AND GASTRO-INTES-TINAL WORM INFECTION FOR LAMBS.
J H Rose
Vet Rec 77(26) 749-752, 16 REFS., 2 TABS.
26 Jun 1965 41.8 V641
Pastures, Sheep, Verminous bronchitis.

- 8956-68
CONTINUOUS LOW-LEVEL FEEDING OF THIABENDAZOLE TO CONTROL
HELMINTHIASIS IN LAMBS.
D B Ross
Vet Rec 77(24) 672-674, 3 REFS., 2 TABS.
12 Jun 1965 41.8 V641
Lambs, Phenothiazine.
- 8957-68
STRATEGIC ANTEHELMINTIC MEDICATION OF EWES.
M M H Sewell
Vet Rec 77(14) 401, 3 REFS.
03 Apr 1965 41.8 V641
Anthelmintics, Sheep.
- 8958-68
MORPHOLOGIC AND HISTOCHEMICAL NATURE OF ANAPLASMA
MARGINALE.
C F Simpson J M Kling J N Love
Amer J Vet Res 28(125), 1055-1065. REF.
Jul 1967 41.8 AM3A
Anaplasma marginale, Babesia canis, Electron microscopy,
Hemobartonella felis, Histochemistry, Morphology, Parasitism.
Abstract
- 8959-68
MASS PRODUCTION OF SCREW-WORMS (CALLITROGA HOMINIVORAX) FOR
THE ERADICATION PROGRAM IN THE SOUTHEASTERN STATES.
C I Smith
J Econ Entomol 53(6) 1110-1116
Dec 1960 421 J822
Callitroga, Livestock, Southeastern United States.
- 8960-68
DIAGNOSIS OF TRICHOMONAS FOETUS INFECTION IN BULLS.
R Todorovic S H McNutt
Amer J Vet Res 28 (126) 1581-1590 REF
Sep 1967 41.8 AM3A
Cattle, Milk, Trichomonas foetus, Trichomoniasis.
- 8961-68
FIELD TRIAL WITH AN ORGANOPHOSPHORUS COMPOUND AGAINST WARBLE
FLY LARVAE IN CATTLE.
D D Unwin
Vet Rec 77(21) 593-594, 7 REFS., 1 TAB.
22 May 1965 41.8 V641
Cattle, Penthion, Oestridae.
- 8962-68
BLACK DISEASE OF SHEEP OBSERVATIONS ON THE DISEASE IN
MID-WALES.
B M Williams
Vet Rec 74(52) 1536-1543, 5 REFS., 4 TABS.
29 Dec 1962 41.8 V641
Black disease, Sheep.
- 8963-68
CARDIOPULMONARY VALUES IN NORMAL AND HEARTWORM-INFECTED
DOGS.
D A Yarns R J Tashjian
Amer J Vet Res 28(126) 1461-1473 REF
Sep 1967 41.8 AM3A
Dirofilaria immitis, Dogs.

40 COMMODITY PROTECTION

- 8964-68
TESTING OF PAPER AND OTHER SACK MATERIALS FOR PENETRATION BY
INSECTS WHICH INFEST STORED PRODUCTS.
P M Davey T G Amos
J Sci Food Agr 12(6) I-299-1
Jun 1961 382 S012
Bags, Paper, Sitophilus, Stored products, Tribolium.
- 8965-68
FOLIAR SPRAYS ON OATS WITH NITROGEN.
G Krzysch W Eberhardt
J Sci Food Agr 12(1) I-4-1
Jan 1961 382 S012
Crop yields, Nitrogen, Oats, Spraying, Urea.
- 8966-68
POTATO SPROUT INHIBITING KEEPS CUSTOM-FOGGER ACTIVE.
F Reeve
Agr Chem 19(7) 51-54
Jul 1964 381 AG8
Plant growth inhibitors, Potatoes.

Storage Diseases

- 8967-68
CONTROL OF CARROT STORAGE DISEASES WITH SODIUM O-PHENYL-
PHENATE.
A D Hoadly
J Sci Food Agr 15(9) II-129-6
Sep 1964 382 S012
Carrots, O-phenylphenate sodium, Storage diseases.
- 8968-68
GLOEOSPORIUM MUSARUM, CKE. + MASSEE CAUSING STORAGE ROTS
OF JAMAICAN BANANAS. III. CONTROL WITH SODIUM SALICYL-
ANILIDE (SHIRLAN WS) AND NYSTATIN.
D S Meredith
J Sci Food Agr 12(6) I-281-1
Jun 1961 382 S012
Bananas, Gloeosporium, Nystatin, Shirlan WS, Storage diseases.
- 8969-68
GLOEOSPORIUM MUSARUM, CKE. 3 MASSEE, CAUSING STORAGE ROTS
OF JAMAICAN BANANAS I. ANTHRACNOSE AND ITS CHEMICAL
CONTROL.
D S Meredith
J Sci Food Agr 12(1) I-19-1
Jan 1961 382 S012
Anthracnose (bananas), Bananas, Nystatin.

Arthropods

- 8970-68
PRELIMINARY EVALUATION OF LINDANE AND HEPTACHLOR CRYSTALS
FOR PROTECTION OF CRATED FURNITURE AGAINST INSECT DAMAGE.
R E Bry L L McDonald D P Davis
J Econ Entomol 53(5) 966-967, 2 REFS.
Oct 1960 421 J822
Furniture, Heptachlor, Lindane.

BIBLIOGRAPHY

40 8971-68

8971-68

RELATION OF MOISTURE CONTENT AND TEMPERATURE OF STORED GRAIN TO THE EFFECTIVENESS OF GRAIN FUMIGANTS UNDER FORCED CIRCULATION.

D L Lindgren L E Vincent
J Sci Food Agr 12(5) I-224-7
May 1961 382 S012

Carbon tetrachloride, Corn, Humidity, Hydrocyanic acid, Methyl bromide, Temperature, Tribolium, Wheat.

8972-68

THE RELATION OF MOISTURE CONTENT AND TEMPERATURE OF STORED GRAIN TO THE EFFECTIVENESS OF GRAIN FUMIGANTS UNDER FORCED CIRCULATION.

D L Lindgren L E Vincent
J Econ Entomol 53(6) 1071-1077, 5 REFS., 3 FIGS., 1 TAB.
Dec 1960 421 J822

Carbon tetrachloride, Corn, Hydrocyanic acid, Methyl bromide, Sitophilus, Tribolium, Wheat.

8973-68

EFFECTS OF LOW DOSES OF ETHYLENE DIBROMIDE ON SOME STAGES OF THE CONFUSED FLOUR BEETLE, TRIBOLIUM CONFUSUM.

S R Loschiavo
J Econ Entomol 53(5) 762-767
Oct 1960 421 J822

Eggs, Ethylene dibromide, Flour, Stored products, Tribolium.

8974-68

THE DEGRADATION OF MALATHION ON STORED MAIZE AND WHEAT GRAINS.

D G Rowlands
J Sci Food Agr 15(12) 824-829, 16 REFS.
Dec 1964 382 S012

Corn, Decomposition, Malathion, Storage, Wheat.

8975-68

MALATHION SPRAYS FOR REDUCING DRIED-FRUIT PACKING HOUSE INFESTATIONS.

P Simmons
J Econ Entomol 53(5) 969-970
Oct 1960 421 J822

Grain, Insects, Malathion, Raisins, Stored products.

8976-68

EXPERIMENTS TO EXCLUDE DROSOPHILA FROM DRIED FRUIT.

P Simmons
J Sci Food Agr 12(4) I-207-4
Apr 1961 382 S012

Diptera, Drosophila, Fans, Fruit.

8977-68

EXPERIMENTS TO EXCLUDE DROSOPHILA FROM DRIED FRUIT.

P Simmons
J Econ Entomol 53(5) 969
Oct 1960 421 J822

Drosophila, Grapes, Pyrethrum, Raisins, Stored products.

8978-68

MALATHION SPRAYS FOR REDUCING DRIED-FRUIT PACKING-HOUSE INFESTATIONS.

P Simmons
J Sci Food Agr 12(4) I-207-5
Apr 1961 382 S012

Dried food, Insects, Malathion.

8979-68

MALATHION AGAINST LEAD CABLE BORERS.

P Simmons
J Econ Entomol 53(5) 968
Oct 1960 421 J822

Malathion, Raisins, Scobicia.

8980-68

RESPONSES OF RAISIN MOTH LARVAE TO RESIDUES OF SIX INSECTICIDAL SPRAYS.

P Simmons
J Econ Entomol 53(5) 975-976
Oct 1960 421 J822

Chlordane, DDT, Ephestia, Lindane, Malathion, Piperonyl butoxide, Pyrethrum, Raisins, Residues.

8981-68

THE EFFECTIVENESS OF SEVIN-SESAMEX COMBINATIONS AGAINST ADULT FLOUR BEETLES (TRIBOLIUM SPP.).

J Econ Entomol 53(5) 974, 1 REP.
Oct 1960 421 J822

Carbaryl, Flour, Malathion, Sesamex, Tribolium.

Rodents and Other Pests

8982-68

CONTROL OF ROOT-KNOT NEMATODES ON HOPS.

A R Maggenti W H Bart
J Sci Food Agr 15(9) II-129-7
Sep 1964 382 S012

Hexanedithiol diacetate, 1,6-, Hops, Hot water treatment (plants), Plant nematodes.

Microbial Contamination

8983-68

BIPHENYL RESISTANCE IN PENICILLIUM DIGITATUM IN CALIFORNIA LEMON PACKING HOUSES.

P R Harding Jr
J Sci Food Agr 15(9) 2I-133-8
Sep 1964 382 S012

Biphenyl, Formaldehyde, Lemons, Penicillium, Phenylphenate sodium, 0-.

50 ENVIRONMENTAL CONTAMINATION

- 8984-68
GRADY COMMITTEE WORKSHOPS STUDY GOOD HOUSEKEEPING PRACTICES.
Agr Chem 20(7) 20-21,88
Jul 1965 381 AG8
Education, Legislation, Pesticide residues.
- 8985-68
COMMUNICATIONS WITH BEEKEEPERS HELPS AVOID CONTROVERSY OVER
SPRAYING.
Agr Chem 17(11) 34-35, 163
Nov 1962 381 AG8
Bees, Pesticides, Spraying.
- 8986-68
CARELESSNESS CITED AS FACTOR IN DISEASES ATTRIBUTED TO PES-
TICIDES.
Agr Chem 17(5) 55-59, 103
May 1962 381 AG8
Accident prevention, Mevinphos, Occupational diseases,
Phorate, Poisoning.
- 8987-68
THE PUBLIC HEALTH SERVICE AND PESTICIDES.
Agr Chem 20(7) 46,48,88
Jul 1965 381 AG8
Pest control, Pesticide residues, Public health,
Public health administration.
- 8988-68
INTERFERENCE WITH THE BIOLOGICAL CONTROL OF COTTONY-CUSHION
SCALE BY INSECTICIDES AND ATTEMPTS TO RE-ESTABLISH A
FAVOURABLE NATURAL BALANCE.
B R Bartlett C P Lagace
J Sci Food Agr 12(5) I-227-4
May 1961 382 S012
Biological control (insects), Icerya.

55 RESIDUES

- 8989-68
VELSICOL SCORES PUBLIC HEALTH SERVICE FOR ITS CONDUCT OF
FISHKILL CONFERENCE.
Agr Chem 19(9) 57-59,169-170
Sep 1964 381 AG8
Fishkill, Pesticide residues.
- 8990-68
DETERMINING SMALL AMOUNTS OF DDT IN FLOUR AND OTHER
FOODSTUFFS.
J Sci Food Agr 12(4) I-186-1
Apr 1961 382 S012
DDT , Flour, Pesticide residues.
- 8991-68
WILDLIFE LOSSES.
Agr Chem 17(4) 61-62
Apr 1962 381 AG8
Arsenic compounds, Fish, Insecticides, Pesticide residues,
Toxaphene.
- 8992-68
VELSICOL QUESTIONS FISH KILL EVIDENCE.
Agr Chem 19(7) 43
Jul 1964 381 AG8
Chromatography, Dieldrin, Fishkill, Pesticide residues.
- 8993-68
- 8995-68
PESTICIDE CONTROL OFFICIALS SEEK UNIFORMITY IN REGULATIONS.
Agr Chem 17(7) 18, 77-78
Jul 1962 381 AG8
Labeling, Legislation, Pesticides.
- 8996-68
INSECTICIDE RESIDUES ON TOMATOES PROBED.
Agr Chem 20(5) 95
May 1965 381 AG8
Insecticide residues, Tomatoes.
- 8997-68
EMPHASIS ON CONTROLLING RESIDUES ADDS TO IMPORTANCE OF RE-
DUCING DRIFT.
Agr Chem 17(4) 55-56
Apr 1962 381 AG8
Aerial dusting, Pesticide residues, Wildlife.
- 8998-68
ACS PLANS DISCUSSION ON EFFECT OF PESTICIDE RESIDUES.
Agr Chem 18(9) 113
Sep 1963 381 AG8
Fertilizers, Pesticide residues.
- 8999-68
NATIONAL ACADEMY OF SCIENCES CRITICAL OF ZERO TOLERANCE
CONCEPT.
Agr Chem 20(8) 16-17
Aug 1965 381 AG8
Pesticide application, Pesticide residues.
- 9000-68
DDT IS SHOWN TO PERSIST IN WOOD.
Agr Chem 17(6) 72B
Jun 1962 381 AG8
DDT , Pesticide residues, Wood.
- 9001-68
SAFETY GUIDES ACCOMPANY SHELL PESTICIDE SHIPMENTS.
Agr Chem 17(7) 29-30
Jul 1962 381 AG8
Accident prevention, Labeling, Pesticides.
- 9002-68
CALIFORNIA HEARINGS CONSIDER PETITION TO BAN APPLICATIONS OF
SEVIN DUSTS.
Agr Chem 17(5) 28, 103
May 1962 381 AG8
Bees, Carbaryl, Dusting, Milk, Pesticide residues.

BIBLIOGRAPHY

55 9003-68

- 9003-68
PHS STUDY OF PESTICIDES AND HEALTH BEGINS.
R J Anderson O Sussman R P Kandle M A Clark C I Smith
Agr Chem 20(4) 91
Apr 1965 381 AG8
Human diseases, Pesticides, Public health.
- 9004-68
ANALYSIS OF ENDRIN RESIDUES IN FLOUR BY INFRA-RED SPECTROSCOPY.
A N Bates
J Sci Food Agr 12(3) I-139-2
Mar 1961 382 S012
Endrin, Flour, Insecticide residues, Spectroscopy.
- 9005-68
SOIL RESIDUES FROM HERBICIDES.
R Behrens
Agr Chem 17(7) 34, 78-79
Jul 1962 381 AG8
Atrazine, Dalapon, Herbicides, Monuron, Soils.
- 9006-68
INFRA-RED DETERMINATION OF ALDRIN AND DIELDRIN IN ALDRIN-TREATED SOIL.
R C Blinn F A Gunther Ms Mulla
J Sci Food Agr 12(5) I-224-2
May 1961 382 S012
Aldrin, Dieldrin, Infrared rays, Insecticide residues, Soils.
- 9007-68
INFRARED DETERMINATION OF ALDRIN AND DIELDRIN IN ALDRIN-TREATED SOIL.
R C Blinn F A Gunther M S Mulla
J Econ Entomol 53(6) 1129-1131, 8 REFS., 2 FIGS.
Dec 1960 421 J822
Aldrin, Dieldrin, Infrared rays, Residues.
- 9008-68
ABSORPTION OF 1,2-DIBROMOETHANE BY ORANGES AND BY MATERIALS USED IN THEIR FUMIGATION.
I M Coggiola F E Huelin
J Sci Food Agr 15(10) II-205-4
Oct 1964 382 S012
Dibromoethane, 1,2-, Fumigation, Oranges.
- 9009-68
EFFECTS OF FUNGICIDES ON THE FLAVOUR OF FRUITS AND SYRUPS.
A Crang G M Clarke
J Sci Food Agr 12(6) I-292-1
Jun 1961 382 S012
Captan, Dicofol, Fruits, Pesticide residues, Syrups, Thiram.
- 9010-68
TESTING MILK FOR ANTIBIOTIC RESIDUES.
R J M Crawford J H Galloway
J Sci Food Agr 15(9) II-155-5
Sep 1964 382 S012
Antibiotics, Biological assay, Cheese, Milk, Yogurt.
- 9011-68
STATISTICAL STUDY OF PARATHION AND DDT RESIDUES ON APPLES.
R J Daum
J Sci Food Agr 12(3) I-144-1
Mar 1961 382 S012
Apples, DDT, Insecticide residues, Parathion.
- 9012-68
KNOWLEDGE OF BASIC PESTICIDE FACTS CAN HELP COUNTERACT FALSE PROPAGANDA.
G C Decker
Agr Chem 17(3) 20-21, 2 TABS.
Mar 1962 381 AG8
DDT, Pesticide residues, Pesticides.
- 9013-68
CONTAMINATION OF FLOUR BY INSECTICIDAL LACQUERS CONTAINING ENDRIN AND DIELDRIN.
C E Dyte P S Tyler
J Sci Food Agr 12(3) I-139-1
Mar 1961 382 S012
Dieldrin, Endrin, Flour, Insecticide residues.
- 9014-68
PERSISTENCE OF BHC, LINDANE, AND THIODANE RESIDUES WHEN APPLIED TO ALFALFA TO CONTROL THE MEADOW SPITTLEBUG.
J E Fahey M C Wilson H W Rusk
J Econ Entomol 53(5) 960-961, 2 REFS.
Oct 1960 421 J822
Alfalfa, Benzene hexachloride, Endosulfan, Lindane, Philaenus, Residues.
- 9015-68
PERSISTENCE OF BHC, LINDANE AND THIODAN RESIDUES WHEN APPLIED TO LUCERNE TO CONTROL MEADOW SPITTLEBUG.
J E Fahey M C Wilson H W Rusk
J Sci Food Agr 12(4) I-169-7
Apr 1961 382 S012
Alfalfa, Benzene hexachloride, Endosulfan, Insecticide residues, Lindane, Philaenus.
- 9016-68
AS THE DUST SETTLES. A LOOK AT PESTICIDES.
D E Ferguson
Agr Chem 20(11) 25-26, 106
Nov 1965 381 AG8
DDT, Pesticide residues, Pesticides.
- 9017-68
RESIDUES OF HEPTACHLOR EPOXIDE AND TELODRIN IN MILK FROM COWS FED AT PARTS-PER-BILLION LEVELS OF INSECTICIDES.
D D Hardee N H Sutenmann G I Keenan G G Gyrisco D J Lisk F H Fox G W Trimberger R F Holland
J Sci Food Agr 15(10) II-198-5
Oct 1964 382 S012
Heptachlor epoxide, Insecticide residues, Milk, Telodrin.
- 9018-68
INSECT CONTROL AND RESIDUES IN SWEET CORN USING GROUND EQUIPMENT FOR TREATING WITH LOW-VOLUME FORMULATIONS.
E A Harrell J R Young M C Bowman W W Hare
J Econ Entomol 60 (4) 988-991
15 Aug 1967 421 J822
Chemical control (insects), Heliothis zea, Insecticidal aerosols, Insecticide application, Low-volume spraying, Pesticide residues, Spodoptera frugiperda, Spraying equipment, Sweetcorn. Abstract
- 9019-68
EFFECTS OF SOME FUNGICIDES ON THE FLAVOUR OF CANNED STRAW-BERRIES.
G W Hope
J Sci Food Agr 15(10) II-194-5
Oct 1964 382 S012
Captan, Fungicide residues, Phaltan, Strawberries, Taste, Thylate.
- 9020-68
DDT RESIDUES ON NEW YORK DAIRY FARMS FOLLOWING THE GYPSY MOTH ERADICATION PROGRAM.
E W Huddleston G G Gyrisco D J Lisk
J Econ Entomol 53(6) 1019-1021, 2 REFS., 5 TABS.
Dec 1960 421 J822
DDT, Eggs, Milk, New York, Porthetria.
- 9021-68
DDT RESIDUES ON NEW YORK DAIRY FARMS FOLLOWING THE GYPSY MOTH ERADICATION PROGRAMME.
E W Huddleston G G Gyrisco D J Lisk
J Sci Food Agr 12(5) I-223-5
May 1961 382 S012
DDT, Eggs, Hay, Insecticide residues, Milk, Porthetria.
- 9022-68
SAMPLING EXPERIMENTAL PLOTS OF ALFALFA FOR INSECTICIDE RESIDUES.
E W Huddleston K H Thompson G G Gyrisco D J Lisk
J Econ Entomol 53(6) 1078-1080, 4 REFS., 3 TABS.
Dec 1960 421 J822
Alfalfa, Insecticides, Residues, Sampling (statistics).
- 9023-68
SAMPLING LUCERNE FOR THE DETERMINATION OF INSECTICIDE RESIDUES.
E W Huddleston
J Sci Food Agr 12(3) I-125-9
Mar 1961 382 S012
Alfalfa, Insecticide residues.
- 9024-68
SAMPLING EXPERIMENTAL PLOTS OF LUCERNE FOR INSECTICIDAL RESIDUES.
E W Huddleston K H Thompson G G Gyrisco D J Lisk T W Kerr Jr 6
J Sci Food Agr 12(5) I-223-4
May 1961 382 S012
Alfalfa, Insecticide residues.

BIBLIOGRAPHY

55 9046-68

- 9025-68
RESIDUES OF CL36-CHLOROPROPHAM ON POTATOES.
A Jenner K Sieber
J Sci Food Agr 15 (11) II-260-4
Nov 1964 382 S012
Chloroprophan, Potatoes, Radioisotopes.
- 9026-68
RESIDUES OF CHLORINATED HYDROCARBONS IN MILK.
F Kiermeier A Ganz G Wildbrett
J Sci Food Agr 15 (11) II-264-2
Nov 1964 382 S012
Chlorinated hydrocarbons, Milk, Pesticide residues.
- 9027-68
THE PESTICIDE RESIDUE PROBLEM FROM THE PDA S POINT OF VIEW.
J K Kirk
Agr Chem 19 (10) 22-23,90-91
Oct 1964 381 AG8
Dieldrin, DDT, Endrin, Lindane, Pesticide residues.
- 9028-68
FUNGISTATIC EFFECRS OF LIGNIN, LIGNIN MONOMERS AND MODEL
SUBSTANCES.
B T Lingappa J L Lockwood
J Sci Food Agr 12 (4) I-168-3
Apr 1961 382 S012
Fungi, Lignin, Pesticide residues.
- 9029-68
DETERMINATION OF 2,6-DICHLORO-4-NITROANILINE IN DITRANIL AND
FUNGICIDAL FORMULATIONS BY INFRA-RED SPECTROSCOPY.
P G Marshall
J Sci Food Agr 12 (6) I-282-10
Jun 1961 382 S012
Dichloro-4-nitroaniline, Ditranyl, Pesticide residues,
Spectroscopy.
- 9030-68
CSMA SPEAKERS OUTLINE PROGRESS IN CONTROL OF LAWN AND
HOUSEHOLD PESTS.
W E McCauley M M Darley W C Haskett H M Day
Agr Chem 20 (6) 85
Jun 1965 381 AG8
Dichlorvos, Insect control, Weed control.
- 9031-68
ESTERASE INHIBITION TECHNIQUE FOR DETECTION OF ORGANOPHOS-
PHORUS PESTICIDES. II. SIMPLIFIED VERSION FOR ROUTINE
CHECKING.
W P McKinley P S Johal
J Sci Food Agr 15 (10) II-223-10
Oct 1964 382 S012
Esterases, Liver extracts, Pesticide residues,
Phosphorus compounds.
- 9032-68
IDENTIFICATION OF PESTICIDE RESIDUES IN EXTRACTS OF FRUIT,
VEGETABLES AND ANIMAL FATS III. METABOLITES OF CHLORINATED
HYDROCARBON PESTICIDES IN ANIMAL DEPOT-FAT.
W P McKinley H C Grice
J Sci Food Agr 12 (4) I-192-1
Apr 1961 382 S012
Dicofol, DDT, Fats, Pesticide residues, TDE, Vegetables.
- 9033-68
CAREFUL APPLICATION PAYS OFF BY REDUCING DRIFT AND RESIDUE
PROBLEMS.
E Meier
Agr Chem 17 (3) 63-66, 112-113
Mar 1962 381 AG8
Aerial dusting, Legislation, Pesticide application,
Pesticide residues.
- 9034-68
PERSISTENCE OF TRITHION, AN ORGANOPHOSPHORUS INSECTICIDE, I
SOIL.
J J Menn G G Patchett G H Batchelder
J Sci Food Agr 12 (5) I-223-1
May 1961 382 S012
Carbophenothion, Pesticide residues, Soils.
- 9035-68
DDT RESIDUE STUDIES ON PEPPERS.
R E Menzer P P Burbutis R N Hofmaster L P Ditman
J Sci Food Agr 12 (1) I-20-4
Jan 1961 382 S012
DDT, Pesticide residues, Redpeppers (vegetable).
- 9036-68
ORGANIC CHLORINE INSECTICIDE RESIDUES IN WILD BIRDS.
N W Moore C H Walker
J Sci Food Agr 15 (9) II-161-3
Sep 1964 382 S012
Birds, Eggs, Insecticide residues, Metabolites.
- 9037-68
CURRENT PESTICIDE RESIDUE PROBLEMS CALL FOR LIASON WITH REG-
ULATORY OFFICIALS.
H Moras
Agr Chem 19 (12) 26-27,98
Dec 1964 381 AG8
Alfalfa, Labeling, Milk, Pesticide residues, Potatoes.
- 9038-68
CONTROL OF PESTICIDE RESIDUES ON FOOD IN THE UNITED
STATES.
B Munks
J Sci Food Agr 15 (10) II-219-5
Oct 1964 382 S012
Food, Pesticide residues, United States.
- 9039-68
RESIDUES IN VEGETABLE CROPS FOLLOWING SOIL APPLICATIONS OF
INSECTICIDES.
R P Muns M W Stone F Foley
J Econ Entomol 53 (5) 832-834, 9 REFS., 1 TAB.
Oct 1960 421 J822
Aldrin, Carrots, Chlordane, DDT, Potatoes, Residues,
Rutabagas, Soils, Sweetpotatoes, Toxaphene.
- 9040-68
INSECTICIDE RESIDUES ON FORAGE UNDER SPRAYED PECAN TREES.
M R Osburn L H Dawsey D W Woodham
J Econ Entomol 53 (5) 719-721
Oct 1960 421 J822
Azinphosmethyl, EPN, Forage plants, Parathion, Pecans,
Residues, Spraying, Toxaphene.
- 9041-68
INFRA-RED SPECTROSCOPIC METHOD FOR THE DETERMINATION OF
RESIDUES OF PENTACHLORONITROBENZENE.
G Paulig
J Sci Food Agr 12 (5) I-242-1
May 1961 382 S012
Pentachloronitrobenzene, Pesticide residues, Spectroscopy.
- 9042-68
SPRAY APPLICATION PROBLEMS. LXVIII. MERCURY RESIDUES IN
GROUND CROPS.
J A Pickard J T Martin J Grainger
J Sci Food Agr 15 (11) II-242-1
Nov 1964 382 S012
Field crops, Mercury, Pesticide residues, Root crops.
- 9043-68
DETERMINATION OF TRACE AMOUNTS OF NITROPURAZONE AND
PURAZOLIDONE IN MILK.
E J M Ratcliffe
J Sci Food Agr 15 (9) II-155-6
Aug 1964 382 S012
Assay, Purazolidone, Milk, Nitrofurans, Nitrofurazone.
- 9044-68
MALATHION RESIDUES IN THE TISSUES OF SHEEP, GOATS, AND HOGS.
R H Roberts R D Radeleff H G Wheeler
J Econ Entomol 53 (5) 972-973, 7 REFS.
Oct 1960 421 J822
Goats, Malathion, Residues, Sheep, Swine.
- 9045-68
MALATHION RESIDUES IN TISSUES OF SHEEP, GOATS AND HOGS.
R H Roberts R D Radeleff H G Wheeler
J Sci Food Agr 12 (4) I-185-4
Apr 1961 382 S012
Goats, Insecticide residues, Malathion, Sheep, Swine.
- 9046-68
MERCURY RESIDUES IN POTATOES IN RELATION TO FOLIAR SPRAYS OF
PHENYL MERCURY CHLORIDE.
R G Ross D K R Stewart
J Sci Food Agr 15 (9) II-127-10
Sep 1964 382 S012
Foliar application, Mercury, Pesticide residues,
phenylmercuric chloride, Potatoes.

BIBLIOGRAPHY

55 9047-68

- 9047-68
VIRGINIA REDUCES RESIDUES OF HEPTACHLOR IN MILK.
B L Samuel
Agr Chem 20(6) 72
Jun 1965 381 AG8
Forage plants, Heptachlor, Heptachlor epoxide, Milk.
- 9048-68
QUANTITATIVE PAPER CHROMATOGRAPHY OF CHLORINATED
INSECTICIDES IN SOILS.
J P San Antonio
J Sci Food Agr 12(5) I-224-5
May 1961 382 S012
Aldrin, Chromatography, DDT, Heptachlor, Lindane,
Pesticide residues, Soils.
- 9049-68
MICRO-DETERMINATION OF ENDRIN.
E J Skerrett E A Baker
J Sci Food Agr 12(5) I-224-3
May 1961 382 S012
Endrin, Pesticide residues.
- 9050-68
RESIDUES OF MALATHION ON LUCERNE AND IN MILK AND MEAT.
C T Smith F Shaw R Lavigne J Archibald H Penner D Stern
J Sci Food Agr 12(1) I-16-6
Jan 1961 382 S012
Alfalfa, Insecticide residues, Malathion, Meat, Milk.
- 9051-68
RESIDUES OF KEPONE IN MILK FROM COWS RECEIVING TREATED
FEED.
J C Smith F S Arant
J Econ Entomol 60 (4) 925-927
15 Aug 1967 421 J822
Cattle, Feed, Kepone, Milk, Pesticide residues.
Abstract
- 9052-68
ANALYSIS OF EGG YOLK AND POULTRY TISSUES FOR CHLORINATED
INSECTICIDE RESIDUES.
A R Stemp B J Liska B E Langlois W J Stadelman
J Sci Food Agr 15(10) II-210-4
Oct 1964 382 S012
Chlorinated hydrocarbons, Chromatography, Egg yolks,
Electron capture, Insecticide residues, Poultry.
- 9053-68
PESTICIDE RESIDUES ON FRUIT. VI. -LEAD AND ARSENIC RESI-
DUES ON APPLES.
R P Tew J M Sillibourne
J Sci Food Agr 15(10) 678, 9 REFS., 5 TABS.
Oct 1964 382 S012
Apples, Arsenic, Lead, Pesticide residues.
- 9054-68
ANALYSIS OF O-HYDROXYDIPHENYL. I. THE PAPER CHROMATOGRAPHIC
DETECTION OF O-HYDROXYDIPHENYL.
H Thaler H Guender
J Sci Food Agr 12(4) I-191-1
Apr 1961 382 S012
Chromatography, Pesticide residues.
- 9055-68
DETECTION AND DETERMINATION OF DIPHENYL AND O-PHENYLPHENOL
IN CONCENTRATED ORANGE JUICE BY GAS CHROMATOGRAPHY.
R Thomas
J Sci Food Agr 12(4) I-194-1
Apr 1961 382 S012
Chromatography, Pesticide residues, Phenols.
- 9056-68
SINCERE SEARCH FOR KNOWLEDGE CAN OFFSET FEAR AND DISTRUST
OF PESTICIDES.
H F Tomasek
Agr Chem 19(10) 25,91-92
Oct 1964 381 AG8
Pesticide residues, Pesticides.
- 9057-68
YIELD AND QUALITY OF MUSHROOMS FROM BEDS TREATED WITH
LINDANE.
C A Weigel G Gilpin
J Sci Food Agr 12(1) I-20-6
Jan 1961 382 S012
Insecticide residues, Lindane, Mushrooms.
- 9058-68
BIOASSAY OF RESIDUES OF INSECTICIDES IN SOIL.
G A Wheatley J A Hardman
J Sci Food Agr 12(1) I-16-3
Jan 1961 382 S012
Biological assay, Dieldrin, Insecticide residues, Soils.
- 9059-68
CHLORINATED HYDROCARBON INSECTICIDES IN MILK.
G Wildbrett A Ganz F Kiermeier
J Sci Food Agr 15(9) II-155-2
Sep 1964 382 S012
Dairy cattle, Insecticide residues, Metabolism, Milk.
- 9060-68
UNIVERSITY OF CALIFORNIA REPORTS ON AIRCRAFT PERFORMANCE.
W E Yates
Agr Chem 20(5) 75
May 1965 381 AG8
Aircraft, Pesticides, Spraying.
- 9061-68
INHALATION HAZARD.
A H Yeomans
Agr Chem 20(11) 56-57,61
Nov 1965 381 AG8
Pesticide application, Poisoning.

60 TOXICOLOGY

- 9062-68
BIOLOGISTS URGED TO PARTICIPATE IN DISCUSSIONS OF PESTICIDE PROBLEM. .
Agr Chem 20(1) 21-22,93-94
Jan 1965 381 AG8
Animal ecology, Biologists, Human diseases, Pesticides, Public health.
From A.I.B.S. symposium
- 9063-68
DEGRADATION AND ELIMINATION OF TEMIK IN RATS.
N R Andrawes H W Dorough D A Lindquist
J Econ Entomol 60 (4) 979-987 REF
15 Aug 1967 421 J822
Chemical control (pests), Degradation, Excreta, Metabolism, Rats, Temik.
Abstract
- 9064-68
BIOLOGICAL DEGRADATION OF OO-DIETHYL O/NAPHTHALIMIDO-PHOSPHOROTHIOATE (BAYER 22408).
N R Boyd Jr B W Arthur
J Sci Food Agr 12(4) I-169-5
Apr 1961 382 S012
Bayer 22408, Cotton, Metabolites,
OO-diethyl P-naphthalimidophosphorothioate, Rabbits, Toxins.
- 9065-68
FURTHER TESTS WITH SYSTEMIC INSECTICIDES IN RABBITS AS TOXICANTS FOR BODY LICE AND NEW TESTS FOR YELLOW-FEVER MOSQUITOES.
M M Cole D L VanNatta
J Econ Entomol 60 (4) 955-959 REF
15 Aug 1967 421 J822
Aedes aegypti, Chemical control (insects), Insecticides, Pediculus humanus humanus, Rabbits, Toxicology.
Abstract
- 9066-68
RESPONSES OF EMPOASCA FABAE (CICADELLIDAE HOMOPTERA) TO TOMATINE, SOLANINE, LEPTINE I TOMATIDINE, SOLANIDINE, AND DEMISSIDINE.
D L Dahlman E T Hibbs
Entomol Soc Amer Ann 60(4) 732-740 REF
17 Jul 1967 420 EN82
Broadbeans, Demissidine, Empoasca fabae, Insect repellents, Leptine, Solanidine, Solanine, Tomatidine, Tomatine.
Abstract
- 9067-68
MECHANISM OF THE INSECTICIDAL ACTION OF MERCURY SALTS.
D E H Frear L E Dills
J Econ Entomol 60 (4) 970-974 REF
15 Aug 1967 421 J822
Anasa tristis, Chemical control (insects), Hylemya brassicae, Insecticide resistant insects, Insecticides, Mercuric chloride, Musca domestica, Oncopeltus fasciatus, Tribolium confusum.
Abstract
- 9068-68
LABORATORY STUDY OF TOXICITY OF IMPORTED FIRE ANTS TO BLUE-GILL FISH.
H B Green R E Hutchins
J Econ Entomol 53(6) 1137-1138, 1 REF.
Dec 1960 421 J822
Fish, Solenopsis, Toxicology.
- 9069-68
IMPORTANCE OF WETTING AGENTS AS AFFECTING THE TOXICITY OF CERTAIN INSECTICIDES.
A Hartzell F Wilcoxson
J Sci Food Agr 12(4) I-169-3
Apr 1961 382 S012
Insecticides,
S-(2,3-dicarbomethoxypropyl)OO-DIMETHYL phosphorodithioate, Triton X-155.
- 9070-68
INHIBITORY SUBSTANCES IN MILK.
G E Jones
Naas (Nat Agr Adv Serv) Quart Rev 74 62-65
1966 241 G796
Antibiotics, Food contamination, Milk.
- 9071-68
COMPARATIVE FUNGICIDAL ACTIVITY OF SOME MONO- AND DE-ALKYL-SUBSTITUTED DITHIOCARBAMATE VAPOURS AND SOLUTIONS.
J B Kendrick Jr
J Sci Food Agr 12(4) I-168-4
Apr 1961 382 S012
Ferbam, Fungi, Fungicides.
- 9072-68
RELATION BETWEEN BASICITY AND SELECTIVITY IN ORGANOPHOSPHATES.
R D O'Brien B D Hilton
J Sci Food Agr 15(10) II-190-4
Oct 1964 382 S012
Amiton, Hydrogen-ion concentration, Insects, Mammals, Phosphorothionates.
- 9073-68
THE ROLE OF HERBICIDES IN NO-TILLAGE CROP PRODUCTION.
G M Shear
Agr Chem 20(4) 31-32,126, 13 REFS.
Apr 1965 381 AG8
Crop yields, Herbicides, Tillage.
- 9074-68
TOXICITY OF HEXAVALENT CHROMIUM TO BLUEGILLS.
F B Trama R J Benoit
J Sci Food Agr 12(3) I-152-5
Mar 1961 382 S012
Chromium, Fish, Poisoning.
- 9075-68
ANIMAL SYSTEMIC ACTIVITY, METABOLISM, AND STABILITY OF CORRAL (BAYER 21-199).
D S Vickery B W Arthur
J Econ Entomol 53(6) 1037-1043, 26 REFS., 6 TABS.
Dec 1960 421 J822
Amblyomma, Cimex, Coumaphos, Metabolism,
O,O-diethyl O-(4-methylumbelliferone), Potasan, Rabbits.
- 9076-68
PERMISSION NEEDED IN N.Y. FOR PESTICIDE APPLICATION.
H G Wilm
Agr Chem 20(4) 101
Apr 1965 381 AG8
Pesticide application, Public lands, State forests, Water pollution.

65 PLANT PHYSIOLOGY AND BIOCHEMISTRY

- 9077-68
FOREST SPRAYING PROJECTS FAIL TO HARM FISH OR WILDLIFE.
Agr Chem 20(3) 40,110-111
Mar 1965 381 AG8
Fish, Forests, Helicopters, Spraying, Wildlife.
- 9078-68
PESTICIDE PROBLEM IS NOURISHED BY LACK OF INTERAGENCY COOPERATION.
Agr Chem 20(6) 32-34,129
Jun 1965 381 AG8
Interagency cooperation, Pesticides, Public health.
- 9079-68
C-VPPA WIDENS SCOPE TO ENCOMPASS ENTIRE SOUTHEAST.
Agr Chem 20(1) 29-30,90
Jan 1965 381 AG8
Fertilizers, Industry, Pesticides.
- 9080-68
CZECHOSLOVAKIA TURNS TO CHEMICALS TO HELP INCREASE AGRICULTURAL PRODUCTION.
Agr Chem 20(6) 31,122-123
Jun 1965 381 AG8
Agriculture, Chemicals, Food consumption.
- 9081-68
REVISED PESTICIDE REGULATIONS REVIEWED BY CSMA SPEAKERS.
Agr Chem 20(1) 59
Jan 1965 381 AG8
Pesticides, Public health.
- 9082-68
LOW VOLUME SPRAYING ADAPTED FOR ORCHARDISTS.
Agr Chem 20(6) 69-70
Jun 1965 381 AG8
Agriculture, Chemicals, Spraying.
- 9083-68
A NOTE ON THE TOXICITY OF THE PLANT PACHYSTIGMA THAMNUS.
ROBYNS.
T F Adelaar M Terblanche
S Afr Vet Med Ass J 38(1), 25-26.
Mar 1967 41.8 S08
Poisoning, Toxicity.
- 9084-68
CORRELATION BETWEEN INACTIVATION OF 2,4-D AND CESSATION OF CALLUS GROWTH IN BEAN STEM SECTIONS.
M K Bach J Fellig
J Sci Food Agr 12(6) I-269-1
Jun 1961 382 S012
Plant physiology, 2,4-D.
- 9085-68
RELATION OF NITROGENOUS SUBSTANCES IN ROSE LEAVES TO POWDERY MILDEW RESISTANCE.
A B Bartlett
J Sci Food Agr 15(9) II-134-1
Sep 1964 382 S012
Amino acids, Ammonium compounds, Leaves, Pipecolic acid, Plant disease resistance, Powdery mildew (Rosa), Rosa.
- 9086-68
INSECT RESISTANCE FACTORS IN THE CABBAGE PLANT.
M R Boots
J Sci Food Agr 15(12) II-293-5
Dec 1964 382 S012
Cabbage, Fungicides, Furoic acid, 2-, Galleria, Indol-3-ylacetonitrile, Penicillium, Pyrausta.
- 9087-68
INVERSION PHENOMENON INDUCED BY NABAM DERIVATIVES.
M E Corden R C Carlstrom W M Brown H K Kaocheki
J Sci Food Agr 15(10) II-189-8
Oct 1964 382 S012
Growth factors, Nabam, Thielaviopsis, Thiocarbamates, Thiram, Verticillium.
- 9088-68
METABOLISM OF 2,4-DICHLOROPHENOXYACETIC ACID (2,4-D) IN BEAN PLANTS.
D G Crosby
J Sci Food Agr 15(10) II-190-2
Oct 1964 382 S012
Beans, Metabolites, Plant metabolism, 2,4-D.
- 9089-68
RESPONSE OF BEAN SEEDLINGS AND MAIZE ROOTS TO MALFORMIN.
R W Curtis
J Sci Food Agr 12(6) I-270-3
Jun 1961 382 S012
Beans, Corn, Peptides, Plant physiology.
- 9090-68
KINETIC STUDY OF CHOLINESTERASE INHIBITION IN HORSE SERUM BY CERTAIN STEROID ALKALOIDS OF SOLANUM. ETUDE CINETIQUE DE L'INHIBITION DE LA CHOLINESTERASE SERIQUE DE CHEVAL PAR CERTAINS ALCALOIDES STEROIDIQUES DE SOLANUM.)FR (Faucher R Monnet
Acad Sci Compt Rend Ser D Sci Nat 264 (18), 2247-2249
03 May 1967 505 P21
Alkaloids, Cholinesterases, Horses, Inhibitors, Solanum.
- 9091-68
EFFECT OF HEPTACHLOR AND TOXAPHENE ON STAND OF LADINO CLOVER.
H A Fribourg W W Stanley
J Sci Food Agr 12(5) I-225-4
May 1961 382 S012
Heptachlor, Ladino clover, Toxaphene.
- 9092-68
EVALUATION OF TWO SOIL FUMIGANTS.
D J Gill J M Good
Agr Chem 20(3) 68
Mar 1965 381 AG8
Fungi, Liliun longiflorum, Nematodes, Soil fumigation.
- 9093-68
GENERAL EFFECTS OF ETHYLENE ON ENZYME SYSTEMS IN THE COTTON LEAF.
F A Herrero W C Hall
J Sci Food Agr 12(6) I-270-4
Jun 1961 382 S012
Cotton, Ethylene, Plant enzymes.
- 9094-68
ANTIBIOTIC ACTIVITY OF PEAR LEAVES AGAINST ERWINIA AMYLOVORA AND ITS RELATION TO BETA-GLUCOSIDASE.
D C Hildebrand M N Schroth
J Sci Food Agr 15(11) II-239-1
Nov 1964 382 S012
Antibiotics, Beta-glycosidases, Erwinia, Pears.
- 9095-68
EFFECT OF SUBSTITUTED URACIL HERBICIDES ON PHOTOSYNTHESIS.
C E Hoffman J W McGahan P B Sweetser
J Sci Food Agr 15(10) II-186-1
Oct 1964 382 S012
Bromacil, Chlorella, Euglena, Isocil, Photosynthesis, Spinach.
- 9096-68
EFFECT OF AMMONIUM PHOSPHATE AND OTHER CHEMICALS ON THE GERMINATION OF COTTON AND WHEAT SEED.
J T Hood L E Ensminger
J Sci Food Agr 15(11) II-232-1
Nov 1964 382 S012
Ammonium phosphate, Cotton, Seed germination, Wheat.
- 9097-68
EFFECTS OF SOME INSECTICIDES ON NITROGEN FRACTIONS OF BARTLETT PEAR LEAF TISSUE.
A L Kamal C G Woodbridge
J Sci Food Agr 12(6) I-280-7
Jun 1961 382 S012
Demeton, DDT, Malathion, Parathion, Pears, Plant physiology.
- 9098-68
PHOSPHORUS-32- AND SULPHUR-35-LABELLED SSS- TRIBUTYL PHOSPHOTRITHIOATE DEPOLIANT RESIDUE IN COTTONSEED.
F R H Katterman W C Hall
J Sci Food Agr 15(10) II-186-4
Oct 1964 382 S012
Cottonseed, Plant metabolism, Tributyl phosphotriothioate, SSS- .

BIBLIOGRAPHY

65 9114-68

- 9099-68
WHAT DOES THE FUTURE HOLD FOR CHEMICALS IN AGRICULTURE.
D J Keating
Agr Chem 20(6) 24-26,121-122
Jun 1965 381 AG8
Agriculture, Chemicals.
- 9100-68
DMSO SHOWS GREAT PROMISE AS CARRIER OF AGRICULTURAL TOXICANTS.
H I Keil
Agr Chem 20(4) 23-24,128, 6 REFS.
Apr 1965 381 AG8
Absorption, Dimethyl sulfoxide, DMSO, Plant translocation.
- 9101-68
NATURALLY OCCURRING INSECTICIDES IN CRUCIFEROUS CROPS.
E P Lichtenstein D G Morgan C H Mueller
J Sci Food Agr 15(10) II-205-2
Oct 1964 382 S012
Brassicaceae, Gardencress, Insecticidal plants, Phenylethyl isothiocyanate, 2-, Radishes, Turnips.
- 9102-68
METABOLISM OF OO-DIMETHYL PHTHALIMIDOMETHYL PHOSPHORO-DITHIOATE (-THIOLOTHIONATE) (IMIDAN) IN COTTON PLANTS.
J J Menn J B McBain
J Sci Food Agr 15(10) II-184-1
Oct 1964 382 S012
Cotton, Imidan, Plant metabolism.
- 9103-68
THREE CHEMICALS FOR CONTROL OF ELASMODIOPHORA BRASSICAE.
Paul Miller
Agr Chem 20(2) 65,107, 3 REFS.
Feb 1965 381 AG8
Broccoli, Cabbage, Cauliflower, Clubroot (broccoli), Clubroot (cabbage), Clubroot (cauliflower), TCNA.
- 9104-68
INTEGRATED CONTROL AND FRUIT INJURY CAPTURE ATTENTION OF N. W. HORTICULTURISTS.
L H Milliman
Agr Chem 20(1) 25-26,90
Jan 1965 381 AG8
Fruit, Horticulturists, Plant injuries, Spraying.
- 9105-68
SHOULD MICRONUTRIENTS BE APPLIED WITH NPK FERTILIZERS AS CARRIERS.
J J Mortvedt
Agr Chem 20(6) 39-40,128, 6 REFS.
Jun 1965 381 AG8
Fertilizers, Nitrogen, Phosphorus, Potassium.
- 9106-68
ACTION OF HEXACHLOROPHENE ON PLANT ROOTS.
A G Norman
J Sci Food Agr 12(6) I-270-1
Jun 1961 382 S012
Cucumbers, Hexachlorophene, Plant physiology.
- 9107-68
A DELETERIOUS INTERACTION.
C D Ranney
Agr Chem 20(4) 88
Apr 1965 381 AG8
Captan, Cotton, Fungicides, Pentachloronitrobenzene, Roots.
- 9108-68
EFFECT OF GAMMA-BHC ON GROWTH OF RICE SEEDLINGS.
E H Roberts
J Sci Food Agr 12(1) I-17-8
Jan 1961 382 S012
Benzene hexachloride, Plant physiology, Rice.
- 9109-68
CHLOROPLAST NUMBER IN LEAVES OF NORMAL WHEAT PLANTS AND THOSE INFESTED WITH HESSIAN FLY OR TREATED WITH MALEIC HYDRAZIDE.
R J Robinson B S Miller H L Mitchell H C Mussman J A Johnson
J Sci Food Agr 12(1) I-16-8
Jan 1961 382 S012
Chloroplasts, Maleic hydrazide, Mayetiola, Wheat.
- 9110-68
PERSISTENCE OF BENEFICIAL EFFECTS OF NEMATOCIDAL FUMIGATION IN PINE PLOTS IN NORTH CAROLINA.
J L Ruehle J N Sasser
Agr Chem 20(6) 75
- Jun 1965 381 AG8
Nematocides, Pinus, Soil fumigation.
- 9111-68
PHYSIOLOGY OF HOST-PARASITE RELATIONS. XIII. EFFECT OF STEM RUST ON PURINES IN WHEAT LEAVES.
M Shaw B I Sahai Srivastava
J Sci Food Agr 15(10) II-189-1
Oct 1964 382 S012
Leaves, Purines, Stem rust (wheat), Wheat.
- 9112-68
PESTICIDE EFFECTS IN SOILS ON NITRIFICATION AND PLANT GROWTH.
W M Shaw B Robinson
J Sci Food Agr 12(5) I-222-2
May 1962 382 S012
Aldrin, Chlordane, Dieldrin, DDT, Heptachlor, Nitrification, Plant physiology, Soils, 2,4-D.
- 9113-68
EFFECT OF FUNGICIDES ON RESPIRATION OF THREE SPECIES OF SOIL FUNGI.
D C Torgeson
J Sci Food Agr 15(11) II-239-2
Nov 1964 382 S012
DAC 649, Fluoro-2,4-dinitrobenzene, 1-, Hercules 3944, Para-dimethylaminobenzenediazo sodium sulfonate, Phenyl-5-chloro-1,2-dithiol-3-one, 4-, Plant respiration, Soil fungi, Tetrachlorotetrahydrothiopaen-1,1-dioxide, 3,3,4,4-.
- 9114-68
SOME BIOCHEMICAL INVESTIGATIONS INTO SUSCEPTIBILITY OF BARLEY VARIETIES TO DDT.
D G Upshall T W Goodwin
J Sci Food Agr 15(12) 846-855, 22 REFS.
Dec 1964 382 S012
Barley, Crop varieties, DDT, Plant biochemistry, Plant injuries.

70 9115-68

70 CHEMISTRY

- 9115-68
CHEMICALS IN AGRICULTURE.
Vet Rec 77(26) 737
26 Jun 1965 41.8 V641
Agricultural chemistry.
- 9116-68
PHOSPHOROUS ACID ESTERS.
J Sci Food Agr 12(6) I-283-2
Jun 1961 382 S012
OO-diethyls.2.ethylthioethyl phosphorothioite.
Farbenfabriken Bayer A. G.
- 9117-68
LONDON SYMPOSIUM WILL COVER FORMULATION OF PESTICIDES.
Agr Chem 20(2) 79
Feb 1965 381 AG8
Pesticides, Symposia.
- 9118-68
HALONITROSTILBENES.
J Sci Food Agr 12(3) I-132-1
Mar 1961 382 S012
Chloro-x-nitrostilbene, 2-, Insecticides.
Dow Chemical Co. (Inventor D. N. Robertson)
- 9119-68
ANTIRESISTANT-DDT AVAILABLE FROM PENICK AND GENERAL
CHEMICAL.
Agr Chem 17(6) 77
Jun 1962 381 AG8
DDT, Insecticide resistant insects.
- 9120-68
COMPOUNDING OF INSECTICIDAL COMPOSITIONS.
J Sci Food Agr 12(5) I-228-6
May 1961 382 S012
Acetamide, Fluorine compounds.
Associated Fumigators Ltd.
Inventors M A Phillips and C I J Chapman
- 9121-68
DOW PRODUCT CONTROLS NITROGEN LOSS.
Agr Chem 17(9) 96
Sep 1962 381 AG8
Fertilizers, Nitrogen.
- 9122-68
THIOLO- AND THIOLOTHIONO-PHOSPHORIC, -PHOSPHONIC AND PHOS-
PHINIC ACID ESTERS.
J Sci Food Agr 15(12) II-295-8
Dec 1964 382 S012
Insecticides, Thiophosphorus acid esters.
Farbenfabriken Bayer A.-G.
- 9123-68
THIOPHOSPHORIC ACID ESTERS.
J Sci Food Agr 12(6) I-283-3
Jun 1961 382 S012
Trichloro-1-ethylthioethyl phosphorothionate, Et2.2,2,2-
Farbenfabriken Bayer A.-G.
- 9124-68
ARYLOXYALIPHATIC COMPOUNDS.
J Sci Food Agr 12(3) I-132-2
Mar 1961 382 S012
Aryloxyaliphatic compounds, Herbicides.
May and Baker Ltp. (Inventors B.J heywood, W.G. leeds
- 9125-68
THIOPHOSPHORIC ACID ESTERS.
J Sci Food Agr 12(5) I-228-7
May 1961 382 S012
Pesticides.
Farbenfabriken Bayer A.-G.
- 9126-68
THIOPHOSPHORIC, -PHOSPHONIC AND -PHOSPHINIC ACID ESTERS.
J Sci Food Agr 15(12) II-296-1
Dec 1964 382 S012
Insecticides, Thiophosphorus acid esters,
Trichlorothioacetamido thiophosphorus esters.
Farbenfabriken Bayer A.-G
- 9127-68
PHYTOTOXIC AND INSECTICIDAL TRIAZINES AND PREPARATIONS
CONTAINING THEM.
J Sci Food Agr 12(6) I-283-6
Jun 1961 382 S012
Dichloro-2-(3-chloropropoxy)-s-triazine, 4,6-
N. V. Philips Gloeilampenfabrieken
(B.P. 835,850, 2.4.58. Neth. 5.4.57).
- 9128-68
HALOGENOALKYL-S-TRIAZINES.
J Sci Food Agr 15(9) II-135-1
Sep 1964 382 S012
Halogenoalkyl-s-triazines, Pesticides.
From farbenfabriken bayer a.-G.
- 9129-68
PHOSPHORUS-CONTAINING INSECTICIDES.
J Sci Food Agr 12(5) I-228-8
May 1961 382 S012
Aphididae, Insecticides, Phosphorus compounds, Tetranychidae.
Norddeutsche Affinerie and P. Spiess (C.F.Spiess and
Sohn)
- 9130-68
THIOPHOSPHORIC ACID ESTERS.
J Sci Food Agr 12(3) I-132-3
Mar 1961 382 S012
Insecticides, Phosphoric acid esters.
Farbenfabriken Bayer A.-G.
- 9131-68
CHLOROBENZOIC AMIDES AND HERBICIDAL COMPOSITIONS CONTAINING
THEM.
J Sci Food Agr 12(6) I-283-7
Jun 1961 382 S012
Amides.
Hooker Chemical Corp.
- 9132-68
AMINOPHENYL METHYL CARBAMATES AND PARASITICIDAL COMPOSITIONS
THEREOF.
J Sci Food Agr 15(10) II-191-4
Oct 1964 382 S012
Aminophenyl methylcarbamate.
- 9133-68
PHOSPHORUS-CONTAINING KETO-ESTERS.
J Sci Food Agr 12(5) I-229-1
May 1961 382 S012
Pesticides, Phosphorus compounds.
Union Carbide Corp., Assee of W M Lanham
- 9134-68
DITHIOPHOSPHONIC ACID ESTER DERIVATIVES AS INSECTICIDES.
J Sci Food Agr 15(12) II-296-2
Dec 1964 382 S012
Insecticides, Phosphonodithioic acid esters.
C. H. Boehringer Sohn
- 9135-68
N-MONOARYL SUBSTITUTED CARBAMIC ACID 2,4,5-TRICHLOROPHENYL
ESTERS.
J Sci Food Agr 12(6) I-283-1
Jun 1961 382 S012
Trichlorophenyl-phenylcarbamate, 2,4,5-
E. Merck A.-G.
- 9136-68
SUBSTITUTED ALPHA-HALOGENO- OR ALPHA-METHOXY-PHENYLACETIC
ACIDS FOR USE IN HERBICIDAL COMPOSITIONS.
J Sci Food Agr 15(9) II-135-2
Sep 1964 382 S012
Halogeno-phenylacetic acids, alpha-, Herbicides,
Methoxy-phenylacetic acids, alpha-
From velsicol chemical corp.
- 9137-68
PHOSPHONIC ACID ESTERS.
J Sci Food Agr 12(5) I-229-2
May 1961 382 S012
Pesticides, Phosphates.

BIBLIOGRAPHY

70 9160-68

- C.H. Boehringer Sohn
- 9138-68
FUNGICIDAL COMPOSITIONS.
J Sci Food Agr 12(3) I-132-4
Mar 1961 382 S012
Fungicides.
Poudreries Reunies de Belgique
- 9139-68
DERIVATIVES OF 2-MERCAPTOPYRIDINE-1-OXIDE.
J Sci Food Agr 12(6) I-283-9
Jun 1961 382 S012
Fungus diseases (plants), Mercapto compounds.
Olin Mathieson Chemical Corp.
Inventors J Bernstein and K A Losee
- 9140-68
INSECTICIDAL AND BACTERIAL COMPOSITIONS CONTAINING P-DI-
CHLOROBENZENE.
J Sci Food Agr 15(10) II-191-5
Oct 1964 382 S012
Bactericides, Dichlorobenzene, Household pests, Insecticides.
- 9141-68
NEW BASIC ESTER OF PHOSPHOROTHIOIC ACID AND PESTICIDAL
COMPOSITIONS CONTAINING IT.
J Sci Food Agr 12(5) I-229-3
May 1961 382 S012
Pesticides, Phosphorothioic acid esters.
Imperial Chemical Industries Ltd. (Inventors A.
Calderbank, R. Ghosh.
- 9142-68
THIOPHOSPHORIC, THIOPHOSPHONIC AND THIOPHOSPHINIC ACID ES-
TERS.
J Sci Food Agr 15(12) II-296-3
Dec 1964 382 S012
Insecticides, Para-cyanophenyl thiophosphate,
Phosphinothioic acid esters, Phosphonothioic acid esters,
Phosphorothioic acid esters.
Farbenfabriken Bayer A.-G. (Inventors K. Mannes, G.
Schrader and K. Wedemeyer)
- 9143-68
O-ARYL PHOSPHOROAMIDOHYDRAZIDOTHIOATES.
J Sci Food Agr 12(5) I-229-4
May 1961 382 S012
O-aryl phosphoroamidohydrazidothioates, Pesticides.
Dow Chemical Co. (Inventor E. H. Blair)
- 9144-68
FUNGICIDES.
J Sci Food Agr 15(9) II-134-2
Sep 1964 382 S012
Dioxo-4,9-dihydronaphtha(2,3-d)-iminazoles, 4,9-,
Dioxo-4,9-dihydronaphtha(2,3-d)-oxazoles, 4,9-,
Dioxo-4,9-dihydronaphtha(2,3-d)-thiazoles, 4,9-,
Naphthoquinone.
From oesterreichische stickstoffwerke a.-G.
- 9145-68
THIOCYANIC ESTERS AND PESTICIDAL COMPOSITIONS CONTAINING
THEM.
J Sci Food Agr 12(5) I-229-5
May 1961 382 S012
Pesticides, Thiocyanic acid.
Societe des Usines Chimiques Rhone-Poulenc
- 9146-68
SUBSTITUTED HALOGENATED BICYCLOHEPTENES.
J Sci Food Agr 12(3) I-131-6
Mar 1961 382 S012
Bicycloheptene, Herbicides.
Velsicol Chemical Corp.
- 9147-68
GLYCOLURIL DERIVATIVES.
J Sci Food Agr 12(5) I-229-6
May 1961 382 S012
Glycols, Pesticides.
Diamond Alkali-Co., Assee of F R Slezaki and
I Rosen
- 9148-68
PEST CONTROL AGENTS.
J Sci Food Agr 15(10) II-191-6
Oct 1964 382 S012
Alkyl-N-glycosides, Amino sugars.
- 9149-68
2,3,5,6-TETRACHLOROBENZOYL HALIDES AND THEIR DERIVATIVES
FOR HERBICIDAL COMPOSITIONS.
J Sci Food Agr 12(5) I-229-8
May 1961 382 S012
Halides, Herbicides.
Hooker Electrochemical Co.
- 9150-68
PHOSPHONATE ESTERS, AND INSECTICIDAL COMPOSITIONS CONTAINING
SAME.
J Sci Food Agr 15(12) II-296-4
Dec 1964 382 S012
Cyanophenyl phenylthiophosphonates, Insecticides,
Phenylphosphonothioic acid esters, Phosphonic acid esters.
Sumitomo Chemical Co.
- 9151-68
FUNGICIDAL COMPOUNDS.
J Sci Food Agr 12(4) I-174-4
Apr 1961 382 S012
Fungicides.
N. V. Philips Gloeilampenfabrieken
- 9152-68
PHOSPHORUS-CONTAINING ORGANIC COMPOUNDS.
J Sci Food Agr 15(9) II-134-5
Sep 1964 382 S012
Organic compounds, Pesticides, Phosphorus compounds.
From union carbide corp.
- 9153-68
FLUOROAROMATIC COMPOUNDS.
J Sci Food Agr 12(5) I-229-9
May 1961 382 S012
Acetic acid, (4-fluoro-2,5-xylyloxy),
Acetic acid, (5-fluorodiphenyl-2-yloxy), Herbicides.
Dow Chemical Corp.
Inventors E C Britton and T R Keil
- 9154-68
CYANOPFORMAMIDE.
J Sci Food Agr 12(3) I-132-6
Mar 1961 382 S012
CN.CONH2, Cyanoformamide, Nematodes, Rodents.
American Cyanamid Co.
- 9155-68
INSECTICIDAL COMPOSITIONS.
J Sci Food Agr 12(4) I-174-6
Apr 1961 382 S012
Insecticides, Pyrethrum.
Food Machinery and Chemical Corp.
- 9156-68
PHOSPHONITRILIC FLUORIDES.
J Sci Food Agr 15(10) II-191-7
Oct 1964 382 S012
Nematocides, Phosphonitric fluorides.
- 9157-68
AGRICULTURAL CHEMICAL COMPOSITIONS.
J Sci Food Agr 12(5) I-228-3
May 1961 382 S012
Agricultural chemistry, DDT.
Fisons Pest Control Ltd (Inventor C. H. Barker)
- 9158-68
THIOCYANOGEN TRIAZINES.
J Sci Food Agr 15(12) II-296-5
Dec 1964 382 S012
Fungicides, Herbicides, Thiocyanogen triazines.
Deutsche Gold- u. Silber Scheideanstalt
- 9159-68
HERBICIDAL COMPOSITIONS.
J Sci Food Agr 12(4) I-174-7
Apr 1961 382 S012
dichloro-5-nitrobenzoic acid, 2,5-, Corn, Herbicides, Wheat.
Amchem Products Inc.
- 9160-68
INSECTICIDAL THIOPHOSPHORIC ACID ESTERS.
J Sci Food Agr 15(9) II-134-4
Sep 1964 382 S012
Insecticides, Phosphorothioic acid esters.
From cIPA ltd.

BIBLIOGRAPHY

- 70 9161-68
- 9161-68
HALOGENATED BICYCLO(2,2,1)HEPTENES.
J Sci Food Agr 12(5) I-228-5
May 1961 382 S012
Bicyclo(2,2,1)heptene, Halogen compounds, Insecticides.
Farbwerke Hoechst A.-G.
- 9162-68
HERBICIDAL COMPOSITIONS.
J Sci Food Agr 12(3) I-131-5
Mar 1961 382 S012
Herbicides, Tetrachloroethyl allylcarbamate, 1,2,2,2-,
Tetrachloroethyl diallylcarbamate, 1,2,2,2-.
Shell Research Ltd. (Inventors J.T. Hackmann and P.
ten Haken)
- 9163-68
SUBSTITUTED THIOPHOSPHORIC ESTERS AND INSECTICIDAL COMPOSITIONS CONTAINING THEM.
J Sci Food Agr 15(10) II-191-8
Oct 1964 382 S012
Insecticides, Phosphorothioic acid esters.
- 9164-68
N-POLYHALOGENOETHYLTHIO-1,2-DICARBONIMIDES FUNGICIDAL COMPOSITIONS.
J Sci Food Agr 15(12) II-296-6
Dec 1964 382 S012
Fungicides, N-polyhalogenoethylthio-1,2-dicarbonimide.
California Research Corp.
- 9165-68
QUATERNARY AMMONIUM CONTAINING COMPOUNDS, AND PHARMACEUTICAL COMPOSITIONS THEREOF.
J Sci Food Agr 15(10) II-192-1
Oct 1964 382 S012
Nematocides, Nematodiasis, Quaternary ammonium compounds.
- 9166-68
PESTICIDAL COMPOSITIONS.
J Sci Food Agr 15(12) II-296-7
Dec 1964 382 S012
Cyclohexylphenyl methylcarbamate,
Polyoxyethylene benzyl ether.
Farbenfabriken Bayer A.-G.
- 9167-68
THIOPHOSPHONIC ACID ESTERS.
J Sci Food Agr 15(10) II-192-2
Oct 1964 382 S012
Insecticides, Phosphonothioic acid esters.
- 9168-68
2-ARYL DERIVATIVES OF 1-CYANOPFORMIDIC ACID HYDRAZIDE
3-CYANO-5-SUBSTITUTED-1,2,4-TRIAZOLES.
J Sci Food Agr 15(12) II-297-1
Dec 1964 382 S012
Ciano-1,2,4-triazole, 3-,
Cyanofornidic acid 2-arylhydrazide, 1-, Herbicides,
Rodenticides.
American Cyanamid Co.
- 9169-68
THIOPHOSPHORIC ACID ESTERS AND PESTICIDAL COMPOSITIONS CONTAINING THEM.
J Sci Food Agr 15(10) II-192-3
Oct 1964 382 S012
Insecticides, Phosphorothioic acid esters.
- 9170-68
PHOSPHORUS-CONTAINING MIXED ORGANIC ANHYDRIDES AND PHOSPHORUS-CONTAINING AMINO COMPOUNDS THEREFROM.
J Sci Food Agr 15(11) II-244-7
Nov 1964 382 S012
Amides, Anhydrides, Insecticides, Phosphorodithioates.
From Fisons Pest Control Ltd. (Inventors D. W. J.
Lane and P. L. Carter)
- 9171-68
THIOPHOSPHORIC ACID ESTERS.
J Sci Food Agr 15(10) II-192-4
Oct 1964 382 S012
Insecticides, Phosphorothioic acid esters.
- 9172-68
CHEMICAL COMPOUNDS.
J Sci Food Agr 15(12) II-297-2
Dec 1964 382 S012
Dinitrophenyl naphthyl carbonic acid diesters, 2,4-,
Dinitrophenyl phenyl carbonic acid diesters, 2,4-, Fungicides,
- Herbicides.
Fabriek van Chemische Producten Vandelingenplaat N.V.
- 9173-68
THIOPHOSPHOROUS ACID ESTERS.
J Sci Food Agr 15(10) II-192-5
Oct 1964 382 S012
Insecticides, Thiophosphorous acid esters..
- 9174-68
THIOPHOSPHONIC ACID ESTERS AND ESTER AMIDES.
J Sci Food Agr 15(11) II-245-1
Nov 1964 382 S012
Insecticides, Phosphonamidothioic acid esters,
Phosphonothioic acid esters.
From Farbenfabriken Bayer A.-G.
- 9175-68
HERBICIDAL COMPOSITIONS.
J Sci Food Agr 15(10) II-192-6
Oct 1964 382 S012
Chlorates, Herbicides, S-triazine.
- 9176-68
FUNGICIDES, ALGACIDES AND HERBICIDES.
J Sci Food Agr 15(12) II-297-3
Dec 1964 382 S012
Algicides, Fungicides, Herbicides, N-phenyl itaconimides,
NN -phenylene bis-itaconimide.
U.S. Rubber Co.
- 9177-68
PLANT-GROWTH INHIBITING COMPOSITIONS.
J Sci Food Agr 15(10) II-192-7
Oct 1964 382 S012
Dihalogeno-pyridine, 2,6-, Herbicides.
- 9178-68
PHOSPHONIC AND THIOPHOSPHONIC ACID ESTERS.
J Sci Food Agr 15(11) II-245-2
Nov 1964 382 S012
Pesticides, Phosphonic acid esters,
Phosphonothioic acid esters.
From Farbenfabriken Bayer A.-G.
- 9179-68
HERBICIDAL COMPOSITIONS AND CHEMICAL COMPOUNDS FOR USE THEREIN.
J Sci Food Agr 15(10) II-193-1
Oct 1964 382 S012
Halogenoacetamide, Halogenobenzyl halide, Halogenotoluene,
Herbicides.
- 9180-68
THIOLO- AND THIONOHILO- PHOSPHORIC AND PHOSPHONIC ESTERS.
J Sci Food Agr 15(12) II-295-7
Dec 1964 382 S012
Insecticides, Phosphinodithioic acid esters,
Phosphinothioic acid esters, Phosphorodithioic acid esters,
Phosphorothioic acid esters.
Farbenfabriken Bayer A.-G.
- 9181-68
HERBICIDAL COMPOSITIONS.
J Sci Food Agr 15(10) II-193-2
Oct 1964 382 S012
Butoxyethyl p-chlorophenoxyacetate, Herbicides,
Para-chlorophenoxyacetic acid, Pteridium.
- 9182-68
THIAZOLE DICARBOXYLIC ACID AND DERIVATIVES.
J Sci Food Agr 15(11) II-245-4
Nov 1964 382 S012
Pesticides, Thiadiazole dicarboxylic acid.
From Indiana University Foundation
- 9183-68
ESTERS OF CHLORINATED CARBOXYLIC ACIDS AND HERBICIDAL COMPOSITIONS CONTAINING SAME.
J Sci Food Agr 15(10) II-193-3
Oct 1964 382 S012
Chlorocarboxylic acid ester, Herbicides.
- 9184-68
PHENYLMERCURIC PROPIONATE COMPOSITIONS.
J Sci Food Agr 15(12) II-295-5
Dec 1964 382 S012
Pesticides, Phenylmercuric propionate.
Metalsalts Corp. (Inventors S. J. Lederer and R. O.
Weiss)

BIBLIOGRAPHY

70 9205-68

- 9185-68
CARBANILIC ACID AMIDES AND HERBICIDAL PREPARATIONS CONTAINING THEM.
J Sci Food Agr 15 (10) II-193-4
Oct 1964 382 S012
Alkylurea, 1-(m-trifluoromethylphenyl)-3-,
Carbanilic acid amide, Herbicides.
- 9186-68
THIOPHOSPHORIC ACID ESTERS.
J Sci Food Agr 15 (11) II-244-4
Nov 1964 382 S012
Insecticides, Phosphorothioic acid esters.
From Farben Fabriken Bayer A.-G.
- 9187-68
HERBICIDAL COMPOSITIONS CONTAINING DIPYRIDYLUM QUATERNARY SALTS.
J Sci Food Agr 15 (10) II-193-5
Oct 1964 382 S012
Agropyron repens, Chlorocarbonylic acid,
Ethylene-2-2 -dipyridylum dibromide, 1,1 -, Herbicides.
- 9188-68
STABILIZATION OF MANGANESE SALTS OF ALKYLENE BIS-DITHIOCARBAMIC ACIDS.
J Sci Food Agr 15 (12) II-295-3
Dec 1964 382 S012
Decomposition, Fungicides,
Manganese alkylene bis-dithiocarbamic acid salts, Methenamine.
Rohm and Haas Co
- 9189-68
HERBICIDAL COMPOSITIONS CONTAINING POLYCHLOROPHENYLACETIC ACIDS AND SALTS THEREOF.
J Sci Food Agr 15 (10) II-193-6
Oct 1964 382 S012
Herbicides, Tetrachlorophenylacetic acid,
Trichlorophenylacetic acid.
- 9190-68
PHOSPHORUS-CONTAINING ESTERS.
J Sci Food Agr 15 (11) II-244-6
Nov 1964 382 S012
Insecticides, Oxo-benz-thiazole thiophosphate 2-,
Oxo-benzoxazole thiophosphate, 2-,
Thiono-benz-thiazole thiophosphate, 2-,
Thiono-benzoxazole thiophosphate, 2-.
From Farbenfabriken Bayer A.-G. (Inventors W. Lorenz,
K. Nannes and G. Schrader)
- 9191-68
GUANIDINE DERIVATIVES.
J Sci Food Agr 15 (10) II-191-2
Oct 1964 382 S012
Cyclododecylguanidine, Fungicides, Fungus diseases (plants).
- 9192-68
SUBSTITUTED PYRIDAZONES AND PLANT-TREATING COMPOSITIONS CONTAINING THEM.
J Sci Food Agr 15 (12) II-295-4
Dec 1964 382 S012
Herbicides.
Badische Anilin- u. Soda-fabrik A.-G. (Inventors
F. Reicheneder, K. Dury, A. Fischer, H. Stummeyer)
- 9193-68
POLYACETYLENIC HYDROCARBONS.
J Sci Food Agr 15 (10) II-191-3
Oct 1964 382 S012
Acetylene.
- 9194-68
N-ALKYLAMIDES OF OO-DIMETHYLDITHIOPHOSPHORYLACETIC ACID.
J Sci Food Agr 15 (11) II-244-2
Nov 1964 382 S012
Dimethyldithiophosphorylacetic N-alkylamide, Insecticides,
OO-dimethy S-(dimethylcarbamoyl)methyl phosphorothioilo-,
Thionate.
From Montecatini Societa Generale per l Industria
Mineraria e Chimica
- 9195-68
FUNGICIDAL COMPOSITIONS CONTAINING BENZIMINAZOLE).
J Sci Food Agr 15 (10) II-191-1
Oct 1964 382 S012
Benziminazole, Fungicides.
- 9196-68
SULPHONE COMPOUND AS A PESTICIDE.
J Sci Food Agr 15 (12) II-295-1
Dec 1964 382 S012
Hexachlorobicyclo(2,2,1)hept-2-en-5-yl vinyl sulfone,
Pesticides.
Hooker Chemical Corp.
- 9197-68
FUNGICIDAL COMPOSITIONS.
J Sci Food Agr 15 (10) II-190-6
Oct 1964 382 S012
Acetamidoazobenzenesulfonic acid, p-,
Aminobenzeneazosulfonic acid, p-,
Aminophenylhydrazinesulfonic acid, p-,
Dimethylaminophenyldiazosulfonic acid, p-,
Dimethylaminophenylhydrazinesulfonic acid, p-,
Para-acetamidoazobenzenesulfonic acid,
Para-aminobenzeneazosulfonic acid,
Para-aminophenylhydrazinesulfonic acid,
Para-dimethylaminophenylhydrazinesulfonic acid,
Para-dimethylaminophenyldiazosulfonic acid,
Quinoneneoximine-benzoylhydrazone,
Quinoneoximine-benzoylhydrazone.
- 9198-68
PHOSPHONIC AND THIOPHOSPHONIC ACID ESTERS.
J Sci Food Agr 15 (11) II-244-3
Nov 1964 382 S012
Insecticides, Phosphonic acid esters,
Phosphonothioic acid esters.
From Farbenfabriken Bayer A.G. (inventors W. Lorenz
and G. Schrader)
- 9199-68
ANHYDROUS ETHYLENE BISDITHIOCARBAMATES.
J Sci Food Agr 15 (10) II-190-5
Oct 1964 382 S012
Ethylene bisdithiocarbamate anhydrate, Fungicides.
From rohm and haas co.
- 9200-68
PHOSPHORIC, PHOSPHONIC AND PHOSPHINIC ACID ESTERS AND THE THIO ANALOGUES THEREOF.
J Sci Food Agr 15 (11) II-245-3
Nov 1964 382 S012
Insecticides, Phosphinothioic acid esters,
Phosphonothioic acid esters, Phosphorothioic acid esters,
Phosphorus acid esters.
From Farbenfabriken Bayer A.-G.
- 9201-68
RECOMMENDED ANALYTICAL METHODS FOR PESTICIDES. 17. 2,4-D, 2,4-D SALTS AND 2,4-D FORMULATIONS. 18. DDT DUSTS AND WATER-DISPERSIBLE POWDERS.
J Sci Food Agr 15 (10) II-186-5
Oct 1964 382 S012
Chemistry, Chromatography, DDT, Methodology, 2,4-D, 2,4,5-T.
Collaborative pesticides analytical committee
- 9202-68
WEDGE-LAYER CHROMATOGRAPHY FOR PESTICIDE RESIDUE CLEAN-UP.
D C Abbott J Thomson
J Sci Food Agr 15 (11) II-278-4
Nov 1964 382 S012
Chromatography, Crops, Pesticide residues, Soils, Water.
- 9203-68
ELECTRON AFFINITY RESIDUE DETERMINATION OF NITRATED MCP, MCPB AND NAA CONVERSION OF MCPB TO MCP IN BEAN PLANTS.
C A Bache D J Lisk M A Loos
J Sci Food Agr 15 (11) II-278-2
Nov 1964 382 S012
Electron capture, Herbicide residues, MCP, MCPB,
Naphthaleneacetic acid, Nitration.
- 9204-68
NORIT-A CLEAN-UP FOR CHLORINATE PESTICIDE ANALYSIS BY MICROCOULOMETRIC GAS CHROMATOGRAPHY.
R A Baetz
J Sci Food Agr 15 (11) II-278-1
Nov 1964 382 S012
Carbon, Chlorinated hydrocarbons, Chromatography, Coulometry,
Pesticide residues.
- 9205-68
GAS-CHROMATOGRAPHIC ANALYSIS OF PESTICIDE FORMULATIONS.
J P Barrette R Payfer
J Sci Food Agr 15 (11) II-243-1
Nov 1964 382 S012

BIBLIOGRAPHY

70 9206-68

- Chromatography, Pesticides.
- 9206-68
MIXTURES OF FERTILIZERS AND PHYTOPHARMACEUTICAL COMPOUNDS.
S Benari A Velniceriu
J Sci Food Agr 15(11) II-243-7
Nov 1964 382 S012
Fertilizers, Pesticides, Soil chemistry.
- 9207-68
DETERMINATION OF METHANOL AND ETHANOL IN DILUTE SOLUTIONS.
T Beyrich R Pohloudek-Fabini
J Sci Food Agr 12(4) I-190-2
Apr 1961 382 S012
Assay, Distillation, Methanol.
- 9208-68
DETERMINATION OF CHLORINE IN PESTICIDES BY THE SCHONIGER OXYGEN FLASK.
W R Bontoyan
J Sci Food Agr 15(11) II-243-5
Nov 1964 382 S012
Chlorine, Pesticides, Schoniger oxygen flask.
- 9209-68
BIOLOGICAL DEGRADATION OF O,O-DIETHYL O-NAPHTHALIMIDO PHOSPHOROTHIOATE (BAYER 22408).
N R Boyd Jr B W Arthur
J Econ Entomol 53(5) 848-853, 19 REFS., 4 TABS.
Oct 1960 421 J822
Bayer 22408, Cotton, Insects,
O,O-diethyl O-naphthalimido phosphorothioate, Rats.
- 9210-68
ELECTRON-CAPTURE GAS CHROMATOGRAPHY FOR ANALYSIS OF MULTIPLE CHLORINATED PESTICIDE RESIDUES IN VEGETABLES.
J Burke L Giuffrida
J Sci Food Agr 15(11) II-260-3
Nov 1964 382 S012
Chromatography, Electron capture, Pesticide residues, Vegetables.
- 9211-68
RAPID VOLUMETRIC DETERMINATION OF HALOGENATED ORGANO-MERCURIC COMPOUNDS, WITH APPLICATIONS TO THE DETERMINATIONS OF THE ACTIVE SUBSTANCE IN CONDITICNED FUNGICIDE PRODUCTS.
I Dragusin N Totir
J Sci Food Agr 15(10) II-222-2
Oct 1964 382 S012
Alkylmercuric compounds, Fungicides,
Phenylmercuric compounds, Volumetric analysis.
- 9212-68
COMPARATIVE BACTERICIDAL PROPERTIES OF N-POLYHALOETHYLTHIOHYDANTOINS.
P H Eastburg F T Maurer Jr., W D Thomas
J Sci Food Agr 15(10) II-189-7
Oct 1964 382 S012
Bacteria, Bacterial diseases (plants), Bactericides,
N-polyhaloethylthiohydantoin, N(1,1,2,2-tetrahaloethylthio)-hydantoin.
- 9213-68
PROPERTIES AND FUNGICIDAL ACTIVITY OF AROXYALKANEHYDROXAMIC ACIDS. VI. INFLUENCE OF IODINE AS SUBSTITUENT.
Z Eckstein J Tolak
J Sci Food Agr 15(10) II-189-5
Oct 1964 382 S012
Aroxyalkanehydroxamic acids, Fungicides,
Halogen-iodo-phenoxyacetylhydroxamic acids,
Iodo-phenoxyacetylhydroxamic acids.
- 9214-68
FUNGICIDAL ACTIVITY OF SOME 2-NITROPROPANE-1,3-DIOL DERIVATIVES.
Z Eckstein E Grochowski R Kowalik T Urbanski
J Sci Food Agr 15(10) II-189-6
Oct 1964 382 S012
Fungicides, Nitropropane-1,3-diol derivatives, 2-.
- 9215-68
ANALYSIS OF MCPA-TBA HERBICIDE FORMULATIONS. II. GAS-LIQUID CHROMATOGRAPHIC METHOD FOR DETERMINATION OF 4-CHLORO-2-METHYLPHENOXYACETIC ACID.
K Gardner K C Overton
J Sci Food Agr 12(4) I-173-8
Apr 1961 382 S012
Chloro-2-methylphenoxyacetic acid, 4-, Chromatography,
Herbicides.
- 9216-68
ANALYSIS OF MICRO AMOUNTS OF BINAPACRYL, EPN, METHYL PARATHION AND PARATHION.
D A George
J Sci Food Agr 15(11) II-278-6
Nov 1964 382 S012
Azinphosmethyl, Binapacryl, Colorimetry, EPN,
Methyl parathion, Parathion.
- 9217-68
PHOTOLYSIS OF PYRETHRUM.
G D Glynne Jones
J Sci Food Agr 12(1) I-15-5
Jan 1961 382 S012
Chlorophylls, Light, Para-aminoazobenzene, Photochemistry,
Pyrethrum.
- 9218-68
GAS CHROMATOGRAPHIC DETERMINATION OF ORGANOPHOSPHORUS INSECTICIDES USING ZEISEL ALKOXYL REACTION.
W H Gutenmann D J Lisk
J Sci Food Agr 15(11) II-279-1
Nov 1964 382 S012
Chromatography, Electron capture, Insecticides,
Phosphorus compounds, Zeisel determination.
- 9219-68
PREPARATION OF ELECTRON CAPTURING DERIVATIVES OF INSENSITIVE PESTICIDES.
W H Gutenmann D J Lisk
J Sci Food Agr 15(10) II-224-2
Oct 1964 382 S012
Bromine, Chromatography, Electron capture, Esters.
- 9220-68
CHROMATOGRAPHIC DETERMINATION OF SULFOXIDE.
J B Hans L Manolev R W Price
J Sci Food Agr 15(11) II-242-2
Nov 1964 382 S012
Chromatography,
Methylenedioxy-4-(2-(octylsulfinyl)propyl)benzene, 1,2-,
Spectrophotometry, Sulfoxide.
- 9221-68
COMPARISON OF COLORIMETRIC AND POTENTIOMETRIC METHODS FOR DETERMINATION OF PARATHION AND METHYL PARATHION IN FORMULATIONS.
K Helrich
J Sci Food Agr 15(11) II-243-6
Nov 1964 382 S012
Colorimetry, Infrared spectra, Methyl parathion, Parathion,
Potentiometry.
- 9222-68
POTENTIOMETRIC METHOD FOR DETERMINATION OF CHLORIDE IN MILK.
B L Herrington D H Kleyn
J Sci Food Agr 12(3) I-146-1
Mar 1961 382 S012
Milk, Potentiometry.
- 9223-68
DETERMINATION OF SEVIN INSECTICIDE RESIDUES IN FRUITS AND VEGETABLES.
D P Johnson
J Sci Food Agr 15(11) II-260-1
Nov 1964 382 S012
Carbaryl, Fruits, Insecticide residues, Vegetables.
- 9224-68
DETERMINATION OF TRICHLOROACETATE WHEN INCORPORATED IN AN NPK FERTILISER.
I Johnston
J Sci Food Agr 12(4) I-174-1
Apr 1961 382 S012
Chromatography, Fertilizers, Trichloroacetic acid.
- 9225-68
SEPARATION AND MEASUREMENT OF PERTHANE, DDD (TDE) AND DDT IN LEAFY VEGETABLES BY ELECTRON-CAPTURE GAS CHROMATOGRAPHY.
A K Klein J O Watts
J Sci Food Agr 15(11) II-260-2
Nov 1964 382 S012
Chromatography, DDT, Electron capture, Insecticide residues,
Perthane, TDE, Vegetables.
- 9226-68
THIN-LAYER CHROMATOGRAPHY FOR CHLORINATED PESTICIDE RESIDUE ANALYSIS.
M F Kovacs
J Sci Food Agr 15(10) II-224-1

BIBLIOGRAPHY

70 9246-68

- Oct 1964 382 S012
Chlorinated hydrocarbons, Chromatography, Pesticide residues.
- 9227-68
FUNDAMENTAL RESEARCH IS KEY TO SAFE, EFFECTIVE PESTICIDES.
S H McAllister
Agr Chem 17(5) 32-33, 100
May 1962 381 AG8
agricultural research, DDT, Herbicides, Pesticides.
- 9228-68
INFRA-RED SPECTRA OF ORGANIC PHOSPHATE PESTICIDES AND THEIR APPLICATION TO SOME PROBLEMS IN PHOSPHATE PESTICIDE ANALYSIS.
D F McCaulley J W Cook
J Sci Food Agr 12(4) I-174-2
Apr 1961 382 S012
Infrared spectra, Pesticides, Phosphates, Quantitative analysis.
- 9229-68
PAPER CHROMATOGRAPHY OF FERBAM, MANEB, NABAM, THIRAM, ZINEB AND ZIRAM.
W P McKinley S A Magarvey
J Sci Food Agr 12(5) I-224-4
May 1961 382 S012
Chromatography, Ferbam, Maneb, Nabam, Thiram, Zineb, Ziram.
- 9230-68
SENSITIVITY TESTS FOR 22 DIFFERENT CHLORINATED ORGANIC PESTICIDES BY PAPER CHROMATOGRAPHY.
L C Mitchell
J Sci Food Agr 15(11) II-278-5
Nov 1964 382 S012
Chromatography, Pesticide residues, Phenoxyethanol, 2-, Silver nitrate.
- 9231-68
DETERMINATION OF DDVP IN PESTICIDE FORMULATIONS BY THE INFRA-RED METHOD.
L E Mitchell
J Sci Food Agr 15(11) II-242-9
Nov 1964 382 S012
Dichlorvos, Infrared rays, Spectrophotometry.
- 9232-68
THIN-LAYER CHROMATOGRAPHY FOR CHLORINATED PESTICIDE RESIDUE ANALYSIS WITHOUT CLEAN-UP.
H V Morley M Chiba
J Sci Food Agr 15(11) II-278-3
Nov 1964 382 S012
Chlorinated hydrocarbons, Chromatography, Pesticide residues, Plant extracts.
- 9233-68
NICANDRENONE A NEW COMPOUND WITH INSECTICIDAL PROPERTIES, ISOLATED FROM NICANDRA PHYSALODES.
O Nalbandov R T Yamamoto G S Fraenkel
J Sci Food Agr 15(10) II-189-4
Oct 1964 382 S012
Insecticides, Nicandra, Nicandrenone.
- 9234-68
DETERMINATION OF CHLORINATED PESTICIDE RESIDUES IN FLUID MILK.
J H Onley
J Sci Food Agr 15(11) II-264-1
Nov 1964 382 S012
Chromatography, Electron capture, Milk, Pesticide residues.
- 9235-68
PHYSICO-CHEMICAL ASPECTS OF THE FORMULATION OF PESTICIDE PRODUCTS.
S Petrascu M Baltac M Ilie
J Sci Food Agr 15(11) II-238-4
Nov 1964 382 S012
Chemistry, Pesticides, Physics, Properties.
- 9236-68
UTILIZING WASTE GYPSUM FROM WET-PROCESS ACID MANUFACTURE.
V Sauchelli
Agr Chem 20(1) 64
Jan 1965 381 AG8
Ammonium sulfate, Phosphoric acid.
- 9237-68
GAS CHROMATOGRAPHIC COLUMNS FOR OPTIMUM RECOVERY OF CHLORINATED PESTICIDES.
H Shuman J R Collie
J Sci Food Agr 15(11) II-278-7
- Nov 1964 382 S012
Chromatography, Column packings, Pesticides.
- 9238-68
HERBICIDES AND PLANT GROWTH REGULATORS. XXXIX. SYNTHESIS OF SOME NEW UREA DERIVATIVES CONTAINING CARBOETHOXY GROUPS.
K D Shvetsova-Shilovskava S R Belan N N Melynikov
J Sci Food Agr 15(10) II-188-2
Oct 1964 382 S012
Chemical reactions, Herbicides, Plant regulators.
- 9239-68
ESCAPE OF METHYL BROMIDE THROUGH WALLBOARDS.
P Simmons
J Econ Entomol 53(5) 968-969
Oct 1960 421 J822
Fiberboard, Methyl bromide, Plywood.
- 9240-68
RECOVERY OF ETHYLENE CHLOROBROMIDE FROM AGRICULTURAL PRODUCTS.
W B Sinclair D L Lindgren R Forbes
J Sci Food Agr 15(10) II-186-6
Oct 1964 382 S012
Agricultural products, Bromochloroethane, Oranges, Quantitative analysis, Wheat.
- 9241-68
GRANULAR INSECTICIDES THEIR HISTORY AND LITERATURE.
P R Sperra
Agr Chem 17(4) 21-24, 102
Apr 1962 381 AG8
Agricultural history, DDT, Literature, Pesticides.
- 9242-68
ANALYSIS OF DITHIOCARBAMATES AND THIURAM DISULPHIDES USED IN AGRICULTURE. I. COLLABORATIVE STUDY OF MACRO-METHODS AVAILABLE FOR THE EVALUATION OF TECHNICAL AND FORMULATED PRODUCTS.
A Stevenson
J Sci Food Agr 15(11) II-239-6
Nov 1964 382 S012
Maneb, Thiram, Volumetric analysis, Zineb.
- 9243-68
DECOMPOSITION OF SODIUM N-METHYLDITHIOCARBAMATE IN SOIL.
N J Turner M E Corden
J Sci Food Agr 15(10) II-190-1
Oct 1964 382 S012
Decomposition, Sodium N-methyldithiocarbamate, Soil properties, Vapam.
- 9244-68
DETERMINATION OF METHANOL IN SPIRIT BY MEANS OF CHROMOTROPIC ACID.
L Uino T Salo
J Sci Food Agr 12(4) I-190-1
Apr 1961 382 S012
Assay, Chromotropic acid, Methanol.
- 9245-68
FUMIGANT VAPORISER UNIT FOR USE IN LABORATORY EXPERIMENTS.
W K Whitney O K Jantz
J Sci Food Agr 12(1) I-22-2
Jan 1961 382 S012
Equipment, Fumigants.
- 9246-68
NEW HERBICIDES DEVELOPMENTS IN CHEMICAL NEED-CONTROL 1958-60.
E K Woodford L Kasasian
J Sci Food Agr 12(1) I-22-3
Jan 1961 382 S012
Weed control.

80 ENGINEERING

- 9247-68
HERBICIDE APPLICATION AND MIST BLOWERS ARE DISCUSSED BY AGRICULTURAL ENGINEERS.
Agr Chem 18(8) 47-49,84
Aug 1963 381 AG8
Agricultural engineering, Herbicides, Mist blowers, Pesticide application.
- 9248-68
CESSNA-SURENSEN COMBINATION NOW AVAILABLE TO U.S. APPLICATIONS.
Agr Chem 17(6) 64-66, 101
Jun 1962 381 AG8
Aircraft, Pesticide application.
- 9249-68
CUSTOM GRINDING SERVICE UTILIZES HEATED AIR.
Agr Chem 20(4) 26-28
Apr 1965 381 AG8
Air, Insecticides, Particle size determination, Temperature.
- 9250-68
SAFETY RECORD.
Agr Chem 17(4) 56-58
Apr 1962 381 AG8
Aeronautics, Agriculture, Industrial medicine.
- 9251-68
SHIFT TO ELECTRIC FORK TRUCKS MEANS SAVINGS FOR PESTICIDE EXPORTER.
Agr Chem 18(9) 41-42
Sep 1963 381 AG8
Foreign trade, Pesticides, Trucks.
- 9252-68
AGRICULTURAL FLYING IN 1950 S CHARACTERIZED BY STABILITY AND GROWTH.
Agr Chem 17(1) 53-54, 1 TAB.
Jan 1962 381 AG8
Aeronautics, Agriculture.
- 9253-68
COMPACT HELICOPTER IS AVAILABLE WITH 60-GALLON SPRAYING SYSTEM.
Agr Chem 17(6) 59-61
Jun 1962 381 AG8
Aerial spraying, Helicopters.
- 9254-68
DETERMINATION OF ORGANOPHOSPHORUS INSECTICIDE RESIDUES USING THE EMISSION SPECTROMETRIC DETECTOR.
C A Bache D J Lisk
Anal Chem 37(12) 1477-1480, 9 REFS.
Nov 1965 381 J825A
Insecticide residues, Phosphorus, Plant residues, Spectrophotometry.
- 9255-68
LIGHT INTENSITY AND THE ATTRACTION OF MOSQUITOES TO LIGHT TRAPS.
A R Barr T A Smith M M Boreham
J Econ Entomol 53(5) 876-880, 8 REFS., 5 TABS.
Oct 1960 421 J822
Aedes, Culex, Light traps.
- 9256-68
SPRAY APPLICATION PROBLEMS. LXIX. ASSESSMENT OF DROPLET SPECTRA OF SPRAYING EQUIPMENT WITH THE FLYING SHOT PARTICLE RESOLVER.
D I Conibear N G Morgan
J Sci Food Agr 15(11) II-238-3
Nov 1964 382 S012
Particle size determination, Spraying, Spraying equipment.
- 9257-68
AN EFFECTIVE, ECONOMICAL FLYTRAP.
H R Dodge
J Econ Entomol 53(6) 1131-1132, 2 REFS.
Dec 1960 421 J822
- Baits, Fly traps.
- 9258-68
A TRAP TO QUANTITATIVELY RECOVER DEAD AND ABNORMAL HONEY BEES FROM THE HIVE.
N E Gary
J Econ Entomol 53(5) 782-785, BIBL. 784-785
Oct 1960 421 J822
Apis mellifera, Insect traps, Mortality.
- 9259-68
FLAME IONIZATION DETECTOR HIGHLY SELECTIVE AND SENSITIVE TO PHOSPHORUS. SODIUM THERMIONIC DETECTOR.
L Giuffrida
J Sci Food Agr 15(11) II-243-3
Nov 1964 382 S012
Flame ionization detector, Phosphorus, Sodium thermionic detector.
- 9260-68
NEW TECHNIQUES FOR SCREENING COCKROACH REPELLENTS.
L D Goodhue
J Econ Entomol 53(5) 805-810, TABS.
Oct 1960 421 J822
Blattidae, Butylsulfenyl dimethyl dithiocarbamate, tert-, Equipment, Hydroxyethyl n-octyl sulfide, 2-, Hydroxypropyl n-octyl sulfide, 2-, Insect repellents, N(2-Ethylhexyl)bicyclo-2,2,1-hept-5-ene-2,3-dicarboxamide, Tetrahydrofurfural, 2,3,4,5-bis(delta-2-butenylene).
- 9261-68
IMPROVEMENT OF IDENTIFICATION IN THE GAS-LIQUID CHROMATOGRAPHIC ANALYSIS OF AGRICULTURAL SAMPLES FOR RESIDUES OF SOME CHLORINATED PESTICIDES. I. IMPROVEMENT OF RESOLUTION ON SINGLE COLUMNS AND APPLICATION OF THE MULTI-COLUMN SPECTROCHROMATOGRAM. II. A HALOGEN-SENSITIVE DETECTOR IN COMPLEMENTARY OR ALTERNATIVE USE TO AN ELECTRON-CAPTURE IONISATION DETECTOR.
R S Goulden E S Goodwin L Davies
J Sci Food Agr 15(10) II-222-3.
Oct 1964 382 S012
Chromatography, Pesticide residues.
- 9262-68
A VERSATILE AUTOMATIC MICROAPPLICATOR.
E W Hamilton P A Dahm
J Econ Entomol 53(5) 853-856, 5 REFS.
Oct 1960 421 J822
Insecticides, Microapplicator, Musca domestica, Radioactive substances, Toxicology.
- 9263-68
THE ENVIRONMENT OF AN INSECT FIELD CAGE.
L F Hand A J Keaster
J Econ Entomol 60(4) 910-915, MAP
15 Aug 1967 421 J822
Environment, Insect cages, Insect rearing equipment, Ostrinia nubilalis.
Abstract
- 9264-68
SPRAY APPLICATION PROBLEMS. LXX. EQUIPMENT FOR HERBICIDE SPRAYING IN PLANTATION CROPS.
C W Harper N C Morgan J H Russell
J Sci Food Agr 15(11) II-242-8
Nov 1964 382 S012
Herbicides, Plantations, Spraying equipment.
- 9265-68
GYPSY MOTH (PORTHETRIA DISPAR) DETECTION WITH THE NATURAL FEMALE SEX LURE.
R F Holbrook M Beroza E D Burgess
J Econ Entomol 53(5) 751-756
Oct 1960 421 J822
Baits, Porthetria, Sex attractants, Traps.
- 9266-68
MASS-PRODUCTION METHODS FOR THE COLONIZATION OF CULICOIDES VARIIPENNIS SONORENSIS.
R H Jones
J Econ Entomol 53(5) 731-735
Oct 1960 421 J822
Colonization (insects), Culicoides, Insect biology, Insect cages.
- 9267-68
A NEW TECHNIQUE FOR SHIPMENT OF NATURAL ENEMIES OF INSECTS.
J Landi P DeBach
J Econ Entomol 53(5) 970-971, 1 REF.
Oct 1960 421 J822

Containers, Parasitic insects, Predaceous insects.

- 9268-68
A COMPARISON OF TWO METHODS OF MASS-MARKING FORAGING HONEY BEES.
M D Levin
J Econ Entomol 53(4) 696-698
Aug 1960 421 J822
Apis mellifera, Forage plants, Genetics, Pollination, Radioactivity.
- 9269-68
A LEAD-SOLDER ALLOY CASTING TECHNIQUE FOR STUDYING THE STRUCTURE OF ANTS NESTS.
G P Markin
Entomol Soc Amer Ann 57(3) 360-362, 5 REFS.
May 1964 420 EN82
Alloys, Formicidae, Lead.
- 9270-68
X-RAY MICROSCOPE TO STUDY BEHAVIOR OF INTERNAL-INFESTING GRAIN INSECTS.
J R Pedersen R A Brown
J Econ Entomol 53(4) 678-679
Aug 1960 421 J822
Grain, Insects, Seeds, X-ray microscopes.
- 9271-68
INSECTARY PRODUCTION OF STETHORUS SPECIES.
G T Scriven C A Fleschner
J Econ Entomol 53(6) 982-985
Dec 1960 421 J822
Equipment, Insect rearing, Insectaries, Oranges, Stethorus, Tetranychidae.
- 9272-68
SIMPLE APPARATUS FOR COMBUSTION OF SAMPLES CONTAINING 14+C-LABELLED PESTICIDES FOR RESIDUE ANALYSIS.
G N Smith P D Ludwig K C Wright W R Hauriedel
J Sci Food Agr 15(10) II-222-1
Oct 1964 382 S012
Carbon isotopes, Combustion analysis, Pesticide residues.
- 9273-68
A SERVICEABLE IRRADIATOR-SHIELD DEVICE.
T L Smith
Entomol Soc Amer Ann 58(2) 245-247, 5 REFS., 5 FIGS.
Mar 1965 420 EN82
Equipment, Irradiation, Isotopes.
- 9274-68
EVALUATION OF DESIGNS AND INSTALLATIONS OF ELECTRIC INSECT TRAPS TO COLLECT HOLLOWWORM MOTHS IN REEVES COUNTY, TEXAS.
A N Sparks R L Wright J P Hollingsworth
J Econ Entomol 60 (4) 929-936
15 Aug 1967 421 J822
Cotton, Heliothis zea, Insect traps, Light traps, Trichoplusia ni.
Abstract
- 9275-68
AN IMPROVED TRAP FOR DECIDUOUS TREE FRUIT FLIES.
G W Still
J Econ Entomol 53(5) 967
Oct 1960 421 J822
Insect traps, Tephritidae, Trees.
- 9276-68
HIGH PRESSURE VS. MIST FORMATION.
F Wilson
Agr Chem 17(6) 62, 99
Jun 1962 381 AG8
Air, Mist blowers, Spraying.
- 9277-68
FREEZE-DRYING OF SPIDERS AND IMMATURE INSECTS.
J P Woodring M S Blum
Entomol Soc Amer Ann 56(2) 138-141, 6 REFS.
Mar 1963 420 EN82
Freeze drying, Spiders.
- 9278-68
SURVEY OF LATIN AMERICAN INSECTICIDE USE.
Agr Chem 18(11) 33-34
Nov 1963 381 AG8
Culicidae, Dichlorvos, Foreign trade, Insecticides.
- 9279-68
EXPERTS HESITATE TO INDICT PESTICIDES.
Agr Chem 18(8) 25,78
Aug 1963 381 AG8
Hematologic diseases, Neoplasms, Pesticides.
- 9280-68
PESTICIDES ARE BLAMED FOR 911 CALIFORNIA INJURIES.
Agr Chem 18(7) 27-28, 80
Jul 1963 381 AG8
Accidents, Carbaryl, DDT, Mevinphos, Parathion, Pest control operators, Pesticides.
- 9281-68
MINNESOTA PESTICIDE GROUP DISCUSSES THE INDUSTRY'S REACTION TO CRITICISM.
Agr Chem 18(10) 83
Oct 1963 381 AG8
Industry, Pest control, Pesticides.

Economics

- 9282-68
CARRYOVER STOCKS OF PESTICIDES INCREASED OVER 1960 LEVEL.
Agr Chem 17(3) 94
Mar 1962 381 AG8
Aldrin, Demand, DDT, Overproduction, Pesticides, 2,4-D.
- 9283-68
CSMA PANEL DISCUSSES LABELING.
Agr Chem 18(7) 32
Jul 1963 381 AG8
Labeling, Pesticides.
- 9284-68
PESTICIDES AND PROFIT.
S H Bear
Agr Chem 18(11) 50-51, 118-119
Nov 1963 381 AG8
Legislation, Marketing, Pesticides, Profits.
- 9285-68
NO BUGS SHRINKS EAST COAST MARKET.
S H Bear
Agr Chem 18(10) 26
Oct 1963 381 AG8
Fungicides, Heliothis zea, Insecticides, Marketing.
- 9286-68
BRINKLEY DISCUSSES PESTICIDES AT HANKER'S MEETING.
P C Brinkley
Agr Chem 20(4) 107
Apr 1965 381 AG8
Agricultural productivity, Chemicals, Pesticides.
- 9287-68
LOWERING COTTON PRODUCTION COSTS IS MAJOR TOPIC OF BELT-WIDE MEETING.
O L Brooks R W Pearson J R Brazzel C M Ignoffo
Agr Chem 20(2) 30-34, 102-104
Feb 1965 381 AG8
Agricultural economics, Cotton.

BIBLIOGRAPHY

90 9288-68

9288-68

USE OF SULFUR DOUBLES 62 SALES.
I R Burden
Agr Chem 18(10) 30,121-122
Oct 1963 381 AG8
Sales, Sulfur.

9289-68

HEAVY SUPPLY AND LOW DEMAND.
A F Fuchs
Agr Chem 18(10) 28-29
Oct 1963 381 AG8
Anthonomus grandis, DDT, Herbicides, Parathion,
Supply and demand, Weed control.

9290-68

PESTICIDE EXPORTS FROM U.S. INCREASE BY 22 PER CENT IN
1962.
C A Graham
Agr Chem 18(8) 29,80-81, 1 TAB.
Aug 1963 381 AG8
Copper sulfate, DDT, Foreign trade, Pesticides.

9291-68

SELF-ANALYSIS MAY BE HELPFUL.
J E Hewitt
Agr Chem 18(10) 27
Oct 1963 381 AG8
Marketing, Pesticides.

9292-68

PRODUCTION AND USE OF CHEMICAL AGENTS FOR PLANT PROTECTION
AND PARASITE CONTROL.
A Jamar F Schapitz
J Sci Food Agr 15(12) II-293-1
Dec 1964 382 S012
Agricultural chemistry, Agricultural industries,
Chemical control (plant diseases), East Germany.

9293-68

PESTICIDE SALES RISE BY 2 MILLION DOLLARS IN CANADA.
L A Miller
Agr Chem 20(2) 73
Feb 1965 381 AG8
Agricultural economics, Insect control, Pesticides,
Weed control.

9294-68

INDUSTRY MUST ASSUME THE OFFENSIVE IN INFORMING THE PUBLIC
AND PUBLIC OFFICIALS.
L H Milliman
Agr Chem 20(2) 23-24,98-101
Feb 1965 381 AG8
Chemicals, Industry, Public officials.

9295-68

HOW WILL THE OIL COMPANIES CHANGE THE PESTICIDE BUSINESS.
T Riedeberg
Agr Chem 18(10) 24-25,116-119, 1 TAB.
Oct 1963 381 AG8
Fertilizers, Marketing, Oils, Pesticides.

9296-68

IS THERE ROOM FOR U.S. FIRMS IN THE EUROPEAN PESTICIDE
MARKET.
J Rosicky R S First
Agr Chem 18(12) 24-26,92-93, 5 TABS.
Dec 1963 381 AG8
DDT, Europe, Market areas, Pesticides, United States, 2,4-D.

9297-68

RESIDUE SITUATION HURTS DDT SALES.
E F Schroeder Jr
Agr Chem 18(10) 30
Oct 1963 381 AG8
Azinphosmethyl, DDT, Heliothis zea, Pesticide residues,
Sales.

9298-68

1962 PESTICIDE SALES SHOW 14 PER CENT INCREASE.
H H Shephard J N Mahan C A Graham
Agr Chem 18(10) 44-48,126-128
Oct 1963 381 AG8
Pesticides, Sales.

9299-68

THE FORAGE POTENTIAL FOR FARMER AND INDUSTRY.
R E Wagner
Agr Chem 20(5) 16-18,102
May 1965 381 AG8

Forage plants, Industry.

9300-68

WEATHER PLAYED HAVOC WITH SALES.
T J White
Agr Chem 18(10) 29
Oct 1963 381 AG8
Fungicides, Herbicides, Sales.

Education

9301-68

PESTICIDES AND THE INDUSTRY ARE TARGET OF ONE-SIDED ATTACK.
Agr Chem 17(8) 20-23, 72-73
Aug 1962 381 AG8
Pesticides, Poisoning.

9302-68

LIVING SAFELY WITH PESTICIDES THROUGH EDUCATION AND UNDER-
STANDING.
Agr Chem 18(9) 52
Sep 1963 381 AG8
DDT, Fish, Pesticides, Public health.

9303-68

EXPERTS DEFEND USE OF PESTICIDES AT NEWYORK SYMPOSIUM.
Agr Chem 18(10) 102
Oct 1963 381 AG8
Legislation, Pesticides.

9304-68

INDUSTRY SHOULD HELP EDUCATE GROWERS.
W R Peele
Agr Chem 18(10) 29-30,120
Oct 1963 381 AG8
Herbicides, Pesticides, Sales.

9305-68

UNIVERSITY POLICY IN RESPECT TO PESTICIDE RESEARCH.
M L Peterson
Agr Chem 18(12) 51-52
Dec 1963 381 AG8
Agricultural research, Pesticides, Universities.

9306-68

EDUCATION PROGRAMS UPS HERBICIDE USE.
E H Phillips
Agr Chem 18(10) 28
Oct 1963 381 AG8
Education, Herbicides, Weed control.

9307-68

FARMERS AWARE OF PESTICIDE VALUE.
M E Wierenga
Agr Chem 18(10) 30,122
Oct 1963 381 AG8
Pesticides, Sales.

Regulations

9308-68

RESEARCH, REGULATIONS AND THE NACA.
Agr Chem 20(11) 37-44,104-105
Nov 1965 381 AG8
Economic policy, Pesticides, Regulation (pesticides),
Research.

9309-68

STRICTER STANDARDS SEEN FOR PESTICIDES.
Agr Chem 18(9) 69
Sep 1963 381 AG8
Legislation, Pesticides.

BIBLIOGRAPHY

90 9316-68

- 9310-68
PESTICIDE INDUSTRY PRESENTS ITS CASE AT CONGRESSIONAL
COMMITTEE HEARINGS.
Agr Chem 18(7) 20-21, 72
Jul 1963 381 AG8
Biological control, Industry, Pesticide residues, Pesticides,
Public health.
- 9311-68
USDA MOVES TO TIGHTEN PESTICIDE LABELING REGULATIONS.
Agr Chem 18(10) 38,125-126
Oct 1963 381 AG8
Labeling, Legislation, Pesticides.
- 9312-68
DIFFERENT LABELS FOR DIFFERENT STATES.
Agr Chem 18(7) 34,76
Jul 1963 381 AG8
Labeling, Legislation, Pesticides.
- 9313-68
PRESENT PESTICIDE CONTROLS ARE ADEQUATE.
Agr Chem 18(9) 66-67,175
Sep 1963 381 AG8
Legislation, Pesticides.
- 9314-68
THE PESTICIDE INDUSTRY S CASE.
Agr Chem 18(7) 21, 72-74
Jul 1963 381 AG8
Industry, Pesticides.
- 9315-68
STATES PROTEST END OF USDA ERADICATION PROGRAM.
V Buckmaster
Agr Chem 20(4) 48-49,121-123
Apr 1965 381 AG8
Government budgets, Plant pest control.
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