

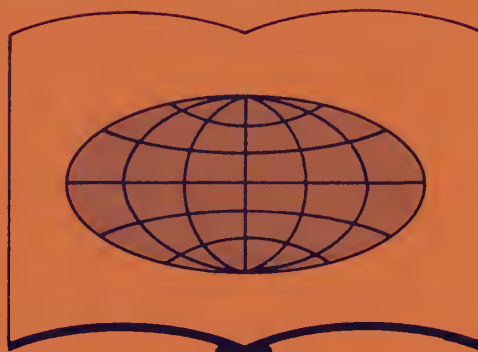
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Pesticides DOCUMENTATION BULLETIN

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Volume 5
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PESTICIDES DOCUMENTATION BULLETIN

Volume 5
October 31, 1969
Number 22

A Bi-Weekly Publication of U.S. Department of Agriculture

OBJECTIVES AND SCOPE

The *Pesticides Documentation Bulletin* is compiled by the National Agricultural Library's Pesticides Information Center to facilitate national research efforts in all aspects of pest control. This bi-weekly index to the literature includes coverage of diseases, insects, nematodes, parasites, weeds and other pests affecting plants, animals, man, our natural resources and other values in man's environment. Special emphasis is given to the literature on toxicological, physiological and epidemiological aspects of pests and their control by chemical biological and integrated methods.

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

FORMAT

The *Bulletin* is a categorized bibliography, with citations arranged alphabetically by author under the following major subjects:

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

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

Subject Index: Subject descriptors appear in the index followed by title arranged numerically by accession number. The Agricultural/Biological Vocabulary developed by the National Agricultural Library is used as a basic thesaurus of descriptors.

Biographical Index: Names of first authors are arranged alphabetically, followed by organizational affiliation and accession number.

Author Index: Names of personal authors are arranged alphabetically, followed by accession numbers of pertinent citations.

Organizational Index: Names of corporate authors or sponsoring organizations are arranged alphabetically followed by accession numbers of pertinent citations.

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In addition to the citations contained in the Bulletin, the Pesticides Information Center maintains two other files, the INTREDIS Register and the Herbicides Data File.

The INTREDIS Register is a computer data bank in the field of forest pathology. It contains title and author references to abstracted articles including subject, country, host plant genus or species, organisms causing the diseases, abstracting journal and year of publication. The computer search uses boolean parameters in any combination of elements listed.

The Herbicides Data File consists of reports on field tests conducted by the Crops Protection Research Branch, Crop Research Division, Agriculture Research Service. Each test record contains the following items of information:

- Compound Tested
- Company furnishing the compound
- Author or Investigator
- Test Sponsor
- Date
- Location
- Mode of Application
- Rates of Application
- Soil Types
- Carriers
- Crops or Weeds tested with phytotoxicity ratings
- Associated documentation

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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.

Use of funds for printing this publication approved by the Director of the Bureau of the Budget (May 23, 1968).

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This publication reports research involving pesticides. It does not contain recommendations for their use, nor does it imply that the uses discussed here have been registered. All uses of pesticides must be registered by appropriate State and/or Federal agencies before they can be recommended.

CAUTION: Pesticides can be injurious to humans, domestic animals, desirable plants, and fish or other wildlife—if they are not handled or applied properly. Use all pesticides selectively and carefully. Follow recommended practices for the disposal of surplus pesticides and pesticide containers.

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- 12936-69**
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Chrysomelidae, Insect identification, Insect taxonomy, Zipanginia.

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C Ritchot

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Jan 1969 420 EN822

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Catalogs, Insect morphology, Insect taxonomy, Platypodidae, Scolytidae, Zoogeography.
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Entomol Soc Amer Ann 62(5):1128-1152 REF
15 Sep 1969 420 EN82
Aphididae, Coniferae, Insect taxonomy, Roots.
- 12991-69**
IXODID TICKS (IXODIDAE)--THE PARASITES OF SOME REPTILE SPECIES IN TADJIKISTAN. (RUS)
O A Starkov S A Saïid-Aliev
Akad Nauk Tadzh Ssr Dokl 11(6):64-66
1968 511 AK193D
Insect taxonomy, Ixodidae, Parasitic insects, Reptilia, Zoogeography.
- 12992-69**
MILKY DISEASE BACTERIA.
K H Steinkraus H Tashiro
Appl Microbiol 15(2):325-333 MAP REF
Mar 1967 448.3 AP5
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- 12993-69**
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MAP
1964 QL461.E58
Environment, Ethmia candidella, Ethmia fumidella, Ethmia pusiella, Insect identification, Yponomeutidae, Zoogeography.
- 12994-69**
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C A Tauber M J Tauber
Can Entomol 100(6):623-629
Jun 1968 421 C16
Insect biology, Insect taxonomy, Larvae, Lomamyia, Neuroptera.
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DESCRIPTIONS OF NEW SPECIES OF HYS-TRICHOPSYLLID FLEAS WITH NOTES ON ARCHED PRONOTAL COMBS, CONVERGENT EVOLUTION AND ZOOGEOGRAPHY (SIPHONAPTERA).
R Traub T M Evans
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- 20 Nov 1967 421 P11
Insect evolution, Insect morphology, Insect taxonomy, Siphonaptera, Zoogeography.
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THE GENUS LOPHOTHYGATER MOURE AND MICHENER, 1955 (HYMENOPTERA-APOIDEA). (POR0)
D Urban
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Sep 1967 410 D94
Apoidea, Insect taxonomy, Zoogeography.
- 12997-69**
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A Vigna Taglianti
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- 12998-69**
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V Vomcro
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Carabidae, Insect taxonomy, Larvae. English and German abstracts.
- 12999-69**
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J A L Watson
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Corduliidae, Insect taxonomy.
- 13000-69**
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T Yano
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Chrysomelidae, Insect biology, Insect identification, Insect taxonomy, Mantura.
- 13001-69**
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Coreidae, Insect biology, Life cycle, Surveys.
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- 13002-69**
VARIATION IN THE RESPONSE TO ENDRIN OF PROGENY FROM PAIRS OF BOLLWORMS.
R H Adams J H Young
J Econ Entomol 62(3):616-617
16 Jun 1969 421 J822
Chlorinated hydrocarbons, Cotton, Endrin, Heliothis zea, Insect pests, Insecticide resistant insects, Insecticides, Mortality.
- 13003-69**
RESPONSE OF HELIOTHIS SPP. (LEPIDOPTERA: NOCTUIDAE) TO ULTRASOUND WHEN RESTING, FEEDING, COURTING, MATING, OR OVIPOSITING.
H R Agee
Entomol Soc Amer Ann 62(5):1122-1128
15 Sep 1969 420 EN82
Feeding, Heliothis, Insect behavior, Oviposition, Sex behavior, Sound waves.
- 13004-69**
MATING BEHAVIOR OF BOLLWORM MOTHS.
H R Agee
Entomol Soc Amer Ann 62(5):1120-1122
15 Sep 1969 420 EN82
Heliothis zea, Insect behavior, Sex behavior.
- 13005-69**
A COMPARISON OF THREE STRAINS OF ORYZAEPHILUS SURINAMENSIS (L.) (COL., SILVANIDAE) ON A TEMPERATURE-MOISTURE GRADIENT.
T G Amos S N Dennler
J Stored Prod Res 5(2):173-175
Aug 1969 421 J829
Humidity, Insect morphology, Oryzaephilus surinamensis, Temperature.
- 13006-69**
THE EFFECT OF RADIOACTIVE PHOSPHORUS ON THE DEVELOPMENT OF AEDES AEGYPTI LARVAE.
M Anwar L J Middleton
Hawaii Entomol Soc Proc 19(3):361-366
Jun 1967 420 H312
Aedes aegypti, Insect eggs, Insect metabolism, Insect physiology, Larvae, Ovulation, Phosphorus isotopes, Radiobiology, Sterility.
- 13007-69**
LEUCOPIS ALTICEPS CZERNY AS A PREDATOR SCALE INSECT (PARTHENOLECANIUM CORNI BOUCHE) AND EUROPEAN PEACH SCALE (PARTHENOLECANIUM PERSICAE F.) IN TADJIKISTAN. (RUS)
T Babayev
Akad Nauk Tadzh Ssr Dokl 11(10):68-70
1968 511 AK193D
Coccoidea, Insect behavior, Lecanium corni, Lecanium persicae, Leucopis, Predaceous insects, Zoogeography.
- 13008-69**
FIELD AND LABORATORY STUDIES ON SEX RATIO IN IPS ACUMINATUS (COLEOPTERA: SCOLYTIDAE) IN NORWAY.
A Bakke
Can Entomol 100(6):640-648, MAP, REF
Jun 1968 421 C16
Ips acuminatus, Pityogenes, Reproduction, Scolytidae, Sex.
- 13009-69**
DEVELOPMENT OF CRAMBUS TRISECTUS AT CONTROLLED CONSTANT TEMPERATURES IN THE LABORATORY.
A C Banerjee
62(3):703-705 REF
16 Jun 1969
Crambus trisectus, Grasses, Insect eggs, Insect physiology, Insect rearing, Pupae, Temperature.
- 13010-69**
THE RESPONSE OF A PREDATOR, HYPOASPIS ACULEIFER (CANESTRINI) (ACARINA:LAELAPIDAE), TO TWO SPECIES OF PREY.
P S Barker
Can J Zool 47(3):343-345
May 1969 470 C16D
Glycyphagus domesticus, Hypoaspis aculeifer, Insect nutrition, Insect physiology, Laelapidae, Mites, Ovulation, Predaceous insects, Tyrophagus putrescentiae.
- 13011-69**
STUDIES ON THE BIOLOGY OF MARGARODES VITUM, A GROUND PEARL (HOMOPTERA: MARGARODIDAE) ON ROOTS OF GRAPEVINES.
M M Barnes M J Wargo A Marin
Entomol Soc Amer Ann 62(5):1032-1035
15 Sep 1969 420 EN82
Grapes, Insect biology, Margarodidae, Roots, Soil-borne pests.
- 13012-69**
THE EGG OF WYEOMYIA SMITHII (COQUILLET) AND A REVIEW OF KNOWLEDGE OF THE EGGS OF THE SABETHINI.
A R Barr S Barr
Mosquito News 29(2):193-198 REF

Jun 1969 421 M85

Eggs, Insect morphology, Wyeomyia.

13013-69

PHEROMONE CONCENTRATIONS REQUIRED TO ELICIT SUCCESSIVE STEPS IN THE MATING SEQUENCE OF MALES OF THE LIGHT-BROWN APPLE MOTH, *EPIPHYAS POSTVITTANA*.

R J Bartell H H Shorey

Entomol Soc Amer Ann 62(5):1206-1207

15 Sep 1969 420 EN82

Epiphyas postvittana, Insect behavior, Insect physiology, Pheromones, Sex behavior.

13014-69

METABOLISM OF CHOLESTEROL-4-C¹⁴ IN INSECTICIDE-RESISTANT AND SUSCEPTIBLE STRAINS OF ASEPTICALLY REARED HOUSE FLIES, *MUSCA DOMESTICA*.

J W Bauer R E Monroe

Entomol Soc Amer Ann 62(5):1021-1025 REF

15 Sep 1969 420 EN82

Cholesterol, Insect biochemistry, Insecticide resistant insects, Metabolism, *Musca domestica*, Radioactive tracers.

13015-69

MOSQUITO CONTROL BY PREDATOR FISH.

E C Bay

Int Pest Contr 10(1):23-25

Jan 1968 79.8 P432

Biological control (insects), Culicidae, Fish, Pesticide residues, Predatory animals.

13016-69

COLOR PREFERENCE AND FLIGHT HABITS OF THRIPS ASSOCIATED WITH COTTON.

C M Beckham

J Econ Entomol 62(3):591-592 REF

16 Jun 1969 421 J822

Color, Cotton, Insect behavior, Insect flight, Insect pests, Thysanoptera.

13017-69

SOME PECULIARITIES AND NUMBERS IN TWO SPECIES OF EURYGASTER. (RUS0)

N G Bei-Bienko

Zool Zhur 48(6):836-840

Jun 1969 410 R92

Insect biology, Population, Scelionidae. English abstract.

13018-69

LARVAL DIAPAUSE IN THE TICK *IXODES RICINUS* L. AND ITS RELATION TO EXTERNAL CONDITIONS. 7. ON THE SENSITIVITY TO PHOTOPERIODIC STIMULI DURING BLOOD-SUCKING. (RUS0)

V N Belozerov

Zool Zhur 48(5):686-691

May 1969 410 R92

Insect behavior, Insect physiology, *Ixodes ricinus*, Ixodidae, Larvae, Photoperiodism. English abstract.

13019-69

THE INFLUENCE OF AGE AND CONCENTRATION OF FUMIGANT ON THE SUSCEPTIBILITY OF PUPAE OF *TRIBOLIUM CASTANEUM* (HERBST) (COLEOPTERA, TENEBRIONIDAE) TO METHYL BROMIDE.

R G Bennett

J Stored Prod Res 5(2):119-126

Aug 1969 421 J829

Aging, Fumigants, Insecticide resistant insects, Methyl bromide, Pupae, Toxicology, *Tribolium castaneum*.

13020-69

ON THE COMPONENTS OF SECRETION OF MANDIBULAR GLANDS OF THE ANT *LASIUS* (DENDROLASIUS) *FULIGINOSUS*.

R Bernardi C Cardani D Ghiringhelli A Selva A

Baggini M Pavan

Tetrahedron Lett 40:3893

Oct 1967 385 T29

Chromatography, Dendrolasin, Formicidae, *Lasius fuliginosus*, Mandibular glands.

13021-69

EFFECTS OF TEMPERATURE AND LIGHT ON DISPERSAL OF THE PEA APHID, *ACYRTHOSIPHON PISUM*, AND A BRACONID PARASITE, *APHIDIUS PISIVORUS*, IN THE FIELD.

R E Berry

Entomol Soc Amer Ann 62(5):1185-1189 REF

15 Sep 1969 420 EN82

Acyrtosiphon pisum, Aphidius, Field studies, Insect flight, Light, Surveys, Temperature.

13022-69

EFFECTS OF TEMPERATURE AND LIGHT ON TAKEOFF OF RHOPALOSIPHUM MAIDIS AND SCHIZAPHIS GRAMINUM IN THE FIELD (HOMOPTERA: APHIDIDAE).

R E Berry

Entomol Soc Amer Ann 62(5):1176-1184 REF

15 Sep 1969 420 EN82

Insect behavior, Insect flight, Light, Rhopalosiphum maidis, Schizaphis graminum, Temperature.

13023-69

SEX PHEROMONE OF *TRYPODENDRON LINEATUM* (COLEOPTERA: SCOLYTIDAE): PRODUCTION, BIO-ASSAY, AND PARTIAL ISOLATION.

J H Borden R G Brownlee R M Silverstein

Can Entomol 100(6):629-636 REF

Jun 1968 421 C16

Biological assay, Chromatography, Insect biochemistry, Pheromones, Scolytidae, Sex attractants, *Trypodendron lineatum*.

13024-69

SEX PHEROMONE OF *DENDROCTONUS PSEUDOTSUGAE* (COLEOPTERA: SCOLYTIDAE): PRODUCTION, BIO-ASSAY, AND PARTIAL ISOLATION.

J H Borden R M Silverstein R G Brownlee

Can Entomol 100(6):597-603 REF

Jun 1968 421 C16

Biological assay, Chromatography, *Dendroctonus pseudotsugae*, Insect biochemistry, Pheromones, Scolytidae, Sex attractants.

13025-69

STUDIES OF THE COCCOIDEA. 14. THE GENERA *ASPIDIOTUS*, *DIASPIDIOTUS* AND *HEMIBERLESIA* IN QUEENSLAND.

A R Brimblecombe

Queensland J Agr Anim Sci 25(1-2,MAR-JUN):39-56

Jun 1968 23 Q37

Aspidiotus, Catalogs, Coccoidea, Host range, Insect taxonomy, Zoogeography.

13026-69

A SYSTEM FAVORING THE EVOLUTION OF HOLOMETABOLOUS DEVELOPMENT.

E H Bryant

Entomol Soc Amer Ann 62(5):1087-1091 REF

15 Sep 1969 420 EN82

Development, Insect evolution, Insect migration, Population.

13027-69

THE PRODUCTIVITY OF FOUR INBRED STRAINS OF *DROSOPHILA MELANOGASTER*.

L Butler

Can J Zool 47(3):313-321 REF

May 1969 470 C16D

Drosophila melanogaster, Environment, Fertility, Insect genetics, Insect rearing, Reproduction, Yeasts.

13028-69

EFFECTS OF PLANT GROWTH REGULATORS ON LOCUSTS AND COTTON STAINER BUGS.

D B Carlisle P E Ellis D J Osborne

J Sci Food Agr 20(7):391-393 REF

Jul 1969 382 SO12

Chloroethyltrimethylammonium chloride, (2-, Development, Gibberellic acid, Insect nutrition, Insect physiology, *Locusta migratoria*, Plant growth regulator, *Schistocerca gregaria*.

13029-69

INFLUENCE OF CLIMATIC CONDITIONS ON THE EFFECTIVENESS OF TREATMENTS AGAINST *CRYPTORRHYNCHUS LAPATHI* L. LARVAE. (IT)

B Cavalcaselle

Ente Naz Cell Carta Cent Sperim Agr Forest Pubbl

9(3):181-187 REF

1967 16 C332

Chemical control (insects), Climate, *Cryptorrhynchus lapathi*, Diazinon, Environment, Larvae, Organophosphorus compounds, Parathion. English summary.

13030-69

COMPONENTS OF THE STERILITY INDUCED IN LATE-STAGE MALE PUPAE OF THE SUGARCANE GRAY BORER, *EUCOSMA SCHISTACEANA* (LEPIDOPTERA: OLETHREUTIDAE), WITH GAMMA RADIATION.

W Y Cheng

Entomol Soc Amer Ann 62(5):1106-1113 REF

15 Sep 1969 420 EN82

Gamma rays, Mutation, Olethreutidae, Pupae, Sterility.

13031-69

RETARDATION OF LARVAL DEVELOPMENT OF *AEDES AEGYPTI* (L.) BY THE VITAL DYE, NILE BLUE SULFATE (A).

B I Chevone T M Peters

Mosquito News 29(2):243-251

Jun 1969 421 M85

Aedes aegypti, Dyes, Histology, Insect physiology, Larvae, Metabolism.

13032-69

SLEEVE TESTS OF INSECTICIDAL POWDERS FOR CONTROL OF BODY LICE.

M M Cole J M Hirst J G McWilliams I H Gilbert

J Econ Entomol 62(1):198-200

17 Feb 1969 421 J822

Benzo(b)thien-4-yl methylcarbamate, Chemical control (insects), Dimethyl O-(4-(methylthio)-3,5-xylyl phosphorothioate, O, O, Dimethyl O-(4-nitro-m-tolyl) phosphorothioate, O, O, Dimethyl-S-(5-ethoxy-1,3,4-thiadiazol-2(3H)-onyl-(3)-methyl, Dusting, Humans, Insecticides, *Pediculus humanus humanus*, Research.

13033-69

OBSERVATIONS ON PLATYPUS FLAVICORNIS (COLEOPTERA: PLATYPODIDAE) IN SOUTHERN PINE BEETLE INFESTATIONS.

J E Coster

Entomol Soc Amer Ann 62(5):1008-1011 REF

15 Sep 1969 420 EN82

Dendroctonus frontalis, Insect behavior, Insect flight, Platypus, Population, Surveys.

13034-69

NOTES ON THE OCCURRENCE OF ABNORMAL SCALE PATTERNS IN ADULT FEMALE *AEDES VEXANS* (MEIGEN).

W J Crans L J Gandek

Mosquito News 28(2):235-236

Jun 1968 421 M85

Abnormalities, *Aedes vexans*, Culicidae, Insect morphology, Light traps, Scales (insects).

13035-69

IDENTIFICATION OF AN ALARM PHEROMONE IN THE ANT, *CREMATOGASTER PERINGUEYI*.

R M Crewe J M Brand D J C Fletcher

Entomol Soc Amer Ann 62(5):1212

15 Sep 1969 420 EN82

Chromatography, *Crematogaster peringueyi*, Formicidae, Insect biochemistry, Insect protective devices, Pheromones.

13036-69

A STUDY OF THE CITRIC ACID CYCLE IN THE TICK *HYALOMMA DROMEDARI*.

R M Dajani G J Frayha G K Sweatman

Compar Biochem Physiol 28(1):347-357 REF

Jan 1969 444.8 C73

- Hyalomma dromedarii, Insect biochemistry, Insect physiology, Ixodides, Tricarboxylic acid cycle.
- 13037-69**
CONTROL TRIALS AGAINST THE BLACK PARLATORIA SCALE IN TRIPOLITANIA.
A Damiano
Int Pest Contr 10(1):20-22
Jan 1968 79.8 P432
Chemical control (insects), Citrus, Coccoidea, Insecticides, Parlatoria zizyphus, Spraying.
- 13038-69**
FIELD PRESERVATION AND STORAGE OF MOSQUITOES FOR LABORATORY STUDIES.
J B Davies
Mosquito News 29(2):259
Jun 1969 421 M85
Culicidae, Field studies, Freezing, Insect preservation.
- 13039-69**
SOME POPULATION PARAMETERS FOR THE GRAIN MITE, ACARUS SIRO.
R Davis S W Brown
Entomol Soc Amer Ann 62(5):1161-1166
15 Sep 1969 420 EN82
Acaridae, Acarus siro, Development, Eggs, Fertility, Hatching, Life cycle, Mortality, Population.
- 13040-69**
IMPORTATION AND COLONIZATION OF NATURAL ENEMIES OF THE STRIPED MEALYBUG, FERRISIA VIRGATA, IN CALIFORNIA.
P DeBach S C Warner
Entomol Soc Amer Ann 62(5):1117-1119
15 Sep 1969 420 EN82
Biological control (insects), Coccinellidae, Encyrtidae, Pseudococcidae.
- 13041-69**
POPULATION DYNAMICS, GROWTH, FEEDING AND REPRODUCTION OF DEROCERAS RETICULATUM IN THE LENINGRAD DISTRICT. (RUSO)
E F Dmitrieva
Zool Zhur 48(6):802-810
Jun 1969 410 R92
Deroceras reticulatum, Insect physiology, Population, Reproduction.
- 13042-69**
THE SILKWORM EMBRYO. (RUS)
K Donev L Ovessenska
Priroda (Sofia) (3,MAY-JUN):63-65
Jun 1969 410 P934
Embryology, Embryos, Insect biology, Insect eggs, Bombyx mori.
- 13043-69**
THE EFFECT OF PARENTAL TEMPERATURE UPON FILIAL EGG PERIOD IN DROSOPHILA MELANOGASTER.
E B Edney
Physiol Zool 42(3):257-265 REF
Jul 1969 410 P56
Aging, Drosophila melanogaster, Embryos, Insect eggs, Insect physiology, Temperature.
- 13044-69**
ALPHITOBIOUS DIAPERINUS PZ. (COL., TENEBRIONIDAE) IN BROILER HOUSES.
R Edwards
*Entomol Mon Mag (SER.4)*98(267-269):88
Mar 1962 421 EN86
Alphitobius diaperinus, Insect ecology, Laboratories, Tenebrionidae.
- 13045-69**
ANTIBIOTICS AND INFECTIOUS HYBRID STERILITY IN DROSOPHILA PAULISTORUM.
L Ehrman
Z Vererbungslehre 103(3):218-222 REF
31 Dec 1968 442.8 Z34
Antibiotics, Drosophila paulistorum, Hybrids, Insect physiology, Sterility.
- 13046-69**
THE INFLUENCE OF COLONY DENSITY AND OTHER FACTORS ON THE NUMBER OF OFFSPRING IN BLASTOPHAGUS PINIPERDA L. (COL., SCOLYTIDAE). (GE)
H H Eidmann M Nuorteva
Suomen Hyonteistieteellinen Aikakauskir Ann Entomol Fenn 34(3):135-148 REF
1968 421 SU7
Insect ecology, Insect reproduction, Population, Scolytidae, Statistical distributions, Tomicus piniperda.
- 13047-69**
DEFENSIVE USE OF A FECAL SHIELD BY A BEETLE LARVA.
T Eisner VAN E Tassell J E Carrel
Science 158(3807):1471-1473
15 Dec 1967 470 SC12
Cassida rubiginosa, Chrysomelidae, Cirsium arvense, Cuticle, Feces, Formica exsectoides, Insect anatomy, Insect ecology, Insect protective devices, Larvae, Predaceous insects.
- 13048-69**
PHYSIOLOGY OF THE LARGE MILKWEED BUG AFTER LASER IRRADIATION.
D Feir J W Lough
Compar Biochem Physiol 28(2):759-764
Feb 1969 444.8 C73
Insect biochemistry, Insect physiology, Irradiation, Lasers, Oncopeltus fasciatus.
- 13049-69**
DIFFERENCES IN HYDROLASE ISOZYMES OF ITALIAN AND RHODESIAN STRAINS OF AEDES VITTATUS (BIGOT) (DIPTERA: CULICIDAE) AND THEIR HYBRIDS.
T A Freyvogel G A H McClelland
Roy Entomol Soc London Proc Ser A Gen Entomol 44(4-6):80-83
31 Jul 1969 420 L84PA
Aedes, Electrophoresis, Enzymes, Hydrolases, Insect biochemistry.
- 13050-69**
A TECHNIQUE FOR TRANSFERRING NEWLY HATCHED LARVAE.
I E Gard
Entomol Soc Amer Ann 62(5):1211
15 Sep 1969 420 EN82
Insect rearing equipment, Larvae, Lepidoptera, Methodology.
- 13051-69**
ENZYMATIC STUDIES ON THE HYDROXYLATION OF KYNURENINE IN DROSOPHILA MELANOGASTER.
D Ghosh H S Forrester
Genetics 55(3):423-431 REF
Mar 1967 442.8 G28
Drosophila melanogaster, Enzymes, Insect biochemistry, Kynurenine.
- 13052-69**
THE RAMP-TRAP, AN UNBAITED DEVICE FOR FLIGHT STUDIES OF MOSQUITOES.
M T Gillies
Mosquito News 29(2):189-193 REF
Jun 1969 421 M85
Culicidae, Insect behavior, Insect flight, Insect traps.
- 13053-69**
THE FEEDING AND FECUNDITY OF SITOPHILUS GRANARIUS (L.), SITOPHILUS ORYZAE (L.) AND RHYZOPERTHA DOMINICA (F.) IN WHEAT GRAIN.
Z Golebiowska
J Stored Prod Res 5(2):143-155 REF
Aug 1969 421 J829
Fertility, Food habits, Insect feeding, Rhyzopertha dominica, Sitophilus granarius, Sitophilus oryzae, Wheat.
- 13054-69**
DISTRIBUTION OF AN ENDEMIC POPULATION OF THE GYPSY MOTH. (RUSO)
A V Golubev F N Semevsky
Zool Zhur 48(6):850-859
Jun 1969 410 R92
Forest insects, Insect biology, Population, Porthetria dispar, Zoogeography. English abstract.
- 13055-69**
THE RECTAL GLANDS OF HALOSALDA LATERALIS (FALLEN) (HEMIPTERA: SALDIDAE) AND HYDROMETRA STAGNORUM (L.) (HEMIPTERA: HYDROMETRIDAE).
A J P Goodchild
Roy Entomol Soc London Proc Ser A Gen Entomol 44(4-6):62-70 REF
31 Jul 1969 420 L84PA
Glands (insects), Hydrometra, Insect physiology, Rectum, Saldidae.
- 13056-69**
NOTE ON SALIVARY GLANDS IN MEGACHILE (MEGACHILIDAE:POIDEA). (PORO)
V Graf
Dusenja 8(4):131-133
Sep 1967 410 D94
Insect morphology, Megachile, Salivary glands (insects). English abstract.
- 13057-69**
NOTE ON THE VENEMOUS GLAND OF APOIDEA (HYMENOPTERA). (PORO)
V Graf
Dusenja 8(4):127-130
Sep 1967 410 D94
Apoidea, Glands (insects), Insect physiology, Venoms. English abstract.
- 13058-69**
AGE GRADING OF MOSQUITOES FROM PARASITIC MITES.
P Graham
Mosquito News 29(2):259-260
Jun 1969 421 M85
Aging, Culicidae, Methodology, Mites, Parasitic insects.
- 13059-69**
CULISETA SILVESTRIS MINNESOTAE BARR AND C. MORSITANS DYARI (COQUILLET) (DIPTERA: CULICIDAE) IN ALBERTA.
P Graham
Mosquito News 29(2):261-262
Jun 1969 421 M85
Culicidae, Culiseta, Field studies, Hibernation.
- 13060-69**
LABORATORY EVALUATION OF SOME ORGANOPHOSPHORUS COMPOUNDS AGAINST THE LARVAE OF AEDES (O.) DETRITUS (HALIDAY), AEDES (O.) CASPIUS (PALLAS) AND CULEX PIPIENS PIPIENS (L.).
G Gras J A Rioux
Mosquito News 29(2):202-209 REF
Jun 1969 421 M85
Aedes, Aedes detritus, Carbamates, Chemical control (insects), Chlorinated hydrocarbons, Culex pipiens, Insecticides, Larvae, Organophosphorus compounds.
- 13061-69**
SUPPRESSION OF POPULATIONS OF PINK BOLLWORMS IN FIELD CAGES WITH TRAPS BAITED WITH SEX ATTRACTANT.
A A Guerra R D Garcia M P Leal
J Econ Entomol 62(3):741-742 REF
16 Jun 1969 421 J822
Cotton, Insect behavior, Insect cages, Insect pests, Insect traps, Pectinophora gossypiella, Propylure, Sex attractants, Sex behavior.
- 13062-69**
THE TEMPERATURE-SENSITIVE PERIOD IN THE DEVELOPMENT OF ROLLED HEMIZYGOTES OF DROSOPHILA MELANOGASTER.
R Hackman S Lakovaara
Suomalainen Tiedakatemia Ann Ser A Iv Biol (111-120):3-13 REF
1969 442.9 H36

Drosophila melanogaster, Eyes, Insect mutation, Insect physiology, Temperature. Above article located in issue 118 of this series.

13063-69

EFFECTS OF SUBSTRATES ON GENE-CONTROLLED ENZYME ACTIVITIES IN CULTURED EMBRYONIC CELLS OF *DROSOPHILA*.

M Horikawa L-N L Ling A S Fox

Genetics 55(3):569-583 REF

Mar 1967 442.8 G28

Drosophila, Enzymes, Insect biochemistry, Tissue culture.

13064-69

PURINE EXCRETION IN FIVE SCORPIONS, A UROPYGID AND A CENTIPEDE.

F R Horne

Biol Bull 137(1):155-160 REF

Aug 1969 442.8 B52

Chilopoda, Excretion, Insect biochemistry, Insect nutrition, Insect physiology, Purines, Scorpionida.

13065-69

ANION-INDUCED POTENTIATION OF CONTRACTION IN INSECT SKELETAL MUSCLE.

H Huddart

Compar Biochem Physiol 28(1):185-192 REF

Jan 1969 444.8 C73

Bio-electric potential, Bromides, *Carausius morosus*, Insect biochemistry, Insect physiology, Iodides, Ions, Muscles, Nitrates.

13066-69

DEVOURERS. (RUS)

M Jeliazova-Angelova

Priroda (Sofia) (3,MAY-JUN):61-62

Jun 1969 410 P934

Dasyopogon, Insect behavior, Natural control (insects), Predaceous insects.

13067-69

USE OF THE SPRYTE FOR DITCHING IN SUB-MARGINAL AREAS.

K Josephson

Utah Mosquito Abatement Ass Proc 1967

MEETING:22-23

Oct 1967 420 UT1

Breeding, Culicidae, Equipment, Spraying, Surveys. Proceedings of 20th Annual Meeting of Utah Mosquito Abatement Ass.

13068-69

STUDIES OF THE BYRON BOG IN SOUTHWESTERN ONTARIO XXXII. OBSERVATIONS ON THE SEASONAL DISTRIBUTION ON ODONATA IN THE BOG.

W W Judd

Entomol Soc Ontario Proc 98:45-48

1967 420 ON8

Aeshnidae, Bogs, Coenagrionidae, Environment, Lestidae, Libellulidae, Odonata, Seasonal variation, Zoogeography.

13069-69

LABORATORY EXPERIMENTS ON THE OLFACTORY ORIENTATION OF BLASTOPHAGUS PINIPERDA L. (COLEOPTERA: SCOLYTIDAE) TO SUBSTANCES ISOLATED FROM PINE RIND.

E Kangas V Perttunen H Oksanen M Rinne

Acta Entomol Fenn (22):7-87 REF

1967 421 AC8

Chemoreceptors, Insect behavior, Insect physiology, Phloem, *Pinus sylvestris*, Plant biochemistry, Plant extracts, Scolytidae, Sense organs, Smell, *Tomicus piniperda*.

13070-69

A NEW TRIBE, GENUS, AND SPECIES OF TERMITOPHILOUS ALEOCHARINAE (COLEOPTERA: STAPHYLINIDAE) FROM SOUTHWEST AFRICA WITH A DESCRIPTION OF ITS INTEGUMENTARY GLANDS.

D H Kistner J M Pasteels

Entomol Soc Amer Ann 62(5):1189-1202 REF

15 Sep 1969 420 EN82

Glands (insects), Insect morphology, Insect taxonomy, Staphylinidae.

13071-69

AUDITION BY CERURA LARVAE (LEPIDOPTERA: NOTODONTIDAE).

A B Klots

N Y Entomol Soc J 77(1):10-11

Mar 1969 420 N48J

Insect behavior, Insect physiology, Larvae, Notodontidae, Sense organs, Sound waves, Stridulation.

13072-69

SURVEY OF SPECIES AND NUMBER OF GYPSY MOTH EGG PARASITES IN SOME LOCALITIES OF YUGOSLAVIA. (SE)

S Krnjaic

Zastita Bilja 18(93-95):247-255

1967 464.8 Z1

Anastatus disparis, Insect eggs, Insect populations, *Ooencyrtus kuwanai*, Parasitism, *Porthetria dispar*, Statistical analysis. English summary.

13073-69

EFFECT OF DENERVATION ON ENZYME LEVELS IN INDIRECT FLIGHT MUSCLES OF THE DESERT LOCUST.

R W Kuhn R W Broscmer

Compar Biochem Physiol 28(1):449-454 REF

Jan 1969 444.8 C73

Enzymes, Insect biochemistry, Insect flight, Insect physiology, Muscles, Nervous system, *Schistocerca gregaria*.

13074-69

INCIDENCE OF VIRUS DISEASES IN ASEPTICALLY-GROWN SILKWORM, *BOMBYX MORI* L. (II. EFFECT OF FEEDING OF CHEMICALS AND IRRADIATION OF GAMMA-RAYS.

K Kurata

Bull Sericult Exp Sta 23(2):168-171

Nov 1968 425.9 J273B

Chemicals, Cobalt isotopes, Gamma rays, Germ-free life, Insect diseases, Polyhedroses, *Bombyx mori*.

13075-69

EFFECT OF STARVATION ON THE SENSITIVITY OF TARSAL AND LABELLAR CONTACT CHEMORECEPTORS IN HYBOMITRA LASIOPHTHALMA (DIPTERA: TABANIDAE).

S B Lall

Entomol Soc Amer Ann 62(5):1217

15 Sep 1969 420 EN82

Chemoreceptors, Food habits, Insect behavior, Insect physiology, Starvation, Tabanidae.

13076-69

BIONOMIES AND NEST STRUCTURE OF *POGONOMYRMEX OCCIDENTALIS* (HYMENOPTERA: FORMICIDAE).

R J Lavigne

Entomol Soc Amer Ann 62(5):1166-1175 REF

15 Sep 1969 420 EN82

Formicidae, Insect nests, Population, Soil temperature.

13077-69

HOST RELATIONSHIPS IN NORTH AMERICAN FUNGUS-FEEDING MOTHS (OECOPHORIDAE, OINOPHILIDAE, TINEIDAE).

J F Lawrence J A Powell

Harvard Univ Mus Compar Zool Bull 138(2):29-

51 REF

30 Apr 1969 500 H26B

Feeding habits (insects), Habitats, Oecophoridae, Surveys, Tineidae, Wood destroying fungi.

13078-69

REARING TECHNIQUE FOR THE GRANULATE CUTWORM AND SOME EFFECTS OF TEMPERATURE ON ITS LIFE CYCLE.

B L Lee M H Bass

Entomol Soc Amer Ann 62(5):1216-1217

15 Sep 1969 420 EN82

Feltia subterranea, Insect biology, Insect rearing, Noetidae, Temperature.

13079-69

THE HUNTING-WEB OF THE YOUNG SPIDER *PISAURA MIRABILIS*.

P Lenler-Eriksen

J Zool 157(3):391-398

Mar 1969 410.9 L84P

Araneida, Insect behavior, Predaceous insects, Spider webs.

13080-69

A COMPARATIVE MORPHOLOGY OF *PANSTRONGYLUS GENICULATUS* (LATREILLE, 1811) AND *PANSTRONGYLUS MEGISTUS* (BURMEISTER, 1835) AND THEIR EXTERNAL GENITALIA (HEMIPTERA, REDUVIIDAE, TRIATOMINAE). (POR)

H Lent J Jurberg

Rev Brasil Biol 28(4):499-520 REF

Dec 1968 442.8 R326

Catalogs, Insect morphology, *Panstrongylus*, Reduviidae, Reproductive organs.

13081-69

CORNICLES OF THE PEA APHID, *ACYRTHOSIPHON PISUM*; THEIR STRUCTURE AND FUNCTION. A LIGHT AND ELECTRON MICROSCOPE STUDY.

K L Lindsay

Entomol Soc Amer Ann 62(5):1015-1021

15 Sep 1969 420 EN82

Acyrtosiphon pisum, Electron microscopy, Fat body, Insect morphology, Microscopy.

13082-69

THE EFFECT OF POPULATION STRUCTURE ON THE SUCCESS OF INSECT INTRODUCTIONS.

A M Lucas

Heredity 24(1):151-157

Feb 1969 443.8 H42

Biological control (pests), Insect acclimatization, Insect ecology, Insect rearing, Longevity, Population.

13083-69

EFFECT OF MATING WITH MALES REARED IN CONTINUOUS LIGHT OR IN LIGHT-DARK CYCLES ON FECUNDITY IN *PLODIA INTERPUNCTELLA* HUBNER (LEPIDOPTERA: PHYCITIDAE).

P T M Lum B R Flaherty

J Stored Prod Res 5(2):89-94

Aug 1969 421 J829

Fertility, Light, Photoperiodism, *Plodia interpunctella*, Reproduction, Sex behavior.

13084-69

SEX DETERMINATION OF PUPAE OF *VOGTIA MALLOI* (LEPIDOPTERA: PHYCITIDAE).

D M Maddox

Entomol Soc Amer Ann 62(5):1212-1213

15 Sep 1969 420 EN82

Insect morphology, Phycitidae, Pupae, Sex determination.

13085-69

NERVE REGENERATION IN THE COCKROACH, *LEUCOPHAEA MADERAE*: THE EFFECT OF HUMORAL SUBSTANCES IN VITRO.

E P Marks

Biol Bull 137(1):181-188 REF

Aug 1969 442.8 B52

Blattidae, Insect biochemistry, Insect physiology, Legs, *Leucophaea maderae*, Nervous system, Regeneration.

13086-69

MICROARTHROPODS FROM TWO QUEBEC WOODLAND HUMUS FORMS. III. THE SARCOPTIFORMES (ACARINA).

V G Marshall

Entomol Soc Quebec Ann 13(2):65-88 REF

May 1968 420 EN822

Acer saccharum, *Fagus grandifolia*, Forest soils, Humus, Sarcopiformes, Soil fauna, Surveys, *Tsuga canadensis*.

- 13087-69**
PRELIMINARY STUDIES ON THE EFFECTS OF GAMMA IRRADIATION OF EGGS AND ADULTS OF THE SOUTHERN GREEN STINK BUG, NEZARA VIRIDULA (L.).
 R Mau W C Mitchell M Anwar
Hawaii Entomol Soc Proc 19(3):415-417
 Jun 1967 420 H312
 Cobalt isotopes, Dosage, Gamma rays, Imagos, Insect behavior, Insect eggs, Mortality, *Nezara viridula*, Sex behavior.
- 13088-69**
THE PHENOLOGY OF LINYPHIID SPIDERS ON HEATHLAND IN DORSET.
 P Merrett
J Zool 157(3):289-307 REF
 Mar 1969 410.9 L84P
 Araneida, Insect ecology, Population, Seasonal variation, Spiders, Statistical distributions, Surveys, Zoogeography.
- 13089-69**
PATTERNS OF FLIGHT ACTIVITY IN LIVESTOCK INSECTS. I. PRELIMINARY TESTING OF A SYSTEM FOR RECORDING FLIGHT ACTIVITY OF THE STABLE FLY.
 J A Miller J L Eschle I L Berry
Entomol Soc Amer Ann 62(5):1046-1050 REF
 15 Sep 1969 420 EN82
Haematobia irritans, Insect behavior, Insect flight, Light, *Stomoxys calcitrans*.
- 13090-69**
FREEZING TOLERANCE IN AN ADULT INSECT.
 L K Miller
Science 166(3901):105-106 REF
 03 Oct 1969 470 SCI2
 Carabidae, Freezing, Insect physiology, Pterostichus, Temperature, Water.
- 13091-69**
FREEZING TOLERANCE IN AN ADULT INSECT.
 L K Miller
Science 166(3901):105-106 REF
 03 Oct 1969 470 SCI2
 Carabidae, Freezing, Insect physiology, Pterostichus, Temperature.
- 13092-69**
OVIPOSITION BY THE BOLL WEEVIL IN THE FIELD.
 H C Mitchell W H Cross
J Econ Entomol 62(3):604-605
 16 Jun 1969 421 J822
Anthonomus grandis, Cotton, Insect behavior, Insect pests, Ovulation.
- 13093-69**
PHENOL OXIDASE CHARACTERISTICS IN MUTANTS OF DROSOPHILA MELANOGASTER.
 H K Mitchell U M Weber G Schaar
Genetics 57(2):357-368
 Oct 1967 442.8 G28
Drosophila melanogaster, Enzymes, Insect biochemistry, Insect mutation, Phenolases, Proteins, Spectrophotometry.
- 13094-69**
IMMUNOLOGICAL REACTIONS IN INSECTS. II. LYSOZYME AS AN ANTIMICROBIAL AGENT IN THE DIGESTIVE TRACTS OF INSECTS. (GE)
 W Mohrig B Messner
Biol Zentralbl 87(6,NOV-DEC):705-718 REF
 Dec 1968 442.8 B523
 Gastrointestinal system, Immunochemistry, Insect physiology, Insect protective devices, Microorganisms, Muramidase. English and Russian abstracts
- 13095-69**
RHINONCUS BRUCHOIDES (HERBST) (COL., CURCULIONIDAE) IN WEST KENT.
 M G Morris
*Entomol Mon Mag (SER.4)*98(267-269):101
 Mar 1962 421 EN86
 Curculionidae, Food plants, Insect feeding, Land Reports, *Rhinoncus bruchoides*.
- 13096-69**
MALATHION RESISTANCE IN AEDES SOLICITANS (WALKER) FROM LANGLEY AIR FORCE BASE, VIRGINIA.
 G A Mount C T Adams H R Ford
Mosquito News 29(2):260-261
 Jun 1969 421 M85
Aedes sollicitans, Culicidae, Insecticide resistant insects, Insecticides, Malathion, Organophosphorus compounds.
- 13097-69**
TESTS ON SUSCEPTIBILITY OF CULEX GELIDUS THEOBALD TO DDT, DIELDRIN AND BHC IN THAILAND.
 M A Moussa P Nawarat
Mosquito News 29(2):231-236
 Jun 1969 421 M85
 Benzene hexachloride, Chlorinated hydrocarbons, *Culex*, Dieldrin, DDT, Insect biochemistry, Insecticide resistant insects, Insecticides.
- 13098-69**
SUSCEPTIBILITY OF SIX ANOPHELINE SPECIES FROM THAILAND TO INSECTICIDES.
 M A Moussa P Nawarat
Mosquito News 29(2):210-216 MAP
 Jun 1969 421 M85
Anopheles, Chlorinated hydrocarbons, Dieldrin, DDT, Insect control, Insecticide resistant insects, Insecticides, Zoogeography.
- 13099-69**
HOST RECORDS AND PHENOLOGY OF LOUSE-FLIES ON WISCONSIN BIRDS.
 N S Mueller H C Mueller D D Berger
Wis Acad Sci Arts Lett Trans 57:189-205 REF
 1969 500 W75
 Birds, Hippoboscidae, Insect biology, Seasonal variation, Surveys.
- 13100-69**
PHOSPHOMONOESTERASE ACTIVITY IN THE LIFE-CYCLE STAGES OF SCHISTOCERCA GREGARIA.
 S N H Naqvi H Ashrafi M A H Qadri
Can Entomol 100(6):649-655 REF
 Jun 1968 421 C16
 Enzymes, Hormones, Imagos, Insect biochemistry, Insect biology, Insect eggs, Molting (insects), Nymphs, Phosphatases, *Schistocerca gregaria*.
- 13101-69**
A GYNANDROMORPH OF CULICOIDES LAILAE KHALAF (CERATOPOGONIDAE: DIPTERA).
 S Navai
Mosquito News 29(2):264-266
 Jun 1969 421 M85
 Ceratopogonidae, Culicoides, Gynandromorphism, Insect biology.
- 13102-69**
THE PUPATION RHYTHM IN AEDES TAENIORHYNCHUS (DIPTERA: CULICIDAE). V. PHYSIOLOGY OF GROWTH AND ENDOGENOUS DIURNAL RHYTHM OF PUPATION.
 J K Nayyar
Entomol Soc Amer Ann 62(5):1079-1087 REF
 15 Sep 1969 420 EN82
Aedes taeniorhynchus, Diurnal rhythm, Fecalbia, Glycogen, Insect physiology, Mitosis, Molting (insects), Pupae, Trehalose.
- 13103-69**
AERIAL DISPERSAL OF SOME BRITISH PSOCOPTERA, AS INDICATED BY SUCTION TRAP CATCHES.
 T R New
Roy Entomol Soc London Proc Ser A Gen Entomol 44(4-6):49-61 REF
 31 Jul 1969 420 L84PA
 Air, Insect dissemination, Psocoptera, Suction traps.
- 13104-69**
THE BRINE FLY PROBLEM ON THE GREAT SALT LAKE BEACHES.
 J L Nielsen
Utah Mosquito Abatement Ass Proc 1967 MEETING:33
 Oct 1967 420 UT1
 Agricultural outlook, Ephydriidae, Fenthion, Insect control, Malathion, Research. Proceedings of 20th Annual Meeting of Utah Mosquito Abatement Ass.
- 13105-69**
THE USE OF MICRO-ORGANISMS FOR THE CONTROL OF INSECT PESTS.
 J R Norris
Chem Indus 46:1941-1945
 18 Nov 1967 382 M31C
 Bacteria, Biological control (insects), Insect control, Insecticides, Microorganisms, Viruses.
- 13106-69**
ELECTRON MICROSCOPE STUDY ON THE SPERMATOZOON OF THE LIPHISTIID SPIDER, HEPTATHELA KIMURAL.
 H Osaki
Acta Arachnologica 22(1):1-13 REF
 20 Jun 1969 434.8 AC8
 Araneae, Electron microscopy, Insect physiology, Spermatozoa, Spiders.
- 13107-69**
HAMPEA SP., HOST OF THE BOLL WEEVIL. II. LABORATORY ANTIBIOSIS STUDIES.
 W L Parrott F G Maxwell J N Jenkins
Entomol Soc Amer Ann 62(5):976-978 REF
 15 Sep 1969 420 EN82
Anthonomus grandis, Cotton, Development, Hampea, Insect physiology, Toxicology.
- 13108-69**
VARIABILITY WITHIN AND BETWEEN STRAINS FOR MATING BEHAVIOR PARAMETERS IN DROSOPHILA PSEUDOBSCURA.
 P A Parsons D Kaul
Experientia 23(2):131-132
 15 Feb 1967 475 EX7
Drosophila pseudoobscura, Insect behavior, Sex behavior.
- 13109-69**
FIFTEEN SPECIES OF MOSQUITOES AS POTENTIAL HOSTS OF A MERMITHID NEMATODE ROMANOMERMIS SP..
 J J Petersen H C Chapman O R Willis
Mosquito News 29(2):198-201
 Jun 1969 421 M85
 Biological control (insects), Culicidae, Mermithidae, Nematodes.
- 13110-69**
EVOLUTION AND POPULATION ECOLOGY OF PARASITE-HOST SYSTEMS.
 D Pimentel F A Stone
Can Entomol 100(6):655-662
 Jun 1968 421 C16
 Ecology, Insect evolution, *Musca domestica*, *Nasonia vitripennis*, Parasitic insects, Population, Pteromalidae.
- 13111-69**
SOME EFFECTS OF ANOXIA AND HYPOXIA ON THE EUROPEAN RED MITE, PANONYCHUS ULMI (ACARINA: TETRANYCHIDAE).
 W L Putman
Can Entomol 100(6):617-623
 Jun 1968 421 C16
 Anesthesia, Humidity, Insect eggs, Insect physiology, Mites, Mortality, Nitrogen, Oxygen, *Panonychus ulmi*, Paralysis.
- 13112-69**
QUARANTINE HEARINGS REVEAL FORMOSAN TERMITE MAY CAUSE 62 MILLION

DOLLAR DAMAGE YEARLY; IS NOW FOUND IN SOUTH CAROLINA.*Pest Contr* 35(9):46,48

Sep 1967 449.8 EX8

Agricultural regulation, Chlorinated hydrocarbons, *Coptotermes formosanus*, Insect control, Insecticides, Quarantine.

13113-69

NATURAL AND SYNTHETIC MATERIALS WITH INSECT HORMONE ACTIVITY--VI. JUVENILE HORMONE EFFECTS OF SOME ALKYL-ETHERS DERIVED FROM ALIPHATIC BETA-HYDROXY ACIDS.

J Ratusky K Slama F Sorm

J Stored Prod Res 5(2):111-117 REF

Aug 1969 421 J829

Development, *Dysdercus*, Insect biochemistry, Juvenile hormone, *Pyrrhocoris*, *Tenebrio*.

13114-69

LETHAL EFFECTS OF GAMMA RADIATION ON EGGS AND LARVAE OF THE BAGWORM, THYRIDOPTERYX EPHEMERAIFORMIS.

D E Reichle

Entomol Soc Amer Ann 62(5):1113-1117 REF

15 Sep 1969 420 EN82

Cobalt isotopes, Development, Eggs, Gamma rays, Insect physiology, Larvae, Psychidae, Thyridopteryx ephemeriformis.

13115-69

LARVAL BEHAVIOR OF EUPSILIA MORRISONI.

R W Rings

Entomol Soc Amer Ann 63(3):544-549 MAP

May 1969 420 EN82

Insect behavior, Insect biology, Larvae, Noctuidae.

13116-69

BIOLOGICAL STUDIES OF TABANIDAE: A PRELIMINARY STUDY OF FEMALE TABANIDS ATTRACTED TO A BAIT ANIMAL.

R H Roberts

Mosquito News 29(2):236-238

Jun 1969 421 M85

Attractants, Insect behavior, Insect biology, Livestock, Tabanidae.

13117-69

REGULATION OF EXTERNAL RESPIRATION BY THE BOOK-LUNG SPIRACLES OF THE SPIDERS, ARANEUS DIADEMATIS CLERCK AND A. MARMOREUS CLERCK.

G L Robinson V Paim

Can J Zool 47(3):355-364 REF

May 1969 470 C16D

Araneus diadematus, Araneus marmoreus, Carbon dioxide, Oxygen, Physiology, Respiration, Spiders, Spiracles.

13118-69

EXPERIMENTS ON AGGREGATIONS OF PHYMATEUS PURPURASCENS (ORTHOPTERA, ACRIDIDAE, PYRGOMORPHINAE).

C H F Rowell

J Zool 152(2):179-193 REF

Jun 1967 410.9 L84P

Acrididae, Attractants, Color, Insect behavior, *Phyteumas purpurascens*.

13119-69

NOTES ON THE BIOLOGY OF IPS PINI IN CENTRAL WISCONSIN JACK PINE FORESTS.

J A Schenk D M Benjamin

Entomol Soc Amer Ann 63(3):480-485 REF

May 1969 420 EN82

Hibernation, Insect biology, Insect rearing, *Ips pini*.

13120-69

RESEARCH AND OBSERVATIONS ON THE TEXTURE AND STRUCTURE OF DONACIA COCOONS. (GE00)

H Scherf

Zool Anz 182(1-2,JAN-FEB):101-109 REF

Feb 1969 410 Z7

Chrysomelidae, Morphology, Pupal cases.

13121-69

THE PREVENTION OF ARTHROPODS XXV. (1). ANTHRANILIC ACID AS A PRECURSOR OF THE ALKALOIDS GLOMERIN AND HOMOGLOMERIN FROM ARTHROPODS. (GE)

H Schildknecht W F Wenneis

Tetrahedron Lett 19:1815-1818

May 1967 385 T29

Alkaloids, Anthranilic acid, Arthropoda.

13122-69

THE WILD HONEYBEE IN EARLY WISCONSIN.

A W Schloger

Wis Acad Sci Arts Lett Trans 56:49-64 REF

1968 500 W75

Apiculture, *Apis mellifera*, History. Transactions is listed as 1967-68 to conform with year of publication.

13123-69

ESTABLISHMENT OF THREE DIPLOID CELL LINES OF ANOPHELES STEPHENSI (DIPTERA: CULICIDAE).

I Schneider

J Cell Biol 42(2):603-606 REF

Aug 1969 442.8 J828

Anopheles stephensi, Chromosomes, Diploid, Insect physiology, Tissue culture.

13124-69

SOME PHYSIOLOGICAL PECULIARITIES IN PERILLUS BIOCULATUS (HETEROPTERA, PENTATOMIDAE). (RUS0)

E M Shagov

Zool Zhur 48(6):827-835

Jun 1969 410 R92

Hibernation, Insect biology, Insect physiology, *Perillus bioculatus*. English abstract.

13125-69

FLUCTUATIONS OF SCHIZOLACHNUS PINIRADIATAE (DAVIDSON) (APHIDIDAE-HOMOPTERA) POPULATIONS IN THE EAST CANTONS IN 1967. (FR00)

M L Sharma R Lavidlette

Entomol Soc Quebec Ann 13(2):89-97 MAP

May 1968 420 EN822

Aphididae, Coccinellidae, *Pinus resinosa*, Population. English abstract.

13126-69

OCCURRENCE OF A TWO-HEADED PUPA IN A POPULATION OF TRIBOLIUM CONFUSUM (COLEOPTERA: TENEBRIONIDAE).

R K Sharma H H Shorcy

Entomol Soc Amer Ann 62(5):1205

15 Sep 1969 420 EN82

Abnormalities, Insect morphology, Pupae, *Tribolium confusum*.

13127-69

EFFECT OF FLAYONOID PIGMENTS AND GOSSYPOL ON GROWTH AND DEVELOPMENT OF THE BOLLWORM, TOBACCO BUDWORM, AND PINK BOLLWORM.

T N Shaver M J Lukefahr

J Econ Entomol 62(3):643-646 REF

16 Jun 1969 421 J822

Cotton, Flavonoids, Gossypol, *Heliothis virescens*, *Heliothis zea*, Insect nutrition, Insect pests, Insect physiology, *Pectinophora gossypiella*, Pigments (plant).

13128-69

HOLDING TECHNIQUE FOR THE MANIPULATION AND EXCISION OF ADULT ANOPHELINE MOUTHPARTS.

M P Shinkle

Mosquito News 29(2):262-263

Jun 1969 421 M85

Anopheles, Insect morphology, Methodology, Mouth parts, Surgical procedures.

13129-69

DISEASES OF THE CLEAR LAKE GNAT CHAOBORUS ASTICTOPUS (DIPTERA: CHAOBORIDAE).

P P Sikowski C H Madison

Mosquito News 28(2):180-187

Jun 1968 421 M85

Bacterial diseases (insects), Biological control (insects), Catalogs, *Chaoborus astictopus*, Insect diseases, Protozoa, Virus diseases.

13130-69

HYPERPARASITISM OF THE PEA APHID PARASITE APHELINUS SEMIFLAVUS BY ASAPHES VULGARIS IN A GREENHOUSE.

H B Specht

Entomol Soc Amer Ann 62(5):1207

15 Sep 1969 420 EN82

Aphelinus semiflavus, Aphididae, Insect biology, Parasitic insects, Pteromalidae.

13131-69

MINORITY ADVANTAGE IN INTERPOPULATIONAL MATINGS OF DROSOPHILA PERSIMILIS.

L D Spiess E B Spiess

Amer Natur 103(930,MAR-APR):155-172 REF

30 Apr 1969 470 AM36

Drosophila, Insect behavior, Mutation, Population, S_x behavior.

13132-69

OVERWINTERING BY PROTOCALLIPHORA METALLICA (DIPTERA: CALLIPHORIDAE).

F M Stiner

Entomol Soc Amer Ann 62(5):1205

15 Sep 1969 420 EN82

Calliphoridae, Hibernation, Insect biology.

13133-69

THE EVALUATION OF ASSIMILABILITY OF DIFFERENT LEAF-LITTERS BY MILLIPEDES (DIPOLODA). (RUS0)

B R Striganova

Zool Zhur 48(6):821-826

Jun 1969 410 R92

Diplopoda, Insect metabolism, Insect nutrition. English abstract.

13134-69

MOSQUITOES AND HABENARIA OBTUSATA (ORCHIDACEAE).

L B Thien

Mosquito News 29(2):252-255

Jun 1969 421 M85

Acids, Biology, Culicidae, Insect pollinators, Orchidaceae.

13135-69

ARTHROPODA ASSOCIATED WITH A NEST OF THE HAWAIIAN CROW.

P Q Tomich

Hawaii Entomol Soc Proc 19(3):431-432

Jun 1967 420 H312

Arthropoda, Bird pests, Crows, Insect ecology, Insect pests, Mites, Predaceous insects.

13136-69

CHEMICAL SUBSTANCES FOR DEFENSE OF INSECTS. (RUS)

V Tomov

Priroda (Sofia) (3,MAY-JUN):67-70

Jun 1969 410 P934

Insect behavior, Insect biochemistry, Insect protective devices, Secretions, Tenebrionidae.

13137-69

BIOCHEMICAL EFFECTS OF APHOLATE ON MOSQUITO OVARIAN TISSUE.

R B Turner N P Maheswary

Entomol Soc Amer Ann 62(5):1091-1095

15 Sep 1969 420 EN82

Aedes aegypti, Alkaline phosphatase, Apholate, Folic acid, Insect biochemistry, Insect physiology, Ovaries.

13138-69

RESEARCH ON THE ACARICIDE EFFECT OF SOME ANTI-MILDEW PRODUCTS. (IT)

A Ugolini G Rapparini

Giornate Fitopatol 399-400

26 Mar 1967 SB599.G5

Acaricides, Chemical control (insects), Chemical control (plant diseases), Dinocap, Erysiphe cichoracearum, Fungicides, Mildew, Tetranychus urticae. Other, less effective products are tested.

13139-69

AN EXPERIMENTAL STUDY OF THE MORTALITY FACTORS OF LARVAL MUSCA AUTUMNALIS DEGREER.

I Valiela

Ecol Monogr 39(2, SPRING):199-225 REF
1969 410 EC72

Insect eggs, Larvae, Mortality, Musca autumnalis, Temperature.

13140-69

TWO SPECIES OF PTERONEMOBIUS PREVIOUSLY UNREPORTED IN QUEBEC (ORTHOPTERA: ENSIFERA: GRYLLOIDEA: NEMOBIINAE).

V R Vickery

Entomol Soc Quebec Ann 14(1):22-24

Jan 1969 420 EN822

Gryllidae, Insect behavior, Insect ecology, Zoogeography. English abstract.

13141-69

THE INFLUENCE OF ABIOTIC FACTORS UPON THE DISTRIBUTION AND ABUNDANCE OF EGG PARASITES OF THE EURYGASTER INTEGRICEPS (HYMENOPTERA, SCELIONIDAE). (RUSO)

G A Viktorov

Zool Zhur 48(6):841-849

Jun 1969 410 R92

Eurygaster integriceps, Insect biology, Insect eggs, Parasitic insects, Scelionidae, Zoogeography. English abstract.

13142-69

ELECTROPHORETIC STUDY OF PROTEIN CHANGES BETWEEN SEVERAL DEVELOPMENTAL STAGES OF THREE SPECIES OF HELIOTHIS (LEPIDOPTERA: NOCTUIDAE).

S B Vinson W J Lewis

Compar Biochem Physiol 28(1):215-220 REF

Jan 1969 444.8 C73

Electrophoresis, Heliiothis, Hemolymph, Insect biochemistry, Insect morphology, Insect physiology, Metamorphosis, Noctuidae, Proteins.

13143-69

COLONIZATION OF CULISETA MELANURA (COQUILLETT) IN THE LABORATORY.

R C Wallis L Whitman

Mosquito News 29(2):255-258 REF

Jun 1969 421 M85

Culicidae, Culiseta melanura, Insect rearing, Insect vectors.

13144-69

ELECTROPHORETIC PATTERNS IN MOSQUITOES.

M E Warren O P Breland

Mosquito News 29(2):172-182 REF

Jun 1969 421 M85

Culicidae, Electrophoresis, Insect biochemistry, Proteins.

13145-69

THE TURNOVER RATIO IN PRODUCTION ECOLOGY OF FRESHWATER INVERTEBRATES.

T F Waters

Amer Natur 103(930, MAR-APR):173-185 REF

30 Apr 1969 470 AM36

Aquatic animals, Aquatic insects, Ecology, Invertebrates, Population, Statistical analysis.

13146-69

TABANID LARVAL HABITATS AND POPULATION DENSITIES IN AN ALLUVIAL AREA IN SOUTHERN LOUISIANA.

B H Wilson

Entomol Soc Amer Ann 62(5):1203-1204

15 Sep 1969 420 EN82

Insect ecology, Larvae, Population, Tabanus.

13147-69

LIFE HISTORY, HABITS, AND DAMAGE OF A GALL MIDGE, OLIGOTROPIIUS PAPHYRIFERA (DIPTERA: CECIDOMYIIDAE), INJURIOUS TO PAPER BIRCH IN MICHIGAN.

L F Wilson

Can Entomol 100(6):663-669

Jun 1968 421 C16

Betula papyrifera, Cecidomyiidae, Curculionidae, Gall-making insects, Insect behavior, Insect biology, Insect pests, Oletreutidac, Oligotrophus papyriferae, Plant galls, Plant injuries.

13148-69

LABORATORY STUDIES ON THE DEVELOPMENT PERIOD AND FEEDING BEHAVIOR OF APHIDECTA OBLITERATA (L.) (COLEOPTERA: COCCINELLIDAE), AN INTRODUCED PREDATOR OF THE BALSAM WOOLLY APHID.

J A Witter

Entomol Soc Amer Ann 62(5):1004-1008

15 Sep 1969 420 EN82

Adelgcs piceae, Aphidecta oblitterata, Eggs, Food habits, Insect biology, Population, Predaceous insects.

13149-69

LABORATORY STUDIES ON THE SEASONAL HATCHABILITY OF EGG BATCHES OF AEDES SOLLICITANS, A. TAENIORHYNCHUS, AND PSOROPHORA CONFINNIS.

D B Woodard H C Chapman J J Petersen

Mosquito News 28(2):143-146

Jun 1968 421 M85

Aedes sollicitans, Aedes taeniorhynchus, Culicidae, Hatching, Insect biology, Insect ecology, Insect eggs, Psorophora confinnis, Seasonal variation.

13150-69

IMMATURE STAGES OF THE FLESH FLY, PARASARCOPHAGA (THOMSONEA) ARGYROSTOMA (ROBINEAU-DESVOIDY).

J R Yates

Hawaii Entomol Soc Proc 19(3):433-440

Jun 1967 420 H312

Insect behavior, Insect biology, Insect morphology, Insect physiology, Larvae, Pupae, Sarcophaga argyrostoma.

13151-69

CORPOPHAGOUS INSECTS IN SOIL-BIOLOGICAL PROCESSES. (RUS)

B Zaharieva-Stoilova

Priroda (Sofia) (3, MAY-JUN):65-67

Jun 1969 410 P934

Feces, Livestock, Scarabaeidae, Soil biology.

GENETICS

13152-69

MOSAIC MUTATIONS INDUCED IN DROSOPHILA BY ETHYLENIMINE.

M L Alexander

Genetics 56(2):273-281 REF

Jun 1967 442.8 G28

Drosophila, Ethylenimine, Insect genetics, Mutations.

13153-69

EFFECT OF THE ABSENCE OF THE Y CHROMOSOME ON THE EXPRESSION OF THE CUBITUS INTERRUPTUS PHENOTYPE IN VARIOUS TRANSLOCATIONS IN DROSOPHILA MELANOGASTER.

N Altorfer

Genetics 55(4):755-767 REF

Apr 1967 442.8 G28

Chromosomes, Drosophila melanogaster, Genes, Insect genetics.

13154-69

THE REGIONAL EFFECTS OF TWO MUTANTS IN DROSOPHILA ANALYZED BY MEANS OF MOSAICS.

N Arnheim

Genetics 56(2):253-263 REF

Jun 1967 442.8 G28

Drosophila, Insect genetics, Mutation.

13155-69

LACK OF EFFECT OF A PREVIOUS MEIOTIC EXCHANGE ON SOMATIC CROSSING OVER IN DROSOPHILA.

W K Baker J A Swatek

Genetics 55(1):101-105

Jan 1967 442.8 G28

Chromosomes, Drosophila melanogaster, Insect genetics, Meiosis.

13156-69

AUTOSOMAL HALF-TETRAD ANALYSIS IN DROSOPHILA MELANOGASTER.

M Baldwin A Chovnick

Genetics 55(2):277-293 REF

Feb 1967 442.8 G28

Chromosomes, Drosophila melanogaster, Insect genetics.

13157-69

RADIATION INDUCED TANDEM DUPLICATIONS IN DROSOPHILA MELANOGASTER.

H A Bender

Genetics 55(2):249-254 REF

Feb 1967 442.8 G28

Cytogenetics, Drosophila melanogaster, Insect genetics, Radiation.

13158-69

DISTRIBUTION OF DNA IN HETEROCHROMATIN AND EUCHROMATIN OF POLYTENE NUCLEI OF DROSOPHILA HYDEI.

H D Berendes H G Keyl

Genetics 57(1):1-13 REF

Sep 1967 442.8 G28

Autoradiography, Chromatin, Cytology, Deoxyribonucleic acid, Drosophila hydei, Insect biochemistry, Insect genetics.

13159-69

EVIDENCE FAVORING A FRAME SHIFT MECHANISM FOR ICR-170 INDUCED MUTATIONS IN DROSOPHILA MELANOGASTER.

E A Carlson R Scderoff M Cogan

Genetics 55(2):295-313 REF

Feb 1967 442.8 G28

Drosophila melanogaster, Insect genetics, Mutation.

13160-69

SELECTION FOR PARTHENOGENESIS IN DROSOPHILA MERCAPTORUM.

H L Carson

Genetics 55(1):157-171 REF

Jan 1967 442.8 G28

Drosophila, Insect genetics, Parthenogenesis.

13161-69

PERSISTENCE OF A MUTANT GENE IN DROSOPHILA POPULATIONS OF DIFFERENT GENETIC BACKGROUNDS.

Y J Chung

Genetics 57(4):957-967

Dec 1967 442.8 G28

Drosophila melanogaster, Genes, Insect genetics, Insect mutation, Insect rearing.

13162-69

PATTERNS OF ABDOMINAL TERGITE BRISTLES IN WILD-TYPE AND SCUTE DROSOPHILA MELANOGASTER.

J H Claxton

Genetics 55(3):525-545 REF

Mar 1967 442.8 G28

Development, Drosophila melanogaster, Insect genetics.

13163-69

MEASUREMENT OF EFFECTIVE GENERATION LENGTH IN DROSOPHILA POPULATION CAGES.

J F Crow Y J Chung

Genetics 57(4):951-955

Dec 1967 442.8 G28

Drosophila melanogaster, Insect genetics, Insect rearing, Population.

13164-69

AN ANALYSIS OF RADIATION-INDUCED VARIATION ON BODY-WEIGHT OF HABROBRACON JUGLANDIS.

M A Dalcroux K-I Kojima

Genetics 55(2):315-328

Feb 1967 442.8 G28

Habrobracon, Insect genetics, Radiation.

13165-69

CLOSE LINKAGE OF EYE COLOR GENES IN TRIBOLIUM CASTANEUM.

A A Dewees A E Bell

Genetics 56(4):533-640 REF

Aug 1967 442.8 G28

Eyes, Genes, Insect genetics, Tribolium castaneum.

13166-69

AN EXPERIMENT ON MIGRATION AND SIMULTANEOUS SELECTION FOR SEVERAL TRAITS IN DROSOPHILA PSEUDOOSCURA.

T Dobzhansky B Spassky

Genetics 55(4):723-734

Apr 1967 442.8 G28

Drosophila pseudoobscura, Insect genetics, Insect migration.

13167-69

EXPERIMENTS ON THE INCIPIENT SPECIES OF THE DROSOPHILA PAULISTORUM COMPLEX.

T Dobzhansky O Pavlovsky

Genetics 55(1):141-156 MAP REF

Jan 1967 442.8 G28

Drosophila paulistorum, Insect evolution, Zoogeography.

13168-69

SELECTION AND THE EFFECT OF TEMPERATURE ON SCUTELLAR BRISTLE NUMBER IN DROSOPHILA.

M Druger

Genetics 56(1):39-47 REF

May 1967 442.8 G28

Development, *Drosophila*, Genes, Insect genetics, Temperature.

13169-69

AN ABNORMAL SEX RATIO IN DROSOPHILA SIMULANS.

S H Faulhaber

Genetics 56(1):189-213 REF

May 1967 442.8 G28

Drosophila simulans, Insect genetics, Population.

13170-69

CROSSING-OVER BETWEEN HETEROZYGOUS INVERSIONS AND ITS RELATION WITH POLYMORPHISM IN DROSOPHILA WILLISTONI.

Z M Franca A B da Cunha

Rev Brasil Biol 28(4):495-497

Dec 1968 442.8 R326

Chromosomes, *Drosophila*, Insect genetics, Polymorphism.

13171-69

GENETIC EVIDENCE OF ELIMINATION OF CHROMOSOMES IN THE HESSIAN FLY.

R L Gallun J H Hatchett

Entomol Soc Amer Ann 62(5):1095-1101

15 Sep 1969 420 EN82

Chromosomes, Insect genetics, *Mayetiola destructor*, Wheat.

13172-69

CROSSING OVER IN A REVERSED ACROCENTRIC COMPOUND X CHROMOSOME OF DROSOPHILA MELANOGASTER.

R C Gethmann

Genetics 55(4):673-679 REF

Apr 1967 442.8 G28

Chromosomes, *Drosophila melanogaster*, Insect genetics.

13173-69

THE GENETICS OF A MUTABLE GENE AT THE WHITE LOCUS OF DROSOPHILA MELANOGASTER.

M M Green

Genetics 56(3, PART 1):467-482 REF

Jul 1967 442.8 G28

Drosophila melanogaster, Genes, Insect genetics.

13174-69

COMPLEMENTATION OF GENETIC ACTIVITY IN TRANSLOCATED FRAGMENTS OF THE Y CHROMOSOME IN DROSOPHILA HYDEI.

O Hess

Genetics 56(2):283-295 REF

Jun 1967 442.8 G28

Chromosomes, *Drosophila hydei*, Insect genetics.

13175-69

GENETIC ACTIVITIES OF THE Y CHROMOSOME IN DROSOPHILA DURING SPERMATOGENESIS.

O Hess G F Meyer

Advances Genet 14:171-223 REF

1968 443 D39

Chromosomes, Cytogenetics, *Drosophila*, Insect genetics, Spermatogenesis.

13176-69

DEVIANT SEX RATIO ASSOCIATED WITH SEGREGATION DISTORTION IN DROSOPHILA MELANOGASTER.

Y Hiraizumi K Nakazima

Genetics 55(4):681-697 REF

Apr 1967 442.8 G28

Drosophila melanogaster, Insect genetics, Meiosis.

13177-69

PURINE CATABOLISM IN DROSOPHILA MELANOGASTER. II. GUANINE DEAMINASE, INOSINE PHOSPHORYLASE AND ADENOSINE DEAMINASE ACTIVITIES IN MUTANTS WITH ALTERED XANTHINE DEHYDROGENASE ACTIVITIES.

L D Hodge E Glassman

Genetics 57(3):571-577 REF

Nov 1967 442.8 G28

Drosophila melanogaster, Enzymes, Insect genetics, Insect metabolism, Insect mutation, Phosphorylases, Purines, Spectrophotometry, Xanthine dehydrogenase.

13178-69

PROTEIN DIFFERENCES IN DROSOPHILA. III. ALLELIC DIFFERENCES AND SPECIES DIFFERENCES IN INVITRO HYBRID ENZYME FORMATION.

J L Hubby S Narise

Genetics 57(2):291-300 REF

Oct 1967 442.8 G28

Alleles, *Drosophila pseudoobscura*, Electrophoresis, Enzymes, Hybrids, Insect biochemistry, Insect genetics, Proteins.

13179-69

MUTAGENESIS AT A COMPLEX LOCUS IN DROSOPHILA WITH THE MONOFUNCTIONAL ALKYLATING AGENT, ETHYL METHANESULFONATE.

J B Jenkins

Genetics 57(4):783-793 REF

Dec 1967 442.8 G28

Chromosomes, *Drosophila*, Ethyl methanesulfonate, Insect genetics, Insect mutation, Insect rearing.

13180-69

SPERMATOGONIAL CROSSING OVER IN DROSOPHILA MELANOGASTER AND DROSOPHILA ANANASSAE.

P G Kale

Genetics 55(2):255-262

Feb 1967 442.8 G28

Drosophila ananassae, *Drosophila melanogaster*, Insect genetics, Spermatogenesis.

13181-69

THE GENETIC ARCHITECTURE OF BODY WEIGHT AND EGG HATCHABILITY IN DROSOPHILA MELANOGASTER.

M J Kearsey K-I Kojima

Genetics 56(1):23-37 REF

May 1967 442.8 G28

Drosophila melanogaster, Insect genetics.

13182-69

COMPARISON OF FREQUENCY DISTRIBUTIONS OF VIABILITIES OF SECOND WITH FOURTH CHROMOSOMES FROM CAGED DROSOPHILA MELANOGASTER.

A Kenyon

Genetics 55(1):123-130

Jan 1967 442.8 G28

Chromosomes, *Drosophila melanogaster*, Insect genetics, Viability.

13183-69

INTERACTION IN FITNESS BETWEEN LETHAL GENES IN HETEROZYGOUS CONDITION IN DROSOPHILA MELANOGASTER.

O Kitagawa

Genetics 57(4):809-820 REF

Dec 1967 442.8 G28

Chromosomes, *Drosophila melanogaster*, Genes, Insect genetics, Lethal factor.

13184-69

THE SALIVARY GLAND CHROMOSOMES OF ANOPHELES ATROPOS.

R D Krcutzer S L Narang J B Kitzmiller

Mosquito News 29(2):223-230

Jun 1969 421 M85

Anopheles, Chromosomes, Cytogenetics, Salivary glands.

13185-69

CHROMOSOMAL FRAGMENTS TRANSMITTED THROUGH THREE GENERATIONS IN ONCOPELTUS (HEMIPTERA).

L E LaChance M Degruillier

Science 166(3902):235-236

10 Oct 1969 470 SC12

Chromosomes, Insect genetics, Insect mutation, Lygaeidae, *Oncopeltus fasciatus*, Sterility.

13186-69

THE RELATION OF GERM LINE MOSAICISM TO SOMATIC MOSAICISM IN DROSOPHILA.

W R Lee C J Kirby C W Debnay

Genetics 55(3):619-634 REF

Mar 1967 442.8 G28

Chromosomes, *Drosophila*, Insect genetics, Insect mutation.

13187-69

STERILITY, CHROMOSOMAL BREAKAGE, X-RAY-INDUCED MUTATION RATES AND DETECTED MUTATION FREQUENCIES IN DROSOPHILA MELANOGASTER.

G Lefevre

Genetics 55(2):263-276

Feb 1967 442.8 G28

Chromosomes, *Drosophila melanogaster*, Insect genetics, Mutation, Sterility, X-rays.

13188-69

DIRECTIONAL SELECTION FOR DURATION OF COPULATION IN DROSOPHILA MELANOGASTER.

I T MacBean P A Parsons

Genetics 56(2):233-239

Jun 1967 442.8 G28

Drosophila melanogaster, Insect genetics, Sex behavior.

13189-69

GENETIC LOADS AFFECTING FERTILITY IN NATURAL POPULATIONS OF DROSOPHILA PSEUDOOSCURA.

D Marinkovic

Genetics 57(3):701-709

Nov 1967 442.8 G28

Chromosomes, *Drosophila pseudoobscura*, Fertility, Insect genetics, Population.

13190-69

GENETIC LOADS AFFECTING FECUNDITY IN NATURAL POPULATIONS OF *DROSOPHILA PSEUDOBSCURA*.

D Marinkovic

Genetics 56(1):61-71 REF

May 1967 442.8 G28

Drosophila melanogaster, Insect genetics, Population.

13191-69

THE INITIATION OF NONHOMOLOGOUS CHROMOSOME PAIRING BEFORE EXCHANGE IN FEMALE *DROSOPHILA MELANOGASTER*.

J R Merriam

Genetics 57(2):409-425 REF

Oct 1967 442.8 G28

Chromosomes, *Drosophila melanogaster*, Insect genetics, Meiosis, Pairings.

13192-69

SOME INTERACTIONS OF CROSSVEINLESS-LIKE GENES IN *DROSOPHILA MELANOGASTER*.

J D Mohler

Genetics 57(1):65-77 REF

Sep 1967 442.8 G28

Drosophila melanogaster, Genes, Insect genetics, Polymorphism.

13193-69

REVERSAL OF HETEROCHROMATIZATION AND THE ACTIVITY OF THE PATERNAL CHROMOSOME SET IN THE MALE MEALY BUG.

U Nur

Genetics 56(3, PART 1):375-389 REF

Jul 1967 442.8 G28

Chromosomes, Cytogenetics, Insect genetics, *Planococcus citri*, Pseudococcidae.

13194-69

AN ANALYSIS OF GENE-ENZYME VARIABILITY IN NATURAL POPULATIONS OF *DROSOPHILA MELANOGASTER* AND *D. SIMULANS*.

S J O'Brien R J MacIntyre

Amer Natur 103(930, MAR-APR):97-113 REF

30 Apr 1969 470 AM36

Drosophila melanogaster, *Drosophila simulans*, Electrophoresis, Enzymes, Genes, Insect genetics, Polymorphism, Population.

13195-69

AN EXPERIMENTAL EXAMINATION OF RESTRICTED SELECTION INDEX, USING *TRIBOLIUM CASTANEUM*. I. THE RESULTS OF TWO-WAY SELECTION.

I Okada R T Hardin

Genetics 57(2):227-236 REF

Oct 1967 442.8 G28

Insect genetics, Insect rearing, Larvae, *Tribolium castaneum*.

13196-69

RESISTANCE OF *CULEX TRITAENIORHYNCHUS GILES* AND *CULEX QUINQUEFASCIATUS SAY* TO MALATHION ON OKINAWA WITH NOTES ON SUSCEPTIBILITY TO OTHER INSECTICIDES.

N E Pennington

Mosquito News 28(2):193-198

Jun 1968 421 M85

Culex quinquefasciatus, *Culex tritaeniorhynchus*, Insecticide resistant insects, Malathion, Organophosphorus compounds, Zoogeography.

13197-69

CHROMOSOME INTERACTIONS IN *DROSOPHILA ROBUSTA*.

S Prakash

Genetics 57(2):385-400 REF

Oct 1967 442.8 G28

Chromosomes, *Drosophila robusta*, Genes, Insect genetics.

13198-69

ASSOCIATION BETWEEN MATING SPEED AND FERTILITY IN *DROSOPHILA ROBUSTA*.

S Prakash

Genetics 57(3):655-663

Nov 1967 442.8 G28

Drosophila robusta, Fertility, Insect behavior, Insect genetics, Insect rearing, Sex behavior.

13199-69

THEORY OF ALLELISM BETWEEN *DROSOPHILA* LETHALS COLLECTED AT DIFFERENT TIMES.

T Prout

Genetics 56(4):659-666

Aug 1967 442.8 G28

Drosophila, Genes, Insect genetics.

13200-69

A POSITIVE CORRELATION BETWEEN CROSSING OVER WITHIN HETEROZYGOUS PERICENTRIC INVERSIONS AND REDUCED EGG HATCH OF *DROSOPHILA* FEMALES.

P A Roberts

Genetics 56(1):179-187 REF

May 1967 442.8 G28

Chromosomes, Cytogenetics, *Drosophila*, Hatching, Insect genetics.

13201-69

DNA REPLICATION IN SALIVARY GLAND NUCLEI OF *DROSOPHILA MELANOGASTER* AT SUCCESSIVE LARVAL AND PREPUPAL STAGES.

T C Rodman

Genetics 55(3):375-386 REF

Mar 1967 442.8 G28

Drosophila melanogaster, Insect genetics, Larvae, Nucleic acids, Pupae, Salivary glands, Synthesis.

13202-69

RECESSIVE LETHALS IN SECOND CHROMOSOMES OF *DROSOPHILA MELANOGASTER* WITH RADIATION HISTORIES.

V M Salceda

Genetics 57(3):691-699

Nov 1967 442.8 G28

Chromosomes, *Drosophila melanogaster*, Insect genetics, Lethal factor, Radiation.

13203-69

PHYSIOLOGICAL GENETICS OF MELANOTIC TUMORS IN *DROSOPHILA MELANOGASTER*. IV. GENE-ENVIRONMENT INTERACTIONS OF TU-BW WITH DIFFERENT THIRD CHROMOSOME BACKGROUNDS.

J H Sang B Burnet

Genetics 56(4):743-754

Aug 1967 442.8 G28

Drosophila melanogaster, Insect genetics, Insect physiology, Neoplasms.

13204-69

INFLUENCE OF SELECTION ON THE VIABILITY OF IRRADIATED EXPERIMENTAL POPULATIONS OF *DROSOPHILA MELANOGASTER*.

K Sankaranarayanan

Genetics 57(3):687-690

Nov 1967 442.8 G28

Drosophila melanogaster, Insect genetics, Irradiation, Population, Viability.

13205-69

LINKAGE IN *MORMONIELLA*.

G B Saul S W Saul S Becker

Genetics 57(2):369-384 REF

Oct 1967 442.8 G28

Alleles, Insect genetics, Insect mutation, *Nasonia vitripennis*, Polymorphism.

13206-69

STABILIZING AND DISRUPTIVE SELECTION ON A MUTANT CHARACTER IN *DROSOPHILA*. I. THE PHENOTYPIC VARIANCE AND ITS COMPONENTS.

W Scharloo M S Hoogmoed A T Kuile

Genetics 56(4):709-726 REF

Aug 1967 442.8 G28

Drosophila, Insect genetics, Population.

13207-69

EFFECTS OF CROSSOVER MODIFYING AGENTS ON RECOMBINATION IN INTRA- AND INTERLOCUS REGIONS IN *DROSOPHILA*.

J Scholefield D T Suzuki

Genetics 55(1):107-111 REF

Jan 1967 442.8 G28

Chromosomes, *Drosophila*, Insect genetics.

13208-69

ULTRASTRUCTURE OF THE CHROMOCENTRE HETEROCHROMATIN IN *DROSOPHILA MELANOGASTER*.

M Sorsa

Suomalainen Tiedekatemia Ann Ser A Iv Biol

(146):3-20 REF

1969 442.9 H36

Chromosomes, Cytology, *Drosophila melanogaster*, Electron microscopy, Insect genetics.

13209-69

ULTRASTRUCTURE OF PUFFS IN THE PROXIMAL PART OF CHROMOSOME 3 R IN *DROSOPHILA MELANOGASTER*.

M Sorsa

Suomalainen Tiedekatemia Ann Ser A Iv Biol

(150):3-21 REF

1969 442.9 H36

Chromosomes, Cytology, *Drosophila melanogaster*, Electron microscopy, Insect genetics.

13210-69

ULTRASTRUCTURE OF THE POLYTENE CHROMOSOME IN *DROSOPHILA MELANOGASTER* WITH SPECIAL REFERENCE TO ELECTRON MICROSCOPIC MAPPING OF CHROMOSOME 3 R.

M Sorsa

Suomalainen Tiedekatemia Ann Ser A Iv Biol

(151):1-18 REF

1969 442.9 H36

Chromosomes, Cytology, *Drosophila melanogaster*, Electron microscopy, Insect genetics, Maps.

13211-69

SINGLE-LOCUS MODIFICATION OF POSITION-EFFECT VARIATION IN *DROSOPHILA MELANOGASTER*. I. WHITE VARIATION.

J B Spofford

Genetics 57(4):751-766 REF

Dec 1967 442.8 G28

Chromosomes, *Drosophila melanogaster*, Insect genetics, Insect rearing.

13212-69

THE EFFECT OF TEMPERATURE ON CROSSVEIN FORMATION IN CROSSVEINLESS-LIKE STRAINS OF *DROSOPHILA MELANOGASTER*.

S R Thompson

Genetics 56(1):13-22

May 1967 442.8 G28

Drosophila melanogaster, Genes, Insect genetics, Temperature.

13213-69

SELECTIVE MODES ASSOCIATED WITH INVERSION KARYOTYPES IN *DROSOPHILA ANANASSAE*. I. FREQUENCY-DEPENDENT SELECTION.

Y N Tobar K I Kojima

Genetics 57(1):179-188

Sep 1967 442.8 G28

Chromosomes, *Drosophila ananassae*, Insect genetics, Insect rearing.

13214-69

X-RAY INDUCTION OF 2;3 TRANSLOCATIONS IN MATURE AND IMMATURE OOCYTES OF *DROSOPHILA MELANOGASTER*.

H Traut

Genetics 56(2):265-272 REF

13215-69

Jun 1967 442.8 G28
Chromosomes, *Drosophila melanogaster*, Insect genetics, X-rays.

**13215-69
INCIDENCE OF GENETIC MUTATIONS IN CULEX PIPIENS.**

R C Vandehey
Mosquito News 29(2):183-189 REF
Jun 1969 421 M85

Abdomen, Antennae, *Culex pipiens*, Eyes, Insect genetics, Insect morphology, Larvae, Mutations, Thorax, Wings (insects).

**13216-69
INDUCTION OF HYBRID STERILITY IN NON-HYBRID MALES OF DROSOPHILA PAULISTORUM.**

D L Williamson L Ehrman
Genetics 55(1):131-140 REF
Jan 1967 442.8 G28

Drosophila paulistorum, Insect genetics, Sterility.

**13217-69
VIABILITY OF HOMOKARYOTYPES IN THE TUMOROUS-HEAD STRAIN OF DROSOPHILA MELANOGASTER.**

C M Woolf
Genetics 57(2):427-436 REF
Oct 1967 442.8 G28

Chromosomes, *Drosophila melanogaster*, Insect genetics, Insect rearing, Viability.

**13218-69
THE MODE OF SELECTION AT THE POLYMORPHIC ESTERASE 6 LOCUS IN CAGE POPULATIONS OF DROSOPHILA MELANOGASTER.**

K Yarbrough K I Kojima
Genetics 57(3):677-686 REF
Nov 1967 442.8 G28

Drosophila melanogaster, Esterases, Insect genetics, Polymorphism, Population.

MEDICAL ENTOMOLOGY

**13219-69
ABATE AND DURSBAN AGAINST AEDES AEGYPTI (L.) BREEDING IN CONCRETE WATER JARS IN BANGKOK, THAILAND.**

B M Glancey M A Moussa J E Scanlon C S Lofgren
Mosquito News 28(2):205-206
Jun 1968 421 M85

Aedes aegypti, Chemical control (insects), Concrete, Diethyl O-3,5,6-trichloro-2-pyridyl phosphorothioate, O,O -, Insecticides, Larvae, Organophosphorus compounds, Tetramethyl O,O'-thiodi-p-phenylene phosphorothioate, O, o, Water storage, Zoogeography.

**13220-69
FIELD TESTS WITH BED NETS TREATED WITH REPELLENTS TO PREVENT MOSQUITO BITES.**

H K Gouck M A Moussa
Mosquito News 29(2):263-264
Jun 1969 421 M85

Aedes, *Culex*, Culicidae, Insect control, Insect vectors, Sanitation control (insects).

**13221-69
UNIQUE PROBLEMS IN INSECT AND PEST CONTROL OF NASA'S MISSISSIPPI TEST FACILITY.**

F W Harden B J Ethridge
Mosquito News 28(2):141-143
Jun 1968 421 M85

Aedes sollicitans, *Aedes taeniorhynchus*, Carabates, Chemical control (insects), Culicidae, Insecticidal aerosols, Isopropoxyphenyl methylcarbamate, o-, Naled, Polistes, Tabanidae.

**13222-69'
EVALUATION OF DURSBAN AS A LARVICIDE IN SEPTIC DITCHES.**

J C McNeill W O Miller C M Wleczyk

Mosquito News 28(2):160-161
Jun 1968 421 M85
Chemical control (insects), *Culex pipiens quinquefasciatus*, Diethyl O-3,5,6-trichloro-2-pyridyl phosphorothioate, O,O -, Insecticides, Larvicides, Organophosphorus compounds, Sewage disposal.

Several years of Dursban field analyses and laboratory experiments with *Culex pipiens quinquefasciatus* indicated that Dursban was an effective mosquito larvicide in open septic ditches and stagnant water when used in emulsifiable or granular formulations.

**13223-69
OIL LARVICIDES APPLIED BY AIRCRAFT IN AN AREA CHARACTERIZED BY RESISTANCE TO ORGANOPHOSPHORUS LARVICIDES.**

W D Murray
Mosquito News 28(2):233
Jun 1968 421 M85

Aedes nigromaculis, Aerial spraying, Insecticide resistant insects, Larvicides, Oil sprays, Organophosphorus compounds.

**13224-69
MOSQUITO STUDIES IN NORTHERN WISCONSIN. I. LARVAL STUDIES.**

R E Siverly G R DeFoliart
Mosquito News 28(2):149-154
Jun 1968 421 M85

Aedes, Culicidae, Culiseta morsitans, Insect ecology, Insect outbreaks, Larvae, Population, Statistical distributions, Zoogeography.

Data are presented concerning the sites of mosquito production and characteristics of larval populations including their relative abundance in a northern Wisconsin study area.

**13225-69
DRIP APPLICATION OF THREE ORGANOPHOSPHORUS INSECTICIDES FOR MOSQUITO CONTROL.**

R D Sjogren M S Mulla
Mosquito News 28(2):172-177 REF
Jun 1968 421 M85

Chemical control (insects), *Culex tarsalis*, Diethyl O-3,5,6-trichloro-2-pyridyl phosphorothioate, O,O -, Fenthion, Formulations, Insecticide application, Insecticides, Organophosphorus compounds, Ponds, Streams, Tetramethyl O,O'-thiodi-p-phenylene phosphorothioate, O, o.

A review of drip application methods and the presentation of field study data indicate effective and economical mosquito larvae control in both flowing and quiescent waters can be achieved with Dursban, fenthion and Abate at rates of 0.2 ppm and 0.15 to 0.25 pounds per acre respectively.

**13226-69
TREE PLANTINGS FOR MOSQUITO CONTROL.**

G E Smith E Pickard T F Hall
Mosquito News 29(2):161-166
Jun 1969 421 M85

Anopheles quadrimaculatus, Culicidae, Cultural control (insects), Ecology, Larvae, Trees.

**13227-69
HISTORY OF MOSQUITO OCCURRENCE IN MISSOURI.**

L W Smith
Mosquito News 29(2):220-222
Jun 1969 421 M85

Anopheles, Culicidae, History, Insect vectors, Malaria.

**13228-69
LOW VOLUME FOG AND MIST FOR GROUND USE.**

G A Thompson
Mosquito News 29(2):166-169
Jun 1969 421 M85

Aerosols, Chemical control (insects), *Culex*, Culicidae, Insecticide application, Mist blowers, Spraying equipment.

CROP PROTECTION

**13229-69
TREE PLANTING GUIDE FOR RURAL SOUTH AUSTRALIA.**

C D Boomsma
(12):107P
1966 99.9 S08

Australia, Insect pests, Plant breeding, Plant physiology, Insect protection, Rural development, Tree injuries, Tree planting.

**13230-69
RECENT INTRODUCTIONS FOR BIOLOGICAL CONTROL IN HAWAII. XII.**

C J Davis N L H Krauss
Hawaii Entomol Soc Proc 19(3):375-380, REF
Jun 1967 420 H312

Beneficial insects, Biological control (insects), Biological control (pests), Biological control (weeds), Insect pests, Parasitic insects, Plant pest control, Snails.

**13231-69
CULTIVATION OF THE CRICKET BAT WILLOW.**

Great Brit Forest Comm Bull (17):1-28 REF
1968 99.9 G795

Bacterial diseases (plants), Fungus diseases (plants), Livestock, Phytophagous insects, Plant diseases, Plant taxonomy, Planting, Rabbits, *Salix alba*, Soil properties, Spraying, Temperature, Tree injuries.

Partial contents p. 30-34

**13232-69
PLANT PATHOLOGY AND THE PLANT PATHOLOGIST.**

A E Muskett
Annu Rev Phytopathol 5:1-16
1967 464.8 AN72

Agricultural research, History, Plant diseases, Reviews.

**13233-69
SPRAY SCHEDULE FOR DISEASES AND INSECTS OF CANE FRUITS.**

Oreg State Univ Ext Circ (609):7P
Feb 1969 275.29 OR32C

Chemical control (insects), Chemical control (plant diseases), Fruit, Fungicides, Fungus diseases (plants), Insect pests, Insecticides, Pesticide application, Spraying. Many insect pests and fungus diseases of fruits are discussed. Also several pesticides are listed.

**13234-69
CONTROL OF LEAF AND STEM RUSTS OF WHEAT BY COMBINATIONS OF SOIL APPLICATION OF AN I,4-OXATHIIN DERIVATIVE WITH FOLIAGE SPRAYS.**

J B Rowell
Plant Dis Rep 52(11):856-858
Nov 1968 1.9 P69P

Chemical control (plant diseases), Chemicals, Dihydro-5-carboxanilido-6-methyl-1,4-oxathiin-4,4-dioxide, 2,, Leaf rust, Planting, Spraying, Stem rust, Tables (data), Wheat.

**13235-69
MANUFACTURE OF COATED SEED WITH DELAYED GERMINATION.**

K Schreiber L J LaCroix
Can J Plant Sci 47(4):455-457
Jul 1967 450 C16

Crop yields, Fungicides, Herbicides, Seed germination.

DISEASES

**13236-69
PREVENTION AND TREATMENT.**

Anonymous
Kurukshetra 16(11):14-15
Aug 1968 281.28 K96

- Acrididae, Agricultural legislation, Agricultural policies, Insect pests, Plant pest control, Plant protection, Rice.
- 13237-69**
ALTERNARIA BLIGHT OF GROUNDNUTS.
K S Aulakh
Plant Dis Rep 53(5):397-398
May 1969 1.9 P69P
Alternaria tenuis, Blight, Fungus diseases (plants), Peanuts.
- 13238-69**
POSTHARVEST HEAT TREATMENT TO CONTROL STORAGE ROTTS OF SPADONA PEARS.
R Ben-Aire S Guelfat-Reich
Plant Dis Rep 53(5):363-367 REF
May 1969 1.9 P69P
Alternaria tenuis, Botrytis einerea, Fungus diseases (plants), Pears, Penicillium expansum, Plant disease control, Plant injuries, Rot, Storage diseases, Thermotherapy.
- 13239-69**
EPIDEMIOLOGY OF LEAFHOPPER-TRANSMITTED VIRUSES.
C W Bennett
Annu Rev Phytopathol 5:87-108 REF
1967 464.8 AN72
Cicadellidae, Disease transmission, Insect migration, Insect vectors, Virus diseases (plants).
- 13240-69**
FUNGICIDES IN PERSPECTIVE.
K J Bent
Endeavour 28(105):129-134
Sep 1969 472 EN2
Fungicides, Fungus diseases (plants), Plant physiology, Systemic fungicides.
- 13241-69**
ULTRASTRUCTURE OF FUNGI.
C E Bracker
Annu Rev Phytopathol 5:343-374 REF
1967 464.8 AN72
Cell nucleus, Fungi, Fungus diseases (plants), Hyphae, Morphology, Plant cytology, Plant physiology, Spore germination, Spores.
- 13242-69**
EXPERIMENTS ON THE CONTROL OF WHIPTAIL IN CAULIFLOWER.
A Brown J Webber
Exp Hort (18):32-39
1968 80 EX7
Cauliflower, Hydrogen-ion concentration, Liming, Molybdenum, Plant diseases, Plant nutritional deficiencies, Sodium, Soils.
- 13243-69**
SOUTHERN CORN LEAF BLIGHT ON SWEET CORN EARS IN TRANSIT.
C L Burton
Plant Dis Rep 52(11):847-851
Nov 1968 1.9 P69P
Cochliobolus heterostrophus, Corn, Culture media, Freight transportation, Fungus diseases (plants), Injections, Leaf blight, Microorganisms, Temperature.
- 13244-69**
THE JAPANESE BEETLE, POPILLIA JAPONICA NEWM. (COLEOPTERA: SCARABAEIDAE) IN SOUTHERN QUEBEC. (FR00)
J J Cartier
Entomol Soc Quebec Ann 14(1):10
Jan 1969 420 EN822
Chemical control (insects), Chlordane, Insect outbreaks, Insecticides, *Popillia japonica*, Zoogecography.
- 13245-69**
PURIFICATION AND CONSERVATION OF INFECTIVE SUGAR BEET MOSAIC VIRUS.
J Chod J Polak
Biol Plant 11(4):324-326
1969 450 B52
Lyophilization, Mosaic (sugar beets), Sugar beets, Viruses.
- 13246-69**
ETIOLOGY OF SOME BACTERIAL DISEASES OF POPLAR IN POLAND. I. BACTERIOSIS CAUSED BY PSEUDOMONAS MIGULA AND ERWINIA WINSLAW.
K Danilewicz
Acta Microbiol Polon 16(1):73-81 REF
1967 448.3 AC82
Bacterial diseases (plants), Erwinia, Plant diseases, Populus, Pseudomonas.
- 13247-69**
A CONTRIBUTION TO THE STUDY OF THE PARASITE CERCOSPORELLA HERPOTRICHOIDES ON THE WHEAT. (SE)
M Dimitrijevic
Zastita Bilja 18(93-95):241-246 REF
1967 464.8 Z1
Cercospora herpotrichoides, Crop varieties, Fungus diseases (plants), Plant disease resistance, Plant disease transmission, Symptomatology, Wheat. English summary.
- 13248-69**
CONTROL OF DISEASES OF FRUITS AND VEGETABLES BY POSTHARVEST TREATMENT.
J W Eckert N F Sommer
Annu Rev Phytopathol 5:391-432 REF
1967 464.8 AN72
Biphenyl, Borax, Chemical control (plant diseases), Fruit, Fungicides, Halogen compounds, Irradiation, Sodium carbonate, Sulfur compounds, Temperature, Vegetables.
- 13249-69**
ANATOMY OF PLANT VIRUS INFECTIONS.
K Esau
Annu Rev Phytopathol 5:45-76 REF
1967 464.8 AN72
Disease transmission, Electron microscopy, Plant cytology, Plant physiology, Plant translocation, Virology, Virus diseases (plants).
- 13250-69**
A KINETIC ISOTOPE EFFECT IN THE PHOTOREACTIVATION OF U. V.-INACTIVATED TOBACCO MOSAIC VIRUS RNA.
N A Evans A D McLaren
Photochem Photobiol 9(3):243-246 REF
Mar 1969 382 P56
Deuterium, Isotopes, Kidney beans, Kinetics, Mosaic, Photochemistry, Ribonucleic acid, Tobacco mosaic virus, Ultraviolet rays.
- 13251-69**
LEPTOSPHAERIA LINDQUISTII N. SP., AS CAUSAL OF (BLACK STEM) IN SUNFLOWERS. (SP)
M J Frezzi
Rev Invest Agr Ser 5, Patol Veg 5(7):73-80
1968 464.8 R322
Black stem, Fungus diseases (plants), *Leptosphaeria lindquisti*, *Phoma lingam*, Sunflowers. English abstract.
- 13252-69**
FACTORS AFFECTING THE SYSTEMIC ANTIFUNGAL ACTIVITY OF SOME CHEMICAL RELATED COMPOUNDS.
J L Garraway S E Cook
J Sci Food Agr 20(7):409-412 REF
Jul 1969 382 SO12
Fungicides, Glycosides, Phenols, Sulfanilic acid, Uromyces.
- 13253-69**
TOLERANCE OF FUNGI TO ORGANIC FUNGICIDES.
S G Georgopoulos
Annu Rev Phytopathol 5:109-130 REF
1967 464.8 AN72
Fungi, Fungicide resistant fungi, Fungicides, Fungus diseases (plants), Organic compounds, Tolerances.
- 13254-69**
PHYSICAL ASPECTS OF SOIL IN RELATION TO THE ACTION OF SOIL FUNGICIDES.
C A I Goring
Annu Rev Phytopathol 5:285-318 REF
1967 464.8 AN72
Bibliography, Decomposition, Pesticide residues, Soil fungicides, Soil properties.
- 13255-69**
NOTES ON WISCONSIN PARASITIC FUNGI. LXXXIII.
H C Greene
Wis Acad Sci Arts Lett Trans 56:263-280
1968 500 W75
Fungi, Fungus diseases (plants), Parasitic plants, Plant morphology, Surveys.
- 13256-69**
PARTICLE SIZE OF THE SEVERE STRAIN OF BEAN YELLOW MOSAIC VIRUS. ELECTRON MICROSCOPE INVESTIGATIONS.
T B Grelh W Blaszczak
Acta Microbiol Polon 16(1):69-72
1967 448.3 AC82
Beans, Electron microscopy, Mosaic (bean yellow), Virus diseases (plants).
- 13257-69**
OPTICAL INVESTIGATIONS ON DOUBLE STRANDED RIBONUCLEIC ACID FROM TURNIP YELLOW MOSAIC VIRUS.
W Guschlbauer Y Courtois C Bove J M Bove
Z Vererbungslehre 103(2):150-158 REF
30 Dec 1968 442.8 Z34
Biochemistry, Cytology, Ribonucleic acid, Spectrophotometry, Turnips, Virology, Virus diseases (plants), Yellow mosaic.
- 13258-69**
CHEMICAL CONTROL OF SUPERFICIAL SCALD ON ANJOU PEARS.
E Hansen W M Mellenthin
Amer Soc Horticul Sci Proc 91:860-862
1967 81 SO12
Chemical control (plant diseases), Dihydro-6-ethoxy-2,2,4-trimethylquinoline, 1,2-, Diphenylamine, Dipping, Dosage, Pears, Plant diseases, Plant physiology, Scald, Spraying.
- 13259-69**
THE GENETICS AND EXPRESSION OF RESISTANCE IN PLANTS TO RUSTS OF THE GENUS PUCCINIA.
A L Hooker
Annu Rev Phytopathol 5:163-182 REF
1967 464.8 AN72
Environment, Fungus diseases (plants), Plant disease resistance, Plant genetics, Plant physiology, Puccinia.
- 13260-69**
SPECIATION IN VERTICILLIUM.
I Isaac
Annu Rev Phytopathol 5:201-222 REF
1967 464.8 AN72
Fungi, Fungus diseases (plants), Plant physiology, Plant taxonomy, Verticillium.
- 13261-69**
THE EFFECTS OF SOIL TREATMENTS ON ANEMONE DOWNY MILDEW INFECTION.
A E Jeff
Exp Hort (18):101-109
1968 80 EX7
Anemone, Chemical control (plant diseases), Downy mildew, Fungicides, Fungus diseases (plants), Ranunculaceae, Sodium N-methyl-dithiocarbamate, Soil-borne plant diseases, Soils.
- 13262-69**
IDENTIFICATION AND CHARACTERIZATION OF TUNGRO, A VIRUS DISEASE OF RICE IN INDIA.
V T John
Plant Dis Rep 52(11):871-875
Nov 1968 1.9 P69P

13263-69

Insect cages, Insect vectors, Nephotettix apicalis, Nephotettix impicticeps, Rice, Tungro, Virus diseases (plants).

13263-69

THE WORLD SITUATION OF THE CEREAL RUSTS.

T Johnson G J Green D J Samborski
Annu Rev Phytopathol 5:183-200 REF
1967 464.8 AN72

Chemical control (plant diseases), Fungus diseases (plants), Grain, Plant disease transmission, Plant genetics, Plant taxonomy, Uredinales.

13264-69

A CONTRIBUTION TO THE KNOWLEDGE OF SPEED OF EXPANSION OF PLUM POX VIRUS IN NATURAL CONDITIONS. (SE)

B Jovicevic B Durdevic
Zastita Bilja 18(93-95):257-260
1967 464.8 Z1

Epidemiology, Fruit, Plant disease transmission, Plums, Poxviruses, Symptomatology, Virology, Virus diseases (plants). English summary.

13265-69

A STRAIN OF HOLMES' RIBGRASS VIRUS OCCURRING IN YUGOSLAVIA.

N Juretic M Wrischer Z Polak
Biol Plant 11(4):284-290 REF
1969 450 B52

Diagnosis, Plant disease transmission, Serodiagnosis, Taxonomy, Virus diseases (plants).

13266-69

PHYTOTOXICITY OF DITHIOCARBAMATE FUNGICIDES ON WORCESTER PEARMAIN.

A H M Kirby M Bennett R O Sharples
Horticultural Abs 38(3):695
Sep 1968 241 IM74

Apples, Dithiocarbamates, Fungicides, Fungus diseases (plants), Plant protection, Toxicology.

13267-69

THE HYPERSENSITIVE REACTION TO INFECTION BY BACTERIAL PLANT PATHOGENS.

Z Klement R N Goodman
Annu Rev Phytopathol 5:17-44 REF
1967 464.8 AN72

Antibiotics, Antibodies, Bacterial diseases (plants), Environment, Hypersensitivity, Immunity, Plant nutrition, Plant physiology, Reviews, Toxicology.

13268-69

CHEMOTHERAPY OF HEAD SMUT (USTILAGO BULLATA) IN BROMUS WILLDENOWII.

G C M Latch
Plant Dis Rep 53(4):284-286
Apr 1969 1.9 P69P

Bromus, Chemical control (plant diseases), Dihydro-5-carboxanilido-6-methyl-1,4-oxathiin-4,4-dioxide, 2, Dihydro-5-carboxanilido-6-methyl-1,4-oxathiin, 2,3-, Fungicides, Head smut, Ustilago bullata.

13269-69

A PHYLOSTICTA LEAF SPOT DISEASE OF KAGZI LIME.

V C Lele S P Raychaudhuri A Ram
Indian Phytopathol 21(2):237
Jun 1968 464.8 IN2

Fungus diseases (plants), Leaf spot, Limes, Phyllosticta.

13270-69

NECROSIS AND DIE-BACK IN CONIFERS CAUSED BY DIPLODIA PINEA. (IT)

G Magnani
Ente Naz Cell Carta Cent Sperim Agr Forest Pubbl 9(3):209-220 REF
1967 16 C332

Coniferae, Dieback, Fungus diseases (plants), Macrophoma pinea, Necrosis, Pinus pinca, Pinus radiata. English summary.

13271-69

SECOND INVESTIGATION ON THE DISTRIBUTION OF MARSSONINA BRUNNEA (ELL. ET EV.) P. MAGN. IN CENTRAL AND SOUTHERN ITALY. (IT)

G Magnani
Ente Naz Cell Carta Cent Sperim Agr Forest Pubbl 9(3):173-180 MAP
1967 16 C332

Drepanopeziza punctiformis, Fungus diseases (plants), Plant geography, Populus. English summary.

13272-69

THE RANGE OF WESTERN GALL RUST IN WISCONSIN.

W T McGrath R F Patton
Plant Dis Rep 53(5):357-359 MAP REF
May 1969 1.9 P69P

Epidemiology, Fungus diseases (plants), Peridermium harknessii, Western gall rust.

13273-69

DIDYMELLA STEM AND FRUIT ROT OF TOMATO.

Great Brit Min Agr Fish Food Adv Leaflet (560):1-5
Mar 1968 10 G79LA

Captan, Chemical control (plant diseases), Cultural control (plant diseases), Didymella lycopersici, Fungus diseases (plants), Maneb, Plant disease transmission, Rot, Soil sterilization, Tomatoes.

The causal agent of stem and fruit rot of tomatoes (*Didymella lycopersici*), symptoms of the diseases, and recommended control measures are presented.

13274-69

SOME PROPERTIES OF PEA ENATION MOSAIC VIRUS ISOLATED FROM FIELD PEA AND BROAD BEAN PLANTS IN BOHEMIA.

M Musil O Leskova
Biol Plant 11(4):319-323
1969 450 B52

Beans, Diagnosis, Peas, Plant disease transmission, Taxonomy, Virus diseases (plants).

13275-69

EXOCORTIS IN CITRUS IN INDIA.

T K Nariani S P Raychaudhuri B C Sharma
Plant Dis Rep 52(11):834-834
Nov 1968 1.9 P69P

Citrus, Exocortis, Surveys, Trees, Tristeza, Virus diseases (plants).

13276-69

OCCURRENCE IN COCHLIOBOLUS HETEROSTROPHUS OF CAPACITIES TO BLIGHT GRAMINEOUS HOSTS.

R R Nelson D M Kline
Plant Dis Rep 52(11):879-882
Nov 1968 1.9 P69P

Cochliobolus heterostrophus, Culture media, Geography, Grasses, Plant diseases, Tables (data).

13277-69

EYE-SPOT OF NAPIER GRASS CAUSED BY HELMINTHOSPORIUM SACCHARI IN JAPAN. (JA)

N Nishihara
Cliba City Nat Inst Anim Indus Bull (15):33-41 REF
Oct 1967 49.9 C436K

Eyespot, Fungus cultures, Fungus diseases (plants), Grasses, Helminthosporium sacchari. English summary.

13278-69

PHYTOPATHOLOGY IN A HUNGRY WORLD.

W C Paddock
Annu Rev Phytopathol 5:375-390 REF
1967 464.8 AN72

Crop yields, Foreign trade, History, Plant diseases.

13279-69

THE PROBLEMS OF PLANT DISEASE CONTROL.

B P Pal

Indian Farming 18(5):4-5

Aug 1968 22 IN283

Alternaria, Chemical control (plant diseases), Helminthosporium, Piricularia, Plant disease control, Plant disease resistance, Plant quarantine.

Plant disease control through quarantine, chemicals, and the education of agricultural workers in India is discussed.

13280-69

FURTHER INVESTIGATIONS ON AN ABNORMALITY OF POTATO TUBERS. (IT)

C M Pettinari
Giornate Fitopatol 623-626

26 Mar 1967 SB599.G5

Agriotes litigiousus, Insect pests, Plant diseases, Plant injuries, Potatoes, Symptomatology, Tubers.

13281-69

FUNGICIDES FOR THE CONTROL OF LEAF SPOT (PSEUDOPEZIZA RIBIS) OF BLACK CURRANTS.

F O Riordan
Irish J Agr Res 7(3):317-323 REF

Dec 1968 10.5 IR45

Chemical control (plant diseases), Chlorinated hydrocarbons, Currants, Dinitrile-1,4-dithioanthraquinone, 2,3-, Dodine, Folpet, Fungicides, Fungus diseases (plants), Leaf spot, Maneb (zinc ion), Pseudopeziza ribis, Tetrachloroethyl(thio)-4-cyclohexene-1,2-dicarboximide, cis-, Tetrachloroisophthalonitrile, Thiocarbamates, Zineb. There is a list of the effects of fungicides.

13282-69

AROMATIC COMPOUNDS IN THE HOST-PARASITE INTERACTION.

R Rohringer D J Samborski
Annu Rev Phytopathol 5:77-86 REF
1967 464.8 AN72

Aromatic hydrocarbons, Metabolites, Parasitism, Phytoalexin, Plant biochemistry.

13283-69

STUDIES ON THE BACTERIAL DISEASES OF SUDAN CROPS. VII. NEW RECORDS.

K Sabet F Ishag O Khall
Ann Appl Biol 63(3):357-369 REF
Jun 1969 442.8 AN72

Bacterial diseases (plants), Surveys, Weeds, Xanthomonas.

13284-69

STUDIES ON THE NEEDLE RUST OF THE FIVE-NEEDED PINES. (JA)

H Saho
Tokyo Univ Forest Bull (64):59-148 REF
Mar 1968 99.9 T57

Coleosporium, Pine needles, Pinus, Rust. English summary.

13285-69

SITES OF VIRUS SYNTHESIS WITHIN CELLS.

D E Schlegel S H Smith
Annu Rev Phytopathol 5:223-246 REF
1967 464.8 AN72

Autoradiography, Biochemistry, Cell nucleus, Cytoplasm, Plant cytology, Spectrophotometry, Synthesis, Virology, Virus diseases (plants).

13286-69

A COMPARISON OF THE BEHAVIOR OF TWO PEA PATHOGENS IN CUT-AWAY PEAT AND LOAM.

J J Sheridan C H Dickinson
Irish J Agr Res 7(3):335-342 REF
Dec 1968 10.5 IR45

Ascochyta pisi, Fungus diseases (plants), Loam, Microbiology, Mycosphaerella pinodes, Peas, Peat, Soil fungi, Temperature.

13287-69

EFFECT OF TEMPERATURE ON THE ABILITY OF COLLETOTRICHUM GRAMINICOLA TO FORM APPRESSORIA AND PENETRATE BARLEY LEAVES.

W P Skoropad
Can J Plant Sci 47(4):431-434 REF

Jul 1967 450 C16

Appressoria, Barley, Colletotrichum graminicolum, Fungus diseases (plants), Temperature.

Abstract: Appressoria can penetrate barley leaves only at a range of 25 to 30 C. Appressoria formed at 15 to 20 C remain dormant until exposed to the higher range of 25 to 30 C.

13288-69

'PELIPITA', AN ABB BLUGGOE-TYPE PLANTAIN RESISTANT TO BACTERIAL AND FUSARIAL WILTS.

R H Stover D L Richardson

Plant Dis Rep 52(11):901-903

Nov 1968 1.9 P69P

Bacteria, Bacterial wilt, Food, Fusarium oxysporum, Livestock, Plantago, Pseudomonas solanacearum, Wilt.

13289-69

THE QUANTITATIVE EFFECT OF LIGHT AND MOISTURE ON CARROT SEED INFECTIONS IN BLOTTER MEDIUM.

J de Tempe

Int Seed Testing Ass Proc 33(3):547-553

1968 61.9 IN84P

Alternaria dauci, Alternaria radicina, Carrots, Culture media, Fungus diseases (plants), Humidity, Light, Seeds.

13290-69

THE DETECTION OF HELMINTHOSPORIUM AND FUSARIUM SPP. IN RYEGRASS AND MEADOW FESCUE SEED SAMPLES.

J de Tempe

Int Seed Testing Ass Proc 33(3):541-545

1968 61.9 IN84P

Festuca elatior, Fusarium, Helminthosporium, Lolium, Seed analysis, Seeds.

13291-69

THE PREVALENCE OF CRAZY TOP OF CORN IN 1968.

A J Ullstrup M H Sun

Plant Dis Rep 53(4):246-250

Apr 1969 1.9 P69P

Corn, Crazy top, Epidemiology, Fungus diseases (plants), Sclerophthora macrospora.

13292-69

PRODUCTION AND STABILITY OF HETEROKARYONS OF THE PHYTOPATHOGENIC FUNGUS FUSARIUM VASINFECTUM.

R Uma Bai K Radhashanmugasundaram E R B

Shanmugasundaram

Cur Sci 37(22):647-648

20 Nov 1968 475 SC123

Cytology, Fungus diseases (plants), Fusarium vasinfectum, Plant diseases.

13293-69

INVESTIGATIONS OF THE EFFICACY OF SOME FUNGICIDES IN THE CONTROL OF MYCOSPHAERELLA SENTINA-CAUSER OF THE LEAF SPOT OF PEARS. (SE)

D Vojvodic V Radovic

Zastita Bilja 18(93-95):269-274

1967 464.8 Z1

Chemical control (plant diseases), Fungicides, Fungus diseases (plants), Leaf spot, Mycosphaerella sentina, Pears, Spraying. English summary.

13294-69

HEREDITARY RESISTANCE TO DISEASE IN TOMATO.

J M Walter

Annu Rev Phytopathol 5:131-162

1967 464.8 AN72

Fungus diseases (plants), Plant disease resistance, Plant injuries, Reviews, Tomatoes.

13295-69

FUNGI ISOLATED FROM TOBACCO LEAVES AND BROWN-SPOT LESIONS BEFORE AND AFTER FLUE-CURING.

R E Welty G B Lucas J T Fletcher H Yang

Appl Microbiol 16(9):1309-1313

Sep 1968 448.3 AP5

Brown spot, Flue-cured tobacco, Fungus diseases (plants), Tobacco.

13296-69

REACTIONS OF POPLARS TO INFECTION BY SEPTORIA MUSIVA AND DIPLODIA TUMEFACIENS AND TO INJURY BY FROST IN MANITOBA AND SASKATCHEWAN.

H Zalasky O K Fenn C H Lindquist

Plant Dis Rep 52(11):829-833 REF

Nov 1968 1.9 P69P

Fungus diseases (plants), Macrophoma tumefaciens, Plant injuries, Populus deltoides, Septoria musiva, Weather.

ARTHROPODS

13297-69

GRAIN APHIDS IN NEW BRUNSWICK. IV. EFFECTS OF MALATHION AND 2,4-D AMINE ON APHID POPULATIONS AND ON YIELDS OF OATS AND BARLEY.

J B Adams M E Drew

Can J Zool 47(3):423-426

May 1969 470 C16D

Barley, Crop yields, D, 2,4-, Grain, Herbicides, Insect pests, Insecticides, Longevity, Macrosiphum avenae, Malathion, Oats, Organophosphorus compounds, Phenoxo acid compounds, Reproduction, Rhopalosiphum padi.

13298-69

POLYDRUSUS CONFLUENS STEPH. (COL., CURCULIONIDAE) RECORDED IN ERROR FROM OAK.

A A Allen

Entomol Mon Mag (SER.4) 98(267-269):108

Mar 1962 421 EN86

Curculionidae, Cytisus, Food plants, Insect rearing, Polydrusus confluens, Quercus, Reports.

13299-69

NEW RESULTS IN THE CONTROL OF THE COFFEE BORER--HYPOTHENEMUS HANPEI (FERR., 1867). (POR)

P R Almeida R D Cavalcante A A Holanda

Biologico 33(1):14-17 REF

Jan 1967 442.8 B529

Benzene hexachloride, Chemical control (insects), Chlorinated hydrocarbons, Dimethoate, Endosulfan, Hypothenemus hampei, Insect control.

13300-69

THE RELATIVE SUSCEPTIBILITY OF THE LARVAE OF SPODOPTERA MAURITIA ACRONYCTOIDES (GUENEE) (LEPIDOPTERA: NOCTUIDAE) TO SEVERAL CONTACT INSECTICIDES.

K Ando M Sherman

Hawaii Entomol Soc Proc 19(3):349-360, REF

Jun 1967 420 H312

Biological assay, Carbamates, Carbaryl, Chlor-dane, Chlorinated hydrocarbons, DDT, Dosage, Fenthion, Insect behavior, Insect diseases, Insect rearing, Insect taxonomy, Insecticides, Larvae, Malathion, Mortality, Nosema, Organophosphorus compounds, Plant pest control, Regression analysis, Spodoptera mauritia acronyctoides.

13301-69

EFFECTS OF THREE SPECIES OF APHIDS ON BARLEY, WHEAT OR OATS AT VARIOUS STAGES OF PLANT GROWTH.

J U Apablaza A G Robinson

Can J Plant Sci 47(4):367-373 REF

Jul 1967 450 C16

Barley, Macrosiphum avenae, Oats, Plant pest resistance, Rhopalosiphum maidis, Schizaphis graminum, Wheat.

Abstract: The corn leaf aphid did not establish large populations on wheat or oats but most seedlings of barley infested prior to heading were killed. The greenbug and the English grain aphid severely injured or killed seedlings of barley, wheat, and oats, and caused reductions in kernel weight of harvested grain, even when placed on plants in advanced stages of growth.

13302-69

THE USE OF CICALIA TO CONTROL CERTAIN POPLAR BORERS. (IT)

B Cavalcaselle E De Bellis

Ente Naz Cell Carta Cent Sperim Agr Forest Pubbl 9(3):155-162 REF

1967 16 C332

Cerambycidae, Chemical control (insects), Cryptorhynchus lapathi, Diazinon, Ethyl mercaptophenylacetate, O,O-dimethyl phosphorodithioa t, Fenthion, Insect pests, Organophosphorus compounds, Parathion, Phosphamidon, Populus, Saperda carcharias. English summary.

13303-69

ANOTHER SPECIES OF LITHOCOLLETIS IS SPREAD OVER ITALIAN FRUIT ORCHARDS. (IT)

M Ciampolini

Giornate Fitopatol 627-630

26 Mar 1967 SB599.G5

Apantles, Biological control (insects), Fruit culture, Gracillariidae, Insect identification, Insect pests, Lithocolletis blancardella, Lithocolletis pomonella, Parasitism.

13304-69

GRAVE DAMAGE TO GREENHOUSE TOMATOES BY LIRIOMYZA-SOLANI MACQUART. (IT)

M Ciampolini

Giornate Fitopatol 621-622

26 Mar 1967 SB599.G5

Chemical control (insects), Dimethoate, Greenhouse culture, Insect pests, Liriomyza solani, Parathion, Tomatoes.

13305-69

SIDEDRESS APPLICATIONS OF UNION CARBIDE UC-21149 FOR CONTROL OF OVERWINTERED BOLL WEEVILS.

J R Coppedge D A Lindquist R L Ridgway C B

Cowan L A Bariola

J Econ Entomol 62(3):558-565 REF

16 Jun 1969 421 J822

Aldicarb, Anthonomus grandis, Chemical control (insects), Cotton, Insect behavior, Insect pests, Pesticide application, Soil sanitation.

13306-69

DISTRIBUTION AND IMPORTANCE OF HETEROLACCUS GRANDIS AS A PARASITE OF THE BOLL WEEVIL.

W H Cross H C Mitchell

Entomol Soc Amer Ann 62(1):235-236 MAP

15 Jan 1969 420 EN82

Anthonomus grandis, Biological control (insects), Cotton, Curculionidae, Hampea, Heterolaccus grandis, Heterolaccus hunteri, Insect ecology, Insect pests, Parasitic insects, Pteromalidae, Urosigalphus schwarzi, Zoogeography.

13307-69

A CONTRIBUTION TO THE STUDY OF CICALIA (CICADETTA MONTANA SCOP.) AS PEST OF RASPBERRIES (RUBUS IDAEUS L.) IN THE REGIONS OF VALJEVO AND CACAK. (SE)

K Dobrovojevic

Zastita Bilja 18(93-95):261-267

1967 464.8 Z1

Apples, Cicadetta montana, Cicadidae, Insect biology, Insect control, Insect pests, Plant injuries, Raspberries. English summary.

13308-69

ANCYLIS COMPTANA, A NEW TORTIX MOTH ON STRAWBERRIES.

P I Garbaro

Horticultural Abs 38(3):693

Sep 1968 241 IM74

Ancylis comptana fragariae, Insect pests, Plant protection, Strawberries.

13309-69

THE ROLE OF PARASITES IN DECREASE OF NUMBERS OF PISSODES PICEAE (CURCULIONIDAE). (RUS0)

T M Gurjanova

Zool Zhur 48(4):538-549

Apr 1969 410 R29

Cureulionidae, Forest insects, Hymenoptera, Insect ecology, Larvae, Natural control (insects), Pupae. English abstract.

13310-69

PERFORMANCE OF APHIS FABAE AND BREVICORYNE BRASSICAE ON PLANTS TREATED WITH GROWTH REGULATORS.

C H B Honeyborne

J Sci Food Agr 20(7):388-390 REF

Jul 1969 382 SO12

Aphis fabae, Beans, Brevicoryne brassicae, Chloroethyltrimethylammonium chloride, (2-, Fertility, Plant growth regulator, Plant pest resistance.

13311-69

SAN JOSE SCALE (QUADRASPIDIOTUS PERNICIOSUS).

E L Jones

Horticultural Abs 38(3):693

Sep 1964 241 IM74

Apples, Aspidiotus perniciosus, Insect pests, Peaches.

13312-69

THE FIGHT AGAINST SYNANTHROPIC FLIES. (RUS)

V Lavchiev

Priroda (Sofia) (3,MAY-JUN):58-61

Jun 1969 410 P934

Calliphoridae, Diptera, Insect control.

13313-69

INVESTIGATIONS ON THE CONTROL OF PASTURE COCKCHAFERS, APHODIUS PSEUDOTASMANIAE, GIVEN IN TASMANIA.

E J Martyn

Tasmanian J Agr 39(1):21-26

Feb 1968 23 T182T

Aphodius pseudotasmaniae, Azinphosmethyl, Carbamates, Carbaryl, Chemical control (insects), Chlorinated hydrocarbons, Dimethyl S-phthalimidomethyl phosphorodithioate, O,O-, Insect pests, Insecticides, Organophosphorus compounds, Pastures, Scarabaeidae.

Because of uncertainty as to the wisdom of future use of chlorinated hydrocarbons, other insecticides were tested for use in controlling Aphodius pseudotasmaniae. For several reasons, carbaryl was judged most useful of the insecticides tested.

13314-69

THE EFFECTS OF SYNERGIZED PYRETHRINS AND LINDANE ON PRE-EMERGENCE MORTALITY OF ACANTHOSCELIDAE OBTECTUS (SAY.) (COLEOPTERA: BRUCHIDAE).

J A McFarlane

J Stored Prod Res 5(2):177-180

Aug 1969 421 J829

Acanthoscelidae obtectus, Chemical control (insects), Chlorinated hydrocarbons, Insect control, Lindane, Mortality, Preemergence, Pyrethrum, Synergists.

13315-69

FIELD CONTROL OF THE NANTUCKET PINE TIP MOTH BY THE NEMATODE DD-136.

R F Nash R C Fox

J Econ Entomol 62(3):660-663 REF

16 Jun 1969 421 J822

Biological control (insects), Chemicals, Nematodes, Neoplectana, Pinus taeda, Rhyacionia frustrana, Spraying. Chemical adjuvants to prevent dessication of Neoplectana in sprays were tested.

13316-69

DISPERSAL OF BRYOBIA SPP. AND TYPHLODROMUS MCGREGORI CHANT WITHIN APPLE TREES IN CENTRAL UTAH.

E E Nelson C D Jorgensen

Utah Acad Sci Arts Lett Proc 45(1):168-181 REF

1968 500 UT1

Bryobia, Mites, Orchards, Surveys, Typhlodromus.

13317-69

BIOLOGICAL METHODS ARE EFFECTIVE AND HYGIENIC.

M Nikoi Kaya

Kurukshetra 16(11):13

Aug 1968 281.28 K96

Biological control (insects), Hygiene, Insect pests, Plant pest control, Plant protection.

13318-69

THE EFFECTS OF OIL TREATMENTS ON EGG HATCHING IN THE BUFFALO TREE HOPPER, STICTOCEPHALA BUBALUS (F.) (HOMOPTERA: MEMBRACIDAE), IN THE APPLE ORCHARDS OF SOUTHWEST QUEBEC. (FR00)

R O Paradis

Entomol Soc Quebec Ann 14(1):25-28

Jan 1969 420 EN822

Apples, Insect eggs, Membracidae, Polynema striatiorne, Stictiocephala bubalus. English abstract.

13319-69

PRELIMINARY OBSERVATIONS ON THE ALFALFA WEEVIL HYPERA POSTICA (GYLL.) (COLEOPTERA: CURCULIONIDAE), OF QUEBEC. (FR00)

J P Perron

Entomol Soc Quebec Ann 14(1):18-21 MAP

Jan 1969 420 EN822

Alfalfa, Crop losses, Hypera postica, Insect outbreaks. English abstract.

13320-69

THE GROUND BEETLE ANISODACTYLUS SIGNATUS (COLEOPTERA, CARABIDAE)-- MAIZE PEST IN THE ROSTOV DISTRICT. (RUS)

A V Ponomarenko

Zool Zhur 48(1):143-145

Jan 1969 410 R92

Anisodactylus signatus, Carabidae, Corn, Insect pests, Predaceous insects, Rhizosphere, Roots, Zoogeography.

13321-69

CURRENT PROBLEMS: ERIOPHYIDAE OF CULTIVATED PLANTS. (IT)

P Rota M Ciampolini

Giornate Fitopatol 401-406

26 Mar 1967 SB599.G5

Chemical control (insects), Economic plants, Eriophyidae. Many species of Eriophyidae and many insecticides are discussed.

13322-69

CONTROL OF APHIDS IN SEED POTATO PRODUCTION.

G D Shaw T Passlow

Queensland J Agr Anim Sci 24(3-4,SEP-DEC):309-314

Dec 1967 23 Q37

Aphididae, Chemical control (insects), Chlorinated hydrocarbons, Endosulfan, Insect control, Macrosiphum euphorbiae, Methyl demeton, Myzus persicae, Seed potatoes, Systemic insecticides.

13323-69

REPRODUCTION OF STORED-GRAIN INSECTS ON VARIETIES OF WHEAT, OATS, AND BARLEY.

R N Sinha

Entomol Soc Amer Ann 62(5):1011-1015 REF

15 Sep 1969 420 EN822

Barley, Cryptolestes ferrugineus, Oats, Plant pest resistance, Reproduction, Rhyzopertha dominica, Sitophilus granarius, Tribolium castaneum, Tribolium confusum, Wheat.

13324-69

SOME OBSERVATIONS ON ANTHIX PUTA (GROTE AND ROBINSON) (LEPIDOPTERA: NOCTUIDAE) FOUND ON ASPENS IN THE PROVINCE OF QUEBEC. (FR00)

W A Smirnov

Entomol Soc Quebec Ann 14(1):6-9

Jan 1969 420 EN822

Insect diseases, Insect outbreaks, Noctuidae, Nosema, Phytophagous insects, Populus tremuloides, Zoogeography. English abstract.

13325-69

INTEGRATED CONTROL OF INSECTS.

R F Smith

Agr Sci Rev 7(1):1-5

1969 A31.3 AG893

Beneficial insects, Insect ecology, Insect pests, Integrated control (insects), Pesticides, Plant pest control.

13326-69

WOODPECKER PREDATION ON INSECT BORERS IN LIVING HARDWOODS.

J D Solomon

Entomol Soc Amer Ann 62(5):1214

15 Sep 1969 420 EN822

Birds, Cerambycidae, Hardwoods, Natural control (insects), Wood borers.

13327-69

DISTRIBUTION OF SURATTHA INDENTALLA KEARFOTT ON BUFFALOGRASS.

K A Sorensen H E Thompson

J Econ Entomol 62(3):750-752, MAP

16 Jun 1969 421 J822

Buchloe dactyloides, Golf courses, Grasses, Insect behavior, Insect pests, Lawns, Plant injuries, Turf, Zoogeography.

13328-69

SCALES ON LEMON TREES.

Tasmanian J Agr 39(4):333

Nov 1968 23 T182T

Chemical control (insects), Coccidae, Coecus hesperidum, Insect pests, Lemons, Oil sprays, Saissetia oleae.

Oil sprays effectively controlled black scale (Saissetia oleae) and soft brown scale (Coecus hesperidum) on lemon trees.

13329-69

PLANT RESISTANCE TO APHIDS INDUCED BY CHEMICALS.

H F Van Emden

J Sci Food Agr 20(7):385-387 REF

Jul 1969 382 SO12

Amino acids, Aphididae, Insect pests, Integrated control (insects), Nitrogen, Plant nutrition, Plant physiology, Plant resistance.

13330-69

DISPLACEMENT IN THE RATIO BETWEEN CLYSIA AMBIGUELLA AND POLYCHROISIS BOTRANA VINE MOTH POPULATIONS IN 1965-1966.

E Voigt

Horticultural Abs 38(3):693

Sep 1968 241 IM74

Clysiana ambiguella, Grapes, Insect pests, Insect population, Polychrosis botrana.

13331-69

USE OF GROWTH RETARDANTS ON CHRYSANTHEMUMS: EFFECT ON PEST POPULATIONS.

C R Worthing

J Sci Food Agr 20(7):394-397 REF

Jul 1969 382 SO12

Chrysanthemum, Mortality, Myzus persicae, Population, Succinic acid, 2,2-dimethylhydrazide, Tetranychus urticae.

13332-69

THE BIOLOGY AND CHEMICAL CONTROL OF THE MAIZE BORER, OSTRINIA SALENTIALIS, SNELEN, IN WEST MALAYSIA.

A Yunus H T Hua

Malaysian Agr J 47(1):109-140 REF

Jan 1969 22.5 F312

Benzene hexachloride, Chemical control (insects), Chlorinated hydrocarbons, Corn, Food habits, Hydroxy-N,N-dimethyl-cis-erotonamide dimethyl phosphate, 3-, Insect biology, Insect control, Organophosphorus compounds, Ostrinia.

NEMATODES

13333-69
TAXONOMIC PROBLEMS CONCERNING THE PHYTOPARASITIC NEMATODES.

M W Allen
Annu Rev Phytopathol 5:247-264 REF
1967 464.8 AN72
Plant nematodes, Reviews, Taxonomy.

13334-69
ON THE OCCURRENCE OF LEAF NEMATODES ON WEEDS AND OTHER WILD PLANTS. (GE)

F Burckhardt
Berlin Biol Bundesanst Land-forstwirtschaft Mitt (121):71-75
Feb 1967 410.9 G31M
Aphelenchoides fragariae, Catalogs, Host records, Leaves, Plant nematodes. English abstract

13335-69
NEMATODE CONTROL LIFTS GINGER YIELDS.

R C Colbran
Queensland Agr J 94(10):603-605
Oct 1968 23 Q33
Crop yields, Meloidogyne incognita, Meloidogyne javanica, Plant nematodes, Plant pest control, Soil fumigation, Zingiber officinale.

13336-69
STUDIES OF PLANT AND SOIL NEMATODES. 13. TYLENCHULUS CLAVICAUDATUS N. SP. (NEMATODA: TYLENCHULIDAE), A PARASITE OF THE LIANA DEERINGIA ARBORESCENS (R. BR.) DRUCE.

R C Colbran
Queensland J Agr Anim Sci 23(3):423-426
Sep 1966 23 Q37
Nematode morphology, Plant nematodes, Taxonomy, Tylenchulus.

13337-69
NEMATODE PROBLEMS IN AREAS OF STRAWBERRY CULTIVATION IN HESSEN-NASSAU. (GE)

R Dern
Berlin Biol Bundesanst Land-forstwirtschaft Mitt (121):76-81 MAP
Feb 1967 410.9 G31M
Aphelenchoides fragariae, Chemical control (nematodes), Ditylenchus dipsaci, Longidorus elongatus, Plant nematodes, Strawberries, Xiphinema diversicaudatum, Zoogeography. English abstract

13338-69
NEW POSSIBILITIES FOR THE CONTROL OF PARASITIC PLANT NEMATODES WITH FENSOFOTHION. (GE)

B Homeyer
Berlin Biol Bundesanst Land-forstwirtschaft Mitt (121):50-57 REF
Feb 1967 410.9 G31M
Chemical control (nematodes), Diethyl O-p-(methylsulfanylphenyl) phosphorothioate, O, Ditylenchus dipsaci, Pesticide residual activity, Plant nematodes, Sugar beets. English abstract

13339-69
EFFECT OF NEMATOCIDES ON NEMATODE-TRAPPING FUNGI ASSOCIATED WITH THE CITRUS NEMATODE.

R Mankau
Plant Dis Rep 52(11):851-855
Nov 1968 1.9 P69P
Chloro-2,3-dibromopropane, 1-, Citrus, Culture media, Dichloropropane dichloropropene mixture, Ethylene dibromide, Nematocides, Soils.

13340-69
THE SOYBEAN CYST NEMATODE IN FLORIDA.

V G Perry R S Mullin G C Smart
Soil Crop Sci Soc Fla Proc 27:1-4
1967 56.9 S032

Crop rotation, Crop varieties, Heterodera glycines, Nematocides, Plant nematodes, Plant pest control, Plant pest resistance, Soybeans.

13341-69
PREPLANT SOIL FUMIGATION FOR CALIFORNIA HEAD LETTUCE.

J D Radewald P G Mowbray A O Ulus F Ibuya J M Ribbe
Plant Dis Rep 53(5):385-389
May 1969 1.9 P69P

Chemical control (nematodes), Dichloropropane, 1,3-, Lettuce, Meloidogyne hapla, Plant nematodes, Soil fumigation, Trichodorus, Tylenchorhynchus clarus.

13342-69
CHEMICAL CONTROL OF STEM NEMATODES IN RED CLOVER. (GE)

F Wagner
Berlin Biol Bundesanst Land-forstwirtschaft Mitt (121):58-61
Feb 1967 410.9 G31M
Chemical control (nematodes), Crop rotation, Diethyl O-p-(methylsulfanylphenyl) phosphorothioate, O, Ditylenchus dipsaci, Persian clover, Plant nematode resistance, Red clover. English abstract

13343-69
TESTS ON THE CONTROL OF NEMATODES OF THE GENUS MELOIDOGYNE ON TOBACCO. (IT)

N Zambelli A De Leonardi A Kovacs
Giornale Fitopatol 425-435
26 Mar 1967 SB599.G5
Chemical control (nematodes), Dichloropropane dichloropropene mixture, Diethyl O-2-pyrazinyl phosphorothioate, O,O-, Dimethyl S-benzenesulfonyl phosphorodithioate, O,O-, Meloidogyne, Plant nematodes, Tables (data), Temik, Temik, Tobacco.

WEEDS

13344-69
DEGRADATION OF 2,4,5-TRICHLOROPHOENOXYACETIC ACID IN WOODY PLANTS.

C H Fitzgerald C L Brown E G Beck
Plant Physiol 42(3):459-460
Mar 1967 450 P692
Chemical analysis, Chromatography, Degradation, Herbicides, Phenoxo acid compounds, Trichlorophenoxyacetic acid, 2,4,5-.

13345-69
CHEMICAL WEED CONTROL IN WHEAT: COMPARISON AMONG VARIOUS TIME PERIODS OF APPLICATION AND AMONG OLD AND NEW HERBICIDES. (IT)

S Foschi G Rapparini
Giornale Fitopatol 483-492
26 Mar 1967 SB599.G5
Chemical control (weeds), D, 2,4-, Dinitrobutylphenol, Dinitroresol, Herbicide application, Herbicides, Ioxynil, Tables (data), Wheat. Other less effective herbicides were tested.

13346-69
HERBICIDES FOR NEWLY PLANTED STRAWBERRIES.

H M Hughes
Exp Hort (18):77-82
1968 80 EX7
Chemical control (weeds), Chloroxuron, Crop yields, Herbicides, Simazine, Strawberries, Weed control.

13347-69
RECOMMENDATIONS FOR WEED CONTROL IN CEREAL CROPS.

B H Hyde-Wyatt
Tasmanian J Agr 39(3):245-250
Aug 1968 23 T182T

Catalogs, Chemical control (weeds), D, 2,4-, Grain, Herbicide application, Methodology, Methyl-4-chlorophenoxyacetic acid, 2-, Phenoxo acid compounds, Spraying.

The appropriate herbicides to use in controlling weeds in cereal crops are discussed, with particular emphasis on correct timing and dosage.

13348-69
COTTON THISTLE.

B H Hyde-Wyatt
Tasmanian J Agr 39(1):43-46
Feb 1968 23 T182T
Amitrole, Chemical control (weeds), Dicamba, Diquat, Onopordum acanthium, Plant geography, Surface-active agents, Weed control.

Diquat, amitrole and dicamba were tested for the control of cotton thistle (Onopordum acanthium) in Tasmania. Diquat with the surfactant, Agral 60, was more effective than the other chemicals tested.

13349-69
LIFE EXPECTANCY OF A SAGEBRUSH CONTROL IN CENTRAL WYOMING.

W M Johnson
J Range Manage 22(3):177-182
May 1969 60.18 J82
Artemisia tridentata, Brush control, Grasses, Herbicides, Ranges, Spraying.

13350-69
WILD OATS.

Great Brit Min Agr Fish Food Adv Leaflet (452):8P
1968 10 G79LA
Avena fatua, Avena ludovicina, Barban, Chemical control (weeds), Cultural control (weeds), Diallate, Ditylenchus dipsaci, Herbicides, Heterodera avenae, Isopropyl N-phenylcarbamate, Paraquat, Plant nematodes, Seeds, Triallate, Trichloroacetic acid.

13351-69
CROP-WEED COMPETITION FOR PHOSPHATE NUTRITION.

K C Misra H N Pandey K L Mukherjee
Trop Ecol 9(2):243-250 REF
Dec 1968 451 IN85
Crops, Phosphates, Plant ecology, Plant nutrition, Weeds.

13352-69
SELECTIVITY OF 2,3,5-TRICHLORO-4-PYRIDINOL AS A HERBICIDE FOR DIRECT-SEEDED, FLOODED RICE.

J C Moomaw D S Kim
Weed Res 8(3):163-169
Sep 1968 79.8 W412
Biochemistry, Chemical control (weeds), Echinochloa crus-galli, Herbicide application, Herbicides, Plant physiology, Pyriclor, Rice, Seed germination. French and German summaries.

13353-69
THE CLASSIFICATION OF AGROPYRON REPENS FLORETS AND CARYOPSES.

M Olesen
Int Seed Testing Ass Proc 33(2):248-251
10 Jul 1967 61.9 IN84P
Agropyron repens, Seed analysis, Seeds, Weeds.

13354-69
BIOCHEMICAL ASPECTS OF PARASITISM BY THE ANGIOSPERM PARASITES. I. PHOSPHATE FRACTIONS IN THE LEAVES OF LORANTHUS AND HOSTS.

S Prakash P S Krishnam K K Tewari
Plant Physiol 42(3):347-351 REF
Mar 1967 450 P692
Deoxyribonucleic acid, Loranthus, Parasitic plants, Phosphates, Phospholipids, Phosphoproteins, Plant biochemistry, Ribonucleic acid.

13355-69
ON THE USE OF HERBICIDES IN VIETNAM; A STATEMENT BY THE BOARD OF DIRECTORS OF THE AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE.

D K Price et al.

CROP PROTECTION

13356-69

Science 161(3838):253-255

19 Jul 1968 470 SC12

Brush control, Chemical control (weeds), Herbicides, Plant biochemistry. Includes three supplementary statements.

13356-69

PRINCIPLES OF WEED CONTROL. I.

J E Rawson

Queensland Agr J 94(10):596-602

Oct 1968 23 Q33

Weed control.

13357-69

THE CHANGING POPULATION OF VIABLE WEED SEEDS IN AN ARABLE SOIL.

H A Roberts

Weed Res 8(3):253-256

Sep 1968 79.8 W412

Biochemistry, Chemical control (weeds), Crop rotation, Crop yields, Plant physiology, Population, Seedlings, Soils, Tillage, Vegetables, Weeds.

13358-69

WEED COMPETITION IN RICE.

R J Smith

Weed Sci 16(2):252-255 REF

Apr 1968 79.8 W41

Aeschynomene virginica, Competition, Crop yields, Echinochloa crusgalli, Heteranthera, Rice, Sesbania exaltata, Weeds.

13359-69

EFFECT OF SIMAZINE ON NITRATE REDUCTASE ACTIVITY IN CORN.

J A Tweedy S K Ries

Plant Physiol 42(2):280-282 REF

Feb 1967 450 P692

Corn, Herbicides, Nitrate reductase, Plant biochemistry, Simazine.

13360-69

WEED CONTROL IN UPLAND RICE AT THE UNIVERSITY OF THE PHILIPPINES COLLEGE OF AGRICULTURE.

M R Vega J D Ona E C Paller

Philippine Agr 51(5):397-411

Oct 1967 25 P542

Azido-4-(tert-butylamino)-6-(ethylamino)-s-triazine, 2-, Chemical control (weeds), Chloro-tolyl)oxy)-N-methoxyacetamide, 2((4-, Crop yields, Cultural control (weeds), D, 2,4-, Dimethyl tetrachlorothiophthalate, O,S-, Herbicides, Methyl-2,3,5,6-tetrachloro-N-methoxy-N-methyl-tetraphthalama t, Methylsulfonyl)-2,6-dinitro-N,N-dipropylamine, 4-(, Plant physiology, Rice, Spraying, Trifluralin.

13361-69

WEEDS AS A FACTOR DEPRESSING FOREST GROWTH.

S A Wilde B A Shaw A W Fedkenheuer

Weed Res 8(3):196-204 REF

Sep 1968 79.8 W412

Absorption, Crop yields, Forest conservation, Forests, Pinus resinosa, Soils, Water, Weeds. French and German summaries

13362-69

HOW YOU CAN CONTROL WEEDS IN RAPESEED.

D Wreford

Good Farming 19(2):48-49

Mar 1968 7 G59

Avena fatua, Barban, Chemical control (weeds), D, 2,4-, Dalapon, Diallate, Herbicides, Methyl-4-chlorophenoxyacetic acid, 2-, Millet, Phenoxy acid compounds, Plant regulators, Rapeseed, Spraying equipment, Triallate, Trichloroacetic acid.

13363-69

WHEATGRASS ESTABLISHMENT WITH TILLAGE AND HERBICIDES IN A MEDUSAHEAD COMMUNITY.

J A Young R A Evans R E Eckert

J Range Manage 22(3):151-155 REF

May 1969 60.18 J82

BIBLIOGRAPHY

Agropyron, Atrazine, Chlorinated hydrocarbons, Dalapon, Elymus caput-medusae, Grasses, Herbicides, Tillage, Weed control.

OTHER PESTS

13364-69

ECOLOGICAL RELATIONSHIPS OF PLANT COMMUNITIES AND ECTOPARASITES OF RODENTS IN THE GREAT SALT LAKE DESERT.

D E Johnson D D Parker E D Vest

Utah Acad Sci Arts Lett Proc 45(1):130-147

1968 500 UT1

Parasitic insects, Plant ecology, Rodents, Surveys.

13365-69

THE RABBIT.

Great Brit Min Agr Fish Food Adv Leaf (534):1-8

Dec 1966 10 G79LA

Biology, Crop losses, Hydrocyanic acid, Myxomatosis, Pest control, Rabbits, Traps.

The life cycle of rabbits, their destructive nature and control are discussed. Gassing with hydrogen cyanide, trapping, hunting with dogs and guns, ferreting, snaring, netting, dazzling with spot lights, fencing and repellents are recommended as means of control.

LIVESTOCK PROTECTION

13366-69

COUPLING OF ANAEROBIC METABOLISM TO ANAEROBIC SODIUM TRANSPORT: A HIGH ENERGY INTERMEDIATE.

S Klahr J Bourgoignie N S Bricker

Nature 218(5143):769-770 REF

25 May 1969 472 N21

Adenosine triphosphatase, Adenosine triphosphates, Animal physiology, Biochemistry, Bladder, Dinitrophenol, 2,4-, Metabolism, Sodium, Turtles.

DISEASES

13367-69

EFFECT OF DEXTROSE IN MEDIUM FOR THE PREPARATION OF MYCOPLASMA GAL-LEISEPTICUM PLATE ANTIGENS.

H E Adler A J DaMassa

Appl Microbiol 16(4):558-562

Apr 1968 448.3 AP5

Antigens, Culture media, Glucose, Mycoplasma gallisepticum.

13368-69

D.P.I. TICK FEVER VACCINE FOR RELIABILITY.

Anonymous

Queensland Agr J 94(10):618-622

Oct 1968 23 Q33

Babesia argentina, Cattle, Crop losses, Insect vectors, Ixodides, Livestock diseases, Piroplasmosis, Vaccines.

13369-69

HISTOCHEMICAL ANALYSIS OF ALKALINE PHOSPHATASE IN THE LIVER OF GOATS INFECTED WITH FOOT-AND-MOUTH DISEASE VIRUS.

R C Bhalla G L Sharma

Indian J Vet Sci Anim Husb 37(1):32-38

Mar 1967 41.8 IN22

Alkaline phosphatase, Foot-and-mouth disease virus, Goats, Histochemistry, Histopathology, Liver, Livestock diseases.

13370-69

OEDEMA DISEASE IN PIGS.

J Cerny

Tasmanian J Agr 39(2):138-139

May 1968 23 T182T

Antibiotics, Edema, Escherichia coli, Feed additives, Infectious diseases, Livestock diseases, Preventive medicine, Swine, Veterinary medicine.

Edema in pigs, caused by Escherichia coli bacteria is described and although there is no effective treatment, preventative measures with antibiotics are discussed.

13371-69

A HERPES VIRUS INFECTION OF PIGEONS.

H J C Cornwell A R Weir E A C Follett

Vet Rec 81(11):267-268

09 Sep 1967 41.8 V641

Herpesviruses, Infectious diseases, Pigeons.

13372-69

CONTRIBUTION TO THE KNOWLEDGE OF PRIMITIVE TUMORS OF THE HEART IN DOMESTIC ANIMALS: GLOBOMYELOMA IN A COW. (IT)

S Damiano A Zacchi

Acta Med Vet 13(5/6,SEP-DEC):335-347

1967 41.8 AC84

Cattle, Heart, Livestock diseases, Lungs, Lymph nodes, Metastasis, Neoplasms, Round cell sarcoma, Uterus. English and French summaries.

13373-69

BOVINE LEPTOSPIRA POMONA INFECTION: ENVIRONMENTAL CONTAMINATION AND THE SPREAD OF THE DISEASE IN A SUSCEPTIBLE HERD.

P C Doherty

Queensland J Agr Anim Sci 24(3-4,SEP-DEC):329-341 REF

Dec 1967 23 Q37

Cattle, Environment, Epizootic diseases, Infectious diseases, Leptospira pomona, Livestock diseases.

13374-69

PARTIAL PURIFICATION OF THE ORGANISM OF PSITTACOSIS GROWN IN CHICKEN EMBRYO YOLK SAC.

W G Dorsey W N Shircy W C Patrick

Appl Microbiol 16(1):166-167

Jan 1968 448.3 AP5

Chickens, Extraction, Miyagawanella group viruses, Psittacosis, Tissue culture.

13375-69

MYCOTOXICOSIS: TOXICITY TO CHICKS OF ALTERNARIA LONGIPES ISOLATED FROM TOBACCO.

B Doupnik E K Sobers

Appl Microbiol 16(10):1596-1597

Oct 1968 448.3 AP5

Alternaria, Chickens, Mycotoxicosis, Tobacco, Toxicology.

13376-69

LABORATORY BATCH PRODUCTION OF BACILLUS THURINGIENSIS SPORES AND CRYSTALS.

N R Dubois

Appl Microbiol 16(7):1098-1099

Jul 1968 448.3 AP5

Bacillus thuringiensis, Culture media, Insect diseases.

13377-69

STUDIES ON THE ANEMIOGENIC PROPERTIES OF TRIMETHYLAMINE OXIDE, AN ETIOLOGICAL FACTOR IN FISH-INDUCED ANEMIA IN MINK.

F Ender A Helgebostad

Acta Vet Scand 9(2):J74-176

1968 41.8 AC87

Anemia, Dosage, Drug therapy, Fish, Hematologic diseases, Iron, Minks, Oxides, Trimethylamine.

13378-69

STRAIN MC29 AVIAN LEUKOSIS VIRUS: IMMUNOLOGIC RELATIONSHIPS TO OTHER AVIAN TUMOR VIRUSES.

R B Fritz A J Langlois D Beard J W Beard

J Immunol 101(6):1199-1206, REF

Dec 1968 448.8 J8232

Avian leukosis complex viruses, Chick embryos, Immunity, Neoplasms, Viruses.

13379-69

ANTIRABIES VACCINES INACTIVATED BY BETA-PROIOLACTONE PREPARED FROM NEW-BORN KID AND MOUSE BRAINS. (FR00)
J Gledele B Mered P Sureau

Inst Pasteur Algerie Arch 46:76-89 REF
1968 448.3 IN7A

Brain, Goats, Lyophilization, Methodology, Rabies vaccines, Sheep. English abstract.

13380-69

KALE ANAEMIA IN RUMINANTS. II. OBSERVATIONS ON KALEFED SHEEP.

C A Grant P Holtenius G Jonsson J Luthman C B Thorell

Acta Vet Scand 9(2):141-150
1968 41.8 AC87

Anemia, Feeding, Hematologic diseases, Kale, Lambs, Livestock diseases, Ruminants, Sheep, German and Swedish summaries.

13381-69

ENHANCED RECOVERY OF SALMONELLA MONTEVIDEO FROM ONION POWDER BY THE ADDITION OF POTASSIUM SULFITE TO LACTOSE BROTH.

J R Hall
Ass Offic Anal Chem J 52(5):940-942
Sep 1969 381 AS7

Biological assay, Lactose, Methodology, Onions, Potassium, Salmonella montevideo, Sulfites.

13382-69

RAPID TRANSFORMATION OF CELLS BY ROUS SARCOMA VIRUS.

H Hanafusa
Nat Acad Sci Proc 63(2):318-325 REF
Jun 1969 500 N21P

Biochemistry, Chick embryos, Morphology, Rous sarcoma virus, Tissue culture, Virus diseases (animals).

13383-69

SURVIVAL OF SPOROZOITES OF LEUCOCYTOZON IN BIRDS FOR ELEVEN DAYS.

R A Khan S S Desser A M Fallis
Can J Zool 47(3):347-350 REF
May 1969 470 C16D

Birds, Ducks, Leucocytozoon dubreuilii, Leucocytozoon simondi, Liver.

13384-69

DOG VACCINATION IN THE CONTROL OF RABIES. (FR00)

P Lepine J Levaditi P Atanasiu J C Guillon A Gamet

Inst Pasteur Algerie Arch 46:151-156
1968 448.3 IN7A

Dogs, Immunization, Rabies vaccines, Virus diseases (animals). English abstract.

13385-69

DIBUTYL TIN DILAUATE. DRUGS FOR VETERINARY USE, DRUG EFFICACY STUDY IMPLEMENTATION.

H L Ley
Fed Regist 34(73):6625
17 Apr 1969 LI.451

Agricultural legislation, Coccidiosis, Dibutyltin dilaurate, Drug therapy, Drugs, Hexamitiasis, Poultry diseases, Regulations, Turkeys.

13386-69

CHLORHEXIDINE DIHYDROCHLORIDE. DRUGS FOR VETERINARY USE, DRUG EFFICACY STUDY IMPLEMENTATION.

H L Ley
Fed Regist 34(71):6493-6494
15 Apr 1969 LI.451

Agricultural legislation, Animal diseases, Bacteria, Cattle, Chlorhexidine, Drug therapy, Drugs, Horses, Infectious diseases, Metritis, Regulations, Vaginitis.

13387-69

AMPHETAMINE SULFATE. DRUGS FOR VETERINARY USE, DRUG EFFICACY STUDY IMPLEMENTATION.

H L Ley
Fed Regist 34(71):6493
15 Apr 1969 LI.451

Agricultural legislation, Amphetamine sulfate, Cattle, Dosage, Drug therapy, Drugs, Horses, Regulations, Veterinary medicine.

13388-69

FURASPOR LIQUID VETERINARY. DRUGS FOR VETERINARY USE, DRUG EFFICACY STUDY IMPLEMENTATION.

H L Ley
Fed Regist 34(73):6625
17 Apr 1969 LI.451

Agricultural legislation, Animal diseases, Animals, Bacteria, Dermatitis, Dogs, Drug therapy, Drugs, Infectious diseases, Labeling, Methoxymethyl-5-nitrofurantoin, Regulations, Veterinary medicine.

13389-69

HISTOSTAT. DRUGS FOR VETERINARY USE; DRUG EFFICACY STUDY IMPLEMENTATION.

H L Ley
Fed Regist 34(7):6494
15 Apr 1969 LI.451

Agricultural legislation, Blackhead, Chickens, Dosage, Drug therapy, Drugs, Nitrophenylarsonic acid, 4-, Regulations, Turkeys, Veterinary medicine.

13390-69

ALKALINE PHOSPHATASE CHANGES IN CHICKEN TISSUES DURING NEWCASTLE DISEASE VIRUS INFECTION.

G Lust R L Squibb
Appl Microbiol 15(3):677
May 1967 448.3 AP5

Alkaline phosphatase, Biochemistry, Chickens, Newcastle disease virus, Tissue culture.

13391-69

USE OF DISK ELECTROPHORESIS FOR INVESTIGATION OF PROTECTIVE ANTIGEN OF BACILLUS ANTHRACIS ISOLATED BY THE METHOD OF ACID PRECIPITATION. (RUSO)

S N Maevskaya Yu V Ezepechuk
Biokhimiya 34(3):496-499
1969 385 B523

Antigens, Bacillus anthracis, Chemical analysis, Electrophoresis, Polysaccharides, Proteins.

13392-69

MORPHOLOGICAL OBSERVATIONS ON FASCIOLA GIGANTICA COBBOLD, 1855, WITH REMARKS ON THE VALIDITY OF FASCIOLA INDICA VARMA, 1953.

H C Malviya
Indian J Vet Sci Anim Husb 37(2):67-77 REF
Jun 1967 41.8 IN22

Fasciola gigantica, Morphology, Taxonomy, Trematoda.

13393-69

STUDIES ON THE MECHANISM OF ACTION OF THE SEMPLE ANTIRABIC VACCINE PRODUCED BY THE STATE VACCINE AND SERUM INSTITUTE, WARSAW.

J Oyrzanowska-Poplenska
Acta Microbiol Polon 16(2):127-136 REF
1967 448.3 AC82

Fluorescent antibody technic, Immunofluorescence, Rabies, Rats, Vaccines.

13394-69

ON GIANT EIMERIAN SCHIZONTS FROM TWO CASES OF COCCIDIOSIS IN KID.

B P Pande B B Bhatia P P S Chauhan P Kala
Indian J Vet Sci Anim Husb 37(1):58-65
Mar 1967 41.8 IN22

Coccidiosis, Eimeria, Goats, Livestock diseases, Microorganisms, Sporozoa.

13395-69

SALMONELLOSES IN AN ALGERIAN PEDIATRIC SERVICE. (FR00)

F Papa B Khati A Bouguermouh E Rocha L Sari
Inst Pasteur Algerie Arch 46:121-132 REF
1968 448.3 IN7A

Diagnosis, Human diseases, Salmonellosis. English abstract.

13396-69

THE OCCURRENCE OF COXIELLA BURNETII IN NORTH-WESTERN ENGLAND AND NORTH WALES. A REPORT FROM FIVE LABORATORIES OF THE PUBLIC HEALTH LABORATORY SERVICE.

J H Pennington P M Poole A J K Smith K L Thomas R V Noble
J Hyg 67(1):125-133 MAP REF
Mar 1969 449.8 J82

Antibodies, Cattle, Coxiella burnetii, Milk analysis, Rickettsial diseases, Serological tests, Surveys.

13397-69

CHEMICALLY CHARACTERIZED MEDIA FOR STUDY OF FOOT-AND-MOUTH DISEASE VIRUS IN BABY HAMSTER KIDNEY CELLS.

J Polatnick
Appl Microbiol 15(2):228-232
Mar 1967 448.3 AP5

Culture media, Foot-and-mouth disease virus, Hamsters, Kidneys, Tissue culture.

13398-69

APPLICATION OF T.K.T. MEDIUM FOR SCREENING BULK MILK SAMPLES FOR STREPTOCOCCUS AGALACTIAE.

D S Postle
U S Livestock Sanit Ass Proc 70:181-186
10 Oct 1966 49.9 UN3R

Crystal violet, Culture media, Dairy cattle, Livestock diseases, Mastitis, Milk, Milk analysis, Streptococcus agalactiae, Thallium sulfate, Toxins.

13399-69

THE GROWTH OF CANDIDA ALBICANS AND SALMONELLA TYPHIMURIUM IN MIXED CULTURES.

C Ramirez J P Ransom
Microbiol Espan 21(1-2):77-88 REF
1968 448.3 M583

Animal diseases, Bacteriology, Candida albicans, Culture media, Infectious diseases, Microorganisms, Salmonella typhimurium. English abstract

13400-69

TRYPANOSOMA GAMBIESE, T. RHODESIENSE, T. BRUCEI, T. EQUIPERDUM, AND T. LEWISII PURIFICATION AND PROPERTIES OF PHOSPHOHEXOSE ISOMERASES.

E L Risby T M Seed J R Seed
Exp Parasitol 25(1):101-106 REF
Aug 1969 436.8 EX7

Biochemistry, Chromatography, Enzymes, Isomerases, Metabolism, Serological tests, Trypanosoma.

13401-69

TASMANIAN VET. HELPING TO COMBAT FOOT AND MOUTH OUTBREAK.

Tasmanian J Agr 39(1):46
Feb 1968 23 T182T
Animal diseases, Epidemiology, Foot-and-mouth disease, Veterinary medicine.

13402-69

VIRUSES TRANSMISSIBLE FROM LABORATORY ANIMALS TO MAN.

J O Tobin
Laboratory Anim 2(1):19-28 REF
Apr 1968 QL55.A1L3

Animal vectors, Disease transmission, Herpesvirus simiae, Human diseases, Laboratory animals, Virus diseases (animals).

13403-69

RABIES AND RABIES CONTROL IN WISCONSIN.

D O Trainer

Wis Acad Sci Arts Lett Trans 56:255-261

1968 500 W75

Animal diseases, Rabies, Surveys, Vaccines, Wildlife. Transactions is listed as 1967-68 to conform with year of publications.

ARTHROPODS

13404-69

TRIALS WITH NEGUVON IN THE CONTROL OF HYPODERMA LINEATUM.

R C Chhabra R M Sharma

Indian J Vet Sci Anim Husband 37(4):263-268 REF

Dec 1967 41.8 IN22

Cattle, Chemical control (insects), Drenches, Feed additives, Hypoderma lineatum, Organophosphorus compounds, Systemic insecticides, Trichlorfon.

13405-69

AEDES ATLANTICUS DYAR AND KNAB, FEEDING ON TURTLES.

W J Crans

Mosquito News 28(2):239

Jun 1968 421 M85

Aedes, Arboviruses, Feeding, Host relationships, Insect behavior, Turtles, Vectors.

13406-69

A FEEDING ASSOCIATION BETWEEN HIPPELATES (DIPTERA: CHLOROPIDAE) AND TABANIDAE ON CATTLE: ITS POSSIBLE ROLE IN TRANSMISSION OF ANAPLASMOSIS.

R H Roberts

Mosquito News 28(2):236-237

Jun 1968 421 M85

Anaplasmosis, Cattle, Chloropidae, Epizootic diseases, Feeding, Hippelates, Insect behavior, Insect vectors, Tabanidae.

13407-69

TABANID HOSTS IN ESTUARINE AND ALLUVIAL AREAS OF LOUISIANA.

B H Wilson C G Richardson

Entomol Soc Amer Ann 62(5):1043-1046

15 Sep 1969 420 EN82

Cattle, Deer, Food habits, Horses, Serodiagnosis, Tabanus.

PARASITES

13408-69

USE OF FORMALINIZED MYCOPLASMA GALLISEPTICUM ANTIGENS AND CHICKEN ERYTHROCYTES IN HEMAGGLUTINATION AND HEMAGGLUTINATION-INHIBITION STUDIES.

H E Adler A J Da Massa

Appl Microbiol 15(2):245-248

Mar 1967 448.3 AP5

Erythrocytes, Hemagglutination, Mycoplasma gallisepticum antigens, Serodiagnosis.

13409-69

INHIBITION OF OSTERTAGIA OSTERTAGI AT THE EARLY FOURTH LARVAL STAGE. II. THE INFLUENCE OF ENVIRONMENT ON HOST OR PARASITE.

J Armour F W Jennings G M Urquhart

Res Vet Sci 10(3):238-244 REF

May 1969 41.8 R312

Calves, Nematodes, Ostertagia ostertagi, Physiology.

13410-69

THE ENDOPARASITE BURDEN OF CATTLE IN THE KIMBERLEY REGION OF NORTH-WESTERN AUSTRALIA.

J Armstrong D W Robinson D R Lang

Australian Vet J 45(6):287-289

Jun 1969 41.8 AU72

Cattle, Endoparasites, Nematodiasis, Surveys.

13411-69

WORMS IN PIGS.

B W Bootes

Agr Gaz New S Wales 80(1):15-22

Jan 1969 23 N472

Ascaris lumbricoides suum, Diagnosis, Hyostromylus rubidus, Life cycle, Macracanthorhynchus hirudinaceus, Metastrongylus, Nematode control, Parasitism, Pathogenesis, Stephanurus dentatus, Swine, Trichuris.

13412-69

STUDIES ON THE EFFECTS OF FEEDS DEFICIENT IN TRACE ELEMENTS, VITAMIN A, PROTEIN, CALCIUM AND PHOSPHORUS ON THE NATURAL RESISTANCE OF SHEEP TO COMMON LIVERFLUKE, FASCIOLA GIGANTICA COBBOLD, 1885.

P G Deo K C Tandon V Kumar H D Srivastava

Indian J Vet Sci Anim Husband 37(4):351-359

Dec 1967 41.8 IN22

Animal nutrition, Calcium, Fasciola gigantica, Feeding, Immunity, Livestock diseases, Phosphorus, Proteins, Sheep, Trace element nutrition, Vitamin A.

13413-69

GRAZING MANAGEMENT IN RELATION TO TRICHOSTRONGYLID INFESTATION IN LAMBS. I. INFLUENCE OF STOCKING RATE ON THE LEVEL OF INFESTATION.

N E Downey A Conway

Irish J Agr Res 7(3):343-362 REF

Dec 1968 10.5 IR45

Autopsies, Farm management, Forage plants, Grazing, Lambs, Larvac, Nematode infestation, Nematodirus, Parasitism, Statistical analysis, Trichostrongylus. The author compared the worm count between nematodirus and ostertagia species.

13414-69

INTESTINAL PARASITISM IN SWINE IN THE NORTHERN DEPARTMENT. (FR00)

J P Duec D Cornette G Moine

Rec Med Vet 145(7):691-710

Jul 1969 41.8 R24

Ascaris, Intestines, Nematodes, Strongyloides, Surveys, Swine. English and Spanish abstracts.

13415-69

TAENIA CRASSICEPS: INSULIN AND CARBOHYDRATE METABOLISM IN LARVAL FORMS.

G W Esch

Exp Parasitol 25(1):210-216 REF

Aug 1969 436.8 EX7

Biochemistry, Carbohydrates, Insulin, Larvac, Metabolism, Taenia.

13416-69

THE RESISTANCE OF RHABDITIS SP. AND ANGUINA TRITICI (NEMATODA) TO DRYING AND ACTION OF LOW AND SUPERLOW TEMPERATURES. (RUS0)

T Namatov

Zool Zhur 48(5):658-668 REF

May 1969 410 R92

Anguina tritici, Drying, Longevity, Nematodes, Rhabditis. English abstract.

13417-69

GEL FILTRATION AND DISC ELECTROPHORESIS OF A SOMATIC EXTRACT AND EXCRETIONS AND SECRETIONS OF HAEMONCHUS CONTORTUS LARVAE.

J T McL Neilson

Exp Parasitol 25(1):131-141 REF

Aug 1969 436.8 EX7

Antigens, Biochemistry, Electrophoresis, Excretion, Extracts, Haemonchus contortus, Larvae, Secretions.

13418-69

APPLICATION OF LUMINESCENT MICROSCOPY FOR THE IMMEDIATE DISCOVERY OF BLOOD-PARASITES OF DOMESTIC AND WILD ANIMALS. (RUS)

G H Shahmatov

Akad Nauk Tadzh Ssr Dokl 11(9):63-65

1968 511 AK193D

Animals, Blood parasites, Diagnosis, Livestock, Microbiology, Microorganisms, Microscopy, Wildlife.

13419-69

HYDATID DISEASE--DOG TESTING RESULTS TO 30TH NOVEMBER, 1967.

Tasmanian J Agr 39(1):57-58

Feb 1968 23 T182T

Dogs, Echinococcosis, Epidemiology, Surveys.

13420-69

DISTRIBUTION AND FATE OF C14-HEXACHLOROPHENE IN LIVER FLUKES (FASCIOLA HEPATICA L.).

W Thorsell L E Appelgren

Helminthologia 9(1-4):551-557 REF

1968 436.8 H36

Biochemistry, Carbon-14, Chromatography, Electrophoresis, Fasciola hepatica, Methylenebis(3,4,6-trichlorophenol), 2,2', Pesticides, Physiology. Russian and German abstract.

13421-69

DEVELOPMENTS IN CONTROL OF ECOTOPARASITES OF LIVESTOCK.

J C Wood

Chem Indus 41:1731-1736

14 Oct 1967 382 M31C

Bovicola ovis, Carbamates, Chlorinated hydrocarbons, Insecticides, Ixodids, Livestock, Maggots, Mange, Melophagus ovinus, Organophosphorus compounds, Parasitic insects, Psoroptes communis.

COMMODITY PROTECTION

13422-69

REPORT ON MYCOTOXINS.

A D Campbell

Ass Offic Anal Chem J 51(2):290-293 REF

Mar 1968 381 AS7

Aflatoxin, Corn, Cottonseed, Food contamination, Gibberella zeae, Mycotoxins, Toxins.

13423-69

MICROBIAL CONTAMINATION CONTROL FACILITIES.

R S Runkle G B Phillips

New York, Van Nostrand Reinhold 198P, REF

1969 NBS899

Biological laboratories, Infectious diseases, Laboratory animals, Livestock, Microbiology, Veterinary laboratories. Laboratories serving medical, public health, and veterinary professions.

ARTHROPODS

13424-69

ANTS INDOORS.

Great Brit Min Agr Fish Food Adv Leaf (366):1-5

5

Nov 1966 10 G79LA

Baits, Carbon tetrachloride, Chemical control (insects), Chlordane, Chlorinated hydrocarbons, Decachlorooctahydro-1,3,4-metheno-2H-cyclobuta(cd) p, Dieldrin, Formicidae, Insect control, Insect ecology, Insect pests, Insecticide application, Insecticides, Isopropoxyphenyl methylcarbamate, o-, Kerosine, Lasius niger, Life cycle, Lindane, Monomorium pharaonis, Trichlorfon.

Black ants (Lasius niger) and Pharaoh's ants (Monomorium pharaonis), their life cycle and control are discussed. Methods of tracking for nest location, recommended insecticides and application techniques are provided.

13425-69

COCKROACHES.

Great Brit Min Agr Fish Food Adv Leaf (383):1-7

7

Mar 1967 10 G79LA

Blatta orientalis, *Blattella germanica*, Blattidae, Carbamates, Chemical control (insects), Chlorinated hydrocarbons, Dieldrin, Household pests, Hygiene, Industry, Insect biology, Insect morphology, Insect pests, Insecticide application, Insecticide resistant insects, Insecticides, Isopropoxyphenyl N-methylcarbamate, 2-, *Periplaneta americana*.

The biology and distinguishing characteristics of common household and industrial cockroaches are described. Hygienic practices, use of insecticides and various application techniques are recommended control measures.

13426-69 FACTORS INFLUENCING THE TOLERANCES OF SEEDS TO FUMIGANTS.

T D Yadav P Sircar P B Mookherjee
Indian J Entomol 30(3):209-216

Sep 1968 420 IN23

Carbon disulfide, Carbon tetrachloride, Corn, Ethylene dibromide, Ethylene dichloride, Fumigants, Phosphine, Rice, Seed treatment, Stored products, Temperature, Water, Wheat.

RODENTS AND OTHER PESTS

13427-69 GOPHACIDE. LATEST FINDINGS FROM STUDIES OF THIS NEW RODENTICIDE.

V B Richens
Pest Contr 35(9):28,30,58
Sep 1967 449.8 EX8

Baits, Bis(4-chlorophenyl) acetimidoylphosphoramide thioate, O,O-, Gophers, Rodent control, Rodenticides.

MICROBIAL CONTAMINATION

13428-69 GROWTH AND DESTRUCTION OF SALMONELLA TYPHIMURIUM IN EGG WHITE FOAM PRODUCTS COOKED BY MICROWAVES.

R E Baldwin M Cloninger M L Fields
Appl Microbiol 16(12):1929-1934 REF
Dec 1968 448.3 AP5

Eggs, Electromagnetic waves, Food contamination, *Salmonella typhimurium*.

13429-69 SALMONELLAE ASSOCIATED WITH FURTHER-PROCESSED TURKEY PRODUCTS.

F L Bryan J C Ayres A A Kraft
Appl Microbiol 16(1):1-9 REF
Jan 1968 448.3 AP5

Poultry products, *Salmonella*, *Salmonella anatum*, Surveys, Turkeys.

13430-69 SURVIVAL OF AEROBIC AND ANAEROBIC BACTERIA IN CHICKEN HEAT DURING FREEZE-DEHYDRATION, REHYDRATION, AND STORAGE.

J R Chipley K N May
Appl Microbiol 16(3):445-449

Mar 1968 448.3 AP5

Chickens, Clostridium, Freeze drying, Meat packing industry.

13431-69 EPIDEMIOLOGICAL STUDIES ON SALMONELLA SENFTENBERG. I. RELATIONS BETWEEN ANIMAL FOODSTUFF, ANIMAL AND HUMAN ISOLATIONS.

B C Hobbs M E Hugh-Jones
J Hyg 67(1):81-88

Mar 1969 449.8 J82

Animal diseases, Bacteriology, Epidemiology, Feed, Human diseases, Microorganisms, *Salmonella senftenberg*.

13432-69 SALMONELLA SENFTENBERG IN THE SUNDERLAND AREA.

D A Sanford D A Leslie J A McKeon P B Crone B C Hobbs
J Hyg 67(1):75-79

Mar 1969 449.8 J82

Bacteriology, Human diseases, Microorganisms, *Salmonella senftenberg*, Surveys.

13433-69 SIGNIFICANCE OF COLIFORMS AND ENTEROCOCCI IN FISH PRODUCTS.

S Varga G W Anderson
Appl Microbiol 16(2):193-196 REF
Feb 1968 448.3 AP5

Enterobacteriaceae, Fishery products, Sanitation.

RESIDUES

13434-69 STABILITY AND EFFECTS OF SOME PESTICIDES IN SOIL.

R Bartha R P Lanzilotta D Pramer
Appl Microbiol 15(1):67-75 REF
Jan 1967 448.3 AP5

Biochemistry, Carbon dioxide, Degradation, Nitrification, Pesticide residues, Soil microorganisms.

13435-69 STATISTICAL EXAMINATION OF A RAPID METHOD FOR THE DETERMINATION OF CHLORINATED HYDROCARBON RESIDUES IN HUMAN BLOOD.

D P Bonderman U Y Choi H L Hetzler K R Long
Ass Offic Anal Chem J 52(5):1063-1066
Sep 1969 381 AS7

Blood serum, Chemical analysis, Chlorinated hydrocarbons, Chromatography, Dichloro-2,2-bis(p-chlorophenyl) ethylene, 1,1-, Pesticide residues.

13436-69 THE EFFECTS OF DIELDRIN ON DIATOMS.

J Cairns
Mosquito News 28(2):177-179
Jun 1968 421 M85

Algae, Biological assay, Chlorinated hydrocarbons, Dieldrin, Ecology, Insecticide residues, Streams.

A freshwater diatom, *Navicula*, representative of a major group in an ecosystem has been found to tolerate dieldrin in greater concentration than fish of aquatic invertebrates. If the tendency to concentrate, as with DDT, is a general phenomenon for persistent insecticides, streams contaminated with washouts from proximal mosquito control areas could present hazardous situations especially for fish feeding directly upon planktonic algae.

13437-69 CYCLODIENE CHEMISTRY. I. DERIVATIVE FORMATION FOR THE IDENTIFICATION OF HEPTACHLOR, HEPTACHLOR EPOXIDE, CIS-CHLORDANE, TRANS-CHLORDANE, AND ALDRIN PESTICIDE RESIDUES BY GAS CHROMATOGRAPHY.

A S Y Chau W P Cochrane
Ass Offic Anal Chem J 52(5):1092-1100 REF
Sep 1969 381 AS7

Aldrin, Chemical analysis, Chlordane, Chlorinated hydrocarbons, Chromatography, Cycloidiene compounds, Heptachlor, Heptachlor epoxide, Pesticide residues.

13438-69 CYCLODIENE CHEMISTRY. II. IDENTIFICATION OF THE DERIVATIVES EMPLOYED IN THE CONFIRMATION OF HEPTACHLOR, HEPTACHLOR EPOXIDE, CIS-CHLORDANE, AND TRANS-CHLORDANE RESIDUES.

W P Cochrane
Ass Offic Anal Chem J 52(5):1100-1105 REF
Sep 1969 381 AS7

Chemical analysis, Chlordane, Chlorinated hydrocarbons, Chromatography, Cycloidiene compounds, Heptachlor, Heptachlor epoxide, Isomerization, Pesticide residues.

13439-69 INFRARED, ULTRAVIOLET, AND VISIBLE SPECTROPHOTOMETRIC DETERMINATION IMIDAN IN ANIMAL DIPS AND SPRAYS.

F P Czech M D Mack G Evans
Ass Offic Anal Chem J 52(5):1017-1026
Sep 1969 381 AS7

Chemical analysis, Dimethyl S-phthalimidomethyl phosphorodithioate, O,O-, Pesticide residues, Spectrophotometry, Spraying, Ultraviolet rays.

13440-69 ATOMIC ABSORPTION ANALYSIS OF COPPER AND LEAD IN MEAT AND MEAT PRODUCTS.

E F Dalton A J Malanoski
Ass Offic Anal Chem J 52(5):1035-1038
Sep 1969 381 AS7

Absorption spectra, Chemical analysis, Copper, Lead, Meat, Spectrophotometry.

13441-69 DETERMINATION OF 2-NITROPROPANOL RESIDUES IN COTTONSEED.

J M Devine B Fletcher G Zweg
Ass Offic Anal Chem J 52(5):1106-1107
Sep 1969 381 AS7

Chemical analysis, Chromatography, Cottonseed, Nitropropane-1,3-diol derivatives, 2-, Pesticide residues.

13442-69 PESTICIDE QUEST: RESIDUE SURVEYS AND TOLERANCES.

H Egan
Chem Indus 41:1721-1730
14 Oct 1967 382 M31C

Agricultural regulation, Chlorinated hydrocarbons, Food contamination, Organophosphorus compounds, Pesticide residues, Tolerances, Toxicology, World agricultural situation.

13443-69 DETERMINATION OF ETHYLENE CHLOROHYDRIN, ETHYLENE DIBROMIDE AND OTHER VOLATILE FUMIGANT RESIDUES IN FLOUR AND WHOLE WHEAT.

S G Heuser K A Scudamore
Chem Indus 37:1557-1560
16 Sep 1967 382 M31C

Ethylene chlorohydrin, Ethylene dibromide, Flour, Fumigants, Pesticide residues, Wheat.

13444-69 HERBICIDAL RESIDUES KILL GRASS SEEDLINGS.

A C Hull G J Klomp
Utah Acad Sci Arts Lett Proc 45(1):315-316
1968 500 UT1

Grasses, Herbicide residues, Plant injuries, Seedlings.

13445-69 NOTE ON A TWO-DIMENSIONAL THIN LAYER CHROMATOGRAPHIC TECHNIQUE FOR IDENTIFICATION OF PESTICIDE RESIDUES IN TROUBLESOME SAMPLES.

J A Kawatski D L Frasch
Ass Offic Anal Chem J 52(5):1108
Sep 1969 381 AS7

Aldrin, Chlorinated hydrocarbons, Chromatography, Dieldrin, Pesticide residues, TDE.

13446-69 TOLERANCES AND EXEMPTIONS FROM TOLERANCES FOR PESTICIDE CHEMICALS IN OR ON RAW AGRICULTURAL COMMODITIES. 2-CHLORO2',6'-DIETHYL-N-(METHOXYMETHYL) ACETANILIDE.

J K Kirk
Fed Regist 34(70):6419
12 Apr 1969 L1.451

RESIDUES

13447-69

Agricultural legislation, Agricultural products, Chloro-2',6'-adiethyl-N-(methoxymethyl)-acetanilide, 2-, Cotton, Cottonseed, Forage plants, Herbicide residues, Herbicides, Metabolites, Peanuts, Pesticides, Raw materials, Regulations, Tolerances.

13447-69

TOLERANCES AND EXEMPTIONS FROM TOLERANCES FOR PESTICIDE CHEMICALS IN OR ON RAW AGRICULTURAL COMMODITIES. O-ETHYL S,S-DIPROPYLPHOSPHORODITHIOATE.

J K Kirk

Fed Regist 34(70):6418-6419

12 Apr 1969 L1.451

Agricultural legislation, Agricultural products, Corn, Ethyl S,S-dipropyl phosphorodithioate, O-, Insecticide residues, Pesticides, Raw materials, Regulation (pesticides), Tolerances.

13448-69

EFFECT OF HERBICIDES ON CELLULOSE DECOMPOSITION BY SPOROXYTOPHAGA MYXOCOCCOIDES.

W J Lembeck A R Colmer

Appl Microbiol 15(2):300-303

Mar 1967 448.3 AP5

Cellulose, Degradation, Herbicides, Soil microorganisms.

13449-69

GAS-LIQUID CHROMATOGRAPHY OF PESTICIDES ON OV-17 STATIONARY PHASE.

V Leoni G Puccetti

J Chromatography 43(3):388-391

09 Sep 1969 475 J824

Chemical analysis, Chlorinated hydrocarbons, Chromatography, Herbicides, Organophosphorus compounds, Pesticide residues, Water.

13450-69

DRY ASHING METHOD FOR THE DETERMINATION OF TOTAL ARSENIC IN POULTRY TISSUES.

J L Morrison G M George

Ass Offic Anal Chem J 52(5):930-932

Sep 1969 381 AS7

Arsenic, Chemical analysis, Methodology, Pesticide residues, Poultry.

13451-69

GLC DETERMINATION OF DDVP EXTRACTED OR VACUUM-TRAPPED FROM PVC RESIN FORMULATIONS.

A D St. Clair J B Lamberton R R Claeys R L

Goulding

Ass Offic Anal Chem J 52(5):1010-1014 REF

Sep 1969 381 AS7

Chemical analysis, Chromatography, Dichlorvos, Pesticide residues, Polyvinyl chloride.

13452-69

BIOLOGICAL CONCENTRATION OF PESTICIDES BY ALGAE.

B D Vanee W Drummond

Amer Water Works Ass J 61(7):360-362 REF

Jul 1969 292.9 AM32J

Aldrin, Algae, Biochemistry, Chlorinated hydrocarbons, Chromatography, Dieldrin, DDT, Endrin, Pesticides.

13453-69

CHOLINESTERASE INHIBITION AUTOANALYSIS OF INSECTICIDAL ORGANOPHOSPHATES AND CARBAMATES.

G Voss

Ass Offic Anal Chem J 52(5):1027-1034 REF

Sep 1969 381 AS7

Carbamates, Chemical analysis, Cholinesterases, Organophosphorus compounds, Pesticide residues.

13454-69

ULTRAVIOLET DETERMINATION OF STRYCHNINE IN COMMERCIAL BAIT FORMULATIONS.

L A Wapensky

Ass Offic Anal Chem J 52(5):1015-1016

Sep 1969 381 AS7

BIBLIOGRAPHY

Chemical analysis, Pesticide residues, Rodenticides, Strychnine, Ultraviolet rays.

TOXICOLOGY

13455-69

DETECTION OF TOXICITY OF AFLATOXINS, STERIGMATOCYSTIN, AND OTHER FUNGAL TOXINS BY LETHAL ACTION ON ZEBRA FISH LARVAE.

Z H Abedi P M Seott

Ass Offic Anal Chem J 52(5):963-969 REF

Sep 1969 381 AS7

Aflatoxin, Biological assay, Fish, Larvae, Sterigmatocystins, Toxicology.

13456-69

BASES FOR THE TOXICOLOGICAL EVALUATION OF PESTICIDE RESIDUES AND ESTABLISHMENT OF TOLERANCES IN FOOD. (POR)

W F Almeida

Biologico 34(11):235-245 REF

Nov 1968 442.8 B529

Food contamination, Pesticide residues, Tolerances, Toxicology. English abstract

13457-69

THE NEED FOR PESTICIDES. II.

J B Bailey J E Swift

Pest Contr Oper News 28(12):10,24-27,29

Dec 1968 SB951.A1P4

Chemical control (pests), Pesticide synergists, Pesticides, Safety education, Toxicology.

13458-69

INTERACTIONS OF AFLATOXIN WITH HISTONES AND DNA.

H S Black B Jirgensons

Plant Physiol 42(5):731-735 REF

May 1967 450 P692

Aflatoxin, Biochemistry, Deoxyribonucleic acid, Histones, Tissue culture, Viscometry.

13459-69

EFFECT OF DDT, DIELDRIN, AND HEP-TACHLOR ON THE GROWTH OF SELECTED BACTERIA.

J A Collins B E Langlois

Appl Microbiol 16(5):799-800

May 1968 448.3 AP5

Chlorinated hydrocarbons, Dieldrin, DDT, Heptachlor, Insecticides, Pseudomonas fluorescens, Staphylococcus aureus.

13460-69

REPORT OF THE JOINT AOAC-AOCS AFLATOXIN COMMITTEE.

H Fischbach

Ass Offic Anal Chem J 52(5):970-975 REF

Sep 1969 381 AS7

Aflatoxin, Cottonseed, Methodology, Peanuts, Reports, Toxicology.

13461-69

ADENOSINE TRIPHOSPHATASE SENSITIVE TO DDT IN SYNAPSES OF RAT BRAIN.

F Matsumura K C Patil

Science 166(3901):121-122 REF

03 Oct 1969 470 SCI2

Adenosine triphosphates, Animal physiology, Brain, Chlorinated hydrocarbons, DDT, Insecticides, Rats, Toxicology.

13462-69

ADENOSINE TRIPHOSPHATASE SENSITIVE TO DDT IN SYNAPSES OF.

F Matsumura K C Patil

Science 166(3901):121-122 REF

03 Oct 1969 470 SCI2

Adenosine triphosphatase, Biochemistry, Brain, Chlorinated hydrocarbons, DDT, Insecticides, Nervous system, Rats, Toxicology.

13463-69

THE ENHANCEMENT OF PENETRATION OF AN ORGANOPHOSPHORUS ANTICHOLINESTERASE THROUGH GUINEA PIG SKIN BY DIMETHYL SULFOXIDE.

H L McDermot A J Finkbeiner W J Wills R M Fiegge

Can J Physiol Pharmacol 45(2):299-303

Mar 1967 444.8 C16

Anticholinesterases, Dimethyl sulfoxide, Guinea pigs, Inhibitors, Organophosphorus compounds, Penetration, Skin, Toxicology.

13464-69

RESIDUES OF ORGANOCHLORINE INSECTICIDES IN DEAD BIRDS IN THE UNITED KINGDOM.

J Robinson

Chem Indus 47:1974-1986

25 Nov 1967 382 M31C

Birds, Chlorinated hydrocarbons, Insecticide residues, Pesticide analysis, Population, Toxicology.

13465-69

NOTE ON ADSORPTION OF AFLATOXIN STANDARDS TO GLASS.

J V Rodricks

Ass Offic Anal Chem J 52(5):979-980

Sep 1969 381 AS7

Adsorption, Aflatoxin, Chemical analysis, Glass, Methodology, Toxicology, Ultraviolet rays.

13466-69

SCREENING COTTONSEED FOR AFLATOXINS.

M E Whitten

J Amer Chem 46(1):39-40

Jan 1969 307.8 J82

Aflatoxin, Cotton, Cottonseed, Fibers, Fluorescence, Ultraviolet rays.

PLANT PHYSIOLOGY & BIOCHEMISTRY

13467-69

PROPERTIES AND EFFECTS ON WL-9385-D ON RICE AND SOME WEED SPECIES.

D A del Rosario M R Vega

Philippine Agr 51(5):412-437 REF

Oct 1967 25 P542

Azido-4-(tert-butylamino)-6-(ethylamino)-s-triazine, 2-, Chemical control (weeds), Decomposition, Herbicide residues, Herbicides, Photochemistry, Plant biochemistry, Plant physiology, Rainfall, Rice, Seed germination, Soil contamination.

13468-69

THE EFFECTS OF MOISTURE AND TEMPERATURE ON GROWTH AND SPORE GERMINATION IN SOME FUNGI.

G Ayerst

J Stored Prod Res 5(2):127-141 REF

Aug 1969 421 J829

Aspergillus, Humidity, Penicillium, Plant biochemistry, Sporulation, Staehyotrys atra, Stored products, Temperature.

13469-69

THE ACTION OF PLANT GROWTH RETARDANTS ON TERPENOID BIOSYNTHESIS. INHIBITION OF GIBBERELLIC-ACID PRODUCTION IN FUSARIUM MONILIFORME BY CCC AND AMO-1618: ACTION OF THESE RETARDANTS ON STEROL BIOSYNTHESIS.

M F Barnes E N Light A Lang

Planta 88(2):172-182 REF

19 Aug 1969 450 P693

Fusarium moniliforme, Metabolism, Plant growth inhibitors, Plant physiology, Terpenoids.

13470-69

ACTION OF PLANT GROWTH REGULATORS. IV. ADSORPTION OF UNSUBSTITUTED AND

2,6-DICHLORO-AROMATIC ACIDS TO OAT MONOLAYERS.

R C Brian
Plant Physiol 42(9):1209-1214 REF

Sep 1967 450 P692

Chlorinated hydrocarbons, Oats, Plant growth regulator, Plant physiology, Tissue culture.

13471-69**HORMONAL CONTROL OF ENZYME SYNTHESIS: ON THE MODE OF ACTION OF GIBBERELIC ACID AND ABSICISIN IN ALEURONE LAYERS OF BARLEY.**

M J Chrispeels J E Varner
Plant Physiol 42(7):1008-1016

Jul 1967 450 P692

Aleurone, Barley, Enzymes, Gibberellic acid, Plant hormones, Plant physiology, Synthesis.

13472-69**GIBBERELLIN AND CCC EFFECTS ON FLOWERING AND GROWTH IN THE LONG-DAY PLANT LEMNA GIBBA G3.**

C F Cleland W S Briggs
Plant Physiol 44(4):503-507 REF

Apr 1969 450 P692

Chloroethyltrimethylammonium chloride, (2-, Flowering, Gibberellic acid, Lemna gibba, Plant growth inhibitors, Plant physiology.

13473-69**PHYSIOLOGICAL EFFECTS OF GIBBERELIC ACID. X. THE RELEASE OF GIBBERELLIN-LIKE SUBSTANCES BY GERMINATING BARLEY EMBRYOS.**

D Cohen L G Paleg
Plant Physiol 42(9):1288-1296 REF

Sep 1967 450 P692

Barley, Chromatography, Development, Gibberellic acid, Plant embryos, Plant growth regulator, Plant physiology.

13474-69**TREATING INDIVIDUAL TREES WITH DYBAR.**

T A Dierauf R B Geddes
Va Div Forestry Occas Rep 30:4P

Feb 1968 SD12.V8V8

Dybar, Hardwoods, Pesticide application, Plant physiology, Trees.

13475-69**A STUDY IN THE USE OF DYBAR FOR PLANTING SITE PREPARATION.**

T A Dierauf
Va Div Forestry Occas Rep 26:4P MAP

Jun 1967 SD12.V8V8

Dybar, Hardwoods, Pinus, Plant hardiness, Plant physiology, Planting, Seedlings.

13476-69**INTERACTIONS BETWEEN STEROIDS IN THE GROWTH OF PHYTOPHTHORA.**

C G Elliott B A Knights
J Sci Food Agr 20(7):406-408

Jul 1969 382 SO12

Cholesterol, Phytophthora, Plant biochemistry, Plant disease resistance, Plant physiology, Sterols.

13477-69**EFFECTS OF SPRAYING PLANTS WITH SUSPENSIONS OF INERT DUSTS.**

D W Eveling
Ann Appl Biol 64(1):139-151

Aug 1969 442.8 AN72

Coleus, Dusting, Kaolin, Plant physiology, Water.

13478-69**PHYTOCHROME CONTROLLED C14-SUCROSE UPTAKE INTO ETIOLATED PEA BUDS: EFFECTS OF GIBBERELIC ACID AND OTHER SUBSTANCES.**

R Goren A W Galston
Plant Physiol 42(8):1087

Aug 1967 450 P692

Chromoproteins, Gibberellic acid, Peas, Plant hormones, Radioactive tracers, Sucrose.

13479-69**INFLUENCE OF SOIL PROPERTIES ON PHYTOTOXICITY OF 4-AMINO-3, 5,6-TRICHLOROPICOLINIC ACID (PICLORAM).**

R Grover
Weed Res 8(3):226-232 REF

Sep 1968 79.8 W412

Biochemistry, Chemical control (weeds), Dosage, Environment, Ion exchange, Picloram, Roots, Soil hydrogen-ion concentration, Soils, Sunflowers, Toxicology. French and German summary.

13480-69**ASCORBIC ACID IMPRACTICAL AS A CHARACTER FOR RESISTANCE IN COTTON TO THE BOLL WEEVIL.**

W N Hudspeth J N Jenkins F G Maxwell
J Econ Entomol 62(3):583-584

16 Jun 1969 421 J822

Anthonomus grandis, Ascorbic acid, Cotton, Insect behavior, Insect nutrition, Insect pests, Plant pest resistance.

13481-69**SOME EFFECTS OF ANNUAL APPLICATIONS OF N-DIMETHYLAMINOSUCCINAMIC ACID (ALAR) TO APPLES.**

N E Looney D V Fisher J E W Parsons
Amer Soc Horticult Sci Proc 91:18-24

1967 81 SO12

Apples, Fruit, Pesticide application, Plant growth inhibitors, Plant physiology, Spraying, Succinic acid, 2,2-dimethylhydrazide.

13482-69**THE INFLUENCE OF N-DIMETHYL AMINO SUCCINAMIC ACID ON FLESH FIRMNESS AND ON SOME PRE- AND POST-HARVEST PHYSIOLOGICAL DISORDERS OF DELICIOUS APPLES.**

W J Lord F W Southwick R A Damon
Amer Soc Horticult Sci Proc 91:829-832 REF

1967 81 SO12

Apples, Dosage, Fruit, Plant physiology, Scald, Storage diseases, Succinic acid, 2,2-dimethylhydrazide.

13483-69**RESISTANCE OF COTTON STAINS WITH HIGH GOSSYPOL CONTENT TO HELIOTHIS SPP.**

M J Lukefahr J E Houghtaling
J Econ Entomol 62(3):588-591 REF

16 Jun 1969 421 J822

Biological assay, Cotton, Gossypol, Heliothis virescens, Heliothis zea, Insect nutrition, Insect pests, Plant pest resistance.

13484-69**FURTHER INVESTIGATIONS OF GIBBERELLINS IN PHASEOLUS MULTIFLORUS BY COMBINED GAS CHROMATOGRAPHY-MASS SPECTROMETRY - THE OCCURRENCE OF GIBBERELLIN A20 (PHARBITIS GIBBERELLIN) AND THE STRUCTURE OF COMPOUND B.**

J MacMillan R J Pryce
Tetrahedron Lett 13:1537-1542

Feb 1968 385 T29

Chromatography, Gibberellin A20, Gibberellins, Mass spectrometers, Plant regulators, Scarlet runner beans.

13485-69**KINETICS OF GROWTH RETARDANT AND HORMONE INTERACTIONS IN AFFECTING CUCUMBER HYPOCOTYL ELONGATION.**

T C Moore
Plant Physiol 42(5):677-684 REF

May 1967 450 P692

Chloroethyltrimethylammonium chloride, (2-, Cucumbers, Gibberellins, Indoleacetic acid, Plant biochemistry, Plant growth regulator, Plant hormones, Plant physiology.

13486-69**MOVEMENT OF WATER AND SOLUTES IN SIEVE TUBES OF WILLOW IN RESPONSE TO****PUNCTURE BY APHID STYLETS. EVIDENCE AGAINST A MASS FLOW OF SOLUTION.**

A J Pecl R J Field C L Coulson D C J Gardner
Physiol Plant Suppl 22(4):768-775 REF

1969 450 P564

Aphididae, Plant injuries, Plant physiology, Plant translocation, Radioactive tracers, Salix viminalis, Tuberculachnus salignus, Water.

13487-69**THE EFFECT OF (2-CHLOROETHYL) TRIMETHYLAMMONIUM CHLORIDE (CCC) ON THE GRAIN YIELD AND QUALITY OF RYE IN FIELD TRIALS. (GE)**

E Primost G Rittmeyer
Bodenkultur 19(2):112-126 REF

May 1968 19 B635

Chloroethyltrimethylammonium chloride, (2-, Crop yields, Grain, Lodging, Plant biochemistry, Plant pest resistance, Plant physiological diseases, Rye. English summary.

13488-69**GROWTH REGULATOR STUDIES ON SOYBEANS, SWEETCLOVER, AND ALFALFA.**

V N Schroder G M Prince
Soil Crop Sci Soc Fla Proc 27:114-122

1967 56.9 SO32

Alfalfa, Crop yields, Foliar application, Plant physiology, Plant regulators, Potassium gibberellate, Soybeans, Sweetclover, Triiodobenzoic acid, 2,3,5-.

13489-69**THE EFFECTS OF DMSO ALONE AND WHEN COMBINED WITH VARIOUS GROWTH REGULATORS ON THE GROWTH AND METABOLIC PRODUCTS OF DATURA SPP.**

L A Sciuchetti
N Y Acad Sci Ann 141(1):139-147

15 Mar 1967 500 N484

Datura, Dimethylsulfoxide, Gibberellic acid, Kinetin, Plant growth regulator, Plant physiology.

13490-69**OPPOSING EFFECTS OF GIBBERELLIN AND ETHYLENE.**

P C Scott A C Leopold
Plant Physiol 42(7):1021-1022 REF

Jul 1967 450 P692

Abscission, Ethylene, Gibberellins, Plant biochemistry, Plant physiology.

13491-69**BIOCHEMICAL ASPECTS OF PARASITISM BY THE ANGIOSPERM PARASITES: CHANGES IN NUCLEIC ACID CONTENT OF INFECTED HOSTS.**

P N Setty M U Beg M Singh P S Krishnan
Physiol Plant Suppl 22(4):729-733

1969 450 P564

Angiospermae, Cuscuta, Nucleic acids, Orobanche, Parasitic plants, Phospholipids, Phosphoproteins, Plant biochemistry.

13492-69**ATRAZINE METABOLISM AND HERBICIDAL SELECTIVITY.**

R H Shimabukurd
Plant Physiol 42(9):1269-1276 REF

Sep 1967 450 P692

Atrazine, Corn, Herbicides, Metabolism, Plant physiology, Sorghum, Soybeans, Wheat.

13493-69**AFLATOXIN-PRODUCING POTENTIAL OF ISOLATES OF THE ASPERGILLUS FLAVUS-ORYZAE GROUP FROM PEANUTS (ARACHIS HYPOGAEA).**

R A Taber H W Schroeder
Appl Microbiol 15(1):140-144 REF

Jan 1967 448.3 AP5

Aflatoxin, Aspergillus, Fungus diseases (plants), Peanuts, Plant biochemistry.

13494-69

13494-69
GROWTH AND PRODUCTION OF PICKLING CUCUMBERS AS INFLUENCED BY PETROLEUM MULCH AND CHEMICAL TREATMENTS AT PLANTING.

D R Tompkins R L Gabrielson W A Haglund
Amer Soc Horticult Sci Proc 91:331-338 REF
1967 81 SO12

Chloro-2-nitropropane, 1-, Crop yields, Cucumbers, Dimethylamino)benzenediazo sodium sulfonate, p-, Fungicides, Mulches, Nitrogen, Petroleum, Phosphorus, Plant physiology, Planting, Soil temperature, Trizone.

13495-69

EXOENZYMES IN FUNGI DEGRADING LIGNIN. III. THE EFFECT OF PEROXIDASE ON VERATRIC ACID.

J Trojanowski A Leonowicz M Wojtas
Acta Microbiol Polon 16(3):215-222 REF
1967 448.3 AC82

Biochemistry, Degradation, Enzymes, Fungi, Lignin.

13496-69

EFFECT OF ETHYLENE AND GIBBERELIC ACID ON AUXIN SYNTHESIS IN PLANT TISSUES.

J G Valdovinos L C Ernest E W Henry
Plant Physiol 42(12):1803-1806 REF
Dec 1967 450 P692

Ethylene, Gibberellic acid, Plant biochemistry, Plant hormones, Synthesis.

13497-69

THE INFLUENCE OF PHOSPHATE ON THE PHYTOTOXICITY OF 3-AMINO-1,2,4-TRIAZOLE.

M R Vega
Philippine Agr 51(5):349-396 REF
Oct 1967 25 P542

Amitrole, Catalase, Cotton, Cucumbers, Culture media, Enzymes, Glycosides, Herbicides, Lolium multiflorum, Peanuts, Phosphates, Plant biochemistry, Plant physiology, Porphyrins, Purines, Wheat.

13498-69

STUDY ON THE FATTY ACID COMPOSITION DURING GERMINATION OF PEANUTS TREATED WITH GROWTH REGULATORS.

D N Vyas K C Patel R D Patel
J Amer Chem 46(1):41-46 REF
Jan 1969 307.8 J82

Ascorbic acid, Fatty acids, Gibberellic acid, Maleic hydrazide, Peanuts, Plant biochemistry, Plant metabolism, Plant regulators, Seed germination, Sucrose, Sulfanilamide.

CHEMISTRY

13499-69

THIN-LAYER CHROMATOGRAPHIC IDENTIFICATION OF THE ACTIVE INGREDIENTS OF MIXED HERBICIDE FORMULATIONS.

D C Abbott P J Wagstaffe
J Chromatography 43(3):361-367 REF
09 Sep 1969 475 J824

Carbamates, Chemical analysis, Chromatography, Herbicides, Methodology, Phenoxyalkanoic acids, Triazines, Urca herbicides.

13500-69

RECOMMENDED ANALYTICAL METHODS FOR PESTICIDES. 41. FERBAM IN MIXED FORMULATIONS.

Anonymous
China Plant Protect Bull 17(2):36-37
Apr 1969 464.9 C47

Chemical analysis, Ferbam, Methodology, Pesticides, Spectrophotometry.

13501-69

NOTE ON NOMENCLATURE OF DIELDRIN AND RELATED COMPOUNDS.

W R Benson
Ass Offic Anal Chem J 52(5):1109-1111
Sep 1969 381 AS7

Chemical structure, Chlorinated hydrocarbons, Dieldrin, Nomenclature, Pesticides.

13502-69

A NEW FUNGAL TETRAHYDROFURAN.

B F Burrows
Chem Commun 12:597-598
21 Jun 1967 382 C4223

Butadienyl)-3-hydroxy-4-(1,3-pentadienyl)tetrahydrofuran, 2-, Chactomium coarctatum, Fungi, Metabolites, Nuclear magnetic resonance.

13503-69

THE INFLUENCE OF SIZE OF SPRAY DROPLETS ON THE HERBICIDAL ACTIVITY OF DIQUAT AND PARAQUAT.

G Douglas
Weed Res 8(3):205-212
Sep 1968 79.8 W412

Diquat, Herbicides, Paraquat, Particle size determination, Research, Spraying. French and German summary.

13504-69

COMBINATIONS.

W H Grimes
Agr Chem 22(8):32-33,35
Aug 1967 381 AG8

Chlorinated hydrocarbons, Formulations, Insecticides, Liquid fertilizers, Organophosphorus compounds, Pesticide application. Insecticides and liquid fertilizers are mixed.

13505-69

POLAROGRAPHIC ANALYSIS OF S-TRIAZINE HERBICIDES.

M H B Hayes M Stacey J M Thompson
Chem Indus 28:1222-1223
15 Jul 1967 382 M31C

Herbicides, Pesticide analysis, Pesticide residues, Polarography, Triazines.

13506-69

ELECTRONIC ASPECT OF THE ANTIBACTERIAL ACTIVITY OF NITROFURAN DERIVATIVES.

K Hirano S Yoshina K Okamura I Suzuki
Chem Soc Jap Bull 40(10):2229-2233
Oct 1967 385 T57B

Bacteria, Bactericides, Nitrofurans.

13507-69

FAUNATROL, A NEW CHEMICAL LIVESTOCK REPELLENT.

D E Howell L D Goodhue
Agr Chem 23(4):27,28,30,31
Apr 1968 381 AG8

Chemical control (pests), Livestock, Tetramethyl-2-butynylamine, N,N,I,I-, Toxicology.

13508-69

THE HIGH RESOLUTION NMR SPECTRA OF PESTICIDES. II. THE DDT-TYPE COMPOUNDS.

L H Keith A L Alford A W Garrison
Ass Offic Anal Chem J 52(5):1074-1092 REF
Sep 1969 381 AS7

Chemical analysis, Chlorinated hydrocarbons, DDT, Insecticides, Nuclear magnetic resonance, Spectroscopy.

13509-69

HERBICIDAL COMPOSITION AND METHOD EMPLOYING 3-BENZYL HYDANTOINS. PATENT 3,443,926.

K Kitasaki R F Crawford
Us Patent Office Offic Gaz 862(2):517
13 May 1969 156.65 OF2

Chemical control (weeds), Herbicides, Hydan-toins, Patents.

13510-69

METHOD OF CONTROLLING WEED GROWTH. PATENT 3,443,925.

K Kitasaki I S Bengelsdorf R F Crawford
Us Patent Office Offic Gaz 862(2):517
13 May 1969 156.65 OF2

Chemical control (weeds), Herbicides, Hydan-toins, Patents.

13511-69

BIBLIOGRAPHY OF PAPER AND THIN-LAYER CHROMATOGRAPHY 1961-1965 AND SURVEY OF APPLICATIONS.

K Maccek I M Hais J Kopceky J Gasparic
J Chromatography SUPPL VOL:17-825
1968 475 J824

Bibliography, Chromatography, Pesticides, Reviews.

13512-69

THE CIRCULAR DICHROISM AND THE STEREOCHEMISTRY OF A NEW FUNGAL TETRAHYDROFURAN.

S F Mason G W Vane
Chem Commun 12:598
21 Jun 1967 382 C4223

Butadienyl)-3-hydroxy-4-(1,3-pentadienyl)tetrahydrofuran, 2-, Fungi, Metabolites, Spectrochemistry, Stereochemistry.

13513-69

ISOLATION AND PURIFICATION OF OCHRATOXINS A AND B AND PREPARATION OF THEIR METHYL AND ETHYL ESTERS.

S Nesheim
Ass Offic Anal Chem J 52(5):975-979 REF
Sep 1969 381 AS7

Aspergillus, Chemistry, Chromatography, Ochratoxin, Purification procedures.

13514-69

ANTIDOTES FOR ORGANOPHOSPHATE POISONING. I. SYNTHESIS OF 1-(QUATERNARY AMMONIUM)-3-(HYDROXYMETHYL)PYRIDINIUM)PROPANE DIBROMIDES.

T Nishimura C Yamazaki T Ishiura
Chem Soc Jap Bull 40(10):2434-2436
Oct 1967 385 T57B

Antidotes, Organophosphorus compounds, Poisoning, Quaternary ammonium compounds, Synthesis.

13515-69

A NEW TECHNIQUE FOR THE COMPARATIVE EVALUATION OF SOME ORGANOMETALLIC WOOD PRESERVATIVES.

B A Richardson
Int Pest Contr 10(1):14-17,19
Jan 1968 79.8 P432

Brown rot, Coniophora cerebella, Fungicides, Lumber preservatives, Organometallic compounds, Pinus sylvestris.

13516-69

SYNTHESIS OF NEW FUNGICIDES. 2-(4'-ARYLTHIAZOLYL)-2'-IMINO)3-ARYL-4-THIAZOLIDONES.

S C Sharma
Chem Soc Jap Bull 40(10):2422-2424
Oct 1967 385 T57B

Aspergillus niger, Fungicides, Synthesis, Thiourea compounds, Thiozolidone compounds.

13517-69

IDENTIFICATION OF ORGANOPHOSPHATE PESTICIDES BY GAS CHROMATOGRAPHY WITH THE FLAME PHOTOMETRIC DETECTOR.

C W Stanley J I Morrison
J Chromatography 40(2):289-293
25 Mar 1969 475 J824

Chemical analysis, Chromatography, Malathion, Methyl parathion, Organophosphorus compounds, Parathion, Pesticides, Triethyl phosphorotrithioate, S,S,S-.

13518-69
DETERMINATION AND SEPARATION OF SOME URACIL HERBICIDES BY THIN-LAYER CHROMATOGRAPHY.

F G von Stryk G F Zajacz
J Chromatography 41(1):125-126
 22 Apr 1969 475 J824

Chemistry, Herbicides, Thin-layer chromatography, Uracil compounds.

13519-69
STUDIES OF ANTIBIOTICS AND RELATED SUBSTANCES. XXXII. SYNTHESSES OF NEAMINE AND ITS ANALOGUE.

K Tatsuta E Kitazawa S Umezawa
Chem Soc Jap Bull 40(10):2371-2375
 Oct 1967 385 T57B

Antibiotics, Chemical structure, Neamine, Synthesis.

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R E Wildung G Chesters D E Armstrong
Weed Res 8(3):213-225 REF
 Sep 1968 79.8 W412

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13521-69

FRUIT SPRAYING MACHINES.

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Equipment, Fruit, Mechanization, Pest control, Plant protection, Spraying.

13522-69

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H M Taft A R Hopkins C E Jernigan J C Webb
J Econ Entomol 62(3):570-574 REF
 16 Jun 1969 421 J822

Chemical control (insects), Chlorinated hydrocarbons, Cotton, DDT, Insecticides, Organophosphorus compounds, Spraying equipment.

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THEY WANT TO BAN DDT.

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Amer Veg Grower 17(6):24,49
 Jun 1969 80 C733

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ECONOMICS

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INSECTICIDES AND ACARACIDES. COMMON

NAMES DIRECTORY. PART I. MANUFACTURERS. PART II. OTHER DESIGNATIONS.

Pans (pest Articles News Sum) Sect A Insect Contr 13(3):319-328

Aug 1967 423.92 G798

Acaricides, Agricultural outlook, Indexes, Insecticides, Pest control.

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N R Thompson
Tasmanian J Agr 39(1):70-71
 Feb 1968 23 T182T

Agricultural legislation, Animal quarantine, Economics, Food industry, Plant quarantine.

EDUCATION

13526-69

THE PESTICIDE PROBLEM IN DEVELOPING COUNTRIES.

L J Saliba
Int Pest Contr 10(1):10-13

Jan 1968 79.8 P432

Agricultural education, Labeling, Pesticide residues, Pesticides, Toxicology, World agricultural situation.

13527-69

A MOSQUITO CONTROL DISTRICT'S PUBLIC INFORMATION AND EDUCATION PROGRAM.

G M Stokes
Mosquito News 29(2):169-171
 Jun 1969 421 M85

Culicidae, Education, Insect control.



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