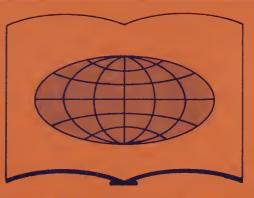
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Pesticides Ocumentation Bulletin

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Volume 5
July 18, 1969

Number 15



U.S. DEPARTMENT OF AGRICULTURE

PESTICIDES DOCUMENTATION BULLETIN

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.

Other Files

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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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^{*}This issue does not contain citations under this category.



ENTOMOLOGY

SYSTEMATICS

8616-69

DESCRIPTION OF NEW ARCTIIDAE FROM MADAGASCAR. (LEP.) (15TH NOTE). (FR)

H dc Toulgoct

Soc Entornol France Bull 73(3/4,MAR-APR):74-

1968 420 F84B

Arctiidac, Insect identification, Insect taxonomy, Zoogeography.

NASAL ACARINA OF BIRDS AND MAMMALS OF BRAZIL. I. RHINONYSSIDAE OF THE BELEM REGION (NORTH BRAZIL), (FL)

T H G Aitken A Fain

Inst Roy Sci Natur Belg Bull 44(41):1-28 REF 15 Nov 1968 504 B835B

Acarina, Birds, Insect taxonomy, Mammals, Parasitic insects.

8618-69

PROPOSED FAUNAL AFFINITIES OF UTAH DYTISCIDAE WITH THE EMPHASIS ON THE GENUS HYGROTUS STEPHENS.

R D Anderson

Utah Acad Sci Arts Lett Proc 44(1):358-365 MAP 1967 500 UT1

Dytiscidae, Insect ecology, Zoogeography.

FOURTEEN NEW CHRYSOMELID BEETLES FROM JAMAICA.

D H Blake

Entomol Soc Wash Proc 71(2):161-174

Jun 1969 420 W27

Chrysomelidae, Coleoptera, Insect morphology, Insect taxonomy, Zoogeography.

The new species described are in the following nine genera: Lactica, Crysylus, Chaetoenema, Longitarsus, Hermacophaga, Sidfaya, Apraca, Megistops, and Heikertingerella.

CRYPTURGUS HISPIDULUS ALSO IN BADEN (COL., SCOLYTIDAE) (CONTRIBUTION TO THE SOUTHWESTERN GERMAN COLEOP-TERN FAUNA). (GE)

S Claditsch

Entomol Z 79(3):27-28 01 Feh 1969 421 EN85

Insect taxonomy, Scolytidae, Zoogeography.

STUDIES STUDIES OF QUEENSLAND TETRANYCHIDAE. 7. RECORDS OF THE GENUS EOTETRANYCHUS (ACARINA: TETRANYCHIDAE).

Entomol Soc Australia (nsw) J 7(2):127-129

31 Dec 1968 423.92 EN84

Eotetranychus, Insect taxonomy, Tetranychus.

OLIGONYCHUS ARANEUM SP. N. AND OLIGONYCHUS DIGITATUS DAVIS OLIGONYCHUS DIGITATUS DAVIS (ACARINA: TETRANYCHIDAE) AS PESTS OF GRASSES IN EASTERN AUSTRALIA.

J J Davis

Entomol Soc Australia (nsw) J 7(2):123-126

31 Dec 1968 423,92 EN84

Insect taxonomy, Oligonychus, Pastures. Tetranychidac.

8623-69

TAXONOMY OF NEW ZEALAND PSEU-DOCOCCIDAE, PART 1 (HOMOPTERA: COC-COIDEA).

J A Dc Boer

New Zealand J Sci 10(1):138-141

Mar 1967 514 N482

Insect taxonomy, Pseudococcidae.

One new species of the genus Chorizococcus McKenzic is described. Trionymus zcalandicus Brittin is transferred to the genus Spilococcus Ferris and the lectotype designated.

THREE NEW SPECIES OF THE GENUS TRIP-TEROIDES, SUBGENUS TRIPTEROIDES GILES (DIPTERA: CULICIDAE).

M D Delfinado E R Hodges

Entomol Soc Wash Proc 70(4):361-375

Dec 1968 420 W27

Culicidae, Insect taxonomy, Tripteroides denticu-latus, Tripteroides malayi, Tripteroides tarsalis, Zoogcography.

8625-69

THE BARIS LEPIDII GROUP. (GE)

L Dicekmann

Entomol Bl 64(1):47-50

15 Jul 1968 421 EN833

Baris, Curculionidac, Insect taxonomy, Zoogeog-

8626-69

SOME AUSTRALIAN PARTHENOGENETIC CHIRONOMIDAE (DIPTERA).

D H D Edward D H Colless

Entomol Soc Australia (nsw) J 7(2):158-162

31 Dcc 1968 423.92 EN84

Chironomidac, Insect biology, Insect morphology, Insect taxonomy, Parthenogenesis.

Parthenogenesis has hitherto heen reported in only a single species of Australian chironomid: Lundstrocmia parthenogenetica Freeman. It is here described in two further species: Limnophyes vestitus (Skuse) and another that cannot so far be distinguished from the Palcartic Corynoneura scutellata Winnertz, the latter being a new record for this country. Notes on biology and adult, pupal and larval morphology arc given for both species

THE HUNT OF THE WASPS AT JACKSON HOLE.

H E Evans

Natur Hist 77(2):38-39

Feb 1968 500 N483J

Food hahits, Philanthus, Predaceous insects, Surveys.

8628-69

CARPHURINAE OR CARPHURIDAE 43. CON-TRIBUTION TO THE KNOWLEDGE OF THE MALACHIDAE. (GE)

A M J Evers

Entornol Bl 64(1):17-27, REF

15 Jul 1968 421 EN833

Carphuridac, Coleoptera, Insect taxonomy, Me-

8629-69

THREE NEW SPECIES OF BRACHYHESMA (A-POIDEA: COLLETIDEA).

E M Exlev

Entomol Soc Australia (nsw) J 7(2):135-141

31 Dec 1968 423.92 EN84

Colletidae, Insect taxonomy,

TWO NEW GENERA AND FIVE NEW SPECIES OF ARGAREMINI FROM NEW ZEALAND, WITH A KEY TO THE GENERA OF TARGAREMINI (HETEROPTERA: LYGAEIDAE).

A C Eyles

New Zealand J Sci 10(2):407-423

Jun 1967 514 N482

Insect taxonomy, Lygacidae, Zoogeography.

Millerocoris ductus n. gen. and sp., Eminocoris National Series and Sp., and Sp., Eminocons conus n. gen. and sp. and three new species of Netagerra White, M. distincta, M. angusta, and M. kaikourica are described. A key to the species of Metagerra is given. The genus Lachnophoroides Distant is transferred from the subfamily Oxyeareninae. A key to the genera of Targaremini is

given, and the zoogeography of the tribe is presented.

CONTRIBUTION TO THE KNOWLEDGE OF THE STAPHYLINIDAE. CIII. THE QUEDIUS OBLITTERATUS ER.--NEMORALIS BAUDI COMPLEX, (FR

G Fagel

Inst Roy Sci Natur Belg Bull 44(24):1-14

30 Scp 1968 504 B835B

Insect taxonomy, Quedius, Staphylinidac, Zoogcography.

8632-69

THE DISTRIBUTION OF THE FURNITURE BEETLE, ANOBIUM PUNCTATUM (DE GEER) (COLEOPTERA: ANOBIIDAE), IN NEW SOUTH WALES.

J R J French

Entomol Soc Australia (nsw) J 7(2):115-122 MAP

31 Dec 1968 423.92 EN84

Anobium punctatum, Zoogcography.

A survey was carried out to study the area of economic importance of Anobium punctatum (De Geer) in order to assess its potential threat to softwood utilization in New South Wales, particularly of Pinus radiata D. Don. The survey indicated that Anobium was confined to the more humid and cooler coastal plains, and to the castern highlands of the Great Dividing Range, Infestations west of the Great Dividing Range were few, and were found to have been brought into the area in furniture and fittings from the coastal region.

PYRGANUS A NEW GENUS (COLEOPTERA, ELATERIDAE). (SP)

R Golbach

Acta Zool Lilloana 22:197-199

1967 410 AC82

Elateridae, Insect taxonomy. German abstract.

BRENTIDAE OF PARAGUAY (COLEOPTERA). (SP)

J A Haedo Rossi

Acta Zool Lilloana 22:157-182

1967 410 AC82

Brentidae, Insect taxonomy. English abstract.

STUDIES OF FRUITFLIES ASSOCIATED WITH MISTLETOE IN AUSTRALIA AND PAKISTAN WITH NOTES AND DESCRIPTIONS ON GENERA RELATED TO PERILAMPSIS BEZZI DIPTERA: TEPHRITIDAE.

D E Hardy

Beitr Entomol 17(1-2):127-149

1967 421 B392

Insect taxonomy, Loranthaceae, Perilampsis, Tephritidae.

8636-69

NEW COPTOTERMES (ISOPTERA, RHINOTERMITIDAE) FROM GABON.

W V Harris

Rev Zool Bot Afr 77(3/4)236-238

28 Jun 1968 410 R326

Coptotermes silvaticus, Insect identification, Insect taxonomy, Rhinotermitidae, Termites, Zoogeography.

8637-69

TWO NEW SPECIES OF AUDRE (LEP. RHOP. RIODINIDAE). (SP)

K J Hayward

Acta Zool Lilloana 22:137-142

1967 410 AC82 Insect taxonomy, Riodinidae.

8638-69

NEW NAMES FOR TWO GENERA OF LEPIDOPTERA. (SP)

K J Hayward

Acta Zool Lilloana 22:135

1967 410 AC82

BIBLIOGRAPHY

8639-69

Insect taxonomy, Lepidoptera, Nomenelature.

FOUR NEW SATYRIDS FROM ECUADOR. (SP)

K J Hayward

Acta Zool Lilloana 22:201-206

1967 410 AC82

Insect taxonomy, Satyridac.

8640-69

TWO SPECIES OF APPLE-FEEDING GELECHIDS NEW TO SCIENCE (LEPIDOP-TERA).

R W Hodges

Entomol Soc Wash Proc 71(2):202-204

Jun 1969 420 W27

Apples, Filatima epulatrix, Gelechiidae, Insect ecology, Insect morphology, Insect taxonomy, Pseudotelphusa incana, Zoogeography.

A NEW STRATIOMYID PEST OF SUGAR CANE IN AUSTRALIA (DIPTERA: STRATIOMYIDAE). M T James

Entomol Soc Australia (nsw) J 7(2):155-157

31 Dec 1968 423,92 EN84

Insect taxonomy, Stratiomyidae, Sugarcane.

ADDENDUM TO THE REVISION OF THE GENUS THORICTUS GERM. (GE)

H John

Entomol Bl 64(1):28-30

15 Jul 1968 421 EN833

Insect taxonomy, Thorictidae, Thorietus, Zoogeography.

8643-69

THE BLACK BARK BEETLE, XYLOSANDRUS GERMANUS BLANDE, A NEWCOMER TO OUR DOMESTIC INSECT FAUNA. (GE)

H J Kamp

Entomol Bl 64(1):31-39, REF

15 Jul 1968 421 EN833

Insect hiology, Insect taxonomy, Xylosandrus germanus, Zoogeography.

TAXONOMIC ABOUT REMARKS STAPHYLINIDAE. (GE)

H Korge

Entomol Bl 64(1):51-57

15 Jul 1968 421 EN833

Insect taxonomy, Quedius, Staphylinidae, Zoogeography.

PALEARCTIC SPECIES OF EGG PARASITES THE GENUS TELENOMUS HALIDAY (HYMENOPTERA, SCELIONIDAE, TELENOMINAE).

M A Kozlov

Entomol Rev 46(2 APR-JUN):215-224 REF

1967 421 R322AE

Hymenoptera, Insect hiology, Insect eggs, Insect taxonomy, Palearctic Region, Parasites, Scelionidae, Telenomus, Zoogeography. Listing of 114 species, translated from Russian.

8646-69

STUDIES OF THE MEXICAN DELTOCEPHALINAE II. SEVEN NEW SPECIES OF NORVELLINA (HOMOPTERA: CICADEL-LIDAE),

J p Kramer D M DeLons Ohio J Sci 69(2):115-121

Mar 1969 410 OH3

Cieadellidae, Insect taxonomy, Surveys,

MORPHOLOGY AND RELATIONSHIPS OF THE PENTATOMOIDEA (HETEROPTERA). III.
NATALICOLINAE AND SOME TESSARATOMIDAE OF UNCERTAIN POSITION.

R Kumar

Entomol Soc Amer Ann 62(4):681-695 REF Jul 1969 420 EN82

Heteroptera, Insect names, Insect taxonomy.

8648-69

MICROCTONUS GLYPTOSCELI N. SP., A
PARASITE OF GLYPTOSCELIS PUBESCENS
(F.) IN WISCONSIN (HYMENOPTERA:
BRACONIDAE: EUPHORINAE AND COLEOP-TERA: CHRYSOMELIDAE).

C C Loan M G Klein H C Coppel

Entomol Soc Wash Proc 71(2):230-233 REF

Jun 1969 420 W27

Braconidae, Chrysomelidae, Glyptoseelis pu-heseens, Insect morphology, Insect physiology, In-sect taxonomy, Larvae, Microctonus glyptoseeli, Parasitic insects, Zoogeography.

MIMO : NEOLAXTA MONTEITHI GEN. SP. N. FROM (BLATTODEA:

M J Mackerras

Entomol Soc Australia (nsw) J 7(2):143-146

31 Dec 1968 423,92 EN84

Blattidae, Insect taxonomy.

8650-69

POLYPHAGIDAE (BLATTODEA) FROM EAST-ERN AUSTRALIA.

M J Mackerras

Entomol Soc Australia (nsw) J 7(2):147-154

31 Dec 1968 423.92 EN84

Blattidae, Insect taxonomy.

THE MAYFLY GENUS HEXAGENIA IN MEXICO (EPHEMEROPTERA: EPHEMERIDAE).

W P McCafferty

Entornol Soc Wash Proc 70(4):358-359

Dec 1968 420 W27

Ephemeridae, Hexagenia, Insect taxonomy, Zoogeography.

8652-69

NEW SOUTH AMERICAN GENERA AND SPE-CIES OF THE TRIBE BOTHYNOSTETHINI (HYMENOPTERA; SPHECIDAE; LARRINAE).

A S Menke

Acta Zool Lilloana 22:89-99

1967 410 AC82

Insect taxonomy, Spheeidae, Zoogeography.

THE GENERIC PLACEMENT OF ALLODAPE GRISEA ALFKEN (HYMENOPTERA: APOIDEA).

C D Michener

Entomol Soc Australia (nsw) J 7(2):142

31 Dec 1968 423.92 EN84

Apoidea, Insect taxonomy.

PHILONTHUS PARCUS SHARP (COLEOP-TERA: STAPHYLINIDAE), A JAPANESE ROVE BEETLE ESTABLISHED IN AUSTRALIAN CAVES.

B P Moore

Entomol Soc Australia (nsw) J 7(2):163-164 31 Dec 1968 423,92 EN84

Cave fauna, Insect taxonomy, Staphylinidae.

NEW EXOPROSOPINAE FROM MEXICO AND CENTRAL AMERICA (DIPTERA: BOM-BYLIIDAE).

R H Painter E M Painter

Kans Entomol Soc J 42(1):5-34

Jan 1969 420 K13

Bombyliidae, Inseet taxonomy, Surveys.

THE ARADIDAE OF NEW ZEALAND (HEMIP-TERA, HETEROPTERA). III. THE ARADINAE AND CALISINAE.

J G Pendergrast

Roy Soc New Zeal Trans Zool 10(10):81-88 REF 22 Jan 1968 514 W46TZ

Aradidae, Aradus australis, Calisius zealandieus, Insect morphology, Insect taxonomy, Zoogeog-

Aradus australis Erichson is redescribed and the first New Zealand species of Calisius is described.

THE NATURAL FOCI OF HUMAN TRANSMIS-SIVE DISEASES.

P A Petrisheheva

Entomol Rev 47(2,APR-JUN):186-188

Jun 1968 421 R322AE

Human diseases, Insect evolution, Insect taxonomy, Insect vectors, Zoogeography, Russian journal-Entomologicheskoye Obozreniye, p. 317-321.

DESCRIPTIONS OF NEW NEOTROPICAL TABANIDAE AND NEW RECORDS FOR AR-GENTINA.

C B Philip

Acta Zool Lilloana 22:105-132 REF

1967 410 AC82

Insect taxonomy, Tabanidae.

A REVISION OF THE GENUS CHLOROC-NEMIS SELYS (ODONATA).

E Pinhey

Southern Rhodes Nat Mus Occas Pap 4(29B):209-260 REF

10 Jan 1969 515 R342

Insect ecology, Insect taxonomy, Odonata, Zoogeography.

8660-69

THE TETTIGONIIDAE (ORTHOPTERA) OF OKLAHOMA.

V N Powders W A Drew Okla Acad Sci Proc 47:87-98

1968 500 OK42

Insect taxonomy, Surveys, Tettigoniidae.

A NEW STENUS FROM SOUTHERN CHINA: STENUS (HYPOSTENUS) SHAOWUENSIS N. STERUS (HYPOSTERUS) SHAOW JERNS N. SP., INCLUDING SYNONYMY NOTES ON OTHER SPECIES (COLEOPTERA, STAPHYLINIDAE). 42. CONTRIBUTION TO THE KNOWLEDGE OF THE STENINAE. (GE)

V Puthz

Entomol Bl 64(1):43-46,REF

15 Jul 1968 421 EN833 Inseet taxonomy, Staphylinidae, Steninae, Stenus, Stenus shaownensis.

8662-69

THE CAVERNICOLOUS STATUS OF SOME SPECIES OF MACROPATHINAE (ORTHOP-TERA: RHAPHIDOPHORIDAE).

A M Richards

Entomol Soc Australia (nsw) J 7(2):87-89 REF 31 Dec 1968 423.92 EN84

Insect behavior, Insect taxonomy, Orthoptera. The eavernicolous status of some of Macropathinae is discussed. All species studied so far are elas-sified as troglophiles. No trogloxenie Maeropathin-

ae are known.

8663-69 NEW RECORDS AND NEW SPECIES OF AUS-MASARIDAE (HYMENOPTERA: TRALIAN VESPOIDEA).

Insect taxonomy, Vespidae.

Insect taxonomy, Trichoptera.

O W Richards Entomol Soc Australia (nsw) J 7(2):101-104 31 Dec 1968 423,92 EN84

A NEW FAMILY OF CADDIS-FLIES FROM AUSTRALIA (TRICHOPTERA: TASIMIIDAE).

Entomol Soc Australia (nsw) J 7(2):109-114 31 Dec 1968 423,92 EN84

THE NEW GENUS FREGATIELLA (MAL-LOPHAGA: MENOPONIDAE) FOR MENOPON AURIFASCIATUM FROM THE FRIGATE-BIRD. S O Ryan R D Price

Entomol Soc Amer Ann 62(4):823-825

Jul 1969 420 EN82

Insect names, Insect taxonomy, Mallophaga, Menoponidae, Zoogeography.

8666-69

A REVIEW OF THE GENUS EIDMANNIELLA (MALLOPHAGA: MENOPONIDAE) FROM THE PELECANIFORMES.

S O Ryan R D Price

Entomol Soc Amer Ann 62(4):815-823 REF

Jul 1969 420 EN82

Birds, Insect names, Insect taxonomy, Mallophaga, Menoponidae.

8667-69

THE AQUATIC AND SEMIAQUATIC HEMIPTERA IN OKLAHOMA.

K F Schaefer W A Drew

Okla Acad Sci Proc 47:125-134

1968 500 OK42

Aquatic insects, Gerridae, Insect taxonomy, Nepidae, Notonectidae, Surveys.

8668-69

HEBRIDAE (HEMIPTERA) OF OKLAHOMA.

K F Schaefer W A Drew

Southwest Natar 12(4):487

31 Dec 1967 409.6 SO8

Hebridae, Insect taxonomy, Zoogeography.

8669-69

THE ASILINAE (DIPTERA, ASILIDAE) OF OKLAHOMA.

K F Schaefer

Okla Acad Sci Proc 47:114-124

1968 500 OK42

Asilidae, Inseet taxonomy, Surveys.

8670-69

THE GENERA NEUROCYTA NAVAS AND PHRYGANOPSYCHE WIGGINS IN INDIA (TRICHOPTERA, PHRYGANEIDAE, AND PHRYGANOPSYCHIDAE), (FR)

F Schmid

Natur Can 95(3,MAY-JUN):723-726

Jun 1968 410 N216

Insect ecology, Insect taxonomy, Trichoptera, English abstract.

8671-69

OKLAHOMA LEAF BEETLES OF THE SUB-FAMILIES DONACHNAE, CRIOCERINAE, CLYTRINAE, CHLAMISINAE, EUMOLPINAE, AND CHRYSOMELINAE (CHRYSOMELIDAE, COLEOPTERA).

J H Shaddy W A Drew

Okla Acad Sci Proc 47:139-153 REF

1968 500 OK42

Chrysomelidae, Insect taxonomy, Surveys.

8672-69

FURTHER STUDIES ON THE TAR-SONEMIDAE, II (ACARINA).

R L Smiley

Entomol Soc Wash Proc 71(2):218-229

Jun 1969 420 W27

Blueberries, Daidalotarsonemus jamesbakeri, Heterotarsonemus lindquisti, Inseet ecology, Inseet morphology, Inseet taxonomy, Mites, Parasitie inseets, Tarsonemidae, Tarsonemus adamsi, Tarsonemus eonfusus, Tarsonemus summersi.

A new genus and four new species are described.

8673-69

THE GENUS CRATEROCERCUS ROHWER (HYMENOPTERA: TENTHREDINIDAE).

D R Smith

Entomol Soc Wash Proc 71(2):153-161 REF

Jun 1969 420 W27

Crateroecreus, Insect ecology, Insect morphology, Insect taxonomy, Quereus, Tenthredinidae, Zoogcography.

A new species, Craterocereus furcatus, is described.

8674-69

TWO NEW SPECIES OF IDAHO TRICHOPTERA WITH DISTRIBUTIONAL AND TAXONOMIC NOTES ON OTHER SPECIES.

S D Smith

Kans Entomol Soc J 42(1):46-53

Jan 1969 420 K13

Insect taxonomy, Trichoptera, Zoogeography.

8675-69

NOTES ON THE SYSTEMATICS AND DULOSIS OF SOME WESTERN SPECIES OF FORMICA, SUBGENUS RAPTIFORMICA (HYMENOP-TERA: FORMICIDAE).

R R Snelling

Entomol Soc Wash Proc 71(2):194-197 REF

Jun 1969 420 W27

Formica, Hymenoptera, Insect ecology, Insect morphology, Insect taxonomy, Zoogeography.

3676-69

EPURAEA FUSSI REITTER EQUALS EPURAEA INTERJECTA SJOBERG SYN. NOV. (GE)

K Spornraft

Entomol Bl 64(1):40

15 Jul 1968 421 EN833

Epuraea angustula, Epuraea fussi, Inseet taxonomy, Nitidulidae.

8677-69

CATALOG OF NEUROPTERA OF ARGENTINA AND URUGUAY, (SP)

L A Stange

Acta Zool Lilloana 22:5-87 REF

1967 410 AC82

Bibliography, Catalogs, Neuroptera, Zoogeography. English abstract.

8678-69

THE POSTABODOMEN OF CINDERELLA, WITH A NEW SPECIES FROM ARGENTINA (DIPTERA: HELEOMYZIDAE).

G C Steyskal

Kans Entomol Soc J 42(1):80-83

Jan 1969 420 K13

Heleomyzidae, Inseet taxonomy, Zoogeography.

8679-69

SOME AFRICAN FULGOROIDEA IN THE UNITED STATES NATIONAL MUSEUM.

H Synave

Entomol Soc Wash Proc 71(2):174-190

Jun 1969 420 W27

Fulgoroidea, Homoptera, Insect morphology, Insect taxonomy, Zoogeography.

Three new species are described: Capenopsis krameri, Myndus liberianus, and Sabecoides ornatus.

8680-69

MALLOPHAGA FROM BIRDS OF THE ORIENTAL REGION. PART IX. STURNIDOECUS PHILIPPENSIS, N. SP. (ISCHNOCERA: PHILOPTERIDAE).

B K Tandan P Kumar

Entomol Soc Wash Proc 71(2):205-210 REF

Jun 1969 420 W27

Birds, Insect morphology, Insect taxonomy, Mallophaga, Parasitic insects, Philopteridae, Sturnidoecus philippensis, Zoogeography.

8681-69

OBSERVATIONS ON THE GENITAL STRUCTURES IN SEVERAL GENERA OF BRUCHIDAE (COLEOPTERA), (SP)

A L Teran

Acta Zool Lilloana 22:307-322

1967 410 AC82

Bruchidae, Inseet taxonomy, Reproductive organs. English abstract.

8682-69

FIRST RECORD OF RHAGIO SCOLOPACEUS (LINNE) IN NORTH AMERICA (DIPTERA: RHAGIONIDAE).

F C Thompson

Entomol Soc Wash Proc 71(2):141-143

Jun 1969 420 W27

Diptera, Insect identification, Rhagio scolopaccus, Zoogeography.

3683-69

HISPINAE OF PERU, COLLECTED BY VON W. WEYRAUCH. (228. CONTRIBUTION TO THE KNOWLEDGE OF THE HISPINAE, COLEOPT., CHRYSOMELIDAE). (GE)

E Uhmann

Acta Zool Lilloana 22:101-104 REF

1967 410 AC82

Chrysomelidae, Hispinae, Inseet taxonomy. Spanish abstract.

8684-69

PREVIOUSLY UNPUBLISHED NOCTURNALS OF MADAGASCAR. (LEP.), (FR

P Viette

Soc Entomol France Bull 73(3/4,MAR-APR):77-83

1968 420 F84B

Amphipyrinae, Insect identification, Insect taxonomy, Zoogeography. Descriptions of 1 new genus and 7 new species.

8685-69

SOME MIRIDS FROM CENTRAL SIBERIA (HETEROPTERA). (GE)

E Wagner

Notulae Entomol 49(1):31-36

1969 421 N84

Insect taxonomy, Miridae.

8686-69

SYSTEMATICS AND ACOUSTIC BEHAVIOR OF UNITED STATES CRICKETS OF THE GENUS OROCHARIS (ORTHOPTERA: GRYLLIDAE).

T J Walker

Entomol Soc Amer Ann 62(4):752-762 MAP REF Jul 1969 420 EN82

Gryllidae, Inseet behavior, Inseet taxonomy, Stridulation, Zoogeography.

8687-69

NEW SPECIES OF CHIRONOMIDS FROM COSTELLO LAKE, ONTARIO (DIPTERA: CHIRONOMIDAE).

D W Webb

Kans Entomol Soc J 42(1):91-108

Jan 1969 420 K13

Chironomidae, Insect taxonomy,

8688-69

NEW GENERA OF NEOTROPICAL EU-MENIDAE (HYMENOPTERA). (SP)

A Willink

A wiiink Acta Zool Lilloana 22:143-155

1967 410 AC82

Eumenidae, Inseet taxonomy. English abstract.

8689-69

SEVEN NEW SPECIES AND RECORDS OF PHYTOSEIID MITES FROM MISSOURI (ACARINA; PHYTOSEIIDAE).

ACARIN

R E Zack
Kans Entomol Soc J 42(1):68-80

Jan 1969 420 K13

Insect taxonomy, Phytoseiidae.

8690.69

TWO NEW CATOPIDAE GENERA FROM EUROPE (ANALYSIS OF THE NIGRITA GROUP IN THE GENUS CATOPS). (GE)

P Zwiek

Entomol Bl 64(1):1-16, REF

15 Jul 1968 421 EN833 Apocatops, Catops, Fissocatops, Insect taxonomy, Leptodiridae.

PHYSIOLOGY AND BIOCHEMISTRY

8691-69

WINTER CONTROL OF THE EUROPEAN RED MITE, PANONYCHUS ULMI, AND CERTAIN

FRUIT INSECTS BYM-2060 FLUOROETHYL(4-BIPHENYLYL)ACETATE)

P de Pietri-Tonelli V Corradini N Caraealli G Siddi

J Econ Entomol 62(1):107-112 17 Feb 1969 421 I822

Aphis pomi, Aspidiotus perniciosus, Chemical control (insects), Climate, Dysaphis plantaginea, Fluoroethyl(4-biphenylyl)acetate, 2-, Fruit, Insect eggs, Insect pests, Panonychus ulmi, Psylla piri.

8692-69

MORTALITY, LONGEVITY, AND FECUNDITY OF SPIDER MITES ON COTTON TREATED WITH SYSTEMIC ACARICIDES.

M K Abid R L Ridgway

J Econ Entomol 62(1):13-16 REF 17 Feb 1969 421 J822

Aearicides, Chemical control (pests), Cotton, Fertility, Longevity, Mortality, Seedlings, Tetranychus atlanticus, Tetranychus einnabarinus, Tetranychus tumidus, Tetranychus urticae.

RESPONSE OF FLYING BOLLWORM MOTHS AND OTHER TYMPANATE MOTHS TO PULSED ULTRASOUND.

H.r Agee

Entomol Soc Amer Ann 62(4):801-807 REF Jul 1969 420 EN82

Heliothis zea, Insect behavior, Noetuidae, Ultrasonic waves.

8694-69

THE NUCLEOPOLYHEDROSIS VIRUS OF HELIOTHIS: QUANTITATIVE IN VIVO ESTIMATES OF VIRULENCE.

G E Allen C M Ignoffo

J Invertebrate Pathol 13(3):378-381

May 1969 421 J826

Biological assay, Deoxyribonucleie acid, Heliothis zea, Polyhedroses.

The LD-50 inclusion-body nucleopolyhedrosis virus dose for 8-day-old Heliothis zea larvae was 250 times that of 3-day old larvae. Less than a twofold difference was obtained when the dose was ealculated as the number of inclusion hodies per milligram of hody weight. An estimated 370-690 virions or 0.037-0.069 picograms (pg) of DNA per milligram of hody weight were required to attain an LD-50 level.

8695-69

ENTOMOPHTHORA AQUATICA SP. N. INFECTING LARVAE AND PUPAE OF FLOOD-WATER MOSQUITOES.

J F Anderson S L Ringo

J Invertebrate Pathol 13(3):386-393 REF

May 1969 421 J826

Acdes canadensis, Biological control (insects), Culiseta morsitans, Entomogenous fungi, tomophthora, Insect diseases, Larvae, Pupae,

PREDATORS PITTED AGAINST CEREAL LEAF BEETLE.

Anonymous

Michigan Farmer 251(2):4

18 Jan 1969 6 M58

Biological control (insects), Chrysomelidae, Experimental insects, Insect control, Oulema melanopus, Predaeeous inseets.

8697-69

SUPERFLIES BEAT DICHLORODIPHENYL-TRICHLOROETHANE.

Anonymus

Sci News Lett 94(21):520

23 Nov 1968 470 SCI24

Diptera, DDT, Insecticide resistant insects, Insectieides, Pest control, Research.

SCREWWORM FLY UPSURGE.

Anonymus

Sci News Lett 94(21):520

23 Nov 1968 470 SCI24

Biological control (insects), Cattle, Cochliomyia hominivorax, Diptera, Injuries, Insect adaptation, Insect eggs, Sterility.

8699-69

ALKALINE PHOSPHATASE IN THE DIGESTIVE SYSTEM OF THE DESERT LOCUST, SCHISTOCERCA GREGARIA (FOR-SKAL).

S H Ashrafi S N H Naqvi M A H Qadri

Ohio J Sci 69(3):183-191 REF

May 1969 410 OH3

Alkaline phosphatase, Enzymes, Gastrointestinal system, Insect biochemistry, Schistocerea gregaria.

8700-69

NEUROMUSCULAR SYNAPSES IN THE COCKROACH EXTENSOR TIBIAE MUSCLE.

H L Atwood T Smyth H S Johnston J Insect Physiol 15(4):529-535 REF

Apr 1969 421 J825

Electrophysiology, Insect morphology, Insect physiology, Muscles, Nervous system, Periplaneta

8701-69

THE ASEXUAL CYCLE OF A FILARIAL (WORM), SAUROSITUS AGAMAE HAMONI N. SSP. (EUFILARIINAE) IN ANOPHELES STEPHENSI. (FR)

O Bain

Acad Sci Compt Rend Ser D Sci Nat 268(20, 1ST SEMESTER):2439-2441 REF

19 May 1969 505 P21

Anopheles stephensi, Asexual reproduction, Filariasis, Nematodes.

8702-69

THE LEPIDOPTEROUS STALK BORERS OF RICE AND THEIR LIFE CYCLES IN THE TROPICS.

S N Banerjee L M Pramanik

Baltimore, John Hopkins Press. 103-124 REF 1967 SB608.R5S9

Inseet hehavior, Inseet pests, Larvae, Life cycle, Pupae, Pyralidae, Riee.

8703-69

ANALYSIS OF THE STRUCTURE OF THE PORE DUCTS IN THE FAVORABLE CASE OFFERED BY THE TEGUMENT OF GALLERIA MELLONELLA NYMPHS. (FR)

R Barbier

Acad Sci Compt Rend Ser D Sci Nat 268(19, 1ST SEMESTER):2364-2367 REF

12 May 1969 505 P21

Cuticle, Galleria mellonella, Insect morphology, Larvae.

THE ARTHROPOD CAVE FAUNA OF THE CARLSBAD CAVERNS REGION, NEW MEX-

T C Barr J R Reddell

Southwest Natur 12(3):253-274 MAP REF 31 Oct 1967 409.6 SO8

Cave fauna, Ecology, Insect behavior.

All invertebrates thus far identified from Carlshad Caverns and nearby caves, Eddy County, New Mexico, are arthropods. Bout 60 per cent of the species are apparently troglophiles two species are unquestionably troglohitic and 2 other species are possibly troglohitie. The caves are relatively dry and are situated in a semi-arid region, which probably accounts for the poor troglobitic fauna and high percentage of troglophiles. Many of the species are guanohites.

NUCLEIC ACID SYNTHESIS IN NURSE CELLS OF RHYNCHOSCIARA ANGELAE NONATO AND PAVAN, 1951.

R Basile

Genet Soc Amer Rec 61(1,PT 2,SUPPL):261-273 REF

1969 442.9 G28

Autoradiography, Development, Insect eggs, Nucleie acids, Rhynchosciara, Synthesis.

PRELIMINARY OBSERVATIONS OF ALPINE GRASSHOPPERS IN A HABITAT MODIFIED BY DEER AND CHAMOIS.

C. L. Batcheler

New Zeal Ecol Soc Proc (14):15-26 MAP REF Aug 1967 501 N48

Aerididae, Insect adaptation, Insect ecology, Population, Seasonal variation.

EFFECT OF SUBSTRATE TYPES ON AQUATIC INSECT DISTRIBUTION.

H. L. Bell

Minn Acad Sci J 35(2-3):79-81

1969 500 M663

Aquatic insects, Population, Soil series, Streams, Zoogeography.

The substrate preferences of aquatic insects in the Lester River, Minn. were analyzed through regular measurement of the standing crop. Most insects preferred a rubble substrate, then coarse gravel, hedroek, and coarse sand respectively.

MIXTURES OF DICHLORVOS, PYRETHRINS AND DIMETHRIN IN AEROSOLS FOR CONTROLLING HOUSEFLIES.

I V Bessonova F I Vashkov Y P Volkov Y B Zhuk V M Tsetlin

Int Pest Contr 11(2,MAR-APR):16-18

Mar 1969 79.8 P432

Diehlorvos, Dimethrin, Insect control, Insecticides, Insects, Musea domestica, Pyrethrum.

8709-69

VARIATION IN BEHAVIOR AMONG OBLIGATE ACACIA-ANTS FROM THE SAME COLONY (PSEUDOMYRMEX NIGROCINCTA). M L Beulig D H Janzen

Kans Entornol Soc J 42(1):58-67

Jan 1969 420 K13

Acaeia, Formicidae, Insect behavior, Population, Pseudomyrmex.

Movements of Pseudomyrmex nigrocineta were traced and compared on greenhouse plants of Acacia collinsii. Differences were noted among four ants in respect to total activity, area traveled, response to alarm, foraging, and frequency of encounters with other ants. Ant traffic was recorded over an 18-hour period past three points on the acacia trunk and found to vary in rate with time of day. Changes in ant density were recorded in one area over the same period.

8710-69

OCCULT VIRUSES IN INSECTS. (ABSTRACT). F T Bird

Fed Amer Soc Exp Biol Fed Proc 27(2):261 Mar 1968 442.9 F31P

Insect diseases, Larvae, Metamorphosis, Viruses.

THE SUBCOXA OF THE APHID HIND LEG (HOMOPTERA: APHIDIDAE).

T L Bissell

Entomol Soc Wash Proc 71(2):133-140

Jun 1969 420 W27

Aphididae, Homoptera, Insect anatomy, Insect morphology, Legs.

8712-69

BIOLOGY AND PHENOLOGY OF THE GRASSHOPPER DOCIOSTAURUS CURVICER CUS IN ISRAEL.

S A Blondheim A Shulov

Entomol Soc Amer Ann 62(4):881-885

Jul 1969 420 EN82

Aerididae, Insect biology, Insect eeology, Weather

8713-69

NATURALLY OCCURRING LOW-MOLECULAR-WEIGHT PEPTIDES FROM THE BLOWFLY PHORMIA REGINA.

R P Bodnaryk L Levenhook Biochem J 110(4):771-773 REF

Dec 1968 382 B52

Larvae, Molecular weight, Peptides, Phormia regina.

8714-69

ASYNCHRONOUS OVARIAN DEVELOPMENT IN THE HOUSEFLY, MUSCA DOMESTICA L. (DIPTERA: MUSCIDAE), CAUSED BY DIETA-RY GAMMA-AMINOBUTYRIC ACID (GABA). R P Bodnaryk P E Morrison

Compar Biochem Physiol 24(2):573-579 REF Feh 1968 444.8 C73

Amino acids, Development, Insect nutrition, Insect physiology, Musea domestica, Ovaries, Stimulants.

FEEDING RESPONSES BY HYLURGOPINUS RUFIPES TO COMBINED CHEMICAL AND PHYSICAL STIMULI.

T K Borg D, M, Norris

Entomol Soc Amer Ann 62(4):730-733

Jul 1969 420 EN82

Attractants, Feeding, Hylurgopinus rufipes, Insect behavior, Insect nutrition, Stimuli.

8716-69

A NEW RECORD FOR A PARASITE OF THE ALFALFA WEEVIL IN EASTERN UNITED STATES, ERIPLANUS MICATOR (GRAVEN-HORST) (HYMENOPTERA: ICHNEU-MONIDAE).

L W Boulanger

Entomol Soc Wash Proc 71(2):149-150

Jun 1969 420 W27

Biological control (insects), Curculionidae, Eriplanus micator, Hypera postica, Ichneu-monidae, Insect pests, Itopleetis conquisitor, Parasitic insects, Pupae, Zoogeography.

8717-69

THE ADAPTATION TO AQUATIC LIFE OF THE LARVAE OF MUANSA CLYPEALIS (HOMOPTERA, CICADIDAE). (FR)

M Boulard

Acad Sci Compt Rend Ser D Sci Nat 268(21, 1ST SEMESTER):2602-2604

28 May 1969 505 P21

Aquatic insects, Cicadidae, Insect adaptation, Inseet hehavior, Insect respiration, Larvae.

WESTERN CORN ROOTWORM: NORMAL LARVAE AND LARVAE MAXILLECTOMIZED WITH LASER RADIATION.

T.e Branson E E Ortman

Entomol Soc Amer Ann 62(4):808-812 REF Jul 1969 420 EN82

Chemoreceptors, Diabrotica virgifera, Food habits, Insect behavior, Larvae, Mouth parts.

THE MATURATION OF THE OOCYTES IN THE ISOLATED ABDOMEN OF LEUCOPHAEA MADERAE.

V J Brookes

J Insect Physiol 15(4):621-631 REF

Apr 1969 421 J825

Corpora allata, Development, Leucophaea maderae, Oogenesis, Tissue eulture, Tissue graft-

8720-69

CYCLOHEXIMIDE, AMINO ACID INCORPORATION AND LEARNING IN THE ISOLATED COCKROACH GANGLION.

B M Brown E P Noble

Biochem Pharmacol 17(11):2371-2374 REF

Nov 1968 396.8 B52

Amino acids, Blattidae, Cycloheximide, Ganglion cells, Periplaneta americana.

FIELD OBSERVATIONS ON THE PALES WEEVIL, HYLOBIUS PALES, IN THE SOUTH CAROLINA PIEDMONT.

A T Bullard R C Fox

Entomol Soc Amer Ann 62(4):722-723

Jul 1969 420 EN82

Hylobius pales, Insect biology, Insect migration.

8722-69

AN APPRAISAL OF HIGH, MEDIUM AND LOW VOLUME METHODS OF SPRAY APPLICA-TION.

J B Byass

Int Pest Contr 11(2,MAR-APR):19-27

Mar 1969 79.8 P432

Chemical control (insects), Chemicals, Crop yields, Pesticide residues, Spraying.

STUDY OF DIFFERENT TYPES OF ACTIVI-TIES RECORDED WITH CAPILLARY MICROELECTRODES IN THE LAST ABDOMINAL GANGLION TO THE COCKROACH, PERIPLANETA AMERICANA L.. (FR)

J Callee J Boistel

Paris Soc Biol Compt Rend 160(10):1943-1947 REF

20 Feb 1967 442,9 P21

Electrophysiology, Insect physiology, Nervous system, Periplaneta americana.

CYTOCHEMICAL STUDIES ON A COCCIDIAN, CHAGASELLA GANAPATII FROM A TERMITE, ODONTOTERMES OBESUS (RAM-BUR).

P N Canapati C Kalavati

Arch Protisten Kunde 111(1):82-86

1968 439.8 AR2

Carbohydrates, Chagasella ganapatii, Chemistry, Cytology, Lipids, Odontotermes Parasitism, Proteins, Research, obesus.

ENDOTOXINS FROM SEVERAL BACTERIAL SPECIES AS IMMUNIZING AGENTS AGAINST PSEUDOMONAS AERUGINOSA IN GALLERIA MELLONELLA.

J S Chadwick E Vilk

J Invertebrate Pathol 13(3):410-415 REF May 1969 421 J826

Endotoxins, Entomogenous bacteria, Galleria mellonella, Immunization, Insect physiology, Pseudomonas aeruginosa.

8726-69

INTEGUMENTAL ABSORPTION VERSUS ORAL INGESTION OF PHOSPHATE AND OTHER MATERIALS BY COMMON CATTLE GRUBS HELD IN VITRO.

W F Chamberlain C C Barrett O Graham Entomol Soc Amer Ann 62(4):843-846 Jul 1969 420 EN82

Cuticle, Hypoderma lineatum, Insect physiology, Mouth, Phosphates, Radioactive isotopes.

The intake of P32-labeled phosphate differed markedly in the 3 instars of larvae of Hypoderma lineatum (de Villers) (Diptera: Oestridae) during in vitro laboratory tests. Apparently the 1st-stage larvae absorbed all phosphate through the integument, the 2nd-stage larvae used both the percutaneous and oral routes, and the 3rd-stage larvae used the oral route exclusively.

A LIGHT MILL FOR STUDIES WITH THE MEXICAN FRUIT FLY.

D L Chambers T B O'Connell

Entomol Soc Amer Ann 62(4):917-920

Jul 1969 420 EN82

Anastrepha ludens, Flight activity, Insect flight, Insect rearing equipment, Sex behavior.

8728-69

THE DEVELOPMENT AND LA BEHAVIOR OF STIGMELLA MAL STAINTON. (LEP. STIGMELLIDAE). (FR) LARVAL MALELLA J-P Chambon

Soc Entomol France Bull 73(3/4,MAR-APR):51-

Apples, Insect behavior, Insect eggs, Insect morphology, Insect pests, Larvae, Plant hosts, Stigmella malella, Stigmellidae.

8729-69

FREE AND PEPTIDE-BOUND AMINO ACIDS DURING THE LARVAL AND PUPAL STAGES OF THE YELLOW-FEVER MOSQUITO, AEDES AEGYPTI.

R L Chaput J N Liles

Entomol Soc Amer Ann 62(4):742-747 REF

Jul 1969 420 EN82

Aedes aegypti, Amino acids, Inseet biochemistry, Larvae, Pupac.

THE PRODUCTION OF CUTICLE WAX BY EN-GORGED FEMALES OF THE CATTLE TICK, BOOPHILUS MICROPLUS (CANESTRINI).

L. M Cherry

J Exp Biol 50(3):705-709 REF

Jun 1969 442.8 B77

Boophilus microplus, Cuticle, Inseet physiology, Oogenesis, Oviposition.

RESISTANCE TO TELODRIN IN THE GER-MAN COCKROACH, BLATTELLA GER-MANICA.

D G Cochran M H Ross

J Sci Food Agr 15(12)'11-294-2

Dec 1964 382 SO12

Blattella germanica, Chlordane, Dieldrin, DDT, Insecticide resistant insects, Telodrin.

CORN STUNT VECTOR LEAFHOPPER ATTRACTANCY TO AND OVIPOSITION PREFERENCE FOR HYBRID DENT CORN. I. DALBULUS MAIDIS.

H L Collins H N Pitre

Entomol Soc Amer Ann 62(4):770-772 REF Jul 1969 420 EN82

Corn, Crop varieties, Dalbulus maidis, Insect vectors, Oviposition, Plant disease resistance, Stunt, Virus diseases (plants).

Results from a series of attractancy and oviposition tests conducted in a field eage in which Dalbulus maidis (Delong Wolcott) (Homoptera: Cieadellidae) was given free choice of corn hybrids indicated that this predator of corn stunt virus apparently does not prefer corn-stuntsusceptible hybrids over hybrids exhibiting resistance.

8733-69

ESTERASES AND PHOSPHATASES IN THE GASTRIC SECRETION OF THE COCKROACH, PERIPLANETA AMERICANA.

B J Cook D R Nelson P Hipps J Insect Physiol 15(4):581-589 REF

Apr 1969 421 J825

Electrophoresis, Esterases, Gastrointestinal system, Insect biochemistry, Insect physiology, Periplaneta americana, Phosphatases.

NERVE-BLOCKING EFFECT OF BACILLUS THURINGIENSIS PROTEIN TOXIN

K E Cooksey C Donninger J R Norris D Shankland

J Invertebrate Pathol 13(3):461-462

May 1969 421 J826

Bacillus thuringiensis, Insect physiology, Nervous system, Proteins, Toxicology, Toxins.

8735-69

LIVING DOORS.

W S Creighton

Natur Hist 76(10):71-73

Dec 1967 500 N483J Blattidae, Camponotus, Cryptoeerus, Inseet behavior, Insect biology, Insect protective devices.

ANOMALOUS DIMORPHISM IN AEDES VEX-ANS.

E W Cupp H W Fowler

Entomol Soc Amer Ann 62(4):914-917 REF Jul 1969 420 EN82

Acdes vexans, Insect genetics, Insect morphology, Polymorphism, Temperature.

WETANEMA HULA N. GEN. ET SP., A NE-MATODE FROM THE WETA HEMIDEINA THORACICA (WHITE).

New Zealand J Sci 10(2):402-406

Jun 1967 514 N482

Insect diseases, Nematodes, Orthoptera, Taxono-

The new genus Wetanema is crected within the Thelastomatidae to accomodate a new species of nematode W. hula, from the intestine of the largeheaded weta, Hemideina thoracica (Orthoptera; Stenopelmatidae). W. hula is the first thelastomatid nematode to be recorded of the superfamily Tettgonoidea, it is sometimes accompanied, within the host, by male nematodes of the genus Cephalobellus.

8738-69

BIOLOGY OF MELICHARES TARSALIS IN AS-SOCIATION WITH PLODIA INTERPUNCTEL-

P H Darst E W King

Entonuol Soc Amer Ann 62(4):747-749

Jul 1969 420 EN82

Insect behavior, Insect biology, Melichares, Oviposition, Plodia interpunctella, Sex behavior.

MARKING ADULT BOLL WEEVILS WITH DYES FED IN A COTTONSEED OIL BAIT.

R J Daum R T Gast T B Davich

J Econ Entomol 62(4):943-944

15 Aug 1969 421 J822

Anthonomus grandis, Baits, Cottonsced oil, Dyes, Imagos, Insect biochemistry, Labeling.

8740-69

HOW DIFFERENT ARE THE EASTERN AND WESTERN FORMS OF THE ALFALFA WEEVIL .

D W Davis

Utah Acad Sci Arts Lett Proc 44(1):353-357 1967 500 UT1

Hypera postica, Insect adaptation, Insect hehavior, Insect taxonomy, Zoogeography.

GLUTAMIC ACID REQUIREMENTS OF THE SAW-TOOTHED BEETLE. GRAIN ORYZAEPHILUS SURINAMENSIS (COLEOPTERA, SILVANIDAE).

G R F Davis

Compar Biochem Physiol 24(2):395-401 REF Feh 1968 444.8 C73

Aspartic acid, Cytosine, Glutamic acid, Guanine, Insect nutrition, Insect physiology, Oryzaephilus surinamensis, Putrescine.

8742-69

HUMORAL AND NERVOUS PATHWAYS IN PHOTOPERIODIC INDUCTION OF DIAPAUSE IN LEPTINOTARSA DECEMLINEATA.

J De Wilde J A De Boer

J Insect Physiol 15(4):661-675 REF

Apr 1969 421 J825

Hemolymph, Insect physiology, Leptinotarsa decemlineata, Nervous system, Photoperiodism.

8743-69

EFFECT OF DDT ON INCORPORATION OF C14-LABELED GLUCOSE INTO PROTEIN AND SOLUBLE INTERMEDIATES OF NYMPHAL TRIATOMA INFESTANS.

E Del Villar D Mosnaim

Exp Parasitol 21(2):186-194 REF

Oct 1967 436.8 EX7

Amino acids, Carbon isotopes, DDT, Glucose, Insect metabolism, Insecticide resistant insects, Insecticides, Nymphs, Proline, Proteins, Radioactive tracers, Triatoma infestans, Tricarboxylic acid cycle.

Abstract: Third and fourth instar larvae differ in their tolerance to DDT, the latter being more resistant to the insecticide. The labeling pattern of

protein amino acids indicates the presence of an active Krebs cycle in these insects which is apparently inhibited by DDT only in third instar lar-

8744-69

REARING PHRYXE CAUDATA ROND. (LAR-VAEVORIDAE), A PARASITE OF THAU-METOPOAEA PYTOCAMPA SCHIFF, ON AN ALTERNATE HOST: GALLERIA MELLONEL-LA. (FR)

B Delobel P Laviolette

Acad Sci Compt Rend Ser D Sci Nat 268(20, 1ST SEMESTER):2436-2438

19 May 1969 505 P21

Galleria mellonella, Insect biology, Insect rearing, Parasitic insects, Tachinidae.

8745-69

NUCLEIC ACID IN INTACT NUCLEAR POLYHEDRAL BODIES ISOLATED FROM VIRUS-INFECTED FALL ARMYWORM, SPODOPTERA FRUGIPERDA.

E M Dougherty R M Faust

J Invertebrate Pathol 13(3):459-460

May 1969 421 J826

Biochemistry, Deoxyrihonucleic Polyhedroses, Rihonucleic acid, Spodoptera frugiperda.

8746-69

THE EXISTENCE OF TWO OPTIONAL DIAPAUSES IN THE BIOLOGICAL CYCLE OF VILLA BRUNNEA BECK. (DIPT., BOM-BYLIIDAE). (FR) P Du Merle

Acad Sci Compt Rend Ser D Sci Nat 268(20, 1ST SEMESTER):2433-2435

19 May 1969 505 P21

Bomhyliidae, Insect biology, Insect physiology, Life cycle, Metamorphosis, Villa.

A NEW SPECIES OF THE GENUS PEGOSOMUM RATZ, 1903 (TREMATODA: ECHINOSTOMATIDAE).

M P Dwivedi

Natur Appl Sci Bul 20(3,JUL-SEP):259-265 Jul 1967 475 P532

Birds, Parasitism, Trematoda.

CHARACTERS FOR DETERMINING SEX OF PUPAE OF THE OAKWORMS ANISOTA SENA-TORIA, A. STIGMA, AND A. VIRGINIENSIS, AND THE YELLOW-NECKED CATERPILLAR, DATANA MINISTRA.

F T Ehrlich R T Franklin R N Coulson Entomol Soc Amer Ann 62(4):931-932 Jul 1969 420 EN82

Anisota, Anisota senatoria, Datana ministra, Insect identification, Insect morphology, Pupae.

8749.69

LIFE ON THE STICKY SUNDEW.

T Eisner

Natur Hist 76(6,JUN-JUL):32-35

Jul 1967 500 N483J

Insect behavior, Insect biology, Pterophoridae.

FEMALE SPECIFIC PROTEIN: BIOSYNTHESIS CONTROLLED BY CORPUS ALLATUM IN LEUCOPHAEA MADERAE.

F Engelmann

Science 165(3891):407-409 REF

25 Jul 1969 470 SCI2

Insect eggs, Leucophaea maderae, Proteins, Reproduction.

LANNATE - A NEW INSECTICIDE FOR THE CONTROL OF THE GIANT LOOPER AND OTHER PESTS.

D E Evans

Planters Chron 63(20):381-382

15 Oct 1968 22 P693

Accident prevention, Chemical control (insects), Coffee, Insect pests, Insecticides, Leaf miners, N-((methylcarbamoyl)oxy)thioaceti Methyl midate, S-, Tingidae.

8752-69

THE NATURAL CONTROL OF THE APPLE-GRASS APHID, RHOPALOSIPHUM INSER-TUM, WITH REMARKS ON THE CONTROL OF APPLE APHIDS IN THE NETHERLANDS IN GENERAL.

H H Evenbuis

Neth J Plant Pathol 74(4):106-117 REF

1968 464.8 T44

Aphididae, Apples, Biological control (insects), Hyperparasitism, Insect biology, Insect pets, Insect physiology, Monoctonus, Parasitic insects, Population, Predaceous insects, Rhopalosiphum insertum, Weather, Zoogeography. Dutch summary.

8753-69

DISTRIBUTION AND EMERGENCE PATTERNS OF MAYFLIES EPHEMERA SIMULANS (EPHEMEROPTERA: EPHEMERIDAE).

C R Fremling G P Klock

Minn Acad Sci J 35(2-3):102-103 MAP

1969 500 M663

Ephemera simulans, Insect emergence, Surveys, Zoogeography.

THE FINE STRUCTURE OF BABESIA OVIS (PIROPLASMIDEA) IN RHIPICEPHALUS BURSA (IXODOIDEA); TRANSFORMATION OF SPHERICAL FORMS TO VERMICULES. (GE)

K Friedhoff E Scholtyseck

Z Parasitenk 30(4):347-359 REF 26 Jul 1968 442.8 Z33F

Animal physiology, Bahesia ovis, Biology, Insect vectors, Ixodidae, Ixodides, Morphology, Nematodes, Ovaries, Parasitism, Piroplasmosis, Rhipicephalus hursa. English summary

SEXUAL DIFFERENCE IN THE ACTIVITY OF PARS INTERCEREBRALIS-CORPUS CAR-DIACUM-CORPUS ALLATUM SYSTEM OF BOMBYX MORL (FR)

S Fukuda S Takeuchi Paris Soc Biol Compt Rend 161(5):1174-1177 25 Nov 1967 442.9 P21

Bombyx mori, Brain, Corpora allata, Corpora cardiaca, Endocrine glands, Insect physiology, Sex.

8756-69

THE ACTION OF ACTINOMYCIN D ON THE PIGMENTATION OF ALBINO MUTANTS OF THE LOCUST LOCUSTA MIGRATORIA CINERASCENS L. (ORTHOP.). (FR) S Fuzeau-Braesch

Acad Sci Compt Rend Ser D Sci Nat 268(20, 1ST SEMESTER):2479-2482

19 May 1969 505 P21

Actinomycin D, Insect mutation, Insect physiology, Locusta migratoria, Pigments (insect).

THE ACTION OF TEPA ON THE ADULTS OF DACUS OLEAE GMEL. (DIPTERA: TEPHRITIDAE) AS A FUNCTION OF THE QUANTITY OF THE CHEMOSTERILANT USED, (FR)

E Fytizas

Inst Phyto Pathol Benaki Ann 8(1):32-46 REF 1967 464.9 AT4

Biological control (insects), Chemical control (insects), Chemosterilants, Cochliomyia hominivorax, Dacus oleae, Dosage, Experimental insects, Insect genetics, Mortality, Tepa, Tephritidae, Toxicity.

MODE OF ENTRY OF CONTACT INSECTI-CIDES.

P Gerolt

J Insect Physiol 15(4):563-580 REF

Apr 1969 421 J825

Autoradiography, Cuticle, Dieldrin, Insect physiology, Insecticides, Nervous system, Toxicology, Trachea.

8759-69

THE EXISTENCE OF LYSOSOMIC INCLUSIONS IN THE ADIPOSE CELLS OF PERIPLANETA AMERICANA (BLATTIDAE). (FR)

I D Gharagozlou

Acad Sci Compt Rend Ser D Sci Nat 268(20, 1ST SEMESTER):2455-2457 REF

19 May 1969 505 P21

Cytology, Fat body, Lysosomes, Periplaneta americana.

8760-69

MORPHOLOGY AND DEVELOPMENT OF AN OCCULUDED VIRUS FROM THE BLACK-SOIL SCARAB, OTHNONIUS BATESI.

R H Goodwin B K Filshie

J Invertebrate Pathol 13(3):317-329 REF

May 1969 421 J826

Electron microscopy, Physiology, Scarahaeidae.

Particles of a virus occluded in spheroidal protein crystals, similar to those of Vagoiavirus melolonthae of Melolontha melolontha, have been found in Othnonius batesi (scarabacidae: Melolonthi nac) collected from Glenn Innes, New South Wales, Australia. Macroscopic and microscopic disease signs were noted. The structure of virus particles within protein crystals has been studied by electron microscopy. A developmental eyele for the virus is proposed, based on observations of thin sections of fat body taken from living diseased specimens. It is proposed that viruses of this type should be called pheroidosis virus.

AN ARTIFICIAL DIET FOR THE ADULT JAPANESE BEETLE.

H F Goonewardene J E McKay

J Econ Entomol 62(4):964

15 Aug 1969 421 J822 Imagos, Insect nutrition, Ovulation, Popillia japonica.

8762-69

PHOSPHOMONDESTERASE
WITH THE PROCESS ALKALINE ASSOCIATED WITH THE BROCHOSOMES IN THE MAL-PIGHIAN TUBULES OF CICADELLA VIRIDIS LIN. (HOMOPTERA). (FR)

J Gouranton

Paris Soc Biol Compt Rend 161(4):907-909

24 Oct 1967 442.9 P21

Cicadellidae, Inseet hiochemistry, Malpighian tubes, Phosphatases.

8763-69

ON THE PRODUCTION OF LIPOPROTEIC CORPUSCULES BY THE MALPIGHIAN TUBES IN SOME INSECTS. (FR)

J Gouranton P L Maillet

Paris Soc Biol Compt Rend 160(8-9):1724-1726

04 Fcb 1967 442.9 P21

Cicadellidae, Electron microscopy, Insect physiology, Lipoproteins, Malpighian tubes, Membracidae.

8764-69

TOXICITY OF OUABAIN (G-STROPHANTHIN) TO ADULT HOUSE FLIES.

A Grasso G Majori

J Econ Entomol 62(4):944-945

15 Aug 1969 421 J822

Glycosides, Imagos, Mortality, Musca domestica, Ouahain.

8765-69

BIOASSAY, PRELIMINARY PURIFICATION, AND EFFECT OF AGE, CROWDING, AND MATING ON THE RELEASE OF SEX PHEROMONE BY FEMALE TENEBRIO MOLITOR.

G M Happ J Wheeler

Entomol Soc Amer Ann 62(4):846-851

Jul 1969 420 EN82

Aging, Biological assay, Insect behavior, Insect biochemistry, Insect physiology, Pheromones, Sex behavior, Tenebrio molitor.

DISPERSION OF RELEASED WHITE-PINE WEEVILS IN INTRASTAND GROWTH TYPES. D M Harman H M Kulman

Entomol Soc Amer Ann 62(4):835-838

Jul 1969 420 EN82

Insect dissemination, Insect ecology, Pinus, Pissodes strobi, Soil-plant-animal relations

Differences in rate of occurrence of released Pissodes strobi were manifest between bare soil, partial competition, and heavy shade cover types in a white pine plantation. Statistical analysis inferred that weevil occurrence was greatest in the partial competition cover type, followed in descending order by bare soil and heavy shade cover types.

SEED-CORN MAGGOT RESISTANCE TO AL-DRIN IN ILLINOIS.

C R Harris

J Econ Entomol 62(4):957-958

15 Aug 1969 421 J822

Aldrin, Carhofuran, Chlordane, Chlorinated hydrocarhons, Diazinon, Dieldrin, Disulfoton, DDT, Hylemya platura, Insecticide resistant insects, Lindane, Organophosphorus compounds, Phorate. Several experimental organophosphorus insecticides were included in the tests.

USE OF A GENETICALLY MARKED STRAIN TO EVALUATE THE RETENTION OF MARK-ING DYES BY RELEASED SCREW-WORM FLIES.

B G Hightower C C Dawkins

J Econ Entomol 62(4):966-967

15 Aug 1969 421 J822

Cochliomyia hominivorax, Dyes, Fluorescent dyes, Insect genetics, Labeling.

8769-69

STRIDULATORY FILES AS DIFFRACTION GRATINGS IN MUTILLID WASPS.

H E Hinton D F Gibhs R Silberglied J Insect Physiol 15(4):549-552

Apr 1969 421 J825

Insect morphology, Insect physiology, Light, Mutillidae, Stridulation.

8770-69

LABORATORY REARING OF SPALANGIA (HYMENOPTERA: NIGROAENEA PTEROMALIDAE).

C E Hoelscher R L Combs

Fla Entomol 55(2):103-105

May 1969 420 F662

Biological control (insects), Diptera, Insect rearing, Methodology, Pteromalidae.

A laboratory colony of Spalangia nigroaenea Curtis has been established to rear parasitoids in larger numbers than can be field collected. Sufficient parasitoids are being produced for various biological studies. This rearing procedure could be em-ployed for studying other related species, or with modifications could he the basis for developing a biological control technique for various pest species of Diptera.

8771-69

THE ACTION OF THE ENDOCRINE SYSTEM AND THE OVARY ON THE HEMOGRAM OF LOCUSTA MIGRATORIA L. (ORTHOPTERA). THE ROLE OF THE VENTRAL GLAND. (FR) J A Hoffman M Perolini

Acad Sci Compt Rend Ser D Sci Nat 268(20, 1ST SEMESTER):2469-2471

19 May 1969 505 P21

Endoerine glands, Glands (insects), Hemograms, Insect physiology, Locusta migratoria, Ovaries.

LIFE HISTORY OF THE BOLL WEEVIL IN FIELD CAGES.

A R Hopkins H M Taft W James

J Econ Entomol 62(4):964-965

15 Aug 1969 421 J822

Anthonomus grandis, Cotton, Hibernation, Insect behavior, Insect biology, Insect physiology.

CYTOPATHOLOGY NUCLEOPOLYHEDROSIS OF THE BEET AR-MYWORM, SPODOPTERA EXIGUA.

D K Hunter I M Hall

J Invertebrate Pathol 12(1):93-97

Oct 1968 421 J826

Cell nucleus, Cells, Cytopathology, Electron microscopy, Fat hody, Larvae, Noetuidae, Nuclear polyhedrosis virus, Spodoptera exigua, Tissue eulture, Virus diseases (inseets).

PATHOGENICITY OF A NUCLEAR-POLYHEDROSIS VIRUS OF THE BEET AR-MYWORM, SPODOPTERA EXIGUA.

D K Hunter I M Hall

J Invertebrate Pathol 12(1):83-85

Oct 1968 421 J826

Biochemistry, Biological assay, Diet, Dosage, Experimental insects, Larvae, Noctuidae, Nuclear polyhedrosis virus, Spodoptera exigua, Tables (data), Virus diseases (insects).

TIME REQUIRED FOR DEVELOPMENT OF VORIA RURALIS AND ITS HOST, THE CABBAGE LOOPER, AT DIFFERENT TEM-PERATURES.

C G Jackson G D Butler D E Bryan

J Econ Entomol 62(1):69-70

17 Feb 1969 421 J822

Experimental insects, Insect morphology, Insect physiology, Temperature, Time, Trichoplusia ni, Voria ruralis.

8776-69

PHYTOPHAGOUS GROUND BEETLES.

N E Johnson R S Cameron

Entomol Soc Amer Ann 62(4):909-914 REF Jul 1969 420 EN82

Carabidae, Food hahits, Insect hehavior, Phytophagous insects, Surveys.

This paper attempts to put in proper perspective long-known hut often phytophagous nature of many Carabidae (Colcoptera). More than 150 species are known to use vegetable matter as food in varying degrees, with some species using it almost exclusively. Included are laboratory and field observations on the feeding hehavior of 14 species of carahids found on golf courses in New York State.

HYDROCARBON METABOLISM IN INSECTS: OXIDATION OF HEXADECANE-1-C14 IN THE BOLL WEEVIL AND THE HOUSE FLY.

Entomol Soc Amer Ann 62(4):891-894 REF Jul 1969 420 EN82

R L Joiner E N Lambremont

Anthonomus grandis, Hydrocarbons, Insect hiochemistry, metabolism, Insect Musca domestica, Radioactive tracers.

8778-69

ETIELLA ZINCKENELLA TREIT-A POD BORER PEST OF CROTALARIA ANAGY-ROIDES H.B.K.

N N Kakoty

Tocklai Exp Sta Newslett 15(2):75

Jun 1968 68.18 T93

Caterpillars, Crotalaria anagyroides, Etiella zinckenella, Insect cultures, Insect morphology, Inseet physiology, Plant injuries, Seed analysis, Tahles (data).

THE ROLE OF GAMMA-AMINOBUTYRIC ACID IN MOSQUITO-HOST INTERACTIONS: A HYPOTHESIS.

P Kashin

Entomol Soc Amer Ann 62(4):695-702 REF Jul 1969 420 EN82

BIBLIOGRAPHY

8780-69

Culicidae, Insect behavior, Insect metabolism, Mammals, Sti mulants.

8780-69

LIFE HISTORY OF UPIS CERAMBOIDES AT FAIRBANKS, ALASKA.

T Kaufmann

Entomol Soc Amer Ann 62(4):922-923

Jul 1969 420 EN82

Hibernation, Insect biology, Life cycle, Temperature, Tenebrionidae.

8781-69

IMMUNOFLUORESCENCE STUDIES ON THE MULTIPLICATION OF CYTOPLASMIC-POLYHEDROSIS VIRUS OF THE SILKWORM, BOMBYX MORL

S Kawhse S Miyajima

J Invertebrate Pathol 13(3):330-336 REF

May 1969 421 J826

Bombyx mori, Fluorescent antibody technic, Immunodiagnosis, Polyhedroses, Proteins.

8782-69

FIELD EVALUATION OF THREE GRANULAR SYSTEMIC INSECTICIDES FOR CONTROL OF THE APHIDS EULACHNUS AGILIS AND CINARA PINEA ON SCOTCH PINE.

W H Kearby M Bliss

J Econ Entomol 62(1):60-62

17 Feb 1969 421 J822

Chemical control (insects), Cinara pinea, Disulfoton, Eulachnus agilis, Insecticides, Pinus sylvestris.

8783-69

NOTES ON BIOLOGY OF CLERID BEETLES THAT ATTACK IPS SPP. IN UPPER SOUTH CAROLINA.

W E King R C Fox

Entomol Soc Amer Ann 62(4):924-925

Jul 1969 420 EN82

Cleridae, Insect biology, Ips, Predaecous insects.

8784-69

CONCERNING THE VALIDITY OF THE CAPTURE RESULTS OF INSECT TRAPS, TOGETHER WITH AN ATTITUDE TOWARD THE WORK OF H. PETERS, HEIDELBERG, ON SYNANTHROPIC FLIES, (GE)

E Kirchberg

Deut Entomol Z 16(1-3):131-139

01 May 1969 421 D48

Insect collecting equipment, Insect traps, Methodology, Statistics, Surveys.

8785-69

BIONOMIC NOTES ON THE SOLITARY EVYLAEUS OENOTHERAE (STEVENS) (HYMENOPTERA: HALICTINAE), A MATINAL SUMMER BEE VISITING CULTIVATED ONAGRACEAE.

G Knerer P MacKay

Can J Zool 47(3):289-294 REF

May 1969 470 C16D

Feeding, Halictidae, Hibernation, Insect behavior, Insect ecology, Insect nests, Lasioglossum ocnotherae, Onagraceae.

8786-69

ACETYLCHOLINESTERASE POLYMORPHISM IN THE FACE FLY (DIPTERA; MUSCIDAE).

C O Knowles S K Arurkar

Kans Entomol Soc J 42(1):39-45 REF

Jan 1969 420 K13

Acetylcholinesterases, Electrophoresis, Insect biochemistry, Muscidae, Polymorphism.

Multiple forms of the face fly head acetyleholinesterase (AChE) were resolved electrophoretically in aerylamide gel. Three soluble zones were present: however, the major portion of the AChE was associated with various particulate centrifugal fractions and was extractable with the detergent Triton X-100.

8787-69

ON THE BIONOMICS OF THE CLEARWING CHAMAESPHECIA COLPIFORMIS (STAUDINGER, 1850) (LEPIDOPTERA, SESIIDAE). (GE M Kralicek

Acta Ent Bohemoslov 64(3):236-237 1967 420 C33

Acgeriidae, Insect behavior, Insect ecology. English and Czech abstracts.

8788-69

CHEMOSENSORY RELATIONSHIP BETWEEN EPILACHNA VIGINTIOCTO-PUNCTATA AND ITS HOST PLANT, LUFFA AEGYPTIACA.

S S Krishna A K Sinha

Entomol Soc Amer Ann 62(4):928-929

Jul 1969 420 EN82

Chemoreceptors, Cucurbitaceae, Epilachna, Food habits, Insect behavior.

8789-69

THE UNNATURAL HISTORY OF THE ANT LION.

J W Krutch
Natur Hist 77(3):14-16,18,20

Mar 1968 500 N483J

History, Literature, Myrmeleontidae.

8790-69

ON THE SCHIZOPHYTA-LIKE APPEARANCE OF THE FLAGELLA OF TERMITE SYMBIONTS. (FR)

A Lavette

Acad Sci Compt Rend Ser D Sci Nat 268(21, 1ST SEMESTER):2585-2587

28 May 1969 505 P21

Bacteria, Flagella, Morphology, Symbiosis, Termites.

8791-69

SOME OBSERVATIONS ON THE MORPHOLOGY AND HISTOLOGY OF THE ALIMENTARY CANAL OF THE FRUIT-SUCKING MOTH SERRODES INARA CRAM. (LEPIDOPTERA: NOCTUIDAE).

D S Le Grice

S Afr J Agr Sci 11(4):789-796

Dec 1968 24 SU3

Gastrointestinal system, Insect histology, Insect morphology, Serrodes.

8792-69

EGG MATURATION IN MOSQUITOES NOT REGULATED BY THE CORPORA ALLATA.

O Lea

J Insect Physiol 15(4):537-541

Apr 1969 421 J825

Acdes aegypti, Corpora allata, Culex pipiens, Hormones, Oogenesis.

8793-69

DEVELOPMENTAL INHIBITION IN DROSO-PHILA USING DIHYDROXYBENZOIC ACID ISOMERS.

W C Levengood R Damrauer

J Insect Physiol 15(4):633-641 REF

Apr 1969 421 J825

Drosophila melanogaster, Hormones, Inhibitors, Insect biochemistry, Insect physiology, Isomers.

8794-69

ECOLOGICAL RESEARCH IN THE LAMTO SAVANNAH (IVORY COAST): PRELIMINARY DATA ON THE POPULATIONS OF TERRESTRIAL ANTS. (FR

J Levieux

Terre Vie (3.JUL-SEP):278-296 REF

Sep 1967 410.9 P21

Formicidae, Insect ecology, Population, Surveys. English abstract.

3795-69

ASCORBIC ACID AND UNSATURATED FATTY ACIDS IN THE NUTRITION OF THE EGYPTIAN COTTON LEAFWORM, PRODENIA LITURA.

H Z Levinson A Navon
J Insect Physiol 15(4):591-595 REF

Apr 1969 421 J825

Ascorbic acid, Fatty acids, Insect nutrition, Insect physiology, Prodenia litura.

8796-69

THE MANDIBLES OF TWO SOUTH AMERICAN GRASSHOPPERS. (SP)

J Liebermann

Argent Secretar Estad Agr Ganad Publ Tec 5(5):53-6

Jul 1968 464.9 AR325

Insect anatomy, Insect behavior, Insect nutrition, Orthoptera. English summary.

8797-69

STUDIES ON LARVAL DEVELOPMENT IN CU-LICOIDES FURENS (POEY) (DIPTERA: CERATOPOGONIDAE). I. ESTABLISHMENT OF A STANDARD REARING TECHNIQUE.

J R Linley

Entornol Soc Amer Ann 62(4):702-711 REF

Jul 1969 420 EN82 Culicoides furens, Insect nutrition, Insect physiology, Insect rearing, Methodology.

8798-6

ALATE APHIDS TRAPPED OVER 8 YEARS AT TWO SITES IN CANTERBURY, NEW ZEALAND.

A D Lowe

New Zeal J Agr Res 11(4):829-848 REF

Nov 1968 23 N4892

Aphididae, Grain, Insect control, Insect pests, Insect traps, Population, Potatoes, Statistical distributions, Vegetables, Zoogeography.

3799-69

THE INCIDENCE OF PARASITISM AND DISEASE IN SOME POPULATIONS OF THE CABBAGE APHID, (BREVICORYNE BRASSICAE L.) IN NEW ZEALAND.

A D Lowe

New Zeal J Agr Res 11(4):821-828

Nov 1968 23 N4892

Aphididae, Brevieoryne brassicae, Cabbage, Entomogenous fungi, Entomophthora, Insect discases, Insect ecology, Insect pests, Insect rearing, Parasitic insects, Population, Zoogeography.

8800-69

SIMULTANEOUS INFECTION WITH THE NUCLEOPOLYHEDROSIS AND GRANULOSIS VIRUSES OF TRICHOPLUSIA NI.

R E Lowe J D Paschke

J Invertebrate Pathol 12(1):86-92 REF

Oct 1968 421 J826

Dosage, Experimental insects, Granuloses, Larvae, Mortality, Nuclear polyhedrosis virus, Tables (data), Trichoplusia ni, Virus diseases (insects).

8801-69

HEAT EFFECTS ON THE INFECTIVITY OF THE NUCLEAR POLYHEDROSIS VIRUS OF HELIOTHIS SPP.

J J MacFarlane L L Keeley J Econ Entomol 62(4):925-929 REF

15 Aug 1969 421 J822 Heat, Heliothis virescens, Heliothis zea, Polyhedroses, Temperature.

0002.60

SEXUAL CHARACTERS OF THE INSTARS OF BLABERUS DISCOIDALIS AND AN ANALYSIS OF GROWTH IN THIS COCKROACH.

T R Manley

Entomol Soc Amer Ann 62(4):734-737

Jul 1969 420 EN82

Blaberus discoidalis, Insect physiology, Metamorphosis, Sex.

8803-69

THE RAIDING BEHAVIOR OF POLYERGUS LUCIDUS LUCIDUS IN CENTRAL ILLINOIS (HYMENOPTERA: FORMICIDAE).

J C Marlin

Kans Entomol Soc J 42(1):108-115

Jan 1969 420 K13

Formicidae, Insect behavior.

FLUCTUATIONS IN NATURAL POPULATIONS OF DROSOPHILA WITH SPECIAL ATTEN-TION TO SEX RATIO.

J C Martin R Stevenson

W Va Acad Sci Proc 39:279-286 MAP REF 1967 500 W52

Drosophila, Environment, Population, Sex, Statistieal analysis.

HISTOPATHOLOGICAL DATA ON AMOEBIA-SIS IN ACRIDIDAE. (FR)

R Martoja

Acad Sci Compt Rend Ser D Sci Nat 268(20, 1ST SEMESTER):2442-2445 REF 19 May 1969 505 P21

Aerididae, Amebiasis, Insect diseases.

STUDIES ON CHRYSANTHEMIC ACID. PART XVIII. A NEW BIOLOGICALLY ACTIVE ACID COMPONENT RELATED TO CHRYSANTHEMIC ACID.

M Matsui T Kitahara

Agr Biol Chem 31(10):1143-1150

Oct 1967 385 AG8B

Allethrin, Chemical structure, Culicidae, Insectieides, Musea domestica, Pyrethrum, Tetramethyl-cyclopropancearboxylic acid, 2,2,3,3-.

8807-69

A DIFFERENTIAL STAINING TECHNIQUE FOR A MOSQUITO IRIDESCENT VIRUS.

J F Matta R E Lowe

J Invertebrate Pathol 13(3):457-458

May 1969 421 J826

Acdes tacniorhynchus, Histology, Methodology, Mosquito iridescent virus, Staining.

CONTROL OF HAEMOLYMPH LIPID CON-CENTRATION DURING LOCUST FLIGHT: AN ADIPOKINETIC HORMONE FROM THE COR-PORA CARDIACA.

R J Mayer D J Candy

J Insect Physiol 15(4):611-620 REF

Apr 1969 421 J825

Corpora allata, Hemolymph, Insect hiochemistry, Insect flight, Insect hormones, Lipids, Schistocerea

FATTY ACIDS, METHYL ESTERS AND IN-SECT GROWTH.

J E McFarlane

Compar Biochem Physiol 24(2):377-384 REF

Feh 1968 444.8 C73

Esters, Fatty acids, Growth factors, Gryllodes sigillatus, Insect physiology.

TWO JUVENILE HORMONES IN CECROPIA SILK MOTH.

A S Meyer H A Schneiderman E Hanzmann Fed Amer Soc Exp Biol Fed Proc 27(2):393 Mar 1968 442,9 F31P

Hormones, Hyalophora еесторіа, Insect biochemistry, Insect physiology, Methionine, Mevalonate kinase, Spectroscopy.

THE VARIED FARE OF THE HONEYBEE.

R A Morse

Natar Hist 78(6,JUN-JUL):58-65 .

Jul 1969 500 N483J

Apiculture, Apis mellifera, Food plants, Honey, Insect nutrition.

8812-69

TRAILS OF THE LEAFCUTTERS.

Natar Hist 76(1):33-35 Jan 1967 500 N483J

Atta, Atta texana, Insect ecology, Pheromones, Scent glands, Zoogeography.

8813-69

A RED, FLUORESCENT PROTEIN FROM SILKWORM.

J Mukai J Inouye S Akune Agr Biol Chem 33(1):125-127 Jan 1969 385 AG8B

Bombyx mori, Larvae, Proteins, Rice.

TRITHION-A NEW ACARICIDE.

T D Mukeriea

Tocklai Exp Sta Newslett 15(2):53-60

Jun 1968 68.18 T93

Acaricides, Carbophenothion, Chemical control (insects), Insect control, Insect pests, Insecticides, Manufacturing costs, Mites, Organophosphorus compounds, Pesticide residues, Phytotoxicity, Spraying, Tables (data), Tea, Tetranychidae.

GEL ELECTROPHORESIS DEHYDROGENASES FROM FLIGHT MUSCLES OF TSETSE FLIES (GLOSSINA MORSITANS) AND HOUSEFLIES (MUSCA DOMESTICA).

J Muus

Compar Biochem Physiol 24(2):527-536 REF

Feb 1968 444.8 C73

Dehydrogenases, Electrophoresis, Flight, Glossina morsitans, Insect biochemistry, Musca domestica,

8816-69

DIFFERENTIATION OF PARASITIZED AND UNPARASITIZED PUPAE OF THE MELON FLY AND ORIENTAL AND MEDITERRANEAN FRUIT FLIES.

S Nakagawa R T Cunningham G J Farias

J Econ Entomol 62(4):970-971

15 Aug 1969 421 J822

Biological control, Ceratitis capitata, Daeus cucurbitac, Daeus dorsalis, Fruit, Melons, Opius, Parasitie inseets, Pupae.

OBSERVATIONS ON THE IMMATURE STAGES OF CORDILURA (ACHAETELLA) DECEPTIVA AND C. (A.) VARIPES.

S E Neff J B Wallace

Entomol Soc Amer Ann 62(4):775-785 REF

Jul 1969 420 EN82

Anthomyiidae, Carex, Food habits, Insect biology, Insect morphology, Insect taxonomy, Larvae, Pu-

THE METHOD AND ROLE OF VERTICAL TRANSMISSION OF A NUCLEOPOLYHEDROSIS VIRUS IN THE EUROPEAN SPRUCE FLY, DIPRION HERCYNIAE,

M M Neilson D E Elgee

J Invertebrate Pathol 12(1):132-139 REF

Oct 1968 421 J826

Diprion hereyniae, Disease transmission, Experimental insects, Foliage, Insect rearing, Plant contamination, Polyhedroses, Tables (data), Virus diseases (insects).

SUSCEPTIBILITY OF ANOPHELES (MYZO-STEPHENSI TO PLASMODIUM CATHEMERIUM. (IT)

1 Neri M H T Ribeiro

Parassitologia 10(2-3,OCT-DEC):151-153

Dec 1968 436.8 P212

Anopheles stephensi, Birds, Insect vectors, Plasmodium. English abstract.

8820-69

WATER BALANCE IN THE FIREBRAT, THER-MOBIA DOMESTICA (PACKARD), EXCHANGES OF WATER WITH THE AT-MOSPHERE.

J Noble-Nesbitt

J Exp Biol 50(3):745-769 REF

Jun 1969 442.8 B77

Humidity, Insect metabolism, Thermobia domestica, Thysanura, Water.

8821-69

MORPHOLOGY OF THE LARVAL AND ADULT BRAINS OF THE MONARCH BUTTERFLY, DANAUS PLEXIPPUS PLEXIPPUS, L.

R H Nordlander J S Edwards

J Morphol 126(1):67-93 REF

Sep 1968 444.8 J826

Brain, Danaidae, Danaus plexippus, Imagos, Insect morphology, Insect physiology, Larvae.

8822-69

EXPERIMENTS WITH BEAUVERIA BASSIANA (BALS) VUILL. AGAINST BLASTOPHAGUS PINIPERDA L. (COL., SCOLYTIDAE). (GE)

M Nuorteva M Salonen

Suomen Hyonteistieteellinen Aikakauskir Ann Entomol Fenn 34(2):49-55 REF

Jun 1968 421 SU7

Beauveria bassiana, Biological control (insects), Blastophagus piniperda, Fungi, Insceticides, Mortality, Parasitism, Scolytidae, Spraying.

THE INFESTATION OF TIMBER BY BARK BEETLES (COL., SCOLYTIDAE) AND THEIR ENEMIES IN DIFFERENT ZONES OF THE FIN-NISH SOUTHWESTERN ARCHIPECAGO.

M Nuorteva P Nuorteva

Suomen Hyonteistieteellinen Aikakauskir Ann Entomol Fenn 34(2):56-65 MAP REF

Jun 1968 421 SU7

Biological control (insects), Blastophagus piniperda, Breeding, Parasitism, Pityogenes chalcographus, Pityogenes quadridens, Rhopalicus guttatus, Scolytidae, Timber.

THE HASTATE SETAE OF CERTAIN DERMESTID LARVAE: AN ENTANGLING DEFENSE MECHANISM.

W L Nutting H G Spangler

Entomol Soc Amer Ann 62(4):763-769 REF

Jul 1969 420 EN82

Dermestidae, Hair, Insect behavior, Insect protective devices.

8825-69

A NATURAL HYBRID BUTTERFLY OF THE GENUS VANESSA IN NEW ZEALAND,

R G Ordish

Wellington Dominion Mas Rec 6(11):141-144 29 Jan 1969 514 W462R

Hybrids. Insect color, Insect morphology, Nymphalidae, Reproductive organs.

8826-69

DISCRIMINATION BETWEEN MOVEMENTS OF EYE AND OBJECT BY VISUAL INTERNEU-RONES OF CRICKETS.

J Palka

J Exp Biol 50(3):723-732 REF

Jun 1969 442.8 B77

Acheta domesticus, Eyes, Insect physiology, Nervous system, Vision.

8827-69

NON-HOMOGENEOUS CONDUCTION IN GIANT AXONS OF THE NERVE CORD OF PERIPLANETA AMERICANA.

1 Parnas M E Spira R Werman F Bergmann

J Exp Biol 50(3):635-649 REF

Jun 1969 442.8 B77 Electrophysiology, Nervous system, Nicotine, Periplaneta americana.

THE EFFECTS OF PERFUSION ON THE SYNTHESIS AND RELEASE OF BLOOD PROTEINS BY DIAPAUSING PUPAE OF THE CECROPIA SILKWORM.

N G Patel H A Schneiderman

J Insect Physiol 15(4):643-660 REF

Apr 1969 421 J825

Blood proteins, Hemolymph, Hyalophora eceropia, Insect physiology, Pupae.

HAEMOGLOBIN OF ANISOPS **NIVEUS** (NOTONECTIDAE, HETEROPTERA).

S Patel B Patel

Cur Sci 38(7):163-164

05 Apr 1969 475 SC123

Anisops, Hemoglobin, Insect physiology, Notonec-

8830-69

COMPARATIVE TOXICITES OF CRYSTAL SEROTYPES OF BACILLUS THURINGIENSIS FOR LARVAE OF PHILOSAMIA CYNTHIA VAR. RICINI.

1 R Pendleton

J Invertebrate Pathol 13(3):423-428 REF

May 1969 421 J826

Bacillus thuringiensis, Biological control (insects), Insect diseases, Samia cynthia, Toxicology.

ECOLOGICAL SIGNIFICANCE OF TIBIOTICS OF SOME VARIETIES OF BACIL-LUS THURINGIENSIS.

1 R Pendleton

J Invertebrate Pathol 13(2):235-240

Mar 1969 421 J826

Antibiotics, Bacillus thuringiensis, Ecology, Insect diseases, Samia cynthia, Surveys.

Antibiotic production and sensitivity in 80 strains of crystalliferous bacteria was investigated by a cross-streaking method. Antibiotic activity of a few strains was also determined against a variety of named bacteria and bacteria isolated from larvae of Philosamia cynthia var. ricini. Studies with infections in larvae due to a mixture of two strains of erystalliferous bacteria (bacillus thuringiensis) demonstrated that antihiotic production, rather than pathogenicity, determined dominance of one strain.

8832-69

SPRING DISPERSAL OF SOME LEAFHOPPERS AND APHIDS.

A G Peterson J D Bates R S Saini Minn Acad Sci J 35(2-3):98-102 MAP REF 1969 500 M663

Aphididae, Cicadellidae, Insect dissemination, Weather.

Two species of leafhoppers and four species of cereal aphids appear to he transported to Minnesota each spring on strong winds from the south or southwest. Weather conditions favorable for northward movement of these insects consist of a high pressure area over the eastern states, a low pressure area over the western plains, and the resulting strong, persistent, south wind which is often called a low-level jet.

8833.69

EFFECT OF BIOTIN ON THE FERTILITY OF THE YELLOW FEVER MOSQUITO, AEDES AEGYPTI (L.).

M K K Pillai B V R Madhukar Naturwissenschaften 56(4):218-219

Apr 1969 474 N213 Acdes acgypti, Biotin, Fertility, Insect nutrition, Insect physiology, Reproduction.

TANDEM LINKAGE IN DICHOPTIC AND OTHER ANISOPTERA (ODONATA).

E Pinhey

Southern Rhodes Nat Mus Occas Pap 4(28B):137-207 REF

10 Jan 1969 515 R342

Insect hehavior, Insect physiology, Odonata.

8835-69

NEW VIRUS OF DROSOPHILA MELANOGASTER, VIRUS PI. (FR)

N Plus J L Duthoit

Acad Sci Compt Rend Ser D Sci Nat 268(18, 1ST SEMESTER):2313-2315

05 May 1969 505 P21

Drosophila melanogaster, Electron microscopy, Insect diseases, Morphology.

DESCRIPTION OF IMMATURE STAGES OF NOCTUISEIUS TREATI PRASAD (ACARINA: PHYTOSEIIDAE).

V Prasad

Entomol Soc Wash Proc 71(2):151-153

Jun 1969 420 W27

Achaea janata, Insect anatomy, Insect eggs, Insect morphology, Larvae, Mites, Moths, Noctuiseius treati, Nymphs, Parasitic insects.

8837-69

AN ELECTRON MICROSCOPE STUDY OF NEBENKERN FORMATION AND DIFFERENTIATION IN SPERMATIDS OF MUR-GANTIA HISTRIONICA (HEMIPTERA, PEN-TATOMIDAE).

S A Pratt

J Morphol 126(1):31-65 REF

Sep 1968 444.8 J826

Electron microscopy, Insect morphology, Insect physiology, Mitochondria, Murgantia histrionica, Pentatomidae, Spermatocytes, Spermatogenesis.

8838-69

BIOLOGY OF THE SPIDER MITE. TETRANYCHUS EVANSI.

A H Qureshi E R Oatman C A Fleschner

Entomol Soc Amer Ann 62(4):898-903

Jul 1969 420 EN82

Humidity, Insect biology, Oviposition, Tetranychus.

COCKROACH CONTROL IN CHICAGO'S LIN-COLN PARK ZOO.

S Rachesky

Pest Contr 37(6):10-14

Jun 1969 449.8 EX8

Blattidae, Chemical control (insects), Isopropoxyphenyl methylearbamate, o-, Zoo animals.

A TECHNIQUE FOR REARING LARVAE OF THE BOLLWORM AND TOBACCO BUDWORM IN LARGE NUMBERS.

J R Raulston P D Lingren

J Econ Entomol 62(4):959-961 REF

15 Aug 1969 421 J822

Heliothis virescens, Heliothis zea, Insect rearing, Insect rearing equipment, Larvae,

PRODUCTION COMPARATIVE OF PHEROMONE BY THE CALIFORNIA RED SCALE REARED ON LEMONS AND POTATOES.

R E Rice D S Moreno

J Econ Entomol 62(4):958-959

15 Aug 1969 421 J822

Aonidiella aurantii, Biological assay, Hormones, Insect hehavior, Insect biochemistry, Lemons, Pheromones, Potatoes, Sex hehavior.

EFFECT OF MALE ACCESSORY MATERIAL ON OVIPOSITION AND MATING BY FEMALE HOUSE FLIES.

J G Riemann B J Thorson

Entomol Soc Amer Ann 62(4):828-834 REF Jul 1969 420 EN82

Attractants, Insect behavior, Musea domestica, Oviposition, Sex hehavior.

8843-69

MIMICRY: THE DECEPTIVE WAY OF LIFE.

M Rothschild

Natur Hist 76(2):44-51

Feb 1967 500 N483J

Insect protective devices, Mimicry, Reviews.

NEMATODES OF THE FAMILY TETRADONE-MATIDAE, PARASITIZING IN MEMBERS OF THE FAMILY SIMULIDAE (DIPTERA). (RUS) I A Ruheov

Helminthologia 7(1/4):165-198 REF

1966 436.8 H36

Diagnosis, Diptera, Nematodes, Parasitism, Simuliidae, Taxonomy. English and German summaries.

8845-69

SELECTIVE TOXICITY OF SYSTEMIC INSEC-TICIDES.

T Saito

Residue Rev 25:175-186 REF

1969 389 9 R314

Insect physiology, Systemic insecticides, Toxicity, Trichlorfon.

RESPIRATION OF BLASTOSPORES OF THE FUNGUS BEAUVERIA BASSIANA DURING SUBMERSED CULTIVATION IN THE PRESENCE OF CERTAIN SUGARS.

A Samsinakova E Hrabetova

J Invertebrate Pathol 13(3):382-385

May 1969 421 J826

Beauveria bassiana, Biochemistry, Galleria mellonella, Respiration, Sugars.

THE GROUP EFFECT IN THE TESTS ON IN-SECTICIDE RESISTANCE IN AEDES AEGYPTI.

J Sautet J Aldigheri M Quilici

World Health Organ Bull 38(6):967-970

1968 449 9 W892B

Aedes acgypti, Chemical control (insects), DDT, Dosage, Experimental insects, Insecticide resistant insects, Mortality. English summary

8848-69

MIGRATION OF AN ANHOLOCYCLIC STRAIN OF THE SPOTTED ALFALFA APHID INTO NEBRASKA.

J M Schalk G R Manglitz

J Econ Entomol 62(4):946-947

15 Aug 1969 421 J822

Aphididae, Insect migration, Therioaphis macu-

ANTIRESISTANT DDT CONTINUES TO OFFER SUPERIOR FLY CONTROL.

G E Schmolesky P H Derse

Agr Chem 18(3):24-25,111

Mar 1963 381 AG8

Chemical control (insects), DDT, Insecticide resistant insects, Musca domestica.

CONTROL OF MITES AND APHIDS ON AND IN BULBS.

J.C. Schread

Conn Agr Exp Sta Bull (699):3-11

Apr 1969 100 C76ST (1)

Acyrthosiphon solani, Aphididae, Bacterial dis-cases (plants), Bulbs, Carbon disulfide, Demeton, Dysaphis tulipae, Insect control, Malathion, Mites, Paradichlorobenzene, Rhizoglyphus Nicotine. echinopus, Tetradifon.

ESTERS OF BENZIMIDAZOLECARBAMIC ACID AS MITE OVICIDES. PATENT 3,427,388. J K Scoggin

Us Patent Office Offic Gaz 859(2):608

11 Feb 1969 156.65 OF2

Benzimidazole compounds, Chemical control (insects), Esters, Mites, Ovicides, Patents.

SIGMA VIRUS MULTIPLICATION IN WHOLE-ANIMAL CULTURE OF DROSOPHILA.

R L Seccof

Virology 38(1):134-139 REF

May 1969 448.8 V81

Culture media, Diptera, Drosophila melanogaster, Inseet diseases, Larvae, Virology.

8853-69

BURSICON MEDIATION OF TYROSINE HYDROXYLATION DURING TANNING OF THE ADULT CUTICLE OF THE FLY, SAR-COPHAGA BULLATA.

M Seligman S Friedman G Fraenkel J Insect Physiol 15(4):553-562 REF

Apr 1969 421 J825

Chemical reactions, Cuticle, Dopa, Insect biochemistry, Insect physiology, Sarcophaga bullata, Tyrosine.

Alpha MDH, a potent decarboxylase inhibitor, prevents hardening and darkening of the cuticle of adult flies when injected soon after eclosion. This effect is accompanied by an accumulation of DOPA. If the release of bursicon from the CNS is blocked no DOPA accumulates. It would appear, therefore, that one of the actions of bursicon in the regulation of adult tanning is involved with the control of the activation of tyrosine hydroxylation.

LACK OF MULTIPLICATION OF SIMIAN VIRUS 40 (SV40) IN EXPERIMENTALLY INFECTED MOSQUITOES.

K V Shah R Behin L F Rozeboom

Soc Exp Biol Med Proc 126(1):277-279

Oct 1967 442.9 SO1

Culicidae, Disease transmission, Insect diseases, Insect vectors, Simian adenoviruses.

A NEW TECHNIQUE TO OBSERVE THE ACTIVITY OF CAMBIUM MINERS.

J M Skelly W H Kearby

Entomol Soc Amer Ann 62(4):932-933

Jul 1969 420 EN82

Agromyzidae, Autoclaves, Food habits, Insect bchavior, Methodology.

SENSE ORGANS ON THE ANTENNAL FLAGELLUM OF A GIANT COCKROACH, GROMPHADORHINA PORTENTOSA, AND A COMPARISON WITH THOSE OF SEVERAL OTHER SPECIES (DICTYOPTERA, BLAT-TARIA).

E.H. Slifer

J Morphol 126(1):19-29 REF

Sep 1968 444.8 J826

Antennae, Blattidae, Chemoreceptors, Flagella, Gromphadorhina portentosa, Insect biochemistry, Insect morphology, Sense organs.

A LABORATORY TESTING PROGRAMME FOR ASSESSING FIELD PERFORMANCE OF ACARICIDES AGAINST TETRANYCHUS UR-TICAE (KOCH).

A G Smith

New Zeal J Agr Res 11(4):863-873

Nov 1968 23 N4892

Acaricides, Butyl-4,6-dinitrophenyl isopropyl car-honate, 2-see-, Carbophenothion, Chemical con-trol (insects), Insect pests, Insecticide resistant insects, Insecticide susceptible insects, Insecticide trials, Insecticides, Larvae, Lepidoptera, Methyl demeton, Mites, Nitrated phenols, Tetranyehus urticae.

A METHOD OF REARING THE PEACH TREE BORER ON ARTIFICIAL DIET.

HR Smith EG Richardson CE Yonce SW Jacklin

J Econ Entomol 62(4):961-962

15 Aug 1969 421 J822

Insect nutrition, Insect rearing, Sanninoidea exitiosa.

8859-69

THE PCO MARKET IN TICK CONTROL.

R Snetsinger

Pest Contr 37(6):16-20

Jun 1969 449.8 EX8

Dogs, Insect control, Ixodides, Pest control operators.

8860-69

MATING PROPENSITY, CHROMOSOMAL POLYMORPHISM, AND DEPENDENT CONDITIONS IN DROSOPHILA PERSIMILIS. II. FAC-TORS BETWEEN LARVAE AND BETWEEN ADULTS.

E B Spiess L D Spiess Evolution 23(2):225-236 REF Jun 1969 443.8 EV62

Aging, Chromosomes, Drosophila, Insect behavior, Larvac, Polymorphism, Population.

ORGANIZATION OF THE GIANT AXONS OF THE COCKROACII PERIPLANETA AMERICANA.

M E Spira 1 Parnas F Bergmann

J Exp Biol 50(3):615-627 REF

Jun 1969 442.8 B77

Electrophysiology, Insect physiology, Nervous system, Nicotine, Periplaneta americana.

HISTOLOGICAL AND ELECTROPHYSIOLOGI-CAL STUDIES ON THE GIANT AXONS OF THE COCKROACH PERIPLANETA AMERICANA.

M E Spira I Parnas F Bergmann

J Exp Biol 50(3):629-634

Jun 1969 442.8 B77

Electrophysiology, Insect histology, Nervous system, Periplaneta americana.

HUMIDITY PREFERENCE OF THE ALFALFA WEEVIL, HYPERA POSTICA, AS AFFECTED BY MICROENVIRONMENTAL AND PHYSIOLOGICAL CONDITIONS.

S D Springer R L Pienkowski

Entomol Soc Amer Ann 62(4):904-909 REF Jul 1969 420 EN82

Aging, Humidity, Hypera postica, Insect behavior, Light, Starvation, Temperature.

PRELIMINARY STUDIES OF THE RELEASE IN 1965 ON THE ISLAND OF CHALKI, OF OPIUS CONCOLOR SZEPL. (HYMEN, BRACONIDAE) A PARASITE OF DACUS OLEAE GMEL. (DIPT. TRYPETIDAE). (FR)

H Stavraki-Pavlopoulou

Inst Phyto Pathol Benaki Ann 8(1):23-31 MAP

1967 464.9 AT4

Biological control (insects), Braconidae, Daeus olcae, Hibernation, Insect dissemination, Olives, Opius concolor, Parasitism, Tables (data), Trypctidac.

A CONTRIBUTION TO THE STUDY OF THE GREEK SPECIES INJURIOUS TO CORN, OF THE GENUS SESAMIA (LEPIDOPTERA-NOC-TUIDAE). (FR

G Stavrakis

Inst Phyto Pathol Benaki Ann 8(1)19-22

1967 464.9 AT4

Corn, Heliothis armigera, Insect biology, Insect identification, Insect pests, Noetuidae, Ostrinia nubilalis, Sesamia nonagrioides.

8866-69

TERATOLOGY OF THE BEETLE TENEBRIO MOLITOR, IV. ULTRASTRUCTURE OF THE NECROTIC FAT BODY AND FOREGUT ASSOCIATED WITH THE PUPAL-WINGED ADULT.

E. A. Steinhaus R. P. Zeikus

J Invertebrate Pathol 13(3):337-344

May 1969 421 J826

Electron microscopy, Fat body, Gastrointestinal system, Insect morphology, Tenebrio molitor.

A CASE OF PARTIALLY REDUPLICATED AN-TENNA IN MINETTIA OBSCURA (LOEW) (DIP-TERA: LAUXANIIDAE).

G C Steyskal

Entomol Soc Wash Proc 70(4):360

Dec 1968 420 W27

Abnormalities, Antennae, Insect anatomy, Lauxaniidae, Minettia obscura.

HYPNOIDUS RIPARIUS (FABRICIUS), A POSSIBLE AGRICULTURAL PEST FROM EU-ROPE (COLEOPTERA: ELATERIDAE). J N L Stibick

Entomol Soc Wash Proc 71(2):191-193 REF

Jun 1969 420 W27

Elateridae, Grain, Grasses, Hypnoidus riparius, Insect ecology, Insect migration, Insect morphology, Insect pests, Larvac, Vegetables, Zoogcography.

NEW SYMPHORIONT INTRANSTYLUM - SPE-CIES (PERITRICHA, CILIATA) ON LARVAE OF CHIRONOMOUS PLUMOSUS. (GE)

Arch Protisten Kunde 111(1):24-30 REF 1968 439.8 AR2

Chironomidac, Chironomus plumosus, Larvae, Parasitism, Taxonomy.

8870-69

SEASONAL HISTORY OF A UNISEXUAL POPULATION OF THE PINE NEEDLE SCALE, PHENACASPIS PINIFOLIAE.

M W Stimmann

Entomol Soc Amer Ann 62(4):930-931

Jul 1969 420 EN82

Insect biology, Insect physiology, Phenacaspis pinifoliae, Sex behavior.

THE ADULT CERVICOTHORACIC MUSCULA-TURE OF THE COCKROACH, NAUPHOETA CINEREA (OLIVIER).

R H Storch

J Morphol 126(1):107-122

Sep 1968 444.8 J826

Blattidac, Imagos, Insect morphology, Insect physiology, Muscles, Nauphoeta cinerea, Nymphs, Periplaneta americana, Thorax.

THE LIMNOLOGY OF PLAYA LAKES ON THE LLANO ESTACADO, NEW MEXICO AND TEX-AS.

J E Sublette M S Sublette

Southwest Natur 12(4):369-406 MAP REF

31 Dec 1967 409.6 SO8

Aquatic insects, Aquatic plants, Insect ecology, Limnology, Surveys, Water analysis.

The seasonal ecology of three Playa Lakes of Class IV of Reeves (Jour. Geol., 1966) has been studied in Eastern New Mexico. A limnological survey of an additional 20 lakes was made, largely from the high plains of Texas. A total of 62 taxa of macroscopic animals was collected. An obligated lentic fauna, chiefly phyllopod erustaceans, is numerirauha, chichy phyliopod crustaecans, is numerically dominant during the early phases of lake filling; this is followed by a facultative fauna dominated by insects. Some variation was noted among the lakes surveyed with chironomids, oligochaetes or both occurring as a restricted fauna in several lakes.

FACTORS AFFECTING THE SEX RATIO OF APHYTIS PROCLIA WLK. (HYMENOPTERA, APHELINIDAE), EXTERNAL PARASITE ON THE SAN JOSE SCALE.

A F Sumaroka

Entomol Rev 46(2 APR-JUN):179-185 REF 1967 421 R322AE

Aphytis proclia, Aspidiotus perniciosus, Eulo-phidae, Growth factors, Parasitism, Reproduction, Sex determination, Sex ratios, Tables (data), Zoogcography. Translated from Russian.

8874-69

PHYSICO-CHEMICAL STUDIES ON THE ABSORPTION OF PESTICIDES BY THE INSECT CUTICLE AND PENERATION TO THE INSECT

M Suwanai

Residue Rev 25:341-353

1969 389.9 R314

Callosobruchus chinensis, Cuticle, Gascs, Insect physiology, Insecticides, Toxicology.

METHOD OF KILLING PESTS BY APPLICATION OF A PHOSPHORO DERIVATIVE OF ALPHA-(METHYLTHIO) CRESOL. PATENT 3.427.384.

ENTOMOLOGY

8876-69

K Szaho J G Brady

Us Patent Office Offic Gaz 859(2):607

11 Feb 1969 156.65 OF2

Chemical control (pests), I nsect pests, Methodology, Methylthio)eresol, alpha-(, Mites, Organophosphorus compounds, Patents, Phosphorus compounds.

8876-69

DISTRIBUTION OF WHEAT STREAK MOSAIC VIRUS-LIKE PARTICLES IN ACERIA TU-LIPAE.

Y Takahashi G B Orloh

Virology 38(2):230-240 REF

Jun 1969 448.8 V81

Aceria tulipae, Mosaic, Streak, Tissues, Viruses, Wheat. English summary.

STUDY OF THE CORPUS ALLATUM IN LIVING LARVAE OF THE BLOW FLY CALLIPHORA ERYTHROCEPHALA MG. (DIP-TERA, CALLIPHORIDAE).

N A Tamarina

Entomol Rev 46(2 APR-JUN):168-173 REF 1967 421 R322AE

Calliphora vicina, Calliphoridae, Corpora allata, Cytology, Growth factors, Insect anatomy, Insect eultures, Insect histology, Insect hormones, Larvae, Microscopy, Weismann's ring. Translated from Russian.

8878-69

ISOLATION OF FUMARIC ACID FROM SILK-WORM PUPAS AS A CAUSATIVE AGENT TO RELEASE REDUCING SUGARS IN EMBRYO-LESS RICE ENDOSPERMS.

S Tamura A Suzuki M Yamauchi Y Ogawa S Imamura

Agr Biol Chem 31(10):1248-1250 Bombyx mori, Fumarie acid, Rice.

Oct 1967 385 AG8B

8879-69

LOW-COST LARVAL REARING MEDIUM FOR MASS PRODUCTION OF ORIENTAL AND MEDITERRANEAN FRUIT FLIES.

N Tanaka L F Steiner R Ohinata R Okamoto

J Econ Entomol 62(4):967-968

15 Aug 1969 421 J822

Ceratitis eapitata, Dacus dorsalis, Insect nutrition, Insect rearing, Larvae, Tephritidae.

8880-69

THE FORMATION OF TUMORLIKE LESIONS COCKROACH LEUCOPHAEA THE MADERAE AFTER ANAL BLOCKAGE.

R L Taylor W C Freekleton

J Invertebrate Pathol 13(3):416-422 REF

May 1969 421 J826

Anus, Gastrointestinal system, Insect physiology, Leucophaea maderae, Neoplasms, Nervous system, Toxins.

9881.69

CHRONOLOGICAL STUDY OF THE FUNC-TION OF THE OVARY IN THE HYPOGASTRU-RIDAE. CAVERN-LIVING AND EPIGEOUS COLLEMBOLA: TYPHLOGASTRURA DELAMARE BALAZUCI AND CERATOPHYSELLA ENGADINEUSIS GISIN.

J M Thibaud

Acad Sci Compt Rend Ser D Sci Nat 268(20, 1ST SEMESTER):2483-2484

19 May 1969 505 P21

Collembola, Hahitats, Insect physiology, Ovaries.

FEEDING HABITS OF LARVAE OF SEVEN RHYACOPHILA (TRICHOPTERA: RHYACOPHILIDAE) SPECIES WITH NOTES ON OTHER LIFE-HISTORY FEATURES.

Entomol Soc Amer Ann 62(4):894-898

Jul 1969 420 EN82

Food habits, Insect behavior, Insect biology, Insect nutrition, Larvae, Trichoptera.

8883-69

PURIFICATION AND SOME PROPERTIES OF CHILO IRIDESCENT VIRUS.

S Tojo T Kodama

J Invertebrate Pathol 12(1):66-72 REF

Oct 1968 421 J826

Centrifugation, Chilo suppressalis, Chromatography, Galleria mellonella, Iridescent virus, Larvae, Tipula iridescent virus, Virology, Virus diseases (insects).

8884-69

MODE OF ACTION OF INSECTICIDES ON THE RICE STEM BORER AND DEVELOPMENT OF RESISTANCE.

C Tomizawa

Baltimore, John Hopkins Press. 291-304 MAP RFF

1967 SB608.R5S9

Chlorinated hydrocarbons, Inseet pests, Inseeticide residual activity, Insecticide resistant insects, Insecticides, Larvae, Organophosphorus compounds, Rice.

8885-69

THE PART QUEENS PLAY IN THE MAKING AND ADVENT OF GYNES IN THE COLONIES OF THE ANT DOLICHODERUS QUADRIPUNC-TATUS.

C Torossian

Paris Soc Biol Compt Rend 161(6):1455-1458

05 Jan 1968 442.9 P21

Formicidae, Gynandromorphism, Insect behavior, Queen ant, Social insects.

8886-69

BRAHMAN BREEDING AS A FACTOR AF-FECTING THE ATTRACTIVENESS OR REPEL-LENCY OF CATTLE TO THE HORN FLY.

P Tugwell E C Burns J W Turner

J Econ Entomol 62(1):56-57

17 Feb 1969 421 J822

Attractants, Breeding, Cattle, Color, Haematohia irritans, Insect behavior, Insect repellents.

8887-69

ECOLOGICAL STUDIES OF THE FIELD CRICKET, GRYLLUS CAMPESTRIS L. . F J Turcek

Biologia (bratislava) 22(11):808-816

1967 442.8 B5265

Gryllus campestris, Insect biology, Insect ecology, Insect physiology.

8888-69

HOMOGRAFT OF THE TARSUS INTO THE PLACE OF THE EYE IN THE PHASMID SIPY-LOIDEA SIPYLUS W. (FR)

J Urvoy

Acad Sci Compt Rend Ser D Sci Nat 268(18, 1ST SEMESTER):2260-2261

05 May 1969 505 P21

Development, Eyes, Insect physiology, Legs, Phasmatidae, Tissue grafting.

THE INFLUENCE OF INFECTIONS OF NUCLEAR-POLYHEDROSIS VIRUS ON ADULT CABBAGE LOOPERS AND THEIR PROGENY.

P V Vail 1 M Hall

J Invertebrate Pathol 13(3):358-370 REF May 1969 421 J826

Insect hehavior, Insect eggs, Insect histology, Polyhedroses, Sex, Trichoplusia ni.

8890-69

SOME EFFECTS OF SUBLETHAL HEAT ON SPORES OF NOSEMA APIS.

J W Vandermeer T A Goehnauer

J Invertebrate Pathol 13(3):442-446

May 1969 421 J826

Amino acids, Apis mellifera, Biochemistry, Chro-Glucitol, matography. Insect Mierosporidia, Nosema apis, Spores, Temperature.

LIFE HISTORY AND SOME FACTORS AFFECTING THE POPULATION OF ARZAMA DENSA IN LOUISIANA.

E Vogel A D Oliver

Entomol Soc Amer Ann 62(4):749-752

Jul 1969 420 EN82

Insect biology, Life eyele, Longevity, Noctuidae, Population.

ON THE TETRAPYRROLIC PIGMENTS OF LEPIDOPTERA, (FR)

M Vuillaume M Barbier

Acad Sci Compt Rend Ser D Sci Nat 268(18, 1ST SEMESTER):2286-2289

05 May 1969 505 P21

Insect biochemistry, Lepidoptera, Pigments (insect).

8893-69

INSECTICIDE STUDIES OF THE MAIZE STALK BORER, BUSSEOLA FUSCA (FULLER), IN EAST AFRICA.

P T Walker

Bull Entomol Res 51(2):321-351

Jul 1960 421 B87

Busscola fusea, Chemical control (insects), Corn, East africa, Endrin, Insecticides, Isodrin.

8894-69

NITROGENOUS COMPOUNDS IN THE HAEMOLYMPH OF THE CRICKET. ACHETA DOMESTICUS.

C M Wang R L Patton

J Insect Physiol 15(4):543-548 REF

Apr 1969 421 J825

Acheta domesticus, Hemolymph, Inseet biochemistry, Nitrogen compounds.

RATE OF OXYGEN UPTAKE OF HEALTHY AND DISEASED LARVAE OF THE JAPANESE

B A Weiner G St. Julian W F Kwolek J Invertebrate Pathol 13(2):250-255

Mar 1969 421 1826

Baeillus popilliae, Inseet diseases, Inseet physiology, Larvae, Oxygen, Popillia japonica.

8896-69

IRIDESCENT VIRUS FROM BLACKFLY SIMU-ORNATUM LIUM MEIGEN CZECHOSLOVAKIA.

J Weiser

J Invertebrate Pathol 12(1):36-39

Oct 1968 421 J826

Cells, Insect histology, Iridescent virus, Larvae, Melusina ornata, Simuliidae, Virus diseases (insects), Zoogeography.

8897-69

HYALOMYODES TRIANGULIFER PARASITIZ-ING THE CEREAL LEAF BEETLE, OULEMA MELANOPUS.

S G Wellso R P Hoxic

Entomol Soc Amer Ann 62(4):923-924

Jul 1969 420 EN82

Insect hiology, Oulema melanopus, Parasitic insects, Tachinidae.

8898-69 INEXPENSIVE HOUSE FLY PUPAE AN

SEPARATOR. H H Willeox

J Econ Entomol 62(4):949-950 15 Aug 1969 421 J822

Insect rearing equipment, Musea domestica, Pupae.

8899-69

OXYGEN CONSUMPTION OF THE WESTERN HORSE LUBBER GRASSHOPPER.

M W Williams C S Williams B F Gunning J C

Towne Entomol Soc Amer Ann 62(4):927

Jul 1969 420 EN82 Aerididae, Inseet metabolism, Oxygen, Tempera-

ADD WATER-- INSTANT CULICOIDES. R W Williams

Entomol Soc Amer Ann 62(4):929-930

Jul 1969 420 EN82

Culicoides, Insect physiology, Insect rearing, Water

8901-69

A GENERAL METHOD FOR ESTIMATING CONCENTRATIONS THRESHOLD ODORANT MOLECULES.

E O Wilson W H Bossert F E Regnier J Insect Physiol 15(4):597-610 REF Apr 1969 421 J825

Chemoreceptors, Insect behavior, Insect physiology, Nerves, Odors.

A description is given of a modification of the diffusion model technique that permits relatively rapid estimation of the behavioral threshold concentra-tions of odorant molecules. The method has been employed in studies of alarm hehavior in ants and is applicable to a wide variety of laboratory and seminatural conditions.

8902-69

AN ACTIVE REDUCTION OF WATER LEVEL IN INSECT CUTICLE.

P W Winston J W L Beament J Exp Biol 50(3):541-546 REF Jun 1969 442.8 B77

Cutiele, Insect physiology, Locusta migratoria, Periplaneta americana, Water.

FIELD IDENTIFICATION AND SEX DETER-MINATION OF APHIDECTA OBLITERATA, AN INTRODUCED PREDATOR OF ADELGES

J A Witter G D Amman

Entomol Soc Amer Ann 62(4):718-721 REF Jul 1969 420 EN82

Adelges piecae, Aphidecta ohliterata, Insect ceology, Insect identification, Insect morphology, Sex.

MONITORING FOR AUDIBLE AND ULTRASONIC SOUND PRODUCTION BY STORED-PRODUCT INSECTS DURING MAT-ING.

D P Wojcik

J Econ Entomol 62(4):937

15 Aug 1969 421 J822

Colcoptera, Insect behavior, Sex hehavior, Sound waves, Stored products.

8905-69

INTERNAL DAMAGE IN AN AQUATIC BEETLE EXPOSED TO SUBLETHAL CONCENTRA-TIONS OF INORGANIC IONS.

C R Wooldridge D P Wooldridge

Entomol Soc Amer Ann 62(4):921-922

Jul 1969 420 EN82

Hydrophilidae, Inorganie compounds, Insect physiology, Ions, Water pollution.

8906-69

MODE OF ACTION OF NATURAL INSEC-

1 Yamamoto

Residue Rev 25:161-174 REF

1969 389.9 R314

Insect physiology, Insecticides, Nicotine, Pyrcthrum, Rotenone.

8907-69

ELECTROPHYSIOLOGICAL STUDY OF CON-TACT CHEMORECEPTORS IN BLOOD-SUCKING DIPTERA.

Yu A Yelizarov Ye Kh Zolotarev Ye Ye

Sinitsyna

Entomol Rev 46(2 APR-JUN):162-167 REF 1967 421 R322AE

Chemoreceptors, Diptera, Electrophysiology, Glucose, Hair, Insect hehavior, Insect physiology, Sodium chloride, Stimuli, Stomoxys calcitrans, Tabanus hromius. Translated from Russian.

FIELD NOTES ON A FEEDING SWARM OF CHEIROPLATYS CLUNALIS. R M Young

Entomol 50c Amer Ann 62(4):927-928

Jul 1969 420 EN82

Food hahits, Insect behavior, Insect nutrition, Scarabacidae.

GENETICS

8909-69

THE SALIVARY GLAND CHROMOSOMES OF ANOPHELES PULCHERRIMUS THEOBALD.

R H Baker A S Nasir M Aslamkhan Parassitologia 10(2-3,OCT-DEC):167-177 REF

Dec 1968 436.8 P212

Anopheles pulcherrimus, Chromosomes, Insect genetics, Salivary glands (insects).

MOSAICISM IN HABROBRACON JUGLANDIS ASSOCIATED WITH THE EBONY LOCUS.

A M Clark A B Gould M F Potts

Genetics 58(2):415-422

Mar 1968 442.8 G28

Bracon hebetor, Cell nucleus, Drosophila melanogaster, Insect genetics, Mutation.

STUDIES ON CYTOLOGY AND DIFFERENTIA-TION IN SCIARIDAE. II, DNA REDUNDANCY IN SALIVARY GLAND CELLS OF CELLS HYBOSCIARA **FRAGILIS** (DIPTERA, SCIARIDAE).

A B Da Cunha C Pavan J S Morgante M C Garrido

Genet Soc Amer Rec 61(1,PT 2,SUPPL):335-349

1969 442.9 G28

Chromosomes, Cytogenetics, Deoxyribonucleie acid, Hyhosciara fragilis, Insect genetics, Salivary glands (insects), Sciaridac.

A TEMPERATURE EFFECT ON NONDISJUNC-TION OF THE X CHROMOSOMES AMONG EGGS FROM AGED DROSOPHILA FEMALES. P E Hildreth P C Ulrichs

Genetica 40(2):191-197

1969 442.8 G282

Aging, Chromosomes, Drosophila melanogaster, Insect eggs, Insect genetics, Sex, Temperature.

SEX CHROMOSOMES AND SEX DETERMIN-ING MECHANISMS IN ODONATA, WITH A REVIEW OF THE CYTOLOGICAL CONDITIONS IN THE FAMILY GOMPHIDAE, AND REFERENCES TO THE KARYOTYPIC EVOLU-TION IN THE ORDER.

R Kiauta

Genetica 40(2):127-157 REF

1969 442.8 G282

Cytogenetics, Insect evolution, Insect genetics, Odonata, Scx.

CHEMOSTERILANT STUDIES ON BRACON SPERM, II. STUDIES OF SELECTED COMPOUNDS FOR INDUCTION OF DOMINANT LETHAL MUTATIONS OR SPERM INACTIVA-

L E Latchance A P Leverich

Entomol Soc Amer Ann 62(4):790-796 REF Jul 1969 420 EN82

Braeon, Chemosterilants, Insect genetics, Insect mutation, Spermatozoa.

8915-69

SPERMIOGENESIS WITHOUT CHROMOSOMES DROSOPHILA MELANOGASTER.

D L Lindsley E H Grell

Genet Soc Amer Rec 61(1,PT 2,SUPPL):69-78 REF

1969 442.9 G28

Chromosomes, Drosophila melanogaster, Insect geneties, Meiosis, Spermatogenesis.

8916-69

GENETIC LOADS AND COLD TEMPERATURE RESISTANCE IN DROSOPHILA PSEUDOOB-SCURA.

D Marinkovie D W Crumpacker V M Salceda Amer Natur 103(931,MAY-JUN):235-246 REF 30 Jun 1969 470 AM36

Chromosomes, Drosophila pseudoobscura, Insect adaptation, Insect genetics, Population, Tempera-

8917-69

EXPERIMENTAL STUDIES ON SPER-MIOGENESIS IN DROSOPHILA.

G F Meyer

Genet Soc Amer Rec 61(1,PT 2,SUPPL):79-92 REF

1969 442.9 G28

Chromosomes, Drosophila melanogaster, Insect geneties, Spermatogenesis.

RECESSIVE MUTANTS IN A WILD DROSO-PHILA MELANOGASTER POPULATION.

J N Thompson

Okla Acad Sci Proc 47:153-158

1968 500 OK42

Drosophila melanogaster, Insect genetics, Insect mutation, Population.

MEDICAL ENTOMOLOGY

8919-69

THE SIMULIUM CONTROL SCHEME AT ABU-JA, NORTHERN NIGERIA, AND ITS EFFECT ON THE PREVALENCE OF ONCHOCERCIASIS IN THE AREA.

J B Davies

World Health Organ Bull 39(2):187-207 MAP

1968 449.9 W892B

Blindness, Chemical control (insects), DDT, Human diseases, Insect vectors, Larvicides, Onchoecreiasis, Simulium damnosum, Streams. French summary.

8920-69

BREATH LURES BLOODSUCKING BUGS.

Agr Res 17(11):14

May 1969 1.98 AG84

Attractants, Humans, Insect behavior, Insect control, Insect pests, Reduviidae, South american trypanosomiasis.

ERADICATION OF MALARIA AND MOSQUITO CONTROL IN ITALY.

F Galbiati F Lucchi

Agr Vet Chem 8(2):33-36

Mar 1967 382 AG82

Culicidae, DDT, Insect vectors, Malaria, Malaria

Abstract: Adulticide was found to be the most effective eradication treatment.

CROP PROTECTION

8922-69

ORGANISING AN ERADICATION GRAMME FOR AEDES AEGYPTI IN THE USA. Anonymous

Int Pest Contr 10(6,NOV-DEC):25-26

1968 79.8 P432

Aedes aegypti, Chemical control (insects), Chromosomes, DDT, Eradication, Insecticide resistant insects, Organizations.

SOIL WATER MEASURED.

Anonymous

Michigan Farmer 251(2):5

18 Jan 1969 6 M58

BIBLIOGRAPHY

8924-69

Drainage, Evaporation, Lysimeters, Soil moisture, Water storage.

BANANA DISEASES IN THE PACIFIC AREA.

1 W Buddenhagen

China Plant Protect Bull 16(2):17-31 REF

Apr 1968 464.9 C47

Baeterial wilt, Bananas, Bunchy top, Cereospora, Deficiency diseases, Plant diseases, Radopholus similis, Sigatoka leaf-spot disease, Surveys, Virus diseases (plants), Zoogeography.

8925-69

IRRIGATED SUGAR-CANE IN RHODESIA. P B Cormack

Rhodesia Agr J 65(6,NOV-DEC):130-137 REF Nov 1968 24 R34

Crop rotation, Crop yields, Fertilizers, Fungus diseases (plants), Irrigation, Nematodes, Smut, Soils, Sugarcane, Virus diseases (plants).

8926-69

TEAM ALFALFA SCORES HIGH.

Agr Res 17(11):8-9

May 1969 1.98 AG84

Alfalfa, Crop varieties, Insect pests, Plant disease resistance, Plant diseases, Plant pest resistance.

UTILITY OF ARECANUT HUSK IN HOR-TICULTURE.

S N S Kumar G V B Naidu M Sannamarappa Lal-Baugh 12(4,OCT-DEC):5-7

1967 80 1.15

Betel nuts, By-products, Chemical treatment, Fruit, Horticulture, Paper materials, Soil conservation, Waste utilization.

8928-69

MICHIGAN SHOULD FORGET ABOUT PEACHES.

R Lehnert

Michigan Farmer 251(2):14-16

18 Jan 1969 6 M58

Agricultural industries, Cherries, Crop varieties, Fumigation, Marketing, Nurseries, Peaches, Weed control.

THE OCCURRENCE OF PIPTOCEPHALIS IN SOILS AND ITS ISOLATION.

J van der Spek T Ruinen

Neth J Plant Pathol 74(4):118-119

1968 464.8 T44

Mucorales, Parasitism, Piptocephalis, Shrimps, Skeleton, Soil fungi. Dutch summary.

8930-69

CHARACTER EXPRESSIONS AND CASUAL GENES OF SOME MUTANTS IN RICE PLANT. GENETICAL STUDIES ON RICE PLANT, XXX-

M Takahashi T Kinoshita K Takeda

Hokkaido Univ Fac Agr J 55(PT 4):496-512

May 1968 107.6 J273J

Crop varieties, Plant abnormalities, Plant genetics, Plant morphology, Plant physiology, Rice.

8931-69

STUDIES IN POLYPLOID VARIETIES OF SUGAR BEETS. X. CHROMOSOMAL VARIATION IN PROGENY OF CROSSES INVOLVING DIPLOID, TRIPLOID AND TETRAPLOID PLANTS.

M Takahashi T Kinoshita S Ando

Hokkaido Univ Fac Agr J 55(PT 4):382-401

May 1968 107.6 J273J

Chromosomes, Crop varieties, Plant hreeding, Plant geneties, Polyploidy, Seedlings, Sugar heets.

PROBLEMS OF THE MONTH, (FR)

G Vanwetswinkel

Fruit Belg 36(324):305-308

Aug 1968 80 F9493

Aphididae, Carpocapsa, Chemical control (inseets), Fruit, Fungus diseases (plants), Gloesporium, Insect pests, Ring spot, Tenthredinidae, Tetranychidae, Tortricidae.

DISEASES

8933-69

SENSITIVITY OF RHIZOBIUM SPECIES TO CERTAIN FUNGICIDES.

N M Afifi A A Moharram Y A Hamdi Y Abd-el-Malek

Arch Mikrobiol 66(2):121-128

14 May 1969 442.8 AR26

Chloranil, Dichlone, Fungicides, Legumes, Orthocide, Phenylmercurie acetate, Plant growth inhihitors, Rhizohium, Thiram, Toxicology

Thirty-three strains of different species of rhizohia were seeded into medium 79 agar. Dises impregnated with 3, 0.3, 0.03 and 0.003 percent, corresponding to 10, 1, 0.1 and 0.01 the recommended rate of application, of fungicides TMTD, Rhizoctole, Phygon, Ceresan, and Orthocide 75 were place on the seeded agar. After 120 hours, zones of inhibition were measured. The 3, 0.3 and 0.03 percent concentrations of the five fungicides were inhihitory to most rhizohia tested in different degrees. The 0.003 percent level of these fungieides while toxic to certain strains, was not so for others.

8934.69

CONTROL OF GLADIOLUS CORM DISEASES IN FIELD AND STORAGE.

W A A Ashour 1 F G El-Din

An Agr Sci 10(2):209-226 REF

Dec 1965 24 AN72

Corms, Fungicides, Fungus diseases (plants), Fusarium oxysporum gladioli, Gladiolus, Storage.

INFECTION OF COTTON BY ASPERGILLUS FLAVUS: TIME OF INFECTION AND THE IN-FLUENCE OF FIBER MOISTURE.

L J Ashworth J L MeMeans C M Brown Phytopathology 59(3):383-385 REF

Mar 1969 464.8 P56

Aspergillus flavus, Cotton holls, Fungus diseases (plants).

8936-69

STUDIES ON THE MODE OF ACTION OF IN-ORGANIC NITROGENOUS AMENDMENTS ON SCLEROTIUM ROLFSII IN SOIL.

Z. Avizohar-Hershenzon P. Shacked Phytopathology 59(3):288-292 REF

Mar 1969 464 8 P56

Chemical control (plant diseases), Fungus diseases (plants), Quaternary ammonium compounds, Sclerotium rolfsii, Sodium nitrate, Soils, Stem rot.

8937-69

THE SURFACE LOCALIZATION POLYGALACTURONASE IN SPORES GEOTRICHUM CANDIDUM. OF

I Barash L Klein

Phytopathology 59(3):319-324

Mar 1969 464.8 P56

Fungus diseases (plants), Geotrichum candidum, Pectinase, Spores.

8938-69

PEA ENATION MOSAIC VIRUS: GLUCOSE CATABOLISM IN LEAVES AND PODS OF IN-FECTED PEAS.

R F Bozarth Phytopathology 59(3):389-390

Mar 1969 464.8 P56

Enation mosaic (peas), Glueose, Leaves, Metabolism, Peas.

8939-69

PHYTOPHTHORA LEAF FALL AND POD ROT OF HEVEA BRASILIENSIS IN THAILAND.

K H Chee J M F Greenwood

China Plant Protect Bull 16(1):1-5 MAP Feb 1968 464.9 C47

Fungus diseases (plants), Hevea brasiliensis, Phytophthora palmivora, Pod rot, Zoogeography.

AN HYPOTHESIS FOR SELECTION OF STRAINS OF POTATO LEAF ROLL VIRUS BY PASSAGE THROUGH PHYSALIS FLORIDANA.

A W Chiko J W Guthrie Amer Potato J 46(5):155-167 REF

May 1969 75.8 P842

Culture media, Insect vectors, Leaf roll (potatoes), Plant dwarfing, Potatoes, Virus diseases (plants).

THE OCCURRENCE AND SOME PROPERTIES OF BLACK RASPBERRY LATENT VIRUS.

R H Converse R M Lister

Phytopathology 59(3):325-333 REF

Mar 1969 464.8 P56

Amphorophora agathonica, Chenopodium quinoa, Latent virus (black raspberries), Raspherries, Virus diseases (plants).

GENETIC STUDIES OF PEA LEAF-ROLL (TOP-YELLOWS) VIRUS RESISTANCE IN PISUM SATIVUM.

M J Crampton L E Watts

New Zeal J Agr Res 11(4):771-783 REF

Nov 1968 23 N4892

Hyhrids, Leaf roll, Peas, Pisum sativum, Plant discase resistance, Plant diseases, Plant genetics, Virus diseases (plants).

8943-69

FACTORS INVOLVED IN THE DEVELOP-MENT OF PEACH SEEDLING CANKERS IN-DUCED BY CHILLING.

J R Davis H English

Phytopathology 59(3):305-313 REF

Mar 1969 464.8 P56

Canker (peaches), Chemical control (plant diseases), Peaches, Seedlings.

THE DEVELOPMENT OF RESISTANCE IN CLADOSPORIUM CUCUMERINUM AGAINST 6-AZAURACIL, A CHEMOTHERAPEUTANT OF CUCUMBER SCAB, AND ITS RELATION TO BIOSYNTHESIS OF RNA-PRECURSORS.

J Dekker Wageningen Landvouw Lab Fytopathol Med 243:127-136 REF

1968 464.04 W12

Azauridine, 6-, Biosynthesis, Cladosporium cucumerinum, Cueumhers, Drug therapy, Enzymes, Fungus diseases (plants), Growth factors, Plant disease resistance, Rihonucleie acid, Seah, Tahles (data), Triazine-3,5(2H,4H)-dione,6-as-. German summary.

8945-69

THE OCCURRENCE OF INCLUSION BODIES IN LEAF EPIDERMIS CELLS OF SANDAL AF-FECTED WITH SPIKE DISEASE.

J Dijkstra

Neth J Plant Pathol 74(4):101-105

1968 464.8 T44

Cells, Diagnosis, Inclusion bodies, Leaves, Santalum alhum, Spike disease, Virus diseases (plants). Dutch summary.

8946-69

WOUND DRESSINGS FOR THE PREVENTION OF SILVER-LEAF IN FRUITTREES CAUSED BY STEREUM PURPUREUM (PERS.) FR.

M H Dye P J Wheeler

New Zeal J Agr Res 11(4):874-882 REF Nov 1968 23 N4892

Bitumens, Fruit, Fungicides, Fungus diseases (plants), Plant injuries, Plant physiology, Plant protection, Polyvinyl acetate, Silver leaf, Stereum purpureum, Thiocarbamates, Thiram, Trees.

8947-69

EFFECT OF STORAGE TREATMENTS AND FUNGICIDES ON SPROUTING, FLOWERING AND GLADIOLUS CORM PRODUCTION.

A M El-Gamassy I G El-Din An Agr Sci 10(2):333-340 REF

Dec 1965 24 AN72

Corms, Fungicides, Fungus diseases (plants), Fusarium oxysporum gladioli, Gladiolus, Methoxyethyl mercuric chloride, Storage, Temperature, Zineb.

8948-69

THE PITCH OF TOBACCO MOSAIC VIRUS.

Virology 38(1):182-185 REF May 1969 448.8 V81

Electron microscopy, Mosaic, Pitch, Tobacco mosaic virus, Virology, Virus diseases (plants).

EFFECTS OF SLOPING LAND DRAINAGE ON ALFALFA CROWN ROT.

K D Fisher G R Benoit J Bornstein Phytopathology 59(3):386-388 REF

Alfalfa, Crown rot (alfalfa), Drainage, Fungus diseases (plants), Soils.

8950-69

CHARACTERIZATION OF A STRAIN OF XANTHOMONAS VESICATORIA (DOIDGE) ISOLATED FROM A COMMERCIAL FIELD OF GREENPEPPER (CAPSICUM ANNUUM L.) IN CAMPINAS, SAO PAULO. (POR)

A A Frenhani

Biologico 35(2):36-40 REF

Feb 1969 442.8 B529

Mar 1969 464.8 P56

Bacterial diseases (plants), Redpeppers (vegetable), Xanthomonas vesicatoria. English and Portuguese abstract

8951-69

STUDIES ON THE NUTRITION AND DEVELOPMENT OF GAEUMANNOMYCES GRAMINIS (SACC.) VON ARX ET OLIVIER, THE CAUSAL ORGANISM OF THE TAKE-ALL DISEASE OF CEREALS. (FR)

D Gindrat

Schweiz Landwirt Forsch 7(2):197-214 REF 1968 17 SCH99

Fungus diseases (plants), Grain, Mycology, Ophiobolus graminis, Plant morphology, Plant nutrition, Plant physiology, Take-all. English and German summaries.

EFFECT OF 2-DEOXY-D-GLUCOSE ON THE RESPIRATION OF TROPICAL ANTHRACNOSE FUNGI.

G L Greene

Physiol Plant 20(3):580-586 REF

1967 450 P564 (1)

Anthraenose, Biochemistry, Carbohydrates, Colletotrichum glocosporioides, Fungi, Glocosporium musarum, Metabolism.

8953-69

EXCLUSIVE HYPOVIRULENCE, ORIGINAL PHENOMENON IN VEGETABLE PATHOLOGY. (FR)

J Grente S Sauret

Acad Sci Compt Rend Ser D Sci Nat 268(19, 1ST SEMESTER)::2347-2350

12 May 1969 505 P21

Endothia parasitica, Fungus diseases (plants), Phytopathology, Plant diseases, Vegetables, Viru-

CHEMICAL CONTROL OF PEA ROOT ROT BY SOIL-INCORPORATION AND IN-FURROW TREATMENTS WITH I-CHLORO-2-1-CHLORO-2-NITROPROPANE.

W A Haglund

Plant Dis Rep 52(1):72-75

Jan 1968 1.9 P69P

Chemical control (plant diseases), Chloro-2nitropropane, 1-, Dosage, Fungicides, Fungus discases (plants), Fusarium oxysporum pisi, Fusarium solani pisi, Greenhouse culture, Peas, Pythium, Root rot, Soil fumigation, Toxicology.

8955-69

THE MEXICAN SPECIES OF UROMYCES (U-REDINALES).

J F Hennen G B Cummins

Southwest Natur 12(2):146-155

04 Aug 1967 409.6 SO8

Surveys, Uromyces, Zoogeography.

There are 59 species, excluding those on Gramineae, reported, including two new to continental North America, Uromyces eiceris arietinus and U. corallocarpi, and 13 others newly reported from Mexico. A new species, U. sonorcnsis, is described on Merremia palmeri, from near Navojoa, Sowdra.

8956-69

EFFECT OF TMV MULTIPLICATION ON RNA AND PROTEIN SYNTHESIS IN TOBACCO CHLOROPLASTS.

A Hirai S G Wildman

Virology 38(1):73-82 REF

May 1969 448.8 V81

Amino acids, Centrifugation, Chloroplasts, Leaves, Mosaic, Nucleoproteins, Plant diseases, Protein synthesis, Ribonucleie acid, Ribosomes, Tobaceo, Tobacco mosaic virus, Virology, Virus diseases (plants).

8957-69

INFECTION OF MERION BLUEGRASS, POA PRATENSIS, BY STRIPE SMUT, USTILAGO STRIIFORMIS.

C F Hodges M P Britton

Phytopathology 59(3):301-304 REF

Mar 1969 464.8 P56

Fungus diseases (plants), Poa pratensis, Stripe smut (poa pratensis), Ustilago striiformis.

8958-69

PURIFICATION OF SOYBEAN MOSAIC VIRUS. W G Horn H J Walters

Ark Acad Sci Proc 22:72-75 REF

1968 500 AR42

Mosaic, Plant diseases, Soybeans, Virology, Virus diseases (plants).

8959-69

THE STRATEGY OF FINDING FUNGICIDES.

J G Horsfall R J Lukens

Residue Rev 25:81-91 REF 1969 389.9 R314

Antisporulation, Biological assay, Fungicides, Phenoxyacetic acids.

8960-69

PENTACHLOROBENZYL ALCOHOL, A RICE BLAST CONTROL AGENT.

M Ishida H Sumi H Oku

Residue Rev 25:139-147 REF

1969 389.9 R314

Antisporulation, Blast, Fungicides, Metabolism, Pentachlorobenzyl alcohol, Physiology, Rice.

ON THE FUNGICIDAL ACTION OF PHENYL-MERCURIC COMPOUNDS.

T Ishiyama

Residue Rev 25:123-131 REF 1969 389.9 R314

Biological assay, Fungicides, Phenylmereurie eompounds, Physiology.

OCCURRENCE OF VIRUS PARTICLES IN THE PHLOEM TISSUE OF BYDV-INFECTED BAR-LEY.

S G Jensen

Virology 38(1):83-91 REF

May 1969 448.8 V81

Aphididae, Barley, Electron microscopy, Insect vectors, Leaves, Phloem, Plant disease transmission, Plant diseases, Roots, Virus diseases (plants), Yellow dwarf.

8963-69

FUNGICIDAL ACTION GANOPHOSPHORUS COMPOUNDS.

M Kado E Yoshinaga

Residue Rev 25:133-138

1969 389,9 R314

Biological assay, Chemical structure, Fungicides, Organophosphorus compounds, Physiology, Ricc.

REVERSIBLE DISSOCIATION OF CUCUMBER MOSAIC VIRUS (STRAIN S).

J M Kaper

Virology 37(1):134-139 REF Jan 1969 448.8 V81

Cucumbers, Culture media, Mosaie, Sedimentation, Virology, Virus diseases (plants).

8965-69

PATTERN OF CELL DEATH IN SORGHUM STALK TISSUE AS A MEASURE OF THE SUSCEPTIBILITY TO SPREAD OF COLLETOTRICHUM GRAMINICOLA IN FIFTY-FIVE SORGHUM VARIETIES.

R A Katsanos A J Pappelis

Plant Dis Rep 52(1):68-70

Jan 1968 1.9 P69P

Cells, Colletotrichum graminicola, Crop varieties, Fungus diseases (plants), Mortality, Plant disease resistance, Sorghum, Stalk rot, Tissues.

BEHAVIOR OF BELLADONNA MOTTLE VIRUS IN SEROLOGICAL TESTS IN THE PRESENCE OF ORGANIC MERCURY COM-POUNDS.

R Koenig

Virology 38(1):140-144 REF

May 1969 448.8 V81

Belladonna, Mereury compounds, Mottle, Organie compounds, Serological tests, Virology, Virus diseases (plants).

SPORULATION OF CEPHALOSPORIUM GREGATUM ON NATURALLY INFESTED SOYBEAN STRAW.

P Y Lai J M Dunleavy

Phytopathology 59(3):343-345

Mar 1969 464.8 P56

Brown stem rot (soybeans), Cephalosporium gregatum, Fungus diseases (plants), Soybeans.

THE DISASSOCIATION AND REASSOCIATION OF THE PROTEINS OF THE RNA IN THE LU-CERNE MOSIAC VIRUS. (FR)

G Lebeurier M Wurtz L Hirth

Acad Sci Compt Rend Ser D Sci Nat 268(14, 1ST SEMESTER):1897-1899 09 Apr 1969 505 P21

Alfalfa, Biochemistry, Mosaie, Proteins. Ribonucleie acid, Virus diseases (plants).

A TECHNIQUE FOR STUDYING INHIBITION OF THE PARASITIC ACTIVITY OF OPHIOBOLUS GRAMINIS (SACC.) SACC. IN FIELD

E Lester P J Shipton

Plant Pathol 16(3):121-123 Sep 1967 464.8 P692

Barley, Epidemiology, Fungus diseases (plants), Measurement, Methodology, Ophiobolus graminis, Parasitism, Soil microorganisms, Soils, Wheat,

8970-69

THE PRODUCTION OF NEW TYPES OF SYMP-TOMS BY MIXTURES OF DIFFERENT COM-PONENTS OF TWO STRAINS OF ALFALFA MOSAIC VIRUS.

G Majorana H L Paul

Virology 38(1):145-151 REF

May 1969 448,8 V81

Alfalfa, Centrifugation, Mosaic, Plant diseases, Virology, Virus diseases (plants).

THE ROLE OF GLUCOSE IN STIMULATING GERMINATION OF FOMES IGNIARIUS VAR. POPULINUS BASIDIOSPORES.

P D Manion D W French

Phytopathology 59(3):293-296

Mar 1969 464.8 P56

Fomes igniarius, Fungus diseases (plants), Glucose, Populus tremuloides, Seed germination, Spores.

THE INFLUENCE OF NUTRITION ON SUSCEP-TIBILITY OF PEACH FOILAGE TO WATER CONGESTION AND INFECTION BY AND XANTHOMONAS PRUNI.

F N Matthee R H Daines

Phytopathology 59(3):285-287 REF

Mar 1969 464.8 P56

Bacterial spot (peaches), Nitrogen, Peaches, Plant nutrition, Potassium, Xanthomonas pruni.

A SEROLOGICAL COMPARISON OF SIX HETEROTHALLIC SPECIES PHYTOPHTHORA.

W G Merz R G Burrell M E Gallegly

Phytopathology 59(3):367-370

Mar 1969 464.8 P56

diseases Fungus (plants). Phytophthora. Phytophthora citrophthora.

8974-69

SUGAR-CANE MOTH BORERS IN THE CARIB-BEAN.

LR Metealfe

Int Pest Contr 11(2,MAR-APR):12-15

Mar 1969 79.8 P432

Crop losses, Diatraea succharalis, Insecticides, Moths, Pest control, Spraying, Sugarcane.

ROLE OF PYTHIUM IN DAMPING-OFF OF PEACH.

S M Mircetich H W Fogle

Phytopathology 59(3):356-358

Mar 1969 464.8 P56

Fungus diseases (plants), Peaches, Pythium, Seedlings.

AFFECTING SEVERITY FACTORS OF SEEDLING BLIGHT OF CORN IN THE UNITED ARAB REPUBLIC.

H A Mohamed W E Ashour A R Sirry S M Fathi Plant Dis Rep 52(1):79-83

Jan 1968 1.9 P69P

Blight, Captan, Chlorinated hydrocarbons, Corn, Fungicides, Fungus diseases (plants), Fusarium moniliforme, Gibberella zeae, Greenhouse culture, Nigrospora oryzae, Penicillium oxalicum, Plant protection, Planting, Seed treatment, Seedlings, Temperature.

8977-69

FUNGI CAUSING SEEDLING BLIGHT OF CORN IN THE UNITED ARAB REPUBLIC.

H A Mohamed W E Ashour A R Sirry S M Fathi Plant Dis Rep 52(1):84-86

Jan 1968 1.9 P69P

Blight, Corn. Diagnosis, Fungus diseases (plants), Fusarium moniliforme, Gibberella zeae, Hydroponies, Nigrospora oryzae, Penicillium oxal-icum, Rot, Seedlings, Seeds.

8978-69

FIGHT STALK ROT WITH RIGHT FERTILITY. A Mycr

Better Crops Plant Food 43(1):26-29

1969 6 B46

Corn, Diplodia, Fertility, Fungus diseases (plants), Gibberella, Hydroponics, Nitrogen, Ostrinia nubilalis, Phosphorus, Potassium, Stalk rot (corn).

EFFECTS OF THE FUNGUS ERYSIPHE GRAMINIS F, SP. HORDEI MARCHAL ON THE TRANSPIRATION OF BARLEY. (GE)

S Priehraony C Paulech

Biologia (bratislava) 24(4):261-272 REF

1969 442.8 B5265

Barley, Erysiphe graminis hordel, Fungus diseases (plants), Plant physiology, Plant transpiration, Powdery mildew. Russian and Czech abstracts. 8980-69

AGRICULTURAL MICROBIOLOGY.

G Rangaswami

New York, Asia 413 P

1966 QR51,R3 Agriculture, Food contamination, Microbiology, Microscopy, Plant diseases, Soil microorganisms.

TEN YEARS OF OBSERVATIONS ON CITRUS CANKER. (POR)

V Rossetti C C Lasca T Namekata

Biologico 35(2):45-48

Feb 1969 442,8 B529

Bacterial diseases (plants), Canker (citrus), Citrus,

8982-69

A LEAF DISORDER OF CACAO IN COSTA RICA.

J A Salas A J Hansen

Phytopathology 53(1):25

Jan 1963 464.8 P56

Cacao, DDT, Leaves, Malathion, Plant diseases.

8983-69

TEMPERATURE RESPONSE OF SEEDS DUR-ING THE EARLY PHASES OF GERMINATION AND ITS RELATION TO INJURY BY RHIZOC-TONIA SOLANI.

F A Schulz D F Bateman

Phytopathology 59(3):352-355 REF

Mar 1969 464.8 P56

Beans, Corn, Cucumbers, Fungus diseases (plants), Peas, Rhizoctonia solani, Temperature.

TOBACCO ETCH VIRUS CYLINDRICAL IN-CLUSIONS: ANTIGENICALLY UNRELATED TO THE CAUSAL VIRUS.

J F Shepard T A Shalla Virology 38(1):185-188 REF

May 1969 448.8 V81

Antibodies, Antigens, Etch, Inclusion bodies, Tobacco, Virology, Virus diseases (plants).

8985-69

NEW OR UNCOMMON PLANT DISEASES AND PESTS; SMUT (ENTYLOMA COMPOSITARUM) OF GAILLARDIA ARISTATA PURSH.

P J Shipton

Plant Pathol 16(3):143-144

Sep 1967 464.8 P692

Fungus diseases (plants), Gaillardia, Mycology, Plant diseases, Plant taxonomy, Smut.

8986-69

A FRUIT ROT OF STRAWBERRIES CAUSED BY ZYTHIA FRAGARIAE.

P J Shipton

Plant Pathol 16(3):123-125

Sep 1967 464.8 P692

Fruit rot, Fungus diseases (plants), Strawberries, Symptomatology, Zythia fragariac.

THE DOWNY MILDEW AND STALK ROT DIS-EASES OF MAIZE.

R S Singh

Pesticides 1(10):15-17

Jun 1968 SB951.P43

Cephalosporium, Corn, Downy mildew (corn), Erwinia carotovora, Fusarium moniliforme, Pseudomonas, Pythium butleri, Sclerophthora, Sclerospora, Stalk rot (corn).

AGROPYRON REPENS AND OTHER PERENNI-AL GRASSES AS HOSTS OF BROMEGRASS MOSAIC VIRUS FROM THE U.S.S.R. AND THE UNITED STATES.

J T Slykhuis

China Plant Protect Bull 15(4):65-66 REF

Aug 1967 464.9 C47

Agropyron repens, Host indexing (plants), Virus diseases (plants),

8989-69

OCCURRENCE OF BROWN SPOT ON TOBAC-CO IN KENTUCKY IN 1966.

J H Smiley R A Flowers C Y Yang

Plant Dis Rep 52(1):71

Jan 1968 1.9 P69P

Alternaria longipes, Brown spot, Diagnosis, Epidemiology, Fungus diseases (plants), Tobacco.

8990-69

CALONECTRIA FLORIDANA SP. NOV., THE PERFECT STAGE OF CYLINDROCLADIUM FLORIDANUM.

E.K. Sobers

Phytopathology 59(3):364-366

Mar 1969 464.8 P56

Calonectria floridana. Cylindrocladium floridanum, Fungus discases (plants), Peaches, Seedlings.

8991-69

THERAPEUTIC **EFFECT** THE THERAPEUTIC EFFECT OF THIABENDAZOLE, 2-(4-THIAZOLYL) BENZIMIDAZOLE, AGAINST CERCOSPORA LEAF SPOT ON SUGAR BEETS WHEN AP-PLIED AS A SOIL DRENCH.

G F Stallnecht G L Crane Phytopathology 59(3):393

Mar 1969 464.8 P56

Cercospora beticola, Fungicides, Fungus diseases (plants), Leaf spot (sugar beets), Sugar beets, Thiazolyl)-benzimidizole, 2-(4-.

TRANSMISSION OF APPLE VIRUSES BY LEAF TISSUE IMPLANTATION.

R F Stouffer

Phytopathology 59(3):274-278 REF

Mar 1969 464.8 P56

Apples, Chenopodium, Chlorotic leafspot (apples), Decline (apples), Malus, Plant disease transmission, Spy 227, Virus diseases (plants).

8993-69

PARTIAL RECONSTITUTION OF TOBACCO MOSAIC VIRUS.

C Stussi G Lebeurier L Hirth Virology 38(1):16-25 REF

May 1969 448,8 V81

Centrifugation, Electron microscopy, Mosaic, Nucleoproteins, Plant diseases, Ribonucleic acid, Tobacco, Tobacco mosaic virus, Virology, Virus discases (plants).

8994-69

VIRUS-LIKE PARTICLES IN GALLS ON SU-GARCANE PLANTS AFFECTED BY FIJI DIS-EASE.

D S Teakle D R L Steindl

Virology 37(1):139-145 REF

Jan 1969 448.8 V81

Diagnosis, Fiji diseasc, Microscopy, Plant galls, Ribonucleic acid, Sugarcane, Virology, Virus diseases (plants).

PHOSPHATIDASE PRODUCED RY SCLEROTIUM ROLFSII.

T Tseng D F Bateman

Phytopathology 59(3):359-363 REF

Mar 1969 464.8 P56 Beans, Fungus diseases (plants), Phospholipase, Sclerotium rolfsii.

THE RELATIVE EFFICIENCY OF EAR-TO-ROW AND CONVERGENT IMPROVEMENT IN INCREASING DISEASE RESISTANCE OF ZEA

V Ulrich R S Snell

W Va Acad Sci Proc 39:235-242 REF

1967 500 W52

Corn, Crop varieties, Plant breeding, Plant disease resistance.

8997-69

INVASION OF PLANT TISSUE BY BACTERIA UNDER IN VITRO CONDITIONS.

J G Valdovinos E W Henry

Plant Physiol 43(10):1730-1733 REF

Oct 1968 450 P692

Assay, Baeterial diseases (plants), Electron microscopy, Enzymes, Indoleacetic acid, Pisum sativum, Plant physiology, Plant regulators, Plant tissues.

8998-69

DARK GREEN EPINASTY OF CHENOPODIUM QUINOA, A SYNDROME INDUCED BY A VIRUS LATENT IN APPLE AND PEAR.

H E Waterworth R M Gilmer

Phytopathology 59(3):334-338 REF

Mar 1969 464.8 P56

Apples, Chenopodium quinoa, Epinasty, Latent virus (apples), Latent virus (pears), Pears, Virus diseases (plants).

8999-69

CALCIUM NUTRITION AND BLACK SHANK OF TOBACCO.

W H Wills L D Moore

Phytopathology 59(3):346-351 REF

Mar 1969 464.8 P56

Black shank (tohacco), Calcium, Phytophthora parasitica nicotianae, Plant nutrition, Tobacco.

9000-69

PRESENCE OF TWO TREE VASCULAR DISEASES CONFIRMED IN ARKANSAS.

C L W ilson

Plant Dis Rep 52(1):79

Jan 1969 1.9 P69P

Albizia julibrissin, Cephalosporium diospyri, Fungus diseases (plants), Fusarium oxysporum perniciosum, Mimosa, Persimmons, Tree diseases, Wilt.

9001-69

CONTROL OF FAIRY RING DISEASE OF THE CULTIVATED CRANBERRY.

B M Zuckerman K J Rochefort G B Rounsville

Plant Dis Rep 52(1):87-88

Jan 1968 1.9 P69P Chemical control (plant diseases), Cranberries, Dosage, Fairy rings, Ferbam, Fungicides, Fungus diseases (plants), Psilocybe agrariella vaecinii, Roots.

ARTHROPODS

9002-69

CHARACTERISTICS OF THE STOPPED AND SCARRED DAMAGES DUE TO THE COD-DLING MOTH (LASPEYRESIA POMONELLA L.) WITH A MET HOD OF INTERPRETATION OF THE VARIOUS FORMS OF DAMAGES OB-SERVED ON APPLES. (FR)

M Baggiolini H Grob

Schweiz Landwirt Forsch 7(2):187-196

1968 17 SCH99

Apples, Crop losses, Insect pests, Laspeyresia pomonella, Methodology, Olethreutidae, Plant injuries. English and German summaries.

9003-69

ON THE BIONOMICS OF LYCTOCORIS BENEFICUS (HIURA) AND XYLOCORIS GALACTINUS (FIEBER) (ANTHOCORIDAE, HETEROPTERA).

Y I Chu

Kyushu Univ Fac Agr J 15(1):1-136 REF

Mar 1969 107.6 K995

Anthocoridae, Beneficial insects, Biological control (insects), Chilo suppressalis, Insect biology, Lyetoeoris beneficus, Preduceous insects, Reviews, Xylocoris galactinus.

9004-69

AERIAL SPRAY TESTS AGAINST GYPSY MOTH. PORTHETRIA DISPAR IN NEW YORK. D P Connola R C Sweet

1 Econ Entomol 54(2):315-316

Apr 1961 421 J822

Aerial spraying, Carbaryl, DDT, New york, Porthetria.

9005 60

FACTORS INFLUENCING EGG SURVIVAL OF SCOLYPOPA AUSTRALIS WALKER (HEMIPTERA-IIOMOPTERA: RICANIIDAE) IN THE SYDNEY AREA (N. S. W. AUSTRALIA).

R A Cumber

New Zealand J Sci 10(3):639-643

Sep 1967 514 N482

Chrysopidae, Eulophidae, Inseet eggs, Natural control (insects), Parasitic insects, Scelionidae, Scolypopa australis.

An analysis of oviposition materials of Scolypopa australis Walker, from the Sydney area, N. S. W., has been earried out to ascertain the factors influencing egg survival. This follows a similar assessment in New Zealand. Eggs have been classified under the categories: died during emergence; normal emergence; parasitized by the aphelinid Centrodora seolypodae Val; parasitized by undetermined seelionid; shrivelled through various eauses; destroyed by chrysophid.

9006.60

INFESTATION OF PEACHES BY RHAGOLETIS SUAVIS.

R W Dean

J Econ Entornol 62(4):940-941

15 Aug 1969 421 J822

Peaches, Rhagoletis suavis, Tephritidae.

9007-6

TRANSMISSION OF STRAWBERRY MOTTLE VIRUS BY JUICE AND APHIDS TO HERBACEOUS HOSTS.

N W Frazier

Plant Dis Rep 52(1):64-67

Jan 1968 1.9 P69P

Aphididae, Chaetosiphon jaeobi, Insect vectors, Mottle, Plant disease transmission, Secretion, Strawberries, Virus diseases (plants).

9008-69

CONTROL OF THE LESSER CORNSTALK BORER ATTACKING PEANUTS.

J A Harding

J Econ Entornol 53(4):664-667, TABS.

Aug 1960 421 J822

Chlordane, DDT, Elasmopalpus, Endrin, Parathion, Peanuts, SD-4402.

9009-69

CURRENT STATUS OF BROWN SOFT SCALE IN CITRUS GROVES OF THE LOWER RIO GRANDE VALLEY.

W G Hart S Ingle M Garza

Entomol Soc Amer Ann 62(4):855-858

Jul 1969 420 EN82

Chemical control (insects), Citrus, Coccus hesperidum, Insecticides, Methyl parathion, Organophosphorus compounds, Population, Surveys.

Populations of brown soft scale, Coccus hesperidum L. (Homoptera: Coccidae), observed in 20 Rio Grande Valley citrus groves during 1966 showed a continued decrease in the general intensity of infestations. Population density of parasites and possible influence of ultra-low-volume applications of methyl parathion are discussed.

9010-69

INTEGRATED CHEMICAL CONTROL OF INSECTS AND BIOLOGICAL CONTROL OF MITES ON APPLE IN WASHINGTON.

S C Hoyt

J Econ Entomol 62(1):74-86 REF

17 Feb 1969 421 J822

Aculus schlechtendali, Apples, Biological control (insects), Chemical control (insects), Insect pests, Integrated control (insects), Mites, Panonychus ulmi, Tables (data), Tetranychus medanieli, Typhlodromus occidentalis.

9011-69

ECOLOGY OF UTAH APPLE MITES: A STATEMENT OF THE PROBLEM.

C D Jorgensen

Utah Acad Sci Arts Lett Proc 44(1):265-274 REF 1967 500 UT1

Acarina, Apples, Insect control, Insect ecology.

9012-69

INSECT PARASITES IN THE NATURAL CONTROL OF SPECIES OF RICE STEM BORERS ON LUZON ISLAND, PHILIPPINES.

M A Kamran E S Raros

Entomol Soc Amer Ann 62(4):797-801 REF

Jul 1969 420 EN82

Apanteles, Chilo suppressalis, Natural control (insects), Parasitic insects, Rice, Surveys, Tetrastichus, Tryporyza incertulas.

9013-69

INSECT VS MEN.

S K Khanna

Pesticides 1(10):26 Jun 1968 SB951.P43

Agricultural economics, Crop losses, Insect con-

9014-69

OBSERVATIONS ON BIRD TANGLEFOOT TRAPS AS A DIRECT METHOD OF APPLE MAGGOT CONTROL.

C W Maxwell

J Econ Entornol 62(4):945-946

15 Aug 1969 421 J822

Adhesives, Apples, Insect traps, Plant pest control, Rhagoletis pomonella, Traps.

9015-69

EFFECT OF INSECTICIDES ON ANT AND SPIDER POPULATIONS IN LOUISIANA SUGARCANE FIELDS.

A A Negm S D Hensley

J Econ Entornol 62(4):948-949

Aug 1969 421 J822

Azinphosmethyl, Beneficial insects, Chlorinated hydroearbons, Diatraea saecharalis, Endrin, Formicidae, Heptachlor, Insecticides, Natural control (insects), Organophosphorus compounds, Predaceous insects, Solenopsis saevissima richteri, Spiders, Sugarcane.

9016-69

CHEMICAL CONTROL OF THE JUNIPER WEBWORM ON IRISH JUNIPER.

G L Nordin J E Appleby

J Econ Entomol 62(1):23-24

17 Feb 1969 421 J822

Chemical control (insects), Dichomeris marginella, Insect pests, Insecticide application, Insecticides, Juniperus communis, Plant injuries, Spraying.

9017-69

CORN EARWORM INFESTATION IN RIPE STRAWBERRIES.

E R Oatman

J Econ Entomol 62(4):947-948

15 Aug 1969 421 J822

Heliothis zea, Insect pests, Larvae, Strawberries, Tomatoes.

9018-69

THE LEAF SNOUT WEEVIL OF THE AVOCADO. (SP)

R C Padilla M M Villa Fitofilo 21(57,JAN-MAR):43-48

Mar 1968 421 F55 Avocados, Chemical control (insects), Cureulionidae, Insect biology, Insect control, Malathion,

Parathion.

A REVIEW OF LEPIDOPTEROUS PESTS OF CONIFEROUS FORESTS IN THE BAYKAL RE-

1 A Raygorodskaya

Entornol Rev 46(2 APR-JUN):186-190 REF

1967 421 R322AE

Coniferae, Demography, Environment, Forest insects, Insect nutrition, Larix, Lepidoptera, Picea, Pinus, Tables (data), Tree injuries. Translated from Russian. listing of many species

9020-69

ROLE OF WINTER CRESS, BARBAREA VUL-GARIS, AS A TEMPORAL HOST IN THE SEASONAL DEVELOPMENT OF THE CRU-CIFER FAUNA.

BIBLIOGRAPHY

9021-69

R B Root J O Tahvanainen

Entomol Soc Amer Ann 62(4):852-855

Jul 1969 420 EN82

Barbarca vulgaris, Chrysomelidae, Cruciferae, Food habits, Insect behavior, Surveys.

9021-69

EXPERIMENTS ON THE CONTROL OF ROOT PESTS OF BRASSICAE.

T Rosborough

Plant Pathol 16(3):110

Sep 1967 464.8 P692

Brassicae, Bromophos, Cabbage, Ceutorhynchus pleurostigma, Chemical control (insects), Chlorfenvinphos, Diazinon, Insect pests, Mecarbam, Plant injuries, Plant protection, Roots.

SOME ECOLOGICAL OBSERVATIONS AND RESULTS OF THE CONTROL OF ARGYRESTHIA FUNDELLA F. R. (SE)

1 Spaic

Sumarski List 92(5/6 MAY-JUN):165-188 REF 1968 99.8 SU6

Acrial spraying, Argyresthia fundella, Biological control (insects), Chemical control (insects), Chlorinated hydrocarbons, Dicladocerus, DDT, Eulophidae, Gelis, Ichneumonidae, Insect hiology, Insect ecology, Insecticides, Parasitic insects, Pine needles, Tetrastichus, Yponomeutidae, Zoogeography. German summary.

9023-69

HOUSE SPARROWS AND A FIELD INFESTA-TION OF TOBACCO HORNWORM LARVAE.

P A Stewart

J Econ Entomol 62(4):956-957

15 Aug 1969 421 J822

Birds, Manduca sexta, Natural control (insects), Sparrows, Tobacco.

ADDITIONAL EVIDENCE OF MULTIPLICA-TION OF THE SOWTHISTLE YELLOW VEIN VIRUS IN AN APHID VECTOR-SERIAL PASSAGE.

E S Sylvester J Richardson

Virology 37(1):26-31 REF

Jan 1969 448.8 V81

Aphididae, Insect vectors, Mortality, Plant disease transmission, Sonchus, Virology, Virus diseases (plants), Yellow vein.

NEMATODES

9025-69

EELWORMS-A PROGRESS REPORT ON FEW MORE GROUPS FOUND IN NORTH-EAST INDIAN TEA SOILS.

S D Basu

Tocklai Exp Sta Newslett 15(2):70-71

Jun 1968 68.18 T93

Animal adaptation, Animal morphology, Aphelenchus, Economics, Macroposthonia, Meloidodera, Mononchus, Nematodes, Pratylenchus, Soil microorganisms, Surveys, Tea, Trichodorus.

9026-69

THE DISTRIBUTION OF THE FAMILY HETERODERIDAE (FILIPJEV, 1934) SOUTH AFRICA AND SOME HOST RECORDS OF MELOIDOGYNE SPECIES.

V Coetzee

S Afr J Agr Sci 11(4):775-788 MAP REF

Dec 1968 24 SU3

Cotton, Grasses, Heterodinae, Meloidogyne, Plant nematodes, Zoogeography.

ON THE KNOWLEDGE OF THE SEASONAL DYNAMICS OF HETERODEROSIS IN SUGAR BEETS IN EAST-SLOVAKIA (CSSR). (GE)

J Curi

Helminthologia 7(1/4):329-336 REF

1966 436.8 H36

Climate, Heterodera schachtii, Plant nematodes, Sugar heets, Temperature, Weather. English and Russian summaries.

THE RELATION OF CLIMATIC FACTORS TO THE DURATION OF THE DEVELOPMENT OF HETERODERA SCHACHTII IN SLOVAKIA (CSSR), (GE)

J Curi I Zmoray

Helminthologia 7(1/4):49-63 REF

1966 436.8 H36

Climate, Helminthology, Heterodera schachtii, Humidity, Light, Morphology, Plant nematodes, Rainfall, Soil temperature. English and Russian summa-

9029-69

XIPHINEMA AMERICANUM ASSOCIATED MAPLE DECLINE IN SACHUSETTS.

C P DiSanzo R A Rohde

Phytopathology 59(3):279-284 REF

Mar 1969 464.8 P56

Acer saccharum, Decline, Plant nematodes, Xiphinema americanum.

9030-69

NUTRITIONAL REQUIREMENTS REPRODUCTION OF A TEMPERATURE SEN-SITIVE NEMATODE, REARED IN AXENIC CULTURE.

H V Fatt

Soc Exp Biol Med Proc 124(3):897-903

Mar 1967 442.9 SO1

Methodology, Nutrition, Plant nematodes. Reproduction, Temperature, Tissue culture.

9031.69

A FOLIAR DISEASE OF TUBEROSE CAUSED BY APHELENCHOIDES BESSEYI.

O V Holtzmann

Plant Dis Rep 52(1):56

Jan 1968 1.9 P69P

Aphelenchoides besseyi, Chlorosis, Leaf spot, Ornamental plants, Plant diseases, Plant nematodes, Polianthes tuberosa, Taxonomy.

9032-69

SEASONAL HISTORY AND RESPONSE TO IN-SECTICIDES OF HELIOTHIS SPECIES ON COTTON.

R J Ledhetter

Diss Abstr Sect B 28(8):3323B

Feh 1968 Z5055.U49D53

Cotton, DDT, Endrin, Genetics, Heliothis, Larvae, Seasons

9033.69

INVESTIGATIONS ON THE MIGRATORY ROOT NEMATODE PRATYLENCHUS NEGLECTUS ON FODDER GRASSES.

T Wetzel

Nematologica 15(2):193-200 REF

May 1969 436.8 N342

Beets, Chemical control (nematodes), Crop rotation, Cultural control (plant diseases), Grasses, Nematode control, Plant nematodes, Pratylenchus neglectus, Sodium N-methyldithioearbamate.

WEEDS

9034-69

AERIAL SPRAYING OF FORESTS: NOTES FOR LANDOWNERS.

J R Aldhous

Quart J Forest 63(2):152-155

Apr 1969 99.8 Q2

Aerial spraying, Aircraft, Forests, Land, Spraying, Weed control.

9035-69

ARE HERBICIDES DOING THEIR JOB.

Anonymous

Amer Veg Grower 17(1):22,38,40

Jan 1969 80 C733

Chemical control (weeds), Chlorinated hydrocarbons, Daethal, Dalapon, Diallate, Dinitrocresol, Ethyl N,N-dipropylthiocarbamate, Herbicides, Linuron, Potatoes, Surveys, Weed control, Weeds. Many weeds and herbicides are mentioned

9036-69

CERTAIN 2-ALKANOYLAMINO-5-HALOTHIAZOLES, PATENT 3.427.318.

M S Barber D R Broad B J Heywood Us Patent Office Offic Gaz 859(2):595

11 Fcb 1969 156.65 OF2

Chemical control (weeds), Halogen compounds, Herbicides, Patents, Thiazole compounds.

9037-69

ALTERATION OF PLANT GROWTH HABIT AS A MEANS OF CONTROLLING RHIZOMATOUS SPECIES.

L E Bendixen

Weed Soc Amer Abstr 1966 MEETING:68

1966 241 W41

Annual plants, Chemical control (weeds), Grasses, Herbicides, Perennial plants, Plant physiology, Plant reproduction, Tissues.

CHEMICAL MEDIATION OF GROWTH MOVE-MENTS IN DODDER.

L L Danielson W A Gentner

Weed Soc Amer Abstr 1966 MEETING:67

1966 241 W41

Chemical control (weeds), Cuscuta indecora, Dimethyl 2.3,5,6-tetrachloroterephthalate, In-2,3,5,6-tetrachloroterephthalate, Infrared rays, Plant physiology.

EVALUATION OF HERBICIDES APPLIED TO THE SOIL FOR WEED CONTROL IN IR-RIGATED SUGAR BEETS.

J H Dawson

Wash Agr Exp Sta Sta Bull (708):11P REF

Jun 1969 100 W27E

Chemical control (weeds), Chloro-Nisopropylacetanilide, 2-, Cycloate, Ethyl N,N-dipropylthiocarbamate, Herhicides, Irrigation, Pebulate, Pyrazon, Soils, Sugar beets.

9040-69

IMINODIOXOLANES HERBICIDES. PATENT 3,427,147.

H J Dietrich G G King J V Karabinos Us Patent Office Offic Gaz 859(2):563

11 Fch 1969 156.65 OF2 Chemical control (weeds), Dioxolane compounds,

Grasses, Herbicides, Patents, Plant physiology.

THE INFLUENCE OF ENVIRONMENT ON THE PHYTOTOXICITY OF DICAMBA, PICLORAM, BROMOXYNIL AND 2,4-D ESTER.

H A Friesen D A Dew

Weed Soc Amer Abstr 1966 MEETING:69-70 1966 241 W41

Bromoxynil, D, 2,4-, Dicamba, Environment, Esters, Fagopyrum tataricum, Herbieides, Humidity, Light, Picloram, Plant ecology, Plants, Temperature, Wheat.

9042-69

HERBICIDAL ACTIVITY OF SOME PYRIDAZINE DERIVATES, PART III. 3-PHENOXYPYRIDAZINES AND RELATED HERBICIDAL COMPOUNDS.

T Jojima N Yoshimura T Takematsu S Tamura Agr Biol Chem 33(1):96-102

Jan 1969 385 AG8B

Grasses, Herbieides, Maleic hydrazide, Pyridazine compounds, Rice.

9043-69

SIMILARITY BETWEEN PHYTOKININS AND HERBICIDAL PHENYLURETHANES.

J D Mann K H Yung W B Storey M Pu J Conley Plant Cell Physiol 8(4):613-622 REF

Dec 1967 450 P699

Chromatin, Herbicides, Meiosis, Phenylurethane, Plant physiology, Sesbania exaltata.

BIOCHEMICAL ASPECTS OF PARASITISM BY THE ANGIOSPERM PARASITES: HOST-PARASITE INTERRELATIONSHIP IN PHOSPHATASE ACTIVITY.

R L Mattoo P N Viswanathan P S Krishnan

Physiol Plant 22(2):638-647

05 Jun 1969 450 P564 (1)

Angiospermae, Cuscuta, Orobanche, Parasitic plants, Phospbatases, Plant metabolism.

CHEMICAL WEED CONTROL IN COTTON: I. GROWTH AND YIELD RESPONSE OF COTTON PLANTS TO SOME HERBICIDES.

M A Moursi A A Abd El-Gawad T S Ismail

An Agr Sci 10(2):237-249 REF

Dec 1965 24 AN72

Chemical control (weeds), Chloropropham, Cotton, Crop yields, Dieryl, Diuron, Herbicides, Plant physiology, Simazine.

WEED CONTROL IN COTTON.

P V M Richards H J A van Lindert Rhodesia Agr J 65(6,NOV-DEC):138

Nov 1968 24 R34

Aniline, Chemical control (weeds), Chlorinated hydrocarbons, Cotton, Herbicides, Soils, Triflu-

9047-69

PHENOXYPYRIDAZINES AS HERBICIDES. PATENT 3,427,146.

S Tamura T Takematsu K Oyamada T Jojima Us Patent Office Offic Gaz 859(2):563

11 Feb 1969 156.65 OF2

Chemical control (weeds), Herbieides, Patents, Plant growth inhibitors, Pyridazine compounds.

EFFECTS OF FIVE HERBICIDES ON THREE GREEN ALGAE.

B D Vance D L Smith

Tex J Sci 20(4):329-337 REF

25 Apr 1969 470 T31

Algae, Amitrole-T, Chemical control (weeds), D, 2,4-, Dacthal, Herbicides, Simazine, T, 2,4,5-.

EVALUATION OF ARZAMA DENSA AS AN AID IN THE CONTROL OF WATER HYACINTH IN LOUISIANA.

E Vogel A D Oliver

J Econ Entomol 62(1):142-145

17 Feb 1969 421 J822

Aquatic weeds, Arzama densa, Beneficial insects, Biological control (weeds), Eichhornia erassipes, Larvae

9050-69

RECORDS OF THE HIGHER FUNGI OF MIN-NESOTA.

M G Weaver R 1. Shaffer

Minn Acad Sci J 35(2-3):123-128

1969 500 M663

Dwarf mistletoe, Parasitic plants, Picea, Plant diseases, Zoogeography.

Known areas of dwarf mistletoe infections in Minnesota are compared with the distribution of white and black spruce. A summary of disease symptoms and identification of the parasite is included.

OTHER PESTS

9051-69

CONTROL OF THAR (HEMITRAGUS JEM-LAHICUS): EVALUATION OF A POISONING TECHNIQUE.

M H Douglas

New Zealand J Sci 10(2):511-526 MAP REF Jun 1967 514 N482

Baits, Goats, Pest control, Poisons, Sodium ethylmercurithiosalicylate, Wildlife.

An attempt was made to evaluate a poisoning technique utilizing compound 1080 and carrots for the control of thar. Pre-poisoning and post-poisoning counts were undertaken in three Zones to define the effectiveness of the poison and pre-feeding. Zone I with no pre-feeds had an estimated kill of 11 per cent, Zone II with one pre-feed an estimated kill of 30 percent, Zone III with two pre-feeds an estimated kill of 51 per cent.

LIVESTOCK PROTECTION

9052-69

MEADOW VOLE USED IN HAY RESEARCH.

Anonymus

Sci News Lett 94(21):520

23 Nov 1968 470 SCI24

Animal breeding, Digestion, Field mice, Forage plants, Hay, Intestines, Laboratory animals, Research, Rodents, Toxins.

HOUSE FLY PUPAE AS FOOD FOR POULTRY.

C C Calvert R D Martin N O Morgan

J Econ Entomol 62(4):938-939

Aug 1969 421 J822

Chicks, Feed, Musca domestica, Proteins, Pupae,

CAUSE AND PREVENTION OF EPIZOOTIC BOVINE ABORTION.

D G McKercher

Amer Vet Med Ass J 154(10):1192-1196 REF 15 May 1969 41.8 AM3

Abortion, Cattle.

VARIATIONS IN BODY TEMPERATURE ASSOCIATED WITH REPRODUCTIVE STATE IN THE FEMALE RABBIT.

Y Tsutsumi M Takabashi N Oguri Y Hacbinobe Hokkaido Univ Fac Agr J 55(PT 4):363-381 REF May 1968 107.6 J273J

Animal temperature, Estrus, Pregnancy, Rabbits, Reproduction.

RED BLOOD CELL COUNT IN RELATION TO REPRODUCTIVE PHASES IN THE FEMALE RABBIT.

Y Tsutsumi M Takahashi N Oguri Y Hacbinobe Hokkaido Univ Fac Agr J 55(PT 4):402-420 REF May 1968 107.6 J273J

Blood cells, Erythrocytes, Estrus, Pregnancy, Rabbits, Reproduction.

DISEASES

THE N-TERMINAL AMINO ACID OF AN AVIAN LEUKOSIS GROUP-SPECIFIC ANTIGEN FROM AVIAN MYELOBLASTOSIS VIRUS.

D W Allen

Virology 38(1):32-41 REF

May 1969 448.8 V81

Amino acids, Antigens, Avian leukosis complex, Avian myeloblastosis, Birds, Chromatography, Electrophoresis, Molecular weight, Proteins, Virology, Virus diseases (animals).

VIRUSES OF VERTEBRATES, ED. 2.

C H Andrewes H G Pereira

London, Bailliere, Tindall And Cassell 432 P 1967 QR360.A5

Vertebrates, Viruses.

9059-69

HOW BENEFICIAL ARE FEED ADDITIVES.

W M Beeson

Amer Vet Med Ass J 154(10):1214-1219 15 May 1969 41.8 AM3

Antibiotics, Cattle, Chlortetracycline, Feed addi-Feedlots, Melengestrol acetate. tives. Sulfamethazine.

STUDIES ON THE BIOSYNTHESIS AND DEGRADATION OF PHOSPHATIDYLBETA-METHYLCHOLINE BY HOUSEFLY LARVAE. (ABSTRACT).

L L Bieber L G Sellers S S Kumar

Fed Amer Soc Exp Biol Fed Proc 27(2):457 Mar 1968 442.9 F31P

Calcium, Insect biochemistry, Larvae, Lecithins, Musca domestica, Phospbolipase.

906I-69

MYCOPLASMA INFECTIONS WITH EMPHA-SIS ON THE CONTROL OF M. GALLISEP-TICUM.

C H Bigland

Can Vet J 10(4):91-97 REF

Apr 1969 41.8 R3224

Antibiotics, Chronic respiratory disease, Infectious diseases, Livestock diseases, Mycoplasma gallisepticum, Poultry, Respiratory diseases, Sanitation, Sinusitis, Turkey. French summary.

9062-69

MYCOTOXICOSIS ASSOCIATED WITH ENTEROCOLITIS HEMORRHAGIC AND ABORTION IN SWINE.

D I Blevins M W Glenn A H Hamdy T F

Brodasky R A Evans

Amer Vet Med Ass J 154(9):1043-1050 REF

01 May 1969 41.8 AM3

Abortion, Diarrhea, Infectious diseases, Mycotoxicosis, Penicillium rubrum, Serum, Swinc. English

3-METHYLENE-ANDROSTAN-17BETA-OLS AND 17-ALKYL DERIVATIVES THEREOF. PATENT 3,427,386.

A Bowers J Edwards J C Orr

Us Patent Office Offic Gaz 859(2):607-608

11 Feb 1969 156.65 OF2

Androstan-17beta-ol compounds, Animals, Chemicals, Metabolism, Patents.

9064-69

EFFECT OF FOOD INTAKE ON GROWTH AND SURVIVAL OF SALMONELLAS AND ESCHERICHIA COLI IN THE BOVINE RUMEN,

L E Brownlie F H Grau

J Gen Microbiol 46(1):125-134 REF

Jan 1967 448.3 J823

Cattle, Escherichia coli, Food consumption, Longevity, Rumen, Salmonella.

CONTROL OF EQUINE PIROPLASMOSIS IN

J E Bryant J B Anderson K H Willers Amer Vet Med Ass J 154(9):1034-1036

01 May 1969 41.8 AM3

Babesia caballi, Dermacentor, Horses, Pesticides, Piroplasmosis, Serum. English summary.

9066-69

THE STRUCTURE OF THE MAMMARY TUMOR VIRUS.

J Calafat P Hageman

Virology 38(2):364-368 REF

Jun 1969 448.8 V81

Mammary glands, Mice, Neoplasms, Viruses.

9067-69

ACTINOBACILLUS LIGNIERESII INFECTION IN A DOG.

A V Carb S K Liu

Amer Vet Med Ass J 154(9):1062-1067 REF 01 May 1969 41.8 AM3

Dogs, Infectious diseases, Kidneys, Liver, Lympb nodes, Sodium iodide, Tissues. English summary.

A ROLE FOR PHOSPHOLIPID HYDROLYSIS IN THE LYSIS OF ESCHERICHIA COLI IN-FECTED WITH BACTERIOPHAGE T4.

BIBLIOGRAPHY

9069-69

J E Cronan D I. Wulff

Virology 38(2):241-246 REF

Jun 1969 448.8 V81

Bacteriophages, Escherichia coli, Fatty acids, Phospholipids. English summary.

SURVEY UNCOVERS PROMISING AN-TIBIOTIC.

Agr Res 17(11):5

May 1969 1.98 AG84 Antibiotics, Biological assay, Molds, Yeasts.

9070-69

FAILURE OF CHICKEN ANTISERA AGAINST PORCINE ENTEROVIRUS STRAIN VI3 TO NEUTRALIZE AT LOW DILUTIONS.

J B Derbyshire R J Colwill Res Vet Sci 10(1):94-96

Jan 1969 41.8 R312

Chickens, Infectious diseases, Porcine enteroviruses, English summary.

9071-69

STUDY OF THE THERMOSENSITIVE MUTANTS OF THE VESICULAR STOMATITIS VIRUS. EVIDENCE FROM A COMPLEMENT TEST. (FR)

A Flamand

Acad Sci Compt Rend Ser D Sci Nat 268(18, 1ST SEMESTER):2305-2308

05 May 1969 505 P21

Biochemistry, Complement, Morphology, Mutations, Temperature, Vesicular stomatitis virus.

ISOLATION OF TOXOPLASMA GONDII FROM NATURALLY INFECTED CHICKENS.

B G Foster R G Forrest J F Blanco Tex J Sci 20(4):323-328 REF

25 Apr 1969 470 T31

Chickens, Parasitism, Toxoplasma gondii, Toxoplasmosis.

X-RAY DIFFRACTION AND INFRARED STUDY OF THE SULPHUR GRANULES OF ACTINO-MYCES BOVIS.

P O Frazier B O Fowler

J Gen Microbiol 46(3):445-450 REF

Mar 1967 448.3 J823

Actinomycosis, Biochemistry, Infrared rays, Sulfur, X-ray diffraction.

9074-69

THE EFFECTS OF ICI 33828 AND OXYTOCIN ON MILK EJECTION AND MILK PRODUC-TION IN THE LACTATING SOW.

D L Garbers N I. First

J Reprod Fertil 17(3):551-553

Dec 1968 442 8 18222

Methallihure, Milk, Milk analysis, Milk production, Oxytocin, Swine.

9075-69

THE EFFECT OF VITAMIN A DEPLETION ON THE VASA DEFERENTIA OF YOUNG BULLS.

S Ghannam O Shehata S Deeh H Al-Alily

Res Vet Sci 10(1):79-82 REF

Jan 1969 41.8 R312

Blood vessels, Bulls, Vitamin A. English summary.

9076-69

COLITIS X (EXHAUSTION SHOCK) IN A PREGNANT MARE.

W N Harries C W Strother

Can Vet J 10(2):48-50

Feb 1969 41.8 R3224

Colitis, Diarrhea, Enteritis, Exposure, Horses, Livestock diseases, Pastures, Pregnancy, Shock. French summary.

9077-69

THE PATHOGENESIS OF THE GLOMERU-LOPATHY IN ALEUTIAN DISEASE. (AB-STRACT).

J B Henson

Fed Amer Soc Exp Biol Fed Proc 27(2):245

Mar 1968 442.9 F31P

Aleutian disease, Electron microscopes, Fluorescence microscopes, Glomerulitis, Livestock diseases, Milk, Minks.

STIMULATION OF PORCINE SPLENIC CUL-RADIATIONINDUCED TURES BY A RADIATIONINDU-LYMPHOID LEUKEMIA FILTRATE: PRELIMINARY REPORT.

E B Howard C C Jannke W J Clarke

Amer J Vet Res 30(3):423-428 REF

Mar 1969 41.8 AM3A

Filters, Growth factors, Isotopes, Leukemia, Livestock diseases, Lymphocytes, Radiation, Spleen, Strontium, Swine.

THE INHIBITION OF LISTERIA MONO-CYTOGENES BY AN ORGANISM, RESEM-BLING BACILLUS MYCOIDES, PRESENT IN NORMAL SILAGE.

A D Irvin

Res Vet Sci 10(1):106-108 REF

Jan 1969 41.8 R312

Animal diseases, Bacillus, Listeria monocytogenes, Livestock, Silage. English summary.

SEQUENCE IN THE ABORTIVE AND TERATOGENIC EFFECTS OF LOCOWEED FED TO SHEEP.

L F James R F Keeler W Binns

Amer J Vet Res 30(3):377-380 REF

Mar 1969 41.8 AM3A

Abnormalities, Abortion, Astragalus, Lambs, Livestock diseases, Poisonous plants, Pregnancy,

9081-69

MORPHOLOGY, PHYSIOLOGY, AND SEROLOGY OF A PASTEURELLA SPECIES PATHOGENIC FOR WHITE PERCH (ROCCUS AMERICANUS).

W A Janssen M J Surgalla

J Bacteriol 96(5):1606-1610 REF

Nov 1968 448.3 J82

Animal diseases, Fish, Morphology, Pasteurella, Physiology, Serological tests.

GROWTH OF RIFT VALLEY FEVER VIRUS IN HUMAN DIPLOID (WI-38) CELLS. R W Johnson M D Orlando W C Patrick

Amer J Vet Res 30(3):365-367 REF

Mar 1969 41.8 AM3A

Cytology, Human diseases, Rift Valley fever virus, Tissue culture, Virology, Virus diseases (animals).

PROTEINS OF VESICULAR STOMATITIS VIRUS. I. POLYACRYLAMIDE GEL ANALYSIS OF VIRAL ANTIGENS.

C Y Kang L Prevec

J Virology 3(4):404-413 REF

Apr 1969 QR360.J6

Antigens, Chemical analysis, Polyacrylamide, Proteins, Vesicular stomatitis virus.

9084-69

SYNERGISM IN THE CHEMOTHERAPY OF FASCIOLIASIS. S B Kendall M A Peirce

Brit Vet J 125(2):82-85

Feb 1969 41.8 V643

Drug therapy, Fasciola hepatica, Infectious diseases, Liver, Methylenebis(3,4,6-trichlorophenol), 2,2'-, Nitrophenol, Sheep, Synergists. French, German, and Spanish summaries.

9085-69

AND SERUM ELEC-SERUM ENZYME TROLYTE VALUES OF LAMBS FED A MAG-NESIUM-DEFICIENT RATION.

G K Kiesel H D Alexander G Brooks Amer J Vet Res 30(3):381-391 REF Mar 1969 41.8 AM3A

Animal nutrition, Deficiency diseases, Electrolytes, Enzymes, Lambs, Livestock diseases, Magnesium, Potassium, Serum.

ETIOLOGIC FACTORS OF GASTRIC ULCERS IN SWINE.

T Kowalczyk

Ainer J Vet Res 30(3):393-400 REF

Mar 1969 41.8 AM3A

Gastrointestinal system, Hydrogen-ion concentra-tion, Livestock diseases, Swine, Ulcers.

9087-69

RINGWORM EQUINE CAUSED RY TRICHOPHYTON TONSURANS VAR SUL-FUREUM.

V B Kulkarni P G Choudhary M P Kulkarni M S Sasane

Indian Vet J 46(3):215-218 REF

Mar 1969 41.8 IN2

Culture media, Horses, Host specificity, Infectious diseases, Microsporum canis, Microsporum gypse-um, Ringworm, Skin diseases, Trichophyton verrucosum, Veterinarians.

9088-69

A STUDY OF THE THERMOSENSITIVE MU-TANTS OF THE VESICULAR STOMATITIS
VIRUS (VSV). THE CLASSIFICATION OF
SEVERAL MUTANTS BY THE CRITERIA OF FUNCTION. (FR)

F Lafay

Acad Sci Compt Rend Ser D Sci Nat 268(19, 1ST SEMESTER):2385-2388

12 May 1969 505 P21

Classification, Mutations, Physiology, Temperature, Vesicular stomatitis virus, Virology.

BALANCE COWS' MINERALS TO DEFEAT MILK FEVER.

R Lehnert

Michigan Farmer 251(2):10-11

18 Jan 1969 6 M58

Alfalfa, Cattle, Corn, Deficiency diseases, Drug therapy, Feed additives, Grasses, Livestock dis-eases, Milk fever, Silage, Sodium phosphate, Vitamin D.

9090-69

POLIOENCEPHALOMALACIA (CEREBROCORTICAL NECROSIS). F M Loew O M Radostits R H Dunlop

Can Vet J 10(2):54-56 REF

Feb 1969 41.8 R3224 Animal nutrition, Cattle, Drug therapy, Haemonchus contortus, Livestock diseases, Nervous system diseases, Polioencephalomalacia, Sheep, Thiamine. French summary.

NEUTRALIZATION OF CANINE HER-PESVIRUS BY DOG AND HUMAN SERUMS: A SURVEY.

D L Lundgren W E Clapper

Amer J Vet Res 30(3):479-482 REF

Mar 1969 41.8 AM3A Antibodies, Blood, Canine herpesvirus, Dogs, Herpesviruses, Humans, Serum, Virology, Virus dis-

eases (animals). 9092-69

ON THE MERIT OF SIMPLE PRICKING WITH R2B (MUKTESWAR STRAIN) FOR EFFECTIVE VACCINATION AGAINST NEW CASTLE (RANIKHET) DISEASE.

B B Mallick S K Chattopadhyay S B V Rao

Indian Poultry Gaz 52(2):12-16

Jul 1968 47.8 IN22

Chicks, Drug therapy, Immunization, Lahoratory animals, Newcastle disease, Poultry diseases, Tables (data), Vaccines, Virus diseases (animals).

9093-69

CYTOLOGY OF EQUINE NASAL SECRE-TIONS.

R A Mansmann J A Mansmann

Amer Vet Med Ass J 154(9):1037-1042

01 May 1969 41.8 AM3

Animal diseases, Horses, Respiratory diseases. English summary

9094-69

RELATIONSHIP OF VIRUSES TO REPRODUC-TIVE PROBLEMS.

D G McKercher

Amer Vet Med Ass J 154(10):1184-1191 REF 15 May 1969 41.8 AM3

Abortion, Bluetongue virus, Cattle, Metritis, Myxoviruses, Reproduction, Vaccines, Viruses. English summary.

9095-69

INTOXIFICATION OF SWINE WITH NOXIOUS GASES.

O P Miniats R A Willoughby J G Norrish

Can Vet J 10(2):51-53 REF

Feb 1969 41.8 R3224

Barns, Exercta, Gas poisoning, Livestock diseases, Poisonous gases, Swine. French summary.

9096-69

ARSENIC POISONING OF CATTLE AND OTHER DOMESTIC ANIMALS.

J W Moxham M R Coup

New Zeal Vet J 16(10-11,OCT-NOV):161-165 REF

Oct 1968 41 8 N483

Animals, Arsenic, Arsenic trioxide, Cattle, Kidneys, Liver diseases, Poisoning, Toxicology, Urine.

THE PRESENCE OF DIAMINOPIMELIC ACID IN THE RICKETTSIAE.

W F Myers R A Ormshee J V Osterman C L Wisseman

Soc Exp Biol Med Proc 125(2):459-462

Jun 1967 442.9 SO1

Amino acids, Biological assay, Chemical analysis, Histochemistry, Rickettsia.

BOVINE HORN CANCER: THERAPEUTIC EX-PERIMENTS WITH AUTOGENOUS VACCINE.

S P Pachauri R C Pathak

Amer I Vet Res 30(3):475-477 REF

Mar 1969 41.8 AM3A Cancer, Cattle, Horns, Livestock diseases, Therapeutics, Vaccines.

ALEUTIAN DISEASE OF MINK: INFECTIOUS VIRUS-ANTIBODY COMPLEXES IN THE SERUM.

D D Porter A E Larsen

Soc Exp Biol Med Proc 126(3):680-682 REF Dec 1967 442.9 SO1

Aleutian disease, Antibodies, Minks, Serological tests, Virus diseases (animals).

SURVEY OBSERVATIONS ON OVINE MASTITIS IN NEW ZEALAND STUD ROMNEY FLOCKS. 2. THE BACTERIOLOGY OF OVINE MASTITIS.

T D Quinlivan

New Zeal Vet J 16(10-11,OCT-NOV):153-160

Oct 1968 41.8 N483

Corynebacterium pyogenes, Escherichia coli, Infectious diseases, Mastitis, Pasteurella, Sheep, Streptococcus.

9101-69

SURVEY OBSERVATIONS ON OVINE MASTITIS IN NEW ZEALAND STUD ROMNEY FLOCKS. 1. THE INCIDENCE OF OVINE MASTITICE. TITIS.

T D Quinlivan

New Zeal Vet J 16(10-11,OCT-NOV):149-153 Oct 1968 41.8 N483

Mastitis, Sheep, Surveys.

THE USE OF FERROMYN (FERROUS SUC-CINATE) IN IRON DEFICIENCY ANEMIA.

R S Ragbavan N A Khan V Sudbir C Reddy Indian Vet J 46(3):253-256

Mar 1969 41.8 IN2

Anemia, Animals, Deficiency diseases, Dogs, Drugs, Iron, Iron oxides, Iron sulfates, Organic compounds.

9103-69

CONTROL OF CHRONIC RESPIRATORY DIS-ANTIBIOTIC EASE BY SPIRAMYCIN THERAPY.

S B V Rao K N Kapoor

Indian Poultry Gaz 52(2):10-11

Jul 1968 47.8 IN22

Antibiotics, Chickens, Dosage, Laboratory animals, Poultry diseases, Respiratory diseases, Serological tests, Spiramycin.

9104-69

THE TREND IN THE EVOLUTION OF THE POULTRY VACCINES AND THE CHANNELS OF ADMINISTRATION.

S B V Rao

Indian Poultry Gaz 52(2):7-9

Jul 1968 47.8 IN22

Bacterial diseases (animals), Bacterial vaccines, Chickens, Laboratory animals, Newcastle disease, Poultry, Poultry diseases, Poultry farm management, Vaccines.

9105-69

(R2B) THE MUKTESWAR VIRUS VACCINE AND ITS CHARACTERS.

S B V Rao

Indian Poultry Gaz 52(2):36-38

Jul 1968 47.8 IN22

Chicks, Immunity, Microorganisms, Newcastle disease, Poultry diseases, Respiratory diseases, Vaccines, Virus diseases (animals).

9106-69

EVALUATION OF TECHNIQUES USED IN STU-DIES ON EFFICACY OF ANTICOCCIDIAL DRUGS IN CHICKENS.

W M Reid R N Brewer J Johnson E M Taylor K S Hegde

Amer J Vet Res 30(3):447-459 REF

Mar 1969 41.8 AM3A

Barns, Chickens, Coccidiosis, Drug therapy, Poultry diseases.

9107-69

CULICIDAE AND TABANIDAE AS POTENTIAL VECTORS OF ANAPLASMOSIS IN MISSISSIP-PI.

R H Roberts W A Pund H F McCrory J W Scales J C Collins

Entomol Soc Amer Ann 62(4):863-868 REF Jul 1969 420 EN82

Anaplasmosis, Cattle, Culicidae, Insect vectors, Protozoa, Tabanidae.

9108-69

EXPERIMENTAL INFECTIONS OF CALVES WITH TRICHOSTRONGYLUS AXEI IN-VESTIGATIONS USING ABOMASAL CANNU-LAE.

J G Ross D A Purcell J R Todd

Res Vet Sci 10(1):46-56

Jan 1969 41.8 R312

Ahomasum, Calves, Infectious diseases, Trichostrongylus axei. English summary.

MULTIPLE ANTIGENIC COMPONENTS OF THE GROUP-SPECIFIC ANTIGEN OF THE AVIAN LEUKOSIS-SARCOMA VIRUSES.

F K Roth R M Dougherty Virology 38(2):278-284 REF

Jun 1969 448.8 V81

Antigens, Avian leukosis complex, Chicks, Embryology, Hamsters, Sarcoma, Tissues. English summary.

9110-69

A SEROLOGICAL COMPARISON OF SEVEN STRAINS OF BOVINE HERPES MAMMILLITIS

M M Rweyemamu R H Johnson

Res Vet Sci 10(1):102-104

Jan 1969 41.8 R312

Cattle, Herpesviruses, Infectious diseases. English summary.

9111-69

AVIAN NEPHROSIS ASSOCIATED WITH HIGH DIETARY CALCIUM. (ABSTRACT).

S M Shane R J Young L Lutwak

Fed Amer Soc Exp Biol Fed Proc 27(2):312

Mar 1968 442.9 F31P

Animal nutrition, Biochemistry, Calcium, Chickens, Feed, Gumboro disease.

STUDIES ON HAEMATOLOGICAL RESPONSE IN FOWL TO PASTEURELLA SEPTICA (AVI-I. RESPONSE TO INOCULATION OF VIRULENT CULTURE.

R N Sharma N P Bhalla

Indian Vet J 46(3):195-202 REF

Mar 1969 41.8 IN2

Culture media, Erythrocytes, Fowl cholera, Hematology, Immunization, Infectious diseases.

9113-69

CUTANEOUS STREPTOTHRICOSIS IN A RULL.

E B Shotts D E Tyler J E Christy

Amer Vet Med Ass J 154(11):1450-1454 REF 01 Jun 1969 41.8 AM3

Cattle, Dermatophilus congolensis, Dihydrostreptomycin, Dosage, Mycosis, Procaine penicillin, Streptotrichosis.

Cutaneous streptothricosis was diagnosed in a yearling Shorthorn bull originating near Athens, Ga., and Dermatophilus congolensis was isolated from typical hyperkeratotic lesions. Although several medications were employed, lesions did not clear until dihydrostreptomyein and procaine penicillin were given intramuscularly at the rate of 70 mg. and 56, 000 IU, respectively, per kilogram of body weight, every other day, for a total of 5 treatments.

9114-69

RIBONUCLEIC ACID SYNTHESIS IN CHICK EMBRYO CELLS INFECTED WITH FOWL-PLAGUE VIRUS.

J J Skehel D C Burke

J Virology 3(4):429-438 REF

Apr 1969 QR360.J6

Chicks, Fowl plague virus, Ribonucleic acid, Tissue culture.

Increases in RNA polymerase activity were deteeted in both the nuclear and ribosomal fractions of chick emhryo cells infected with fowl-plague virus. These were observed only in the presence of all four nucleoside triphosphates and were not affeeted by actionomycin D. The RNA polymerase activity of the ribosomal fraction was shown to be associated with a component of infected cells of sedimentation coefficient approximately 70S. This component also contained infected cell-specific RNA and protein molecules.

9115.69

ELECTRON MICROSCOPICAL OBSERVATIONS ON MYCOBACTERIUM JOHNEL.

K Smith

Res Vet Sci 10(1):1-3 REF

Jan 1969 41.8 R312

Electron microscopy, Intestines, Mice, Myeobaeterium, Plasma membrane, Tissues. English summary.

9116-69

SEROLOGICAL INVESTIGATION INTO POR-CINE BRUCELLOSIS.

J L Soni P N Pathak

Indian Vet J 46(3):191-195 REF Mar 1969 41.8 IN2 Antihodies, Baby pigs, Brucella suis, Brucellosis, Infectious diseases, Serological tests.

BUSHBUSH, IERI, AND LUKUNI VIRUSES, THREE UNRELATED NEW AGENTS ISO-

LIVESTOCK PROTECTION 0118-60

FROM TRINIDADIAN FOREST LATED MOSQUITOES.

L Spence C R Anderson T H Aitken W G Downs Soc Exp Biol Med Proc 125(1):45-50 REF May 1967 442.9 SO1

Culex, Disease transmission, Serological tests, Virus diseases (animals).

Seven virus strains, all isolated from forest mosquitoes in eastern Trinidad between 1955 and 1959, have been shown to represent 3 unrelated new viruses, Bushhush, leri and Lukuni. Neutralizing antibody to Lukuni virus has been demonstrated in human serum. No relationship has been found between Bushbush or Ieri virus and recognized arhoviruses hut Lukuni virus has heen found to he serologically related to Anopheles A virus.

THE FINE STRUCTURE OF NOSEMA SP. SPRAGUE, 1965 (MICROSPORIDA, NOSE-MATIDAE) WITH PARTICULAR REFERENCE TO STAGES IN SPOROGONY.

V Sprague S H Vernick B J Lloyd J Invertebrate Pathol 12(1):105-117 REF Oct 1968 421 J826

Animal physiology, Crabs, Electron microscopy, Fungus diseases (animals), Illustrations, Lahoratory animals, Muscles, Nosema, Spores.

9119-69

VESICULAR STOMATITIS VIRUS INFEC-TIONS IN PANAMANIAN PRIMATES AND OTHER VERTEBRATES.

S Srihongse

Amer J Epidemiol 90(1):69-76 REF

Jul 1969 449.8 AM3

Antihodies, Monkeys, Panama, Vertehrates, Vesicular stomatitis virus, Viruses.

9120-69

A COMMON SOURCE EPIZOOTIC OF BOVINE SALMONELLOSIS IN MANITOBA.

A A Van Dreumel B R Boycott R A Boroski Can Vet J 10(2):33-44 REF

Feh 1969 41.8 R3224

Bonemeal, Cattle, Epizootic diseases, Feed contamination, Infectious diseases, Livestock diseases, Microorganisms, Salmonella, Salmonellosis. French summary.

TENOSYNOVITIS IN THE HORSE.

R W Van Pelt

Amer Vet Med Ass J 154(9):1022-1033 REF 01 May 1969 41,8 AM3

Horses, Inflammation, Tenosynovitis. English summary.

9122-69

INTERFERENCE BETWEEN VACCINAL VIRUS AND RABIES VIRUS. (FR)

J Vieuchange M A Chabaud C Vialat

Paris Soc Biol Compt Rend 160(12):2278-2282 08 Jun 1967 442.9 P21

Interference phenomenon, Rabies virus, Tissue culture. Vaccinia virus.

STRUCTURAL PROTEINS OF VESICULAR STOMATITIS VIRUSES.

R R Wagner T A Schnaitman R M Snyder

J Virology 3(4):395-403 REF

Apr 1969 QR360.J6

Chemical analysis, Electrophoresis, Proteins, Vesicular stomatitis virus.

9124-69

TRICHINIASIS IN WILDLIFE OF IOWA.

W J Zimmermann E D Huhhard Amer J Epidemiol 90(1):84-92 REF Jul 1969 449.8 AM3

Trichinella spiralis, Trichinosis, Wildlife.

A TOOL FOR COMBATING TRICHINOSIS.

W J Zimmermann J A Wallize Iowa Farm Sci 23(11):3-6

May 1969 275.28 IO94 Swine, Trichinosis.

ARTHROPODS

9126-69

FURTHER EVALUATION ANIMAL OF SYSTEMIC INSECTICIDES, 1968,

R O Drummond W J Gladney J Econ Entornol 62(4):934-936 REF

15 Aug 1969 421 J822

Amhlyomma americanum, Carbamates, Cattle, Chemical control (insects), Cochliomyia macellaria, Guinea pigs, Hypoderma, Insecticides, Organophosphorus compounds, Phormia regina, Stomoxys calcitrans, Toxicology. Some eattle died as result of treatment.

INFECTION EXPERIMENTS WITH THE COT-TON RAT FILARIA LITOMOSOIDES CARINII IN MASTOMYS NATALENSIS (SMITH, 1834). (GE)

G Laemmler E Saupe H Herzog Z Parasitenk 30(4):281-290 REF

26 Jul 1968 442.8 Z33F

Animal diseases, Blood, Drug therapy, Filariasis, Immunology, Insect vectors, Lahoratory animals, Litomosoides carinii, Mice, Mites, Ornithonyssus hacoti, Rodents. English summary.

SOME ECTOPARASITES FROM WEST VIRGINIA MAMMALS, II.

J P Shoemaker S J Joy

W Va Acad Sci Proc 39:78-80

1967 500 W52

Acarina, Anoplura, Diptera, Ectoparasites, Mammals, Surveys.

9129-69

AFRICAN RED TICK ERADICATION WITH DDT. FINAL REPORT ON ERADICATION OF RED TICK FROM AFRICA, AND USA.

Amer Vet Med Ass J 141(4):461 15 Aug 1962 41.8 AM3 Chemical control (pests), DDT.

PARASITES

9130-69

FINE STRUCTURE OF THE INTESTINE OF THE NEMATODES, ANCYLOSTOMA CANINUM AND PHOCANEMA DECIPIENS.

J Andreassen

Z. Parasitenk 30(4):318-336 REF

26 Jul 1968 442.8 Z33F

Ancylostoma caninum, Animal anatomy, Animal physiology, Biology, Dogs, Intestines, Nematodes. German summary

A. caninum is described and compared with P. decipiens from the harhor seal (Phoea vitulina).

HOST-PARASITE RELATIONSHIPS FASCIOLA HEPATICA IN THE WHITE MOUSE, III. WORM TRANSFER.

B Z Lang

Okla Acad Sci Proc 47:81-84

1968 500 OK42

Animal disease transmission, Animal physiology, Fasciola hepatica, Immunization, Mice, Tre-

9132-69

POSTMORTEM PULMONARY ARTERIOG-RAPHY IN CANINE DIROFILARIASIS.

S K Liu D A Yarns R J Tashjian Amer J Vet Res 30(3):319-329 REF Mar 1969 41.8 AM3A

Arteries, Arteriography, Autopsies, Dirofilaria immitis, Dirofilariasis, Dogs, Parasitism.

9133-69

UTILIZATION OF TRICARBOXYLIC ACID CYCLE INTERMEDIATES BY HAEMONCHUS CONTORTUS LARVAE.

K E Moon P J Schofield

Compar Biochem Physiol 24(2):581-590 REF

Feb 1968 444.8 C73

Haemonchus contortus, Insect metaholism, Larvae, Radioactive tracers, Tricarboxylie acid eyele.

INHIBITORY EFFECT DITHIOSEMICARBAZONE ON ACUTE INFEC-TIONS OF ANAPLASMA MARGINALE.

T O Roby T E Amerault L A Spindler Res Vet Sci 9(6):494-499

Nov 1968 41.8 R312

Anaplasma marginale, Anaplasmosis, Calves, Cattle, Dithiosemicarbazones, Parasitism.

FURTHER EXPERIMENTS WITH LOW-LEVEL FEEDING OF THIABENDAZOLE TO LAMBS.

D B Ross

Res Vet Sci 9(6):515-520 Nov 1968 41.8 R312

Haemonchus contortus, Lambs, Larvae, Nematodirus battus, Ostertagia, Parasitism, Thiazolyl)-henzimidizole, 2-(4-, Trichostrongylus colubriformis

9136-69

POSSIBLE EFFECTS OF THE HARBOUR SEAL BOUNTY ON CODWORM INFESTATIONS OF ATLANTIC COD IN THE GULF OF ST. LAWRENCE, THE STRAIT OF BELLE ISLE, AND THE LABRADOR SEA.

M Wiles

Can Fish Res Board J 25(12):2749-2753 MAP Dec 1968 442.9 C16J

Nematodes, Parasitism, Porrocaeeum, Seals (animals), Wildlife diseases.

COMMODITY PROTECTION

9137-69

DISTRIBUTION AND STABILITY OF DDE, DDD, AND DDT IN MONTEREY AND CHED-DAR CHEESE DURING MANUFACTURE AND STORAGE.

J E Montoure P J Muldoon J Dairy Sci 51(6):858-862

Jun 1968 44.8 J822

Cheese, Dichloro-2,2-his(p-chlorophenyl) ethylene, 1,1-, DDT, Food processing, Food storage.

THE UTILIZATION OF THE CALCIUM SENSITIVITY TEST IN THE INVESTIGATION OF THE RENNET ACTIVITY. (GE)

R Niki K Chang S Arima

Hokkaido Univ Fac Agr J 55(PT 4):421-428 May 1968 107.6 J273J

Calcium, Cascin, Ions, Milk, Nitrogen, Proteins.

9139-69

THE PRESERVATION OF FRUIT, (FR)

J P Raskin M Herregods

Fruit Belg 36(324):285-304 Aug 1968 80 F9493

Apples, Canning, Dairy equipment, Fruit, Industry, Methodology, Pears, Plant diseases

STORAGE DISEASES

EXPERIMENTS ON THE CONTROL OF GLOEOSPORIUM FRUIT ROTS BY FIELD SPRAYS, WITH AN ADDENDUM ON: HARVEST RESIDUES OF DICHLOFLUANID,

R T Burchill K L Edney R P Tew J M Lewis East Malling Res Sta Annu Rep (A51):135-137 1968 103 EA7

Apples, Captan, Chlorinated hydrocarbons, Fluorine compounds, Fruit, Fungicides, Fungus diseases (plants), Rot, Storage diseases.

ARTHROPODS

9141-69

REPORT ON ANALYTICAL ENTOMOLOGY OF FOOD AND DRUGS.

P M Brickey

Ass Offic Anal Chem J 52(2):279

Mar 1969 381 AS7

Biological assay, Chemical analysis, Drugs, Food contamination, Insects, Methodology.

9142-69

COMPARISON OF WHITE GASOLINE AND N-HEPTANE FOR RECOVERY OF INSECT FRAGMENTS AND RODENT HAIRS FROM FOOD PRODUCTS.

J J Thrasher P M Briekey

Ass Offic Anal Chem J 52(3):465-467

May 1969 381 AS7

Food sanitation, Hair, Heptane, Insects, Petroleum, Rodents.

ENVIRONMENTAL CONTAMINATION

9143-69

NOTE ON THE DETERMINATION OF SOME CHLOROPHENOXY HERBICIDES AND THEIR ESTERS IN WATER.

J M Devine G Zweig

Ass Offic Anal Chem J 52(1):187-189

Jan 1969 381 AS7

D, 2,4-, Dicamba, Esters, Herbicides, Methyl-4-chlorophenoxyacetic acid, 2-, Silvex, T, 2,4,5-, Water.

9144-69

STUDIES ON EFFECTS OF FOREST SPRAYINGS WITH INSECTICIDES, 1952-63, ON FISH AND AQUATIC INVERTEBRATES IN NEW BRUNSWICK STREAMS: INTRODUCTION AND SUMMARY.

G J Kerswill

J Fish Res Board Can 24(4):701-708, MAP REF Apr 1967 442.9 C16J

Aquatic insects, Choristoneura, DDT, Fish, Forests, Losses, Petroleum, Spraying, Streams, Water pollution.

Abstract included.

9145-69

DDT RESIDUES IN A EAST COAST ESTUARY, A CASE OF BIOLOGICAL CONCENTRATION OF A PERSISTENT INSECTICIDE.

G M Woodwell C F Wurster P A Isaacson

Science 156(3776):821-824 REF

12 May 1967 470 SC12

Birds, DDT, Fish, Marine hiology, Metaholites, Plankton, Water pollution.

Ahstraet

RESIDUES

9146-69

CHARCOAL DIET FOR CATTLE.

Anonymus

Sci News Lett 94(21):520

23 Nov 1968 470 SC124

Cattle, Charcoal, Dieldrin, Diet, Food consumption, Food contamination, Food nutritive value, Livestock, Pesticide residues, Pesticides.

9147-69

THE GAS CHROMATOGRAPHIC EXAMINATION OF ORGANOPHOSPHORUS PESTICIDES. IV. THE EFFECT OF COOKING ON ORGANOPHOSPHORUS PESTICIDE RESIDUES.

J Askew T H Mitchell J Thomson B B Wheals J Chromatography 32(2):417-418

23 Jan 1968 475 J824

Chemical analysis, Chromatography, Heat, Organophosphorus compounds, Pesticide residues.

148-69

RECOVERY OF 65 ORGANOPHOSPHORUS PESTICIDES FROM FLORISIL WITH A NEW SOLVENT ELUTION SYSTEM,

H Beckman D Garber

Ass Offic Anal Chem J 52(2):286-293

Mar 1969 381 AS7

Chemical analysis, Chromatography, Florisit, Organophosphorus compounds, Pesticide residues, Surveys.

9149-69

CHLORINATED INSECTICIDES IN THE BODY FAT OF PEOPLE IN THE UNITED STATES.

W E Dale G E Quinby

Science 142(3592):593-595, REF.

01 Nov 1963 470 SC12

Benzene hexachloride, Chlorinated hydrocarbons, Chromatography, Dieldrin, DDT, Humans, Insectieide residues, Metabolites.

9150-69

NOTICE OF FILING OF PETITION REGARDING PESTICIDE CHEMICALS.

R E Duggan

Fed Regist 34(17):1273

25 Jan 1969 L1.451

Chemicals, Corn, Diethyl O-(p-methylsulfinyl)phenyl)phosphorothioate, O,O-, Insecticides, Pesticide residues, Potatoes, Tomatoes.

9151-69

NOTICE OF FILING OF PETITION REGARDING PESTICIDE CHEMICALS.

R E Duggan

Fed Regist 34(17):1274

25 Jan 1969 L1.451

Cattle, Chemicals, Chromatography, Dichlorvos, Horses, Insecticides, Meat, Pesticide residues, Sheep, Swine.

9152-69

RESPONSE OF ROBINS TO DDT AND METHOXYCHLOR.

L B Hunt R L Sacho

J Wildlife Manage 33(2):336-345 REF

Apr 1969 410 J827

Birds, DDT, Insecticide residues, Methoxychlor, Mortality.

9153-69

STUDIES ON THE EFFECT OF SULFURIC-FUMING NITRIC ACID TREATMENT ON THE ANALYTICAL CHARACTERISTICS OF TOX-

Y Kawano A Bevenue H Beckman F Erro Ass Offic Anal Chem J 52(1):167-172 REF Jan 1969 381 AS7

Chemical analysis, Chromatography, DDT, Insecticide residues, Nitrie acid, Sulfuric acid, Toxaphene.

9154-69

MODIFICATION OF THE CARBON DISULFIDE EVOLUTION METHOD FOR DITHIOCARBA-MATE RESIDUES.

G E Keppel

Ass Offic Anal Chem J 52(1):162-167 REF Jan 1969 381 AS7

Carhon disulfide, Chemical analysis, Dithiocarbamates, Fungicides, Pesticide residues.

9155-69

TOLERANCES AND EXEMPTIONS FROM TOLERANCES FOR PESTICIDE CHEMICALS

IN OR ON RAW AGRICULTURAL COMMODITIES. P-CHLOROPHENYL-2,4,5-TRICHLOROPHENYL SULFIDE.

J K Kirk

Fed Regist 34(19):1378

29 Jan 1969 L1.451

Agricultural products, Apples, Chemicals, Insecticides, Pesticide residues, Tetrasul.

9156-69

ALKALINE PRE-COLUMN FOR USE IN GAS CHROMATOGRAPHIC PESTICIDE RESIDUE ANALYSIS.

G A Miller C E Wells

Ass Offic Anal Chem J 52(3):548-553

May 1969 381 AS7

Chemical analysis, Chromatography, Laboratory equipment, Pesticide residues.

9157-69

RESIDUE ANALYSIS IN THE DAIRY INDUSTRY. IN ZWIG, ANALYTICAL METHODS FOR PESTICIDES, PLANT GROWTH REGULATORS, AND FOOD ADDITIVES. VOL. 1. PRINCIPLES, METHODS, AND GENERAL APPLICATION. 395 Z9.

R A Moffitt

P.545-570 REF

1963

Benzene hexachloride, Carbamates, Chromatography, Dairy industry, Dairy products, DDT, Food contamination, Methoxychlor, Organophosphorus compounds, Pesticide residues, Spectrophotometry, Sulfur compounds.

9158-69

ACETONITRILE EXTRACTION AND DETERMINATION OF CARBARYL IN FRUITS AND VEGETABLES.

M L Porter R Gajan J A Burke

Ass Offic Anal Chem J 52(1):177-181 REF

Jan 1969 381 AS7

Acetonitrile, Carharyl, Chemical analysis, Fruit, Pesticide residues, Polarography, Vegetables.

9159-69

INDOXYL ACETATE SPRAY REAGENT FOR FLUOROGENIC DETECTION OF CHOLINESTERASE INHIBITORS IN ENVIRONMENTAL SAMPLES.

R L Schutzmann W F Barthel

Ass Offic Anal Chem J 52(1):151-156 REF Jan 1969 381 AS7

Chemical analysis, Chromatography, Enzymes, Pesticide residues, Phosphorus compounds.

A cholinesterase inhibition method to detect thionophosphates (POS compounds) and their oxygen analogs (POO) by two-dimensional thin layer chromatography is described. Environmental samples are cleaned up on Florex columns and spotted on silica gel thin layer plates. Plates are developed in solvent mixtures of opposite polarity, then sprayed with an enzyme solution and indoxyl acetate. Submicrogram sensitivity is achieved by fluorogenic and chromogenic reaction. Some compounds give characteristic colored reaction products.

9160-69

RESIDUES OF THIMET ON GREEN AND ON FIELD-DRIED ALFALFA.

F R Shaw D E Miller M C Miller C P S Yadava J Econ Entonol 62(4):952-953

15 Aug 1969 421 J822

Alfalfa, Feed, Food contamination, Insecticide residues, Organophosphorus compounds, Phorate.

0161.60

IMPROVED GAS CHROMATOGRAPHIC SYSTEMS FOR DETERMINING OR-GANOCHLORINE PESTICIDE RESIDUES IN WILDLIFE.

J H Simmons J O Tatton

J Chromatography 27(1):253-255

Mar 1967 475 J824

Chemical analysis, Chlorinated hydrocarbons, Chromatography, Insecticide residues, Insecticides, Methodology, Wildlife.

9162-69

GAS CHROMATOGRAPHIC DETERMINATION OF RESIDUES OF DIMETHOATE AND ITS OX-YGEN ANALOG IN FIELD-SPRAYED KALE.

R W Storherr R R Watts

Ass Offic Anal Chem J 52(3):511-513

May 1969 381 AS7

Chemical analysis, Chromatography, Dimethoate, Kale, Pestieide residues.

9163-69

CHARCOAL COLUMN CLEANUP METHOD FOR MANY ORGANOPHOSPHORUS PESTI-CIDE RESIDUES IN CROP EXTRACTS. R R Watts R W Storberr J R Pardue T Osgood

Ass Offic Anal Chem J 52(3):522-526 REF May 1969 381 AS7

Charcoal, Chemical analysis, Organophosphorus compounds, Pesticide residues, Plant extracts.

COMPARISON OF FOUR EXTRACTION AND CLEANUP PROCEDURES FOR CHLORINATED PESTICIDE RESIDUES IN EGGS.

J R Wessel

Ass Offic Anal Chem J 52(1):172-175

Jan 1969 381 AS7

Chemical analysis, Chlorinated hydrocarhons, Dieldrin, DDT, Eggs, Endrin, Heptaeblor epoxide, Pesticide residues.

9165-69

RESPIRATORY EXPOSURE OF DAIRY ANIMALS TO PESTICIDES.

J M Witt F M Wbiting W H Brown

Advances Chem Ser 60:99-109

1966 381 AD93

Cattle, Diebloro-2,2-bis(p-chlorophenyl) etbylene, 1,1-, DDT, Pesticide residues, Respiratory system.

DDT RESIDUES AND DECLINING REPRODUC-TION IN BERMUDA PETREL.

C F Wurster D B Wingate Science 159(3818):979-981 REF

01 Mar 1968 470 SC12

Animal physiology, Birds, DDT, Pesticide residues, Reproduction.

TOXICOLOGY

9167-69

SURVIVAL OF FISH IN 164 HERBICIDES, IN-SECTICIDES, FUNGICIDES, WE AGENTS AND MISCELLANEOUS WETTING STANCES.

J S Alahaster

Int Pest Contr 11(2,MAR-APR):29-35

Mar 1969 79.8 P432

DDT, Fish, Fungicides, Herhieides, Insecticides, Water

9168-69

COMPARATIVE TOXICITES OF INSECTI-CIDES TO HOUSE FLY LARVAE AND MACROCHELES MUSCAEDOMESTICA, A MITE PREDATOR OF THE HOUSE FLY.

R C Axtell

J Econ Entomol 59(5):1128-1130

Oct 1966 421 J822

Chlorinated bydrocarbons, Insecticides, Larvae, Lindane, Macrocheles museaedomesticae, Mites, Musca domestica, Naled, Predaceous insects, Ronnel, Toxicity, Trieblorfon.

RADIOTRACER STUDIES ON METABOLISM, DEGRADATION, AND MODE OF ACTION OF INSECTICIDE CHEMICALS.

J E Casida

Residue Rev 25:149-160

1969 389.9 R314

Biochemistry, Degradation, Insecticides, Metaholism, Radioactive tracers.

9170-69

PESTICIDE RESIDUES IN FOODS IN RELA-TION TO HUMAN HEALTH.

W F Durham

Residue Rev 4:33-81, 192 REFS.

1963 389.9 R314

Amitrole, Arsenie, Carcinogens, Demeton, Dieldrin, DDT, Endrin, Epn, Food additives, Malathion, Parathion, Pesticide residues, Malathion, Scbradan.

9171-69

THIN-LAYER CHROMATOGRAPHY OF RAT BILE AND URINE FOLLOWING TRAVENOUS ADMINISTRATION PESTICIDAL SYNERGISTS. OF

L Fishhein J Fawkes H L Falk S Thompson J Chromatography 27(1):153-166 REF

Mar 1967 475 J824

Animal metabolism, Bile, Butoxyethoxy)etbanol, 2-(2-, Cbromatography, Insecticide synergists, Piperonal his(2-(2-butoxyetboxy)etbyl) acetal, Piperonyl butoxide, Rats, Urine.

Cbromatographic differences in rat bile and urine samples resulting from single intravenous administration of piperonyl butoxide, tropital and butyl carhitol were elaborated utilizing four solvent systems, viz. toluene-acetic acid-water (10:10:1), ethyl acetate-acetic acid-metbanol (70:10:20), etbyl acetate-acetic acid (96:4), and butanol-acetic acid-water (10:1:1). Detection was accomplished with concentrated sulfuric acid-n-butanol (15:85) and furning iodine as well as 2537 A and 3660 A ultraviolet sources.

9172-69

ACUTE CUTANEOUS TOXICITY OF CERTAIN ORGANOPHOSPHOROUS INSECTICIDES. 1. LEBAYCID. (FR)

R Fytizas-Danielidou

Inst Phyto Pathol Benaki Ann 8(1):1-18 REF

1967 464.9 AT4

Blood plasma, Cholinesterases, Dosage, Enzymes, Fentbion, Insecticides, Organophosphorus compounds, Rats, Toxicity.

9173-69

TYLAN VERY EFFECTIVE IN TREATING PIGEONS.

J Hawkins

Amer Pigeon J 58(5):237

May 1969 47.8 AM35

Drug therapy, Pigeons, Respiratory diseases, Tylan.

SUSCEPTIBILITY OF MALE AND FEMALE MICE TO THE MEPHROTOXIC PROPERTIES CHLORINATED HYDROCARBONS.

C D Klaassen G L Plaa

Soc Exp Biol Med Proc 124(4):1163-1166 REF Apr 1967 442.9 SO1

Cblorinated bydrocarbons, Insecticides, Kidneys, Liver, Mice.

9175-69

MORTALITY OF THE EARTHWORM LUM-BRICUS TERRESTRIS L. FOLLOWING SOIL APPLICATIONS OF INSECTICIDES TO A TOBACCO FIELD.

J B Kring

J Econ Entomol 62(4):963

15 Aug 1969 421 J822

Carhamates, Carhofuran, Diazinon, Disulfoton, Earthworms, Insecticides, Mortality, Organophosphorus compounds, Soil sanitation, Tobacco. Detrimental effects, and possible use to control pest species are included.

COMPARATIVE MECHANISMS OF INSECTI-CIDE BINDING WITH NERVE COMPONENTS OF INSECTS AND MAMMALS.

F Matsumura M Hayasbi Residue Rev 25:265-273

1969 389.9 R314

Insecticides, Insects, Mammals, Nervous system, Physiology, Toxicology.

9177-69

MECHANISMS OF PESTICIDE INTERAC-TIONS IN VERTEBRATES.

S D Murpby

Residue Rev 25:201-221 REF

1969 389.9 R314

Animal Metabolism, physiology, ganophosphorus compounds, Pesticides, Toxicity, Vertebrates.

9178-69

MODE OF ACTION OF DDT AND ALLETHRIN ON NERVE: CELLULAR AND MOLECULAR MECHANISMS.

T Narahashi

Residue Rev 25:275-288 REF

1969 389.9 R314

Alletbrin, Animal physiology, DDT, Electrophysiology, Nerves, Toxicology.

STUDIES OF WARFARIN RESISTANCE IN THE RAT. (ABSTRACT).

J G Pool R A O'Reilly L J Schneiderman M Alexander

Fed Amer Soc Exp Biol Fed Proc 27(2):435

Mar 1968 442.9 F31P Animal genetics, Blood plasma, Liver, Rats, Rodenticides, Toxicology, Warfarin.

9180.69

BIOLOGICAL ACTIVITY OF A PHYTOTOXIC PRODUCED GLYCOPEPTIDE CORYNEBACTERIUM SEPEDONICUM.

G A Strobel W M Hess

Plant Physiol 43(10):1673-1688 REF

Oct 1968 450 P692

Autoradiography, Corynebacterium insidiosum, Corynebacterium sepedonicum, Dextrans, Electron microscopy, Glycopeptides, Illustrations, Pbytotoxicity, Plant injuries, Plant pbysiology, Tox-

9181-69

PHARMACOLOGIC ACTION OF PURE VENOM FRACTIONS OF NAJA NIGRICOLLIS AND LIBERATION OF CALCIUM IN THE STRIATED MUSCLES. (FR)

F Tazieff-Depierre M Czajka C Lowagie Acad Sci Compt Rend Ser D Sci Nat 268(20, 1ST SEMESTER):2511-2514 REF

19 May 1969 505 P21

Animal physiology, Calcium, Cats, Muscles, Snake

9182-69

AN EVALUATION OF CERTAIN COMPOUNDS AS FEEDING DETERRENTS AGAINST THE SMALLER EUROPEAN ELM BARK BEETLE, SCOLYTUS MULTISTRIATUS.

J G Toubey D F Bray

J Econ Entornol 54(2):293-296

Apr 1961 421 J822

Decanoic acid, Dieback (ulmus), Diethoxybenzal-debyde, 3,4-, Dietbyl-m-toluamide, N,N-, Dimetbyl pbthalate, DDT, Scolytus, Scolytus multistriatus.

HEMATOPOIESIS AND EPIPHYSEAL GROWTH ZONES IN RABBITS WITH MOLYB-HEMATOPOIESIS **EPIPHYSEAL** DENOSIS.

V E O Valli A McCarter B J McSberry G A Robinson

Amer J Vet Res 30(3):435-445 REF Mar 1969 41.8 AM3A Blood, Epipbysis, Hematopoicsis, Molybdenum poisoning, Rabbits, Toxicology.

9184-69 THE METABOLISM OF BAYER 9017 IN CALVES.

S Y Young R S Berger

J Econ Entomol 62(4):929-933 REF

15 Aug 1969 421 J822 Animal metabolism, Calves, Dietbyl O-(4-(metbyltbio)-3-xylyl) phosphorothioate, O,O-, Feces, Insecticide application, Metabolites, Organophospborus compounds, Radioactive tracers, Sulfur isotopes, Urine.

PLANT PHYSIOLOGY & BIOCHEMISTRY

9185-69

PREDICTING MAIZE SEED VIABILITY USING 2,3,5-TRIPHENYLTETRAZOLIUM CHLORIDE.

M A Adansi

Ghana J Agr Sci (1,PT 1):5-11 REF Jun 1968 S19.G5

Corn, Seed germination, Seeds, Tripbenyltetrazolium chloride, 2,3,5-.

9186-69

CREEPING CHARLIE USES AQUALIN TO KILL AQUATIC WEEDS.

Anonymous

Weeds Trees Turf 8(5):18-20

May 1969 79.8 W413

Aqualin, Aquatic weeds, Chemical control (weeds), Herbicides, Spraying equipment.

EFFECTS OF LIGHT AND DICHLOROPHENOXYACETIC ACID ON THE GLUTATHIONE REDUCTASE AND OTHER NADP-UTILIZING ENZYMES OF EXCISED COTTON COTYLEDONS.

E Basler G D Wills

Okla Acad Sci Proc 47:1-7 REF

1968 500 OK42

Cotton, D, 2,4-, Enzymes, Glutathione reductase, Photochemistry, Plant biochemistry.

CELL-WALL DEPOSITION AND THE DIS-TRIBUTION OF CYTOPLASMIC ELEMENTS AFTER TREATMENT OF PEA INTERNODES WITH THE AUXIN TRIIODOBENZOIC ACID. ANALOG

G B Bouck A W Galston

N Y Acad Sci Ann 144(1):34-48 REF

09 Aug 1967 500 N484

Cell wall, Peas, Plant eytology, Plant hormones, Plant physiology, Triiodobenzoic acid, 2,3,5-.

OCCURRENCE OF PLANT GROWTH INHIBITORS IN TROPICAL AND SUBTROPICAL VEGETATION.

R W Bovey J D Diaz-Colon

Physiol Plant 22(2):253-259

04 Apr 1969 450 P564 (1)

Cueumbers, Guavas, Ilex vomitoria, Plant extracts, Plant growth inhibitors, Prosopis, Sorgbum, Tropical plants.

AUXIN CONTROL OF LEAF ABSCISSION. I. EXPERIMENTS WITH ERVATAMIA DIVAR-ICATA BURKILL., VAR. FLORE-PLENO. M A Choudhuri S K Chatterjee

Indian J Plant Physiol 10(1):62-72 REF

1967 450 IN23

Abscission, Plant growth inhibitors, Plant physiology, Plant regulators.

9191-69

THE METABOLISM OF RADIOSTRONTIUM BY PLANTS. (ABSTRACT).

C R Creger W S Allen J R Couch

Fed Amer Soc Exp Biol Fed Proc 27(2):424 Mar 1968 442.9 F31P

Calcium, Chemurgy, Plant metabolism, Plant translocation, Seeds, Sorgbum, Strontium isotopes.

PYRETHIN II AND RELATED ESTERS OBTAINED BY RECONSTITUTION.

M Elliott N F Janes

Chem Indus 9:270-271 REF

01 Mar 1969 382 M31C

Chemical structure, Chromatography, Isomers,

THE EFFECT OF SOIL FUMIGATION ON THE GROWTH OF SUGAR BEET.

D N Greet

Plant Pathol 16(3):111-116

Sep 1967 464.8 P692

Biochemistry, Chloropicrin, yields, Crop Dicbloropropane dicbloropropene mixture, Longidorus attenuatus, Plant nematodes, pbysiology, Soil fumigation, Sugar Trichodorus. beets.

ROLE OF RNA METABOLISM IN THE ACTION OF AUXIN-HERBICIDES.

J B Hanson F W Slife

Residue Rev 25:59-68- REF

1969 389 9 R314

D, 2,4-, Herbicides, Plant metabolism, Plant physiology, Plant regulators, Ribonucleie acid.

9195.69

PROPARGYL 2-BROMODECANOATE. PATENT 3,427,333.

R L Holmes J P Moreau A F Novak Us Patent Office Offic Gaz 859(2):598

11 Feb 1969 156.65 OF2

Bromodeeanoic acid, 2-, Chemical control (plant diseases), Esters, Molds, Patents, Plant growth inhibitors, Propargyl 2-bromodecanoate, Propyn-1-

9196-69

THE EFFECTS OF COMBINATIONS OF PREEMERGENCE HERBICIDES AND SYSTEMIC INSECTICIDES ON STANDS AND YIELDS. COTTON

H W Ivy T R Pfrimmer

Miss Agr Exp Sta Bull (765):6P

Jul 1968 100 M69

Aldicarb, Carbamates, Chemical control (pests), Cotton, Crop yields, Disulfoton, Diuron, Herbi-cides, Insecticides, Nitralin, Organophosphorus compounds, Phorate, Plant biochemistry, Plant physiology, Preemergence, Systemie insecticides, Trifluoromethylphenyl)-1,1-dimethylurea, 3-(m-, Trifluralin.

9197-69

COMPARISON OF THE MOVEMENT AND VASCULAR DIFFERENTIATION EFFECTS OF THE ENDOGENOUS AUXIN AND OF PHENOX-YACETIC WEEDKILLERS IN STEMS AND PETIOLES OF COLENS AND PHASEOLUS. W P Jacobs

N Y Acad Sci Ann 144(1):102-117 REF

09 Aug 1967 500 N484

Beans, Coleus, Herbicides, Phenoxyacetic acid compounds, Plant bistology, Plant physiology, Plant regulators.

YEAST SPORULATION AND RNA AS AF-FECTED BY GIBBERELLIC ACID.

S Kamisaka Y Masuda N Yanagisbima Plant Cell Physiol 8(1):121-127 REF

Mar 1967 450 P699

Extracts, Gibberellic acid, Plant physiology, Ribonueleic acid, Saccharomyces, Sporulation, Yeasts.

9199-69

SOME FEATURES OF THE PHYSIOLOGY OF DORMANCY IN BLACK CURRANT PLANTS IN CONNECTION WITH THE EFFECT OF GIB-BERELLIN.

1 A Karabanov

Fiziol Rast 15(6,NOV-DEC):988-992 REF 1968 450 F58

Biochemistry, Carbobydrates, Currants, Fertilizers. Gibberellins, Lipids, Plant dormancy, Plant physiology, Spraying, Starches, Sugar. Summary in English.

ON THE MODE OF ACTION OF CARBAMATE HERBICIDES.

G W Keitt

Physiol Plant 20(4):1076-1082 REF

1967 450 P564 (1)

Carbamates, Herbicides, Plant physiology, Toxicology.

The bypothesis of Mann et al. that carbamate berbicides act as anti-derepressor substances was tested in two systems: cell enlargement and proliferation in cultured tobacco pith, and auxininduced Avena first intermode extension. IPC and CIPC both severely inhibited kinetininduced cell proliferation in tobaceo pitb. Auxin-induced tobacco cell enlargement was inbibited to the same degree. Avena internode extension was insensitive to these compounds at lesser concentrations.

LIPID METABOLISM IN THE FRUIT OF PER-SEA AMERICANA MILL. I. STUDIES ON THE CHEMICAL COMPOSITION OF LIPIDS AND THEIR CHANGES DURING FRUIT DEVELOP-MENT AND STORAGE.

Y Kikuta

Hokkaido Univ Fac Agr J 55(PT 4):469-495 REF May 1968 107.6 J273J

Avocados, Chromatography, Fatty acids, Lipids, Plant biochemistry, Plant metabolism, Plant physiology, Spectroscopy.

9202-69

THE ON PRIMARY STAGES OF ORTHOPHOSPHATE ABSORBTION MYCELIUM OF PENICI BY PENICILLIUM CHRYSOGENUM. (RUS)

1 S Kulaev L A Okorokov

Biokhimiya 32(4):695-704 REF

1967 385 B523

Absorption, Chromatography, Extraction, Fungi, Mycelium, Penicillium chrysozenum, Phosphates, Radioactivity.

CHEMICAL GROWTH RETARDANTS FOR BEDDING PLANTS.

R G Maire R M Sacbs

Calif Agr 21(8):14

Aug 1967 100 C12CAG Chemicals, Horticulture, Plant biochemistry, Plant

physiology, Plant regulators, Succinic acid, 2,2-dimethylhydrazide, Zinnia elegans.

OXIDATIVE ENZYMES OF CERATOCYSTIS FIMBRIATA ISOLATES DIFFERING IN HOST SPECIFICITY.

R B Meagher J E DeVay T Kusube Physiol Plant 20(3):726-732 REF 1967 450 P564 (1)

Ceratocystis fimbriata, Enzymes, Fungus diseases (plants), Oxidation, Plant biochemistry.

9205-69

THE METABOLISM OF CARBON-14 SPECIFI-CALLY LABELLED GLUCOSE IN LEAVES SHOWING TOBACCO MOSAIC VIRUS INDUCED LOCAL NECROTIC LESIONS.

M J Merrett D W Sunderland Physiol Plant 20(3):593-599 REF

1967 450 P564 (1)

Glucose, Leaves, Metabolism, Plant biochemistry, Radioactive tracers, Tobacco mosaic virus, Virus diseases (plants).

FINE STRUCTURE OF HEALTHY AND TMV-INFECTED TOBACCO CELLS GROWN IN TIS-SUE CULTURE.

K Nakata A C Hildebrandt

Physiol Plant 20(4):999-1013 REF

1967 450 P564 (1)

Cells, Plant physiology, Tissue culture, Tobacco, Tobacco mosaie virus.

EFFECT OF SUCROSE AND INDOLE-3-ACETIC ACID ON EXTENSION GROWTH OF WHEAT COLEOPTILE SEGMENTS.

K K Nanda P Kaur

Indian J Plant Physiol 10(1):1-10 REF

1967 450 IN23

Biological assay, Crop varieties, Indoleacetic acid, Plant physiology, Plant regulators, Seedlings, Sucrose, Triticum aestivum, Wbeat.

PROGRESS IN THE KNOWLEDGE OF NATURAL PLANT GROWTH REGULATORS.

J P Nitsch

N Y Acad Sci Ann 144(1):279-294 REF

09 Aug 1967 500 N484

Histochemistry, Plant growth regulator, Plant hormones, Plant physiology.

9209-69

EFFECT OF SIMAZINE ON PHOTOSYNTHETIC PIGMENTS OF GREEN ALGAE.

I. N Paromenskaya G N Lyalin

Soviet Plant Physiol 15(6,NOV-DEC):842-846 REF

Dec 1968 450 F58AE

Algae, Chlorophylls, Photosynthesis, Pigments, Plant physiology, Simazine, Russian journal-Fiziologiya Rastenii, 15(6):1002-1007, Nov-Dec, 1968.

9210-69

TOXICITY OF TALL FESCUE TO RAPE AND BIRDFOOT TREFOIL SEEDS AND SEEDLINGS. E. J. Peters

Crap Sci 8(6,NOV-DEC):650-653

1968 64.8 C883

Birdsfoot trefoil, Brassica nigra, Extracts, Festuca arundinacca, Nutrient solutions (plants), Plant growth inhibitors, Plant regulators, Rape, Seed germination, Seedlings, Seeds, Toxicity.

9211-69

GROWTH RESPONSE OF TURFGRASSES TO SEVERAL HERBICIDES.

J A Simmons R Huey

Weed Soc Amer Abstr 1966 MEETING:73

1966 241 W41

Chlordane, Grasses, Herhicides, Pesticides, Plant hiochemistry, Plant physiology, Poa pratensis, Turf.

9212-69

EFFECT OF HERBICIDES ON THE VALUATIONS OF MADE TEA.

H Singh K N Sharma R Choudhury

Tocklai Exp Sta Newslett 15(2):72-74

Jun 1968 68.18 T93

Appraisal, Atrazine, Chemical control (weeds), Chlorinated hydrocarhons, Dalapon, Dichlorohenzonitrile, 2,6-, Dosage, Herbicides, Paraquat, Plant pest control, Propazine, Statistical analysis, Swep, Tahles (data), Tea.

9213-69

2,3,6-TRICHLOROBENZOIC AND 2,6-DICHLOROBENZOIC ACID INTERFERENCE WITH PHOTOTROPIC AND GEOTROPIC RESPONSES OF SEEDLINGS.

L C Vander Beck

N Y Acad Sci Ann 144(1):379-382 REF

09 Aug 1967 500 N484

Dichlorobenzoic acid, 2,6-, Geotropism, Phototropism, Plant regulators, Plants, Seedlings, Trichlorohenzoie acid, 2,3,6-.

9214-69

PRODUCTION OF YEAST VARIANTS BY AUXIN AND EFFECTS OF PLANT GROWTH REGULATORS ON THESE VARIANTS.

N Yanagishima C Shimoda

Plant Cell Physiol 8(1):109-119 REF

Mar 1967 450 P699

D, 2,4-, Indoleacetic acid, Naphthaleneacetic acid, Plant genetics, Plant hormones, Plant mutation, Plant regulators, Yeasts.

9215-69

MODE-OF-ACTION OF PHOTOSYNTHESIS IN-HIBTOR HERBICIDES.

G Zucig

Residue Rev 25:69-79 REF

1969 389.9 R314

Chemical reactions, Herbicides, Inhibitors, Photosynthesis, Plant physiology.

CHEMISTRY

9216-69

GAS CHROMATOGRAPHIC DETERMINATION OF ETHYL O,O-DIMETHYL-DITHIOPHOSPHORYL-L-PHENYL ACETATE IN TECHNICAL GRADE CIDIAL AND ITS 50 PERCENT LIQUID FORMULATION.

B Bazzi L Abbruzzese G Galluzzi

Ass Offic Anal Chem J 52(1):52-55

Jan 1969 381 AS7

Chemical analysis, Chromatography, Insecticides, Phenthoate, Toluene.

A gas chromatographic method has been developed for analysis of ethyl O,O-dimethyl-dithiophosphoryl-l-phenyl acetate. The insecticide or a convicnient amount of an insecticidal preparation is dissolved in toluene, together with a suitable internal standard, and analyzed by gas chromatography, using a thermal conductivity detector. The precision (PO 0.05) of the method is plus or minus 1.5 per cent of the concentration found.

9217-69

REPORT ON CARBAMATE PESTICIDES.

W R Benson

Ass Offic Anal Chem J 52(2):266-269 REF Mar 1969 381 AS7

Carbamates, Chemical analysis, Pesticide residues, Pesticides, Polarography.

9218-69

ANTIBACTERIAL COMPOSITION CONTAIN-ING 5-NITRO-2-FURYL-1,2,4-TRIAZOLES. PATENT 3,427,387.

H A Burch

Us Patent Office Offic Gaz 859(2):608

11 Feb 1969 156,65 OF2

Bactericides, Chemicals, Patents, Pharmacology, Triazole compounds.

9219-69

REPORT ON CHLORINATED INSECTICIDES.

J A Burke

Ass Offic Anal Chem J 52(2):270-271

Mar 1969 381 AS7

Chemical analysis, Chlorinated hydrocarbons, Insecticides.

9220-69

REPORT ON PESTICIDE FORMULATIONS.

R L Caswell

Ass Offic Anal Chem J 52(2):220-221

Mar 1969 381 AS7

Chemical analysis, Formulations, Pesticide monitoring program, Pesticides.

9221.69

EXPERIMENTAL APPROACHES TO PESTI-CIDE PHOTODECOMPOSITION.

D G Crosby

Residue Rev 25:1-12 REF

1969 389.9 R314

Chemical structure, Degradation, Pesticides, Photoehemistry, Radioactive tracers.

9222-69

RUBIDIUM SULFATE FLAME DETECTOR: EFFECT OF DESIGN OF ALKALI SOURCE AND ANODE ON SENSITIVITY AND STABILITY.

H K DeLoach D D Hemphill

Ass Offic Anal Chem J 52(3):533-541

May 1969 381 AS7

Chemical analysis, Flame ionization detector, Pesticides, Rubidium, Sulfates.

9223-69

ON A SPRAY REAGENT FOR THIN-LAYER CHROMATOGRAPHIC DETECTION OF A CHOLINESTERASE INHIBITING INSECTICIDE. (GE)

W Ehing

J Chromatography 42(1):140-144

03 Jun 1969 475 J824

Chemical analysis, Cholinesterases, Chromatography, Insecticides, Methodology.

9224-69

IUPAC COMMISSION ON THE DEVELOP-MENT, IMPROVEMENT, AND STANDARDIZA-TION OF METHODS OF PESTICIDE RESIDUE ANALYSIS.

H Egan

Ass Offic Anal Chem J 52(2):306-309

Mar 1969 381 AS7

Chemical analysis, Chlorinated hydrocarbons, Chromatography, Dichlorvos, Fumigants, Fungicides, Pesticide residues, Spectroscopy.

9225-69

CHEMICAL INDUSTRY PRODUCES INSECTI-CIDES AS AID TO GROWERS IN MEETING DEMANDS OF CONSUMERS, DR. FERGUSON POINTS OUT.

G R Ferguson

Better Fruit 63(4):11,14,15

Feb 1969 80 B46

Chemicals, Chemistry, Industry, Insecticides.

9226-69

GAS CHROMATOGRAPHY OF 3,4 METHYLENEDIOXYPHENYL CARBAMATES.

L Fishbein W L Zielinski

J Chromatography 27(1):255-258 REF

Mar 1967 475 J824

Carbamates, Chemical analysis, Chromatography.

9227-69

MICROCOULOMETRIC GAS CHROMATOG-RAPHY: IMPROVEMENTS IN INSTRUMENTA-TION.

L Giuffrida N F Ives

Ass Offic Anal Chem J 52(3):541-545

May 1969 381 AS7

Chlorine, Chromatography, Laboratory equipment, Sulfur.

9228-69

DETERMINATION OF ZINC PHOSPHIDE AND ITS STABILITY IN RODENT BAITS.

G O Guerrant J W Miles

Ass Offic Anal Chem J 52(3):662-666 REF

May 1969 381 AS7

FLUOROMETRIC

Baits, Chemical analysis, Rodenticides, Zinc phosphide.

DETERMINATION

OF

9229-69

PESTICIDES.
G G Guilbault M H Sadar

Anal Chem 41(2):366-368

Feb 1969 381 J825A
Carbamates, Chlorinated hydrocarbons,

Fluorometry, Pesticide analysis, Pesticides.

THE FLUORESCENT PARTICLE SPRAY DROPLET TRACER METHOD.

C M Himel

J Econ Entomol 62(4):912-916

15 Aug 1969 421 J822

Aerial spraying, Dairy equipment, Fluorescent substances, Formulations, Insect preservation, Insects, Invertebrates, Labeling, Leaves, Particle size determination, Pesticide application, Spraying, Velocity.

9231-69

THE OPTINUM SIZE FOR INSECTICIDE SPRAY DROPLETS.

C M Himel

J Econ Entornol 62(4):919-925 REF

15 Aug 1969 421 J822

Aedes acgypti, Air pollution, Anthonomus grandis, Chemical control (insects), Chlorinated hydrocarbons, DDT, Ecology, Fluorescent substances, Heliothis zea, Insecticides, Methyl parathion, Organophosphorus compounds, Particle size determination, Soil contamination, Spraying, Velocity.

232-69

LONG-CHAIN BISPHENOL ESTERS, PATENT 3,427,345,

R E Holmen

Us Patent Office Offic Gaz 859(2):601

11 Feh 1969 156.65 OF2

Bacterieides, Chemicals, Esters, Fungicides, Patents, Phenols.

REPORT ON MULTIPLE RESIDUE METHODS.

I. Y Johnson

Ass Offic Anal Chem J 52(2):275

Mar 1969 381 AS7

Chemical analysis, Chromatography, Methodology, Pesticide residues.

DO ANTICOAGULANT CONCENTRATES CON-TAIN EXCESSIVE AMOUNTS OF INERT IN-GREDIENTS.

R E Marsh

Pest Contr 37(6):28-30

Jun 1969 449.8 EX8

Baits, Formulations, Rodents, Warfarin,

ACTIVATION AND INACTIVATION OF HER-BICIDES BY HIGHER PLANTS.

S Matsunaka

Residue Rev 25:45-58 REF

1969 389.9 R314

Chemical activation, Chemical reactions, Herhicides, Photochemistry, Plant physiology, Propanil.

REPORT ON PHOSPHATED PESTICIDES.

K A McCully

Ass Offic Anal Chem J 52(2):276-278 REF

Mar 1969 381 AS7

Chemical analysis, Chromatography, Pesticides, Phosphates.

9237-69

PHOTOCHEMICAL DEGRADATION PRODUCTS OF PENTACHLOROPHENOL.

K Munakata M Kuwahara

Residue Rev 25:13-24

1969 389.9 R314

Chemical Degradation, structure, Pentachlorophenol, Pesticides, Photochemistry.

ON THE STRUCTURE OF THE GLYCEROL TEICHOIC ACID FROM THE CELL WALL OF ACTINOMYCES ANTIBIOTICUS-39, ZARET-SKAJA, M S. (RUS)

1 B Naumova Z A Shaharova Biokhimiya 32(4):796-802 REF 1967 385 B523

Actinomyces, Biochemistry, Cell wall, Fungi, Hydrolysis, Polymers, Teichoic acid compounds. English summary

ANALYSIS OF A SINGLE CROP EXTRACT FOR SUBSTITUTED UREA HERBICIDES AND METABOLITES, CHLORINATED INSECTICIDES, AND AMITROLE.

J E Onley G Yip

Ass Offic Anal Chem J 52(3):526-532 REF

May 1969 381 AS7

Amitrole, Chemical analysis, Chlorinated hydrocarbons, Chromatography, Plant extracts, Urea herhicides. Insecticides,

BRATTON-MARSHALL REAGENT FOR THE DETECTION OF SUBSTITUTED UREA HERBI-CIDES AND METABOLITES ON TLC PLATES.

J H Onley G Yip

Ass Offic Anal Chem J 52(3):545-547

May 1969 381 AS7

Chemical analysis, Chemicals, Chromatography, Pesticide residues, Urea herbieides.

A NOTE ON PAPER DISK METHOD FOR LABORATORY FUNGICIDAL BIOASSAY.

M L Sahni B N Bagchi R P Gingh

Pesticides 1(10):28

Jun 1968 SB951.P43

Alternaria solani, Chemical control (pests), Fungieides, Macrophomina phaseoli.

9242-69

IT'S TOUGH TO PINPOINT RESIDUE CONTENT.

Can Chem Proc 53(6):89-93

Jun 1969 381 C16

Chromatography, Pesticide analysis, Pesticide residues, Spectrophotometry.

REPORT ON FUNGICIDES, FUMIGANTS, AND MISCELLANEOUS.

R W Storherr

Ass Offic Anal Chem J 52(2):271

Mar 1969 381 AS7

Biphenyl, Captan, Chemical analysis, Fumigants, Fungicides.

9244-69

CHROMATOGRAPHY GAS OF OR-GANOPHOSPHORUS PESTICIDES: RETEN- TION TIMES AND RESPONSE DATA ON THREE COLUMNS.

R R Watts R W Storherr

Ass Offic Anal Chem J 52(3):513-521

May 1969 381 AS7

Chemical analysis, Chromatography, Organophosphorus compounds, Pesticides.

REPORT ON HERBICIDES AND PLANT GROWTH REGULATORS.

Ass Offic Anal Chem J 52(2):272-274 REF

Mar 1969 381 AS7

Chemical analysis, Chromatography, Herbieides, Methodology, Plant growth regulator.

ENGINEERING

9246-69

AN EXPERIMENTAL PESTICIDE DUST-ME-TERING UNIT.

W W Hare E A Harrell H D Bowen J Econ Entomol 62(4):969-970 15 Aug 1969 421 J822

Dairy equipment, Dusting, Pesticides.

INDUSTRY

EDUCATION

9247-69

ELM RESEARCH INSTITUTE.

Anonymous

Weeds Trees Turf 8(5):14-17

May 1969 79.8 W413

Agricultural research, Diehaek (ulmus), Ulmus.

9248-69

GIVING CROPS FIELD-TO-TABLE PROTEC-TION.

H Tristram

Pesticides 1(10):19-21

Jun 1968 SB951.P43

Agricultural schools, Crops, Education, Grain, Storage diseases.



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Cellular and molecular mechanisms. 9178	Fine structure of the intestine of the nematodes, Ancylostoma caninum and Phocanema	reference to stages in sporogony.
9178 ALTERNARIA LONGIPES	Ancylostoma caninum and Phocanema decipiens.	reference to stages in sporogony. 9118
9178 ALTERNARIA LONGIPES Occurrence of brown spot on tohacco in Ken-	Ancylostoma caninum and Phocanema decipiens. 9130	reference to stages in sporogony. 9118 Fine structure of the intestine of the nematodes,
9178 ALTERNARIA LONGIPES	Ancylostoma caninum and Phocanema decipiens. 9130 ANDROSTAN-17BETA-OL COMPOUNDS 3-methylene-androstan-17beta-ols and 17-alkyl	reference to stages in sporogony. 9118 Fine structure of the intestine of the nematodes, Ancylostoma caninum and Phocanema decipiens.
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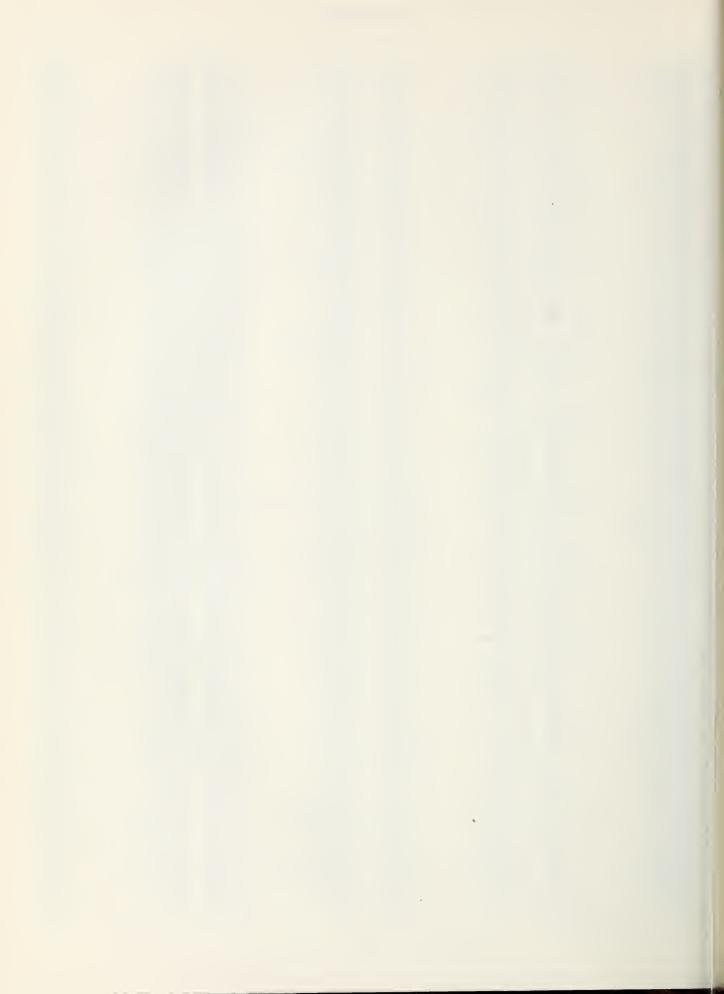
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