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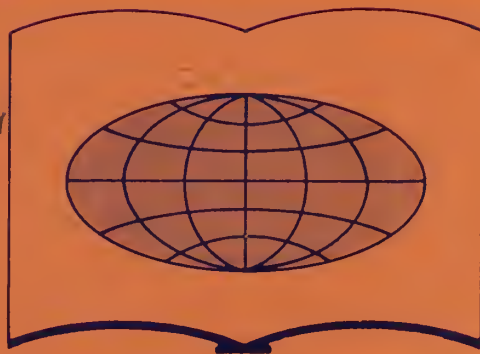
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Pesticides DOCUMENTATION BULLETIN

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Volume 5
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Number 20



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PESTICIDES DOCUMENTATION BULLETIN

Volume 5
October 3, 1969
Number 20

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

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

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

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

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

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ACKNOWLEDGMENT

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

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

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

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

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BIBLIOGRAPHY

ENTOMOLOGY

11714-69
MASS-REARING OF PHYTOSEIULUS RIEGELI DOSSE FOR USE IN COMMERCIAL HORTICULTURE.
 N E A Scopes
Plant Pathol 17(3):123-126
 Sep 1968 464.8 P692
 Cucumbers, *Phytoseiulus riegeli*, Plant pest control, Research, *Tetranychus urticae*.

SYSTEMATICS

11715-69
SALIMUZZAMANIA UNIFORMIS (CHAMPION) GEN. N. ET SP. COMB. NOV. (COLEOPTERA: ANTHICIDAE, EURYGENIINAE) FROM GUATEMALA.
 M Abdullah
Pakistan J Sci Indus Res 11(2):188-189
 Apr 1968 475 P174
 Anthicidae, Coleoptera, Insect taxonomy.

11716-69
A RECORD OF RHAGOLETIS INDIFFERENS CURRAN FROM CRESTON, BRITISH COLUMBIA.
 J C Arrand W S Peters
Entomol Soc Brit Columbia Proc 65:40
 01 Aug 1968 420 B77
 Cherries, Insect identification, *Rhagoletis cingulata*, *Rhagoletis cingulata indifferens*, *Rhagoletis fausta*, Tephritidae, Zoogeography.

11717-69
CONTRIBUTION TO THE KNOWLEDGE OF THE FAUNA OF THE GENUS BOMBUS. LATR. OF BIESZCZADY MOUNTAINS. (PO)
 J Banaszak
Przegl Zool 113(2):187
 1969 410 P95
 Bombus, Surveys. English abstract.

11718-69
A SURVEY OF THE DISTRIBUTION AND PRESENT STATUS OF THE WOOD ANT, FORMICA RUFA L. (HYM., FORMICIDAE), IN ENGLAND AND WALES.
 K E J Barrett
Soc Brit Entomol Trans 17(8):217-233 MAP REF
 Mar 1968 420 SO15
 Formica rufa, Formicidae, Insect geography, Surveys.

11719-69
NOTES ON SOME SPIDER HUNTING WASPS FROM THE NETHERLANDS (HYMENOPTERA, POMPILIDAE). (DU)
 P Benno
Entomol Ber 29(4):72-76
 01 Apr 1969 420 N38B
 Insect behavior, Insect taxonomy, Pompilidae, Predaceous insects, Spiders. English abstract.

11720-69
THE POSITION OF THE STREPSIPTERA IN THE CLASSIFICATION OF INSECTS. (PO)
 F Blazejewski
Przegl Zool 13(1):38-42 REF
 1969 410 P95
 Insect morphology, Insect taxonomy, Stylopidae. English abstract

11721-69
TICKS FROM WATERBUCK AND WARTHOG IN THE QUEEN ELIZABETH NATIONAL PARK, UGANDA.
 W Block
East Afr Wildlife J 6:140-141
 Aug 1968 409.6 EA7
 Antelopes, Insect identification, Ixodides, Parasitic insects, Ruminants, Wart hogs, Wildlife, Zoogeography.

The commonest species of the waterbuck were

Amblyomma cohaerens and *Rhipicephalus appendiculatus*. Species of the warthog were *A. cohaerens*, *R. simus*, *R. longus*, *A. variegatum*, *R. appendiculatus*, *Ornithodoros moubata*.

11722-69
AGRILUS CUPRIPES (CARTER) COMB. N. (COLEOPTERA: BUPRESTIDAE).
 J G Brooks
Entomol Soc Queensland J 7(1):42
 Jun 1968 420 EN823
 Agrilus cupripes, Buprestidae, Forest insects, Insect identification, Insect taxonomy, Zoogeography.

11723-69
A NEW SPECIES OF ARMYWORM BELONGING TO THE GENUS FARONTA SMITH FROM THE WESTERN UNITED STATES (NOCTUIDAE).
 J S Buckett
J Res Lepidoptera 6(4):268-274
 Dec 1967 421 J827
 Faronta, Insect taxonomy, Noctuidae.

11724-69
THE QUESTION OF APPLIED TERMINOLOGY FOR DEVELOPMENT STAGES OF MITES OF THE SUBORDER SARCOPTIFORMES. (POL)
 W Chmielewski
Pol Pismo Entomol 37(3):603-609
 30 Oct 1967 421 P76
 Insect morphology, Insect names, Insect taxonomy, Mites, Oribatei, Sarcoptiformes. English summary.

11725-69
EARLY STAGES OF LYCOMORPHA REGULUS GRINNELL, WITH NOTES ON THE IMAGO. (LEPIDOPTERA: AMATIDAE).
 J A Comstock C Henne
J Res Lepidoptera 6(4):275-280
 Dec 1967 421 J827
 Amatidae, Imagos, Insect taxonomy, Lichenes, Lycomorpha.
 Abstract

11726-69
STUDIES IN LIFE HISTORIES OF NORTH AMERICAN LEPIDOPTERA CALIFORNIA ANAPHILA III.
 J P Comstock C Henne
J Res Lepidoptera 6(4):257-262
 Dec 1967 421 J827
 Anaphila, Host plants, Insect taxonomy, Larvae.

11727-69
NOTES ON CULISETA (CULICELLA) ATRA (LEE) (DIPTERA: CULICIDAE) IN WESTERN AUSTRALIA.
 N V Dobrotworsky
Entomol Soc Queensland J 7(1):11-14 REF
 Jun 1968 420 EN823
 Culiseta atra, Culiseta inconspicua, Ficalbia, Insect identification, Insect morphology, Larvae, Zoogeography.

11728-69
REVISION OF THE GENUS ENOPHOSEMA (LEP., GEOM.). (GE)
 E Ebert
Arkiv Zool 22(2):163-199 MAP REF
 1969 410.9 SV22
 Geometridae, Insect biology, Insect taxonomy, Zoogeography. English abstract.

11729-69
NEW PALEARCTIC LEAF-HOPPERS OF THE TRIBE OPSIINI (HOMOPTERA, CICADELLIDAE, DELTOCEPHALINAE). (RUS)
 A F Emelyanov
Zool Zhur 48(7):1100-1104
 Jul 1969 410 R92
 Cicadellidae, Insect taxonomy, Zoogeography. Russian and english abstracts

11730-69
THE GENERA APANESIA AND DISSOMPHALUS IN ARGENTINA AND CHILE (HYMENOPTERA, BETHYLIDAE).
 H E Evans
Breviora (311):1-23
 31 Mar 1969 410 B75
 Bethylidae, Insect taxonomy.

11731-69
REVISION OF THE GENUS EURYGLOSSINA COCKERELL (APOIDEA: COLLETIDAE).
 E M Exley
Australian J Zool 16(6):915-1020
 Dec 1968 410 AU73
 Catalogs, Colletidae, Euryglossina, Insect geography, Insect taxonomy.

11732-69
A NEW NORTH AMERICAN SPECIES OF TEPHTRITIS WITH SOME OBSERVATIONS ON ITS GENERIC POSITION.
 R H Foote
Brooklyn Entomol Soc Bull 54(1):13-17
 Feb 1959 420 B79
 Entomology, Insect anatomy, Insect taxonomy, Tephritidae.

11733-69
A NEW SPECIES OF NEPTICULA ON BUR OAK IN ONTARIO (NEPTICULIDAE).
 T N Freeman
J Res Lepidoptera 6(1):19-21
 Mar 1967 421 J827
 Forest insects, Insect anatomy, Insect identification, Insect taxonomy, Nepticula macrocarpa, Nepticulidae, Quercus macrocarpa, Zoogeography.

11734-69
THE DESCRIPTION OF PUPAE OF COLYMBETES PAYKULLI ER. AND C. DOLABRATUS (PAYK.) WITH A KEY TO THE IDENTIFICATION OF PUPAE OF THE EUROPEAN SPECIES OF COLYMBETES CLAIRV. (COLEOPTERA, DYTISCIDAE).
 K Galewski
Pol Akad Nauk Inst Zool Ann Zool 24(5):8P
 1967 410.9 W26
 Colymbetes, Dytiscidae, Insect identification, Insect taxonomy, Pupae, Zoogeography. Polish and Russian summaries.

11735-69
COLEOPTERA, TENEBRIONIDAE, ERODIINI, TENTYRIINI AND ADESMIINI COLLECTED BY J. MATEU IN THE MOUNTAIN MASS OF ENNEDI. (FR)
 C Girard
Inst Fondamental Afr Noire Bull Ser A Sci Natur (SER A)29(3):945-953
 Jul 1967 515 D14
 Catalogs, Insect taxonomy, Tenebrionidae.

11736-69
THE FAMILY XESTOCEPHALIDAE OF JAPAN (HEMIPTERA).
 T Ishihara
Shikoku Entomol Soc Trans 7(1-2):19-25
 Aug 1961 420 SH6
 Entomology, Insect dissemination, Insect identification, Insect taxonomy, Xestocephalidae.

11737-69
A NEW SPECIES OF THE GENUS MALTHODES (COLEOPTERA, CANTHARIDAE). (RUS)
 L P Istomina
Zool Zhur 48(7):1104-105
 Jul 1969 410 R92
 Cantharidae, Insect taxonomy. Russian and english abstract

11738-69
OCCURRENCE OF AGRIOTYPUS ARMATUS WALK. (HYMENOPTERA, ICHNEUMONIDAE) IN WEST POMERANIA. (POL)
 J Jaskowska

11739-69

Pol Pismo Entomol 38(2):289-299 REF

1968 421 P76

Agriotypus armatus, Ichneumonidae, Larvae, Parasitic insects, Trichoptera, Zoogeography. Larvae and pupae of 23 species of the parasitized Trichoptera are listed. English summary.

11739-69

THE EGG PARASITE COMPLEX OF BRITISH PENTATOMOIDEA (HEMIPTERA): TAXONOMY OF TELENOMINAE (HYMENOPTERA: SCELIONIDAE).

M Javahery

Roy Entomol Soc London Trans 120(19):417-436

31 Dec 1968 420 L84

Asolcus, Insect taxonomy, Scelionidae, Telenomus.

11740-69

THE LIMITED DISTRIBUTION OF HYLOTRUPES BAJULUS L. IN NORWAY IN RELATION TO CLIMATIC DIFFERENCES.

P Knudsen

Holz Organ 1:353-359 MAP

1966 QK604.H6

Anobium punctatum, Climate, Hylotrupes bajulus, Insect pests, Wood, Zoogeography. German and French summaries.

11741-69

THE DISTRIBUTION OF IXODES PERSULCATUS IN THE USSR. (RUS)

E I Korenberg V I Zhukov A V Shatkauskas L K Bushueva

Zool Zhur 48(7):1003-1014 MAP REF

Jul 1969 410 R92

Ixodes persulcatus, Ixodidae, Zoogeography.

11742-69

INTERESTING CATCHES OF HYMENOPTERA-ACULEATA IN 1961 AND 1968. (DU)

V Lefeber

Entomol Ber 29(4):77-80

01 Apr 1969 420 N38B

Aculeata, Surveys. English abstract.

11743-69

LASIORHYNCHITES OPHTHALMICUS (STEPH.) (COL., CURCULIONIDAE): A NEW IRISH RECORD.

A M Masseur

*Entomol Mon Mag (SER.4)*96(241):4

Jan 1968 421 EN86

Curculionidae, Insect taxonomy, Lasiorhynchites ophthalmicus, Quercus.

11744-69

NEW SPECIES OF LEAF-HOPPERS (HOMOPTERA, CICADINEA) FROM TIEN SHAN AND KARATAU. (RUS)

I D Mitjaev

Zool Zhur 48(7):1041-1047

Jul 1969 410 R92

Cicadellidae, Insect taxonomy, Zoogeography. Russian and English abstracts

11745-69

THE GENUS HORNIOLOUS WEISE OF JAPAN AND THE RYUKYU ISLANDS (COLEOPTERA: COCCINELLIDAE).

M Mixatake

Shikoku Entomol Soc Trans 8(1):6-12

Jun 1963 420 SH6

Coccinellidae, Horniolus, Insect identification, Insect taxonomy.

11746-69

A NEW SPECIES OF THE GENUS HEPHAPHYLLA FROM SHIKOKU, JAPAN (COLEOPTERA: MELOLONTHIDAE).

M Miyatake

Shikoku Entomol Soc Trans 8(1):23-25

Jun 1963 420 SH6

Insect identification, Insect taxonomy, Rhipidandrus, Scarabaeidae.

11747-69

DESCRIPTIONS OF TWO NEW SPECIES OF THE GENUS SERANGIUM FROM JAPAN (COLEOPTERA, COCCINELLIDAE).

M Miyatake

Shikoku Entomol Soc Trans 8(1):13-14

Jun 1963 420 SH6

Coccinellidae, Insect anatomy, Insect identification, Insect taxonomy, Serangium.

11748-69

TICKS OF WILD ANIMALS OF THE ANTILLES (ACARINA, IXODOIDEA). (FR)

P C Morel

Acarologia 9(2):341-352 REF

Jul 1967 434.8 AC1

Birds, Ixodidae, Mammals, Parasitic insects, Reptilia, Zoogeography.

11749-69

A TAXONOMIC REVISION OF THE AUSTRALIAN AEOLOTHIRIPIDAE (THYSANOPTERA).

L A Mound

Brit Mus (natur Hist) Entomol Bull Suppl

20(2):43-74 REF

1967 420 B773

Catalogs, Insect taxonomy, Thysanoptera, Zoogeography.

11750-69

A NEW SPECIES OF THE GENUS MIYATROMBICULA FROM AZERBAIJAN. (RUS)

L V Muhiarskaia

Zool Zhur 48(7):1097-1099

Jul 1969 410 R92

Insect taxonomy, Mites, Trombiculidae.

11751-69

SOME ORIENTAL-TROPIC SPECIES OF CHLOROPIDAE (DIPTERA) IN THE FAUNA OF SOUTH PRIMORYE. (RUS)

E P Nartshuk

Zool Zhur 48(7):1048-1052 MAP REF

Jul 1969 410 R92

Chloropidae, Surveys, Zoogeography. Russian and English abstracts

11752-69

A SECOND BRITISH RECORD OF HELIOCOCONIS LUTEA (WALL.) (NEUROPTERA: CONIOPTERYGIDAE).

T R New

Entomologist (london) 100(1249):145

Jun 1967 421 EN8

Coniopterygidae, Great Britain, Habitats, Zoogeography.

11753-69

NEW OR LITTLE-KNOWN ELATERIDAE FROM JAPAN. VI. (COLEOPTERA).

H Ohira

Shikoku Entomol Soc Trans 8(1):15-18

Jun 1963 420 SH6

Cuticle, Elateridae, Insect identification, Insect taxonomy.

11754-69

THE GENERA, EVIPPE AND STENOLECHIA, OF JAPAN, WITH THE DESCRIPTIONS OF TWO SPECIES OF THE LATTER (LEPIDOPTERA: GLECHIIDAE).

M Okada

Shikoku Entomol Soc Trans 7(1-2):41-53

Aug 1961 420 SH6

Cuticle, Evippe, Glechiidae, Insect identification, Insect taxonomy, Stenolechia.

11755-69

AN INTRODUCED PASTURE BEETLE, PLECTRIS ALIENA CHAPIN (SCARABAEIDAE: MELOLONTHINAE).

R J Roberts

Entomol Soc Queensland J 7(1):15-20 REF

Jun 1968 420 EN823

Insect ecology, Insect identification, Insect pests, Plectris aliena, Scarabaeidae, Zoogeography.

11756-69

CONTRIBUTION TO THE KNOWLEDGE OF THE GENERA MANTIS LINNE AND PARAMANTIS, SP. NOV. (MANTIDAE). (FR)

R Roy

Inst Fondamental Afr Noire Bull Ser A Sci Natur

29(1):126-149 REF

Jan 1967 515 D14

Catalogs, Insect taxonomy, Mantidae, Zoogeography.

11757-69

A PRELIMINARY REVIEW OF THE GENUS HOMOCHAETOTHRIPS GEN.-N., WITH BRIEF DESCRIPTION OF A NEW SPECIES (THYSANOPTERA: THRIPIDAE).

K Sakimura

Entomol Soc Queensland J 7(1):59-62

Jun 1968 420 EN823

Homochaetothrips, Insect morphology, Insect taxonomy, Tactiorthrips, Thripidae, Zoogeography. Reclassification of several species of isochoaethrips.

11758-69

NEW ENTOMOPHILOUS ACARI FROM CHINA. (GE)

K Samsinak

Acta Ent Bohemoslov 59(2):186-204 REF

20 Apr 1962 420 C33

Insect taxonomy, Mites, Zoogeography. Czech summary.

The new species are: Rhopalanoetus simplex, R. chinensis, Weiseronyssus mirus (n. gen., n. sp.), Coleolaelaps liui, Macrocheles glaber tsaii (n. ssp.), and M. limue.

11759-69

NEW SPECIES OF BEETLE MITES OF THE SUBFAMILY SPHAEROTETINAE (ORIBATEI, CERATOTETIDAE). (RUS)

E S Shaldybina

Zool Zhur 48(7):1015-1027

Jul 1969 410 R92

Ceratotetidae, Insect taxonomy, Mites, Oribatei, Zoogeography. Russian and English abstracts

11760-69

A NEW BRITISH SPECIES OF THE GENUS TRIOXY HALIDAY (HYM., BRACONIDAE).

P Stary

*Entomol Mon Mag (SER.4)*96(241):22

Jan 1968 421 EN86

Braconidae, Cuticle, Insect anatomy, Insect color, Insect dissemination, Taxonomy, Trioxys.

11761-69

THREE APHELINID PARASITES OF ODONASPIS SECRETA COCKERELL FROM JAPAN (HYMENOPTERA: CHALCIDOIDEA).

T Tachikawa

Shikoku Entomol Soc Trans 8(2):46-50

Jun 1964 420 SH6

Hymenoptera, Insect identification, Insect pests, Insect rearing, Odonaspis secreta, Parasitic insects.

11762-69

DISCOVERY OF MARLATTIELLA PRIMA HOWARD, A PARASITE OF THE PEAR WHITE SCALE, FROM JAPAN (HYMENOPTERA: APHELINIDAE).

T Tachikawa

Shikoku Entomol Soc Trans 7(3):74-77

Jun 1962 420 SH6

Aphelinidae, Insect geography, Insect rearing, Insect taxonomy, Lopholeucaspis japonica, Marlatticella prima, Parasitic insects.

11763-69

SCALE INSECTS OF SHIKOKU, II (HOMOPTERA: COCCOIDEA).

T Tachikawa

Shikoku Entomol Soc Trans 7(3):77-78

Jun 1962 420 SH6

Coccoidea, Insect identification, Insect taxonomy.

11764-69

ON CALLIPTEROMA KIUSHIUNSE ISHII (HYMENOPTERA: ENCARTIDAE).

T Tachikawa

Shikoku Entomol Soc Trans 7(3):79

Jun 1962 420 SH6

Callipteroma, Encyrtidae, Insect identification, Insect taxonomy.

11765-69
NEW HOSTS OF TWO TACHINID FLIES (DIPTERA).

T Tachikawa
Shikoku Entomol Soc Trans 7(3):80
Jun 1962 420 SH6
Insect morphology, Insect taxonomy, Tachinidae.

11766-69
SOME SPECIES OF CAPITOPHORUS OF JAPAN (HOMOPTERA: APHIDIDAE).

R Takahashi
Shikoku Entomol Soc Trans 7(1-2):1-4
Aug 1961 420 SH6
Aphididae, Capitophorus, Insect identification, Insect taxonomy.

11767-69
KEY TO GENERA AND SPECIES OF GREENIDEINI OF JAPAN, WITH DESCRIPTIONS OF A NEW GENUS AND THREE SPECIES (HOMOPTERA: APHIDIDAE).

R Takahashi
Shikoku Entomol Soc Trans 7(3):65-73
Jun 1962 420 SH6
Aphididae, Insect identification, Insect taxonomy.

11768-69
FURTHER NOTES ON ARGAS (ARGAS) REFLEXUS (FABR.), ARGAS (CARIOS) VESPERTILIONIS (LATREILLE) AND IXODES VESPERTILIONIS KOCH (IXODOIDEA).

G B Thompson
Entomol Mon Mag 103(1238-1240):153-154
Jul 1967 421 EN86
Argas reflexus, Argas vesperitilionis, Argasidae, Ixodes vesperitilionis, Ixodidae. Additional references listed.

11769-69
A PREVIOUSLY UNRECOGNIZED SUBSPECIES OF PHILOTES SPECIOSA.

J W Tilden
J Res Lepidoptera 6(4):281-284
Dec 1967 421 J827
Insect taxonomy, Lepidoptera, Philotes speciosa.

11770-69
NEW OR LITTLE KNOWN NOCTURAL QUADRIFIDS OF MADAGASCAR, III (LEP. NOCTUIDAE). (FR)

P Viette
Lambillionea 67(1/2):9-20
25 Feb 1968 420 N15
Insect morphology, Insect taxonomy, Lepidoptera, Noctuidae, Zoogeography. Description of 12 species.

11771-69
A NEW PTEROMALID PARASITE OF THE EASTERN DEATH WATCH BEETLE, HADROBREGMUS CARINATUS (SAY).

G E Wallace
Brooklyn Entomol Soc Bull 54(3):84-86
Jun 1959 420 B79
Anobiidae, Cerocephala, Insect taxonomy, Predaceous insects.

11772-69
FOUR APHIDS NEW FOR CHILE. (HOMOPTERA, APHIDIDAE). (SP)

E S Zuniga
Agr Tec 27(2, APR-JUN):87-91
1967 464.9 C432B
Aphididae, Aphis spiraeicola, Chaetosiphon fragaefolii, Dactynotus sonchi, Dysaphis tulipae, Insect identification, Neomyzus circumflexus, Rhopalosiphum padi, Zoogeography. English summary.

PHYSIOLOGY AND BIOCHEMISTRY

11773-69
MODE OF MULTIPLICATION OF THE NUCLEAR-POLYHEDROSIS VIRUS OF THE SILKWORM.

K Aizawa
J Sericult Sci Jap 36(4):327-332 REF
Aug 1967 425.9 SE6
Ammonium sulfate, Bombyx mori, Experimental insects, Hemolymph, Insect diseases, Insect physiology, Polyhedroses, Temperature, Virology, Virucides. Japanese summary.

11774-69
ULTRASTRUCTURAL LOCALIZATION OF PHOSPHATASES IN THE MIDGUT OF THE SILKWORM, BOMBYX MORI.

H Akai
J Insect Physiol 15(9):1623-1628 REF
Sep 1969 421 J825
Bombyx mori, Cytology, Electron microscopy, Enzymes, Gastrointestinal system, Insect biochemistry, Phosphatases.

11775-69
ON PHOTORECEPTIVE AND PHOTOKINETIC ACTIVITY OF WINGS IN INSECTS. (RUS)

N K Alexeyev
Zhur Obshch Biol 30(3, MAY-JUN):292-303 REF
Jun 1969 442.8 Z6
Insect physiology, Light, Nervous system, Photosensitization, Wings (insects). English abstract.

11776-69
A STUDY OF THE EUGREGARINES OF THE GRASS-GRUB (LARVA OF COSTELYTRA ZEALANDICA (WHITE), MELOLONTHINAE), WITH A DESCRIPTION OF THREE NEW SPECIES.

F R Allison
Parasitology 59(3):663-682 REF
Aug 1969 448.8 P21
Biology, Costelytra zealandica, Gastrointestinal system, Parasitism, Protozoa, Scarabaeidae, Taxonomy.

11777-69
EFFECT OF INSECTICIDES, ACARICIDES AND FUNGICIDES ON MORMONIELLA VITRIPENNIS WALKER (HYMENOPTERA PTEROMALIDAE).

G W Ankersmit J T Locher H H W Velthuis K W R Zwart
Entomophaga 7(3):251-255
1962 421 EN835

Acaricides, Experimental insects, Fungicides, Insecticides, Integrated control (pests), Nasonia vitripennis, Pteromalidae, Resistance. German summary. influence of various pesticides is evaluated.

11778-69
ARTIFICIAL PARTHENOGENESIS AND EXPERIMENTAL POLYPOIDY IN SILKWORM.

B L Astaurov
J Sericult Sci Jap 36(4):277-285
Aug 1967 425.9 SE6
Bombyx, Chemical reactions, Chromosomes, Cytogenetics, Insect eggs, Insect genetics, Insect physiology, Larvae, Parthenogenesis, Polyploidy, Sex ratios, Temperature. Japanese summary.

11779-69
APPLICATION OF X-RADIOGRAPHY TO THE ESTIMATION OF LARVAL SIZE IN ANOBIUM PUNCTATUM (DEG.).

J M Baker
Holz Organ 1:383-390
1966 QK604.H6
Anobium punctatum, Insect nutrition, Insect physiology, Larvae, Radiography, Wood, X-rays. German and French summaries.

11780-69
OVIPOSITION OF AEGYPTI L. ON A DRY SURFACE AND HYGRORECEPTORS.

M Bar-Zeev

Nature 213(5077):737-738
18 Feb 1967 472 N21
Aedes aegypti, Anopheles, Culex, Humidity, Insect cultures, Insect eggs, Insect physiology, Oviposition.

11781-69
MOVEMENT AND OVIPOSITION OF WHEAT BULB FLIES.

R Bardner J R Loftly P Huston
Plant Pathol 17(3):97-103
Sep 1968 464.8 P692
Hylemya coarctata, Insect behavior, Insect dissemination, Insect eggs, Insect traps, Oviposition. Research, Wheat.

11782-69
NO FRONTIER IN THE FIGHT AGAINST THE DESERT LOCUST.

S Baron
FAO Rev Ceres 1(5, SEP-OCT):32-35 MAP
1968 TX341.F63
Acrididae, Crop losses, Insect control, Insect pests, Schistocerca gregaria.

11783-69
INFLUENCES OF PHYSICAL FACTORS ON TERMITES. (GE)

G Becker
Holz Organ 1:415-425 REF
1966 QK604.H6
Cryptoterms, Environment, Insect behavior, Kalotermitidae, Termites, Wood. English and French summaries.

11784-69
THE SUGAR PINE CONE BEETLE.

W D Bedard
U S Forest Serv Forest Pest Leaflet 112:6P MAP
Jul 1968 A423.9 F764
Biological control (insects), Chemical control (insects), Conophthorus lambertiana, Crop losses, Insect biology, Insect morphology, Insect pests, Pinus lambertiana, Plant protection.

11785-69
SOME REMARKS ON THE PARASITISM OF INSECTS. (PO)

M Beiger
Przegł Zool 13(1):33-37
1969 410 P95
Biological control, Insect adaptation, Insect biology, Insect morphology, Insects, Larvae, Parasitism. English abstract.

11786-69
OBSERVATIONS WITH THE ELECTRON MICROSCOPE ON THE DEVELOPMENT OF THE VIRUS OF MALADIE DE FUSEAUX OF COLEOPTERA. MELOLONTHA MELOLONTHA L. (FR)

M Bergoin G Devauchelle C Vago
Acad Sci Compt Rend Ser D Sci Nat 267(3, 2ND SEMESTER):382-385 REF
15 Jul 1968 505 P21
Electron microscopy, Insect physiology, Melolontha melolontha, Virus diseases (insects).

11787-69
REACTIONS OF BIOINDICATORS TO HAEMOLYMPH AND EXCRETA OF COLORADO BEETLE LARVAE--LEPTINOTARSA DECEMLINEATA SAY (COL. CHRYSOMELIDAE) TREATED WITH PREPARATION DIELDRIN. (POL.)

A Blazejewska
Pol Pismo Entomol 37(3):507-515
30 Oct 1967 421 P76
Chlorinated hydrocarbons, Dieldrin, Drosophila melanogaster, Excreta, Haemolymph, Insect biochemistry, Leptinotarsa decemlineata, Toxicology. English summary.

11788-69
ASPECTS OF THE HABITS AND NUTRITION OF THE ANOBIIDAE WITH SPECIAL REFERENCE TO ANOBIUM PUNCTATUM.

J D Bletchly
Holz Organ 1:371-381 REF
1966 QK604.H6

11789-69

Anobiidae, *Anobium punctatum*, Insect behavior, Insect nutrition, Wood. German and French summaries.

11789-69

PROTECTION OF ANT HILLS OF FORMICA RUFA L. (PO)

J Bobinski

Przegl Zool 13(1):42-46 REF

1969 410 P95

Beneficial insects, Biological control (insects), *Formica rufa*, Insect behavior. English abstract

11790-69

NOTES ON PARASITES ATTACKING THE YELLOW-STRIPED ARMYWORM IN OKLAHOMA.

D G Bottrell

Entomol Soc Amer Ann 62(1):250-252

15 Jan 1969 420 EN82

Host plants, Insect behavior, Insect ecology, Insect rearing, Larvae, Noctuidae, Parasitic insects, *Prodenia ornithogalli*, Zoogeography. The author lists parasitic species reared from the yellow striped armyworm and its host plant and locality.

11791-69

DEVELOPMENT OF A CHEMICALLY DEFINED DIET FOR ADULTS OF THE APPLE MAGGOT BASED ON AMINO ACID ANALYSIS OF HONEYDEW.

G M Boush R J Baerwald S Miyazaki

Entomol Soc Amer Ann 62(1):19-21 REF

15 Jan 1969 420 EN82

Amides, Amino acids, *Aphis pomi*, Apples, Biochemistry, Honeydew, Insect nutrition, Quantitative analysis, *Rhagoletis pomonella*.

11792-69

CONTROL OF THE CIRCADIAN RHYTHM OF ACTIVITY IN THE COCKROACH. III. A POSSIBLE ROLE OF THE BLOOD-ELECTROLYTES.

J Brady

J Exp Biol 49(1):39-47 REF

Aug 1968 442.8 B77

Blood composition, Diurnal rhythm, Electrolytes, Insect biology, *Periplaneta americana*.

11793-69

PERMEABILITY TO WATER OF THE SHELL OF THE EGG OF LOCUSTA MIGRATORIA MIGRATORIOIDES, WITH OBSERVATIONS ON THE EGG OF TELEOGRYLLUS COMMODUS.

T O Browning

J Exp Biol 51(1):99-105

Aug 1969 442.8 B77

Insect eggs, Insect physiology, *Locusta migratoria migratorioides*, Permeability, *Teleogryllus commodus*, Water.

11794-69

THE COMMON SHREW (SOXES ARANEUS) AS A PREDATOR OF THE WINTER MOTH (OPEROPHTERA BRUMATA) NEAR OXFORD, ENGLAND.

C H Buckner

Can Entomol 101(4):370-375 REF

Apr 1969 421 C16

Insectivora, Natural control (insects), *Operophtera brumata*.

11795-69

IMMATURE STAGES OF AUSTRALIAN ANTHOPHORINAE (HYMENOPTERA: APOIDEA).

J Cardale

Entomol Soc Queensland J 7(1):35-41 REF

Jun 1968 420 EN823

Anthophorinae, Apidae, Insect behavior, Insect morphology, Larvae, Metamorphosis, Pupae, Zoogeography.

11796-69

PARASITES AND OTHER ORGANISMS ASSOCIATED WITH NESTS OF AMEGILLA FRIESE (HYMENOPTERA: ANTHOPHORINAE).

J Cardale

Entomol Soc Queensland J 7(1):29-34 REF

Jun 1968 420 EN823

Anthophora, Apidac, Entomogenous fungi, Insect nests, Parasitic insects, Zoogeography.

The parasites and other organisms associated with the nests of *Amegilla friese* are *Thyreus* spp., *Mitogamma* sp., *Zonitis* sp., *Pyemotes ventricosus*, *Trogoderma apicenae*, and *Lasioderma serricorne*.

11797-69

AN ULTRASTRUCTURAL ANALYSIS OF MICROSMAL PREPARATIONS FROM MUSCA DOMESTICA AND PRODENIA ERIDANIA.

J D Cassidy E Smith E Hodgson

J Insect Physiol 15(9):1573-1578 REF

Sep 1969 421 J825

Cytology, Microscopy, Microsomes, *Musca domestica*, *Prodenia eridania*, Spectrophotometry.

11798-69

ON THE ECOLOGY OF THE FAUNA OF STONES IN THE CURRENT IN A SOUTH AFRICAN RIVER SUPPORTING A VERY LARGE SIMULIUM (DIPTERA) POPULATION.

F M Chutter

J Appl Ecol 5(3):531-561 MAP REF

Dec 1968 410 J828

Aquatic insects, Environment, Insect ecology, Insect populations, Sampling (statistics), Simuliidae.

11799-69

BIOLOGICAL CONTROL OF THE EGYPTIAN ALFALFA WEEVIL IN CALIFORNIA AND ARIZONA.

D W Clancy

J Econ Entomol 62(1):209-214 REF

17 Feb 1969 421 J822

Bathyplectes anurus, *Bathyplectes curculionis*, Biological control (insects), *Dibrachoides druso*, *Hypera brunneipennis*, *Hypera postica*, *Microctonus aethiops*, Parasitism, *Tetrastichus incertus*.

11800-69

EFFECTS OF LIGHT: DARK CYCLES ON DEVELOPMENT IN DROSOPHILA MELANOGASTER.

D L Clayton

Diss Abstr Sect B 29(7):2676B

Jan 1969 Z5055.U49D53

Diurnal rhythm, *Drosophila melanogaster*, Insect eggs, Insect physiology, Light, Ovulation.

11801-69

COMPOSITION OF THE NEUTRAL LIPIDS FROM TERMITE QUEENS.

S H W Cmelik

J Insect Physiol 15(9):1481-1487 REF

Sep 1969 421 J825

Chromatography, Hemolymph, Insect biochemistry, Insect physiology, Lipids, Termites.

11802-69

BIOLOGY OF BRACON KIRKPATRICKI AND FIELD RELEASES OF THE PARASITE FOR CONTROL OF THE BOLL WEEVIL.

W H Cross W L McGovern H C Mitchell

J Econ Entomol 62(2):448-454 REF

15 Apr 1969 421 J822

Anthonomus grandis, Biological control (insects), Braconidae, Insect biology, Insect rearing, Larvae, Parasitic insects.

11803-69

IN VITRO FATTY ACID OXIDATION BY DEVELOPING TISSUES IN THE ADULT OF THE BLOWFLY, FLUCILIA.

M A D'Costa L M Birt

J Insect Physiol 15(9):1629-1645 REF

Sep 1969 421 J825

Fatty acids, Insect biochemistry, Insect physiology, Oxidation, *Phaenicia cuprina*, Respiration.

11804-69

LARVAL MOULTING CYCLE AND DNA SYNTHESIS IN DROSOPHILA HYDEI SALIVARY GLANDS.

G A Danieli E Rodino

Nature 213(5074):424-425 REF

28 Jan 1967 472 N21

Deoxyribonucleic acid, *Drosophila hydei*, Insect physiology, Larvae, Metamorphosis, Molting (insects), Salivary glands (insects).

11805-69

CONTRIBUTION TO THE MORPHOLOGY AND PHYLOGENY OF THE REDUVIOIDEA. PART IV. THE HARPACTOROID COMPLEX.

N T Davis

Entomol Soc Amer Ann 62(1):74-94 REF

15 Jan 1969 420 EN82

Heteroptera, Insect anatomy, Insect morphology, Insect taxonomy, Reduviidae.

11806-69

TWO ACMAEODERA PARASITES OF ACACIA IN MAURITANIA AND IN THE SAHARA (COL. BUPRESTIDAE). (FR)

A Descarpentries J Mateu

Inst Fondamental Afr Noire Bull Ser A Sci Natur

(SER A)19(2):645-648

Apr 1967 515 D14

Acacia, Acmaeodera, Buprestidae, Insect anatomy, Insect identification, Insect pests, Insect taxonomy, Parasitism, Zoogeography.

11807-69

SEX PHEROMONE OF THE QUEEN BUTTERFLY: BIOLOGY.

T E Dliske T Eisner

Science 164(3384):1170-1172 REF

06 Jun 1969 470 SCI2

Danaidae, *Danaus gilippus berenice*, Insect behavior, Insect biology, Pheromone, Secretion, Sex behavior.

11808-69

ECOLOGY OF THE AMERICAN DOG TICK, DERMACENTOR VARIABILIS (SAY), IN NOVA SCOTIA.

D G Dodds A M Martell R E Yescott

Can J Zool 47(2):171-181 MAP REF

Mar 1969 470 C16D

Dermacentor variabilis, Insect ecology, Ixodidae.

The most important hosts for both immature stages and adult stages are given. The hosts are: meadow vole, deer mouse, southern bog lemming, meadow jumping mouse, porcupine, raccoon, and black bear.

11809-69

PARASITES FOR CONTROL OF GRAPE LEAF FOLDER.

R L Douth J Nakata F E Skinner

Calif Agr 23(4):4

Apr 1969 100 C12CAG

Biological control (insects), *Desmia funeralis*, Grapes, Parasitism.

11810-69

THE COCKROACH LEARNS TO AVOID INSECTICIDES.

W Ebeling D A Reiersen

Calif Agr 23(2):12-15

Feb 1969 100 C12CAG

Blattidae, Boric acid, Electric shock, Insecticides.

11811-69

DEVELOPMENT AND HISTOLYSIS OF THE INDIRECT FLIGHT MUSCLES IN DYSDERCUS INTERMEDIUS.

F J Edwards

J Insect Physiol 15(9):1591-1599 REF

Sep 1969 421 J825

Dysdercus intermedius, Histochemistry, Insect physiology, Muscles.

11812-69

MOLECULAR ORGANIZATION IN THE POLYHEDRA OF PORTHETRIA DISPAR NUCLEAR-POLYHEDROSIS.

A Engstrom R Kilkson

Exp Cell Res 53(1):305-310

Oct 1968 442.8 EX7

Electron microscopy, Insect biology, Insect diseases, *Lymantriidae*, Polyhedra, Polyhedroses, *Porthetria dispar*, Virology.

- 11813-69**
A CONTRIBUTION TO THE EVIDENCE OF THE INFORMATIVE ROLE OF THE SOUND COMPONENT IN MOBILIZATIVE BEE DANCES. (RUS)
E K Eskov
Zhur Obshch Biol 30(3,MAY-JUN):317-323 REF
Jun 1969 442.8 Z6
Apiculture, Apis mellifera, Insect behavior, Sound waves.
- 11814-69**
LIQUID NITROGEN FIXATION: A NEW METHOD FOR HEMOCYTE COUNTS AND MITOTIC INDICES IN TISSUE SECTIONS.
D Feir G M O'Connor
Entomol Soc Amer Ann 62(1):246-247
15 Jan 1969 420 EN82
Blood cells, Hematology, Insect physiology, Methodology, Mitosis, Nitrogen-fixation, *Oncopeltus fasciatus*, Tissues.
- 11815-69**
HORMONE-MEDIATED NUTRITIONAL CONTROL OF SEXUAL BEHAVIOR IN MALE DUNG FLIES.
W Foster
Science 158(3808):1596-1597
22 Dec 1967 470 SC12
Anthomyiidae, *Corpora allata*, Emergence, Hormones, Insect physiology, *Musca domestica*, Parasitic insects, Predaceous insects, Reproductive organs, *Scatophaga stercoraria*, Sex behavior.
- 11816-69**
MASONAPHIS MAXIMA (MASON) (HOMOPTERA: APHIDIDAE), AN APHID ON THIMBLEBERRY WITH AN UNUSUAL LIFE HISTORY.
B D Frazer A R Forbes
Entomol Soc Brit Columbia Proc 65:36-39 REF
01 Aug 1968 420 B77
Aphididae, Fruit, Growth factors, Insect biology, Insect eggs, Insect physiology, Insect vectors, *Masonaphis maxima*, Ring spot, *Rubus parviflorus*, Temperature, Virus diseases (plants), Zoogeography.
- 11817-69**
TRIBUTYL TIN MOLLUSCICIDES. PATENT 3,439,098.
A H Freiberg
Us Patent Office Offic Gaz 861(3):936
15 Apr 1969 156.65 OF2
Molluscicides, Mollusks, Patents, Snails, Tin compounds.
- 11818-69**
EFFECTS OF ROAD DUST ON SPIDER MITES.
C Fukushima E M Stafford
Calif Agr 23(4):10
Apr 1969 100 C12CAG
Dust (soil), Leaves, Tetranychidae.
- 11819-69**
RESEARCH ON THE ECOLOGICAL SYSTEM OF THE FOREST. SERIES C: OAKS OF MESNIL-EGLISE (FERAGE) WITH GALEOBLOLON AND OXALIS. CONTRIBUTION NO. 5. INSECTS COLLECTED IN WATER JARS. (FR)
C Gaspar S Krzelj C Verstraeten F Wolf
Bull Recherch Agron Gembloux (N s)3(1):83-100
1968 S5.B8
Forests, Galeoblolon, Insect ecology, Insect traps, Oxalis, *Quercus*, Tables (data).
- 11820-69**
SOLDIER-REPRODUCTIVE INTERCASTES IN A SPECIES OF TUMULITERMES (ISOPTERA: TERMITIDAE).
F J Gay
Entomol Soc Queensland J 7(1):83-84
Jun 1968 420 EN823
Insect abnormalities, Insect morphology, Insect physiology, Social insects, Termites, *Tumulitermes*.
- 11821-69**
THE BIOECOLOGY OF CORTHYLUS COLUMBIANUS HOPKINS.
R L Giese
Holz Organ 1:361-370
1966 QK604.H6
Climate, *Corthylus columbianus*, Hardwoods, Insect biology, Insect ecology, Insect pests, *Pichia*, Population, Sap stain, Water, Zoogeography. German and French summaries.
- 11822-69**
SOME OBSERVATIONS ON THE MALPIGHIAN TUBULES AND OVARIOLES IN MYRMECIA DISPAR (CLARK) (HYMENOPTERA: FORMICIDAE).
B Gray K P Lamb
Entomol Soc Queensland J 7(1):80-81
Jun 1968 420 EN823
Formicidae, Insect physiology, Malpighian tubes, *Myrmecia dispar*, Ovarioles.
- 11823-69**
HISTOPATHOLOGY OF LECITHODENDRIID TREMATODE INFECTIONS IN STONEFLY NAIADS.
J E Hall J E Weaver B Gomez-Miranda
J Invertebrate Pathol 13(1):91-113 REF
Jan 1969 421 J826
Acroneturia carolinensis, *Cercaria stenodorya*, *Cercaria tremaglandis*, Histopathology, Insect diseases, Insect physiology, *Isogenus hastatus*, Parasitism, Perilidae, Trematoda.
- 11824-69**
HOUR-GLASS DUSK AND RHYTHMIC DAWN TIMERS CONTROL DIAPAUSE IN THE CODLING MOTH.
W M Hamner
J Insect Physiol 15(9):1499-1504 REF
Sep 1969 421 J825
Carpocapsa pomonella, Insect behavior, Photoperiodism.
- 11825-69**
A REVIEW OF THE USE OF INSECTICIDES ON THE MAIN AGRICULTURAL CROPS OF THE WORLD-2. SECTION 2: DECIDUOUS FRUIT TREES.
A D Hanna
World Rev Pest Contr 7(4,WINTER):184-203
REF
1968 79.8 W89
Chemical control (insects), Fruit trees, Insect pests, Insecticides, Reviews, Trees. Many insecticides and countries are discussed.
- 11826-69**
THE ENERGY-DEPENDENT ACCUMULATION OF PHOSPHATE BY BLOWFLY MITOCHONDRIA AND ITS EFFECT ON THE RATE OF PYRUVATE OXIDATION.
R G Hansford J B Chappell
Biochem Biophys Res Commun 30(6):643-27
Mar 1968 442.8 B5236
Biochemistry, *Calliphora vomitoria*, Chemical reactions, Energy, Mitochondria, Oxidation-reduction potential, Phosphates, Pyruvic acid.
- 11827-69**
GROUND BEETLES OF THE GENUS LEBIA LATREILLE IN ARKANSAS (COLEOPTERA: CARABIDAE): ECOLOGY AND GEOGRAPHICAL DISTRIBUTION.
R Hemenway W H Whitcomb
Ark Acad Sci Proc 21:15-20 REF
1967 500 AR42
Carabidae, Insect ecology, Insect pests, Insect taxonomy, *Lebia*, Predaceous insects, Zoogeography.
- 11828-69**
FIELD INVESTIGATIONS PRELIMINARY TO LIFE HISTORY STUDIES ON THE LITHOSINAMIONA-CASTA COMPLEX OF THE GENUS ANNAPHILA (NOCTUIDAE).
C Henne
J Res Lepidoptera 6(4):249-256
Dec 1967 421 J827
Annaphila, Field studies, Insect ecology, Larvae, Noctuidae, Oviposition.
- 11829-69**
GROWTH PATTERN OF LEISHMANIA IN PHLEBOTOMUS SANDFLIES.
M Hertig P T Johnson E McConnell
Science 165(3900):1379-1380 REF
26 Sep 1969 470 SC12
Electron microscopy, Insect histology, Insect physiology, *Leishmania*, *Phlebotomus*.
- 11830-69**
RESPIRATORY PHYSIOLOGY OF THE LARVA OF DONACIA SIMPLEX, A ROOT-PIERCING BEETLE.
D F Houlihan
J Insect Physiol 15(9):1517-1536 REF
Sep 1969 421 J825
Chrysomelidae, Insect biochemistry, Insect metabolism, Insect physiology, Insect respiration, Larvae, Oxygen.
- 11831-69**
CONTRIBUTION TO THE BIONOMICS OF COPTOTERMES FORMOSANUS, ITS LABORATORY BREEDING AND APPLICABILITY FOR TESTING THE RESISTANCE OF MATERIALS. (GE)
I Hrdy
Holz Organ 1:427-436 REF
1966 QK604.H6
Coptotermes formosanus, Insect biology, Insect ecology, Insect physiology, Insect rearing, Laboratories. English and French summaries.
- 11832-69**
THE ACTIVITY OF SPERMATOOZOA OF PERIPLANETA.
M Hughes K G Davey
J Insect Physiol 15(9):1607-1616 REF
Sep 1969 421 J825
Copulation, Electron microscopy, Insect behavior, Insect physiology, *Periplaneta americana*, Spermatozoa.
- 11833-69**
INFLUENCE OF METEOROLOGY UPON THE NUTRITION OF LADYBUGS (COCCINELLIDAE). (PO)
Przegl Zool 113(2):188-191
1969 410 P95
Aphididae, Coccinellidae, Insect nutrition, Meteorology, Predaceous insects. English abstract.
- 11834-69**
BIOLOGICAL OBSERVATIONS ON LARRA AMPLIPENNIS (SMITH) IN KAGAWA, JAPAN (HYMENOPTERA: SPHECIDAE).
K Iwata M Tanihata
Shikoku Entomol Soc Trans 7(4):101-104
May 1963 420 SH6
Entomology, Insect behavior, Insect biology, Insect histology, Insect morphology, Sphecidae.
- 11835-69**
ALLELOPATHY BY MYRMECOPHYTES: THE ANT AZTECA AS AN ALLELOPATHIC AGENT OF CECROPIA.
D H Jansen
Ecology 50(1,WINTER):147-153 REF
1969 410 EC7
Allelopathy, *Azteca*, Beneficial insects, *Cecropia*, Chemicals, Formicidae, Insect behavior, Myrmecophilous insects, Plant protective devices.
- 11836-69**
BIOLOGICAL STUDIES OF SCYTHROPUS CALIFORNICUS ON MONTEREY PINE IN NORTHERN CALIFORNIA.
G L Jensen C S Koehler
Entomol Soc Amer Ann 62(1):117-120
15 Jan 1969 420 EN82
Curculionidae, Insect biology, Insect ecology, Insect eggs, Insect physiology, *Pinus radiata*, *Scythropus californicus*, Zoogeography.

11837-69

11837-69

MICROBIAL INSECTICIDES FOR CONTROL OF GRAPE LEAF FOLDER.

F L Jenson

Calif Agr 23(4):5-6

Apr 1969 100 C12CAG

Bacillus thuringiensis, Carbaryl, Desmia funeralis, Erythroneura comes, Insecticides, Tetranychidae.

11838-69

SYMBIOSIS OF THE ANOBIIDAE WITH YEASTLIKE FUNGI. (GE)

G Jurzitza

Holz Organ 1:531-543 REF

1966 QK604.H6

Anobiidae, Fungi, Insect physiology, Lasioderma sericorne, Stegobium paniceum, Symbiosis, Wood, Yeasts. English and French summaries.

11839-69

FACET-INHIBITORY EFFECT OF CERTAIN CHEMICALS ON THE COMPOUND EYES OF DROSOPHILA MELANOGASTER.

S Kaji Y Hirose

Proc Jap Acad 44(5):369-373 REF

May 1968 513 T576

Chemicals, Deoxyribonucleic acid, Drosophila melanogaster, Eyes, Inhibitors, Insect metabolism, Lactamides, Mechlorethamine oxide hydrochloride, Mitomycin C, Synthesis.

11840-69

ARTIFICIAL FEEDSTUFF FOR SILKWORM LARVAE CONTAINING A HYDROXYBENZALDEHYDE COMPOUND. PATENT 3,425,838.

M Kamada T Okauchi

Us Patent Office Offic Gaz 859(1):230

04 Feb 1969 156.65 OF2

Biochemistry, Bombyx mori, Feed, Hydroxybenzaldehyde, p-, Insect physiology, Larvae, Patents.

11841-69

ACARINE MOLTING-THE MIGRATION OF HEMOCYTES THROUGH THE EPIDERMIS OF CALOGLYPHUS BERLESEI.

K Kanungo

Entomol Soc Amer Ann 62(1):155-157

15 Jan 1969 420 EN82

Blood cells, Caloglyphus berlesei, Epithelium, Hematology, Insect histology, Insect physiology, Mites, Molting (insects), Phagocytosis, Secretion.

11842-69

THE LIFE HISTORY AND FEEDING HABITS OF OPATROIDES PUNCTULATUS IN TIBERIAS, ISRAEL.

T Kaufmann

Entomol Soc Amer Ann 62(1):236-239

15 Jan 1969 420 EN82

Feeding, Grain, Insect behavior, Insect biology, Insect morphology, Insect nutrition, Insect physiology, Meat, Opatroides punctulatus, Tenebrionidae, Zoogeography.

11843-69

EFFECTS OF ENVIRONMENTAL FACTORS ON THE MARKINGS OF PIERIS RAPAE (PIERIDAE).

J M Kolyer

Lepidopterists Soc J 23(2):77-94 REF

29 May 1969 421 L554

Color, Humidity, Pieris rapae, Temperature.

11844-69

ACTIVITY OF FOSFOTON AND METATHION AGAINST ACYRTHOSIPHON ONOBRYCHIS BOYER. (CZ)

J Kralovic S Gaher

Agrochemia 8(7):206-208

1968 385 AG88

Acyrtosiphon pisum, Aphididae, Chemical control (insects), Dimethyl O-(4-nitro-m-tolyl) phosphorothioate, O,O-, Ecology, Insect pests, Insecticides, Malathion, Organophosphorus compounds. English, Russian, and German summaries.

11845-69

ESTIMATION OF A TOTAL BACTERIAL NUMBER IN TERMITE INTESTINES. (RUS)

N A Krassilnikov Sh I Satdykov

Mikrobiologiya 38(2):346-350

1969 448.3 M582

Bacteria, Gastrointestinal system, Insect physiology, Methodology, Surveys, Termites. English abstract.

11846-69

SEROLOGICAL INVESTIGATIONS OF INSECT VIRUSES. I. COMPARISON OF THREE HIGHLY PURIFIED CYTOPLASMIC-POLYHEDROSIS VIRUSES.

J Krywienzyk Y Hayashi F T Bird

J Invertebrate Pathol 13(1):114-119

Jan 1969 421 J826

Antigens, Bombyx mori, Centrifugation, Electrophoresis, Insect diseases, Malacosoma disstria, Orgyia leucostigma, Polyhedroses, Serological tests, Virology.

11847-69

COMPARATIVE EFFECTS OF CHEMOSTERILANTS ON SPERMATOGENIC STAGES IN THE HOUSE FLY. I. INDUCTION OF DOMINANT LETHAL MUTATIONS IN MATURE SPERM AND GONIAL CELL DEATH.

L E LaChance M Degrugillier A P Leverich

Mutation Res 7(1 JAN-FEB):63-74 REF

1969 443.8 M98

Chemical control (insects), Chemosterilants, Dosage, Insect mutation, Lethal factor, Musca domestica, Spermatozoa. 12 chemosterilants were tested.

11848-69

MIGRATIONS OF HIPPELATES COLLUSOR LARVAE FROM MOISTURE AND TROPIC STIMULI AND THEIR ENCOUNTER BY TRYBLOGRAPHA PARA-.

E F Legner G S Olton

Entomol Soc Amer Ann 62(1):136-141

15 Jan 1969 420 EN82

Chloropidae, Cynipidae, Experimental insects, Food supply, Hippelates collusor, Humidity, Insect migration, Insect physiology, Larvae, Mortality, Parasitic insects, Soil analysis, Stimuli, Trybliographa, Zoogeography.

11849-69

PROGRAMMED CELL DEATH. ACTIVATION OF LYSIS BY A MECHANISM INVOLVING THE SYNTHESIS OF PROTEIN.

R A Lockshin

J Insect Physiol 15(9):1505-1516 REF

Sep 1969 421 J825

Antheraea polyphemus, Antibiotics, Endocrine glands, Insect biochemistry, Insect physiology, Lysis, Muscles, Nervous system, Proteins, Synthesis.

11850-69

THE CONTROL OF WATER LOSS IN LOCUSTA MIGRATORIA MAYS. INFLUENCE OF HIGH-TEMPERATURE TREATMENT BEFORE SPIRACLES.

J P Loveridge

J Exp Biol 49(1):15-29 REF

Aug 1968 442.8 B77

Chromosomes, Insect biology, Insect respiration, Locusta migratoria migratorioides, Spiracles, Ventilation, Water.

11851-69

MIGRATORIOIDES R. AND F. I. CUTICULAR WATER LOSS. THE CONTROL OF WATER LOSS IN LOCUSTA MIGRATORIA.

J P Loveridge

J Exp Biol 49(1):1-13 REF

Aug 1968 442.8 B77

Cuticle, Insect biology, Insect temperature, Locusta migratoria migratorioides, Water.

11852-69

SUBTERRANEAN TERMITES AND FUNGAL-BACTERIAL RELATIONSHIPS.

A E Lund

Holz Organ 1:497-502 REF

1966 QK604.H6

Bacteria, Fungi, Insect behavior, Insect diseases, Termites, Wood, Wood destroying fungi. German and French summaries.

11853-69

SPECTRAL SENSITIVITY OF SCORPION EYES AND THE POSSIBLE ROLE OF SHIELDING PIGMENT EFFECT.

L Machen

J Exp Biol 49(1):95-105

Aug 1968 442.8 B77

Color, Eyes, Insect biology, Pigments (insect), Scorpionida, Vision.

11854-69

APHIDIUS RUBIFOLII N. SP. (HYMENOPTERA: APHIDIIDAE), A PARASITOID OF MASONAPHIS MAXIMA FROM BRITISH COLUMBIA.

M Mackauer

Entomol Soc Brit Columbia Proc 65:34-35

01 Aug 1968 420 B77

Aphididae, Aphidius rubifolii, Braconidae, Insect anatomy, Insect identification, Insect morphology, Masonaphis maxima, Parasitic insects, Rubus parviflorus, Zoogeography.

11855-69

SECRETION BY THE MALPIGHIAN TUBULES OF RHODNIUS. THE MOVEMENTS OF IONS AND WATER.

S H P Madprell

J Exp Biol 51(1):71-97 REF

Aug 1969 442.8 B77

Biological transport, Insect biochemistry, Ions, Malpighian tubes, Rhodnius prolixus, Secretions, Water.

11856-69

THE INFLUENCE OF ABIOTIC FACTORS ON THE DEVELOPMENT CYCLE OF THE GRAPE PHYLLXERA (DACTYLOSPHAERA VITIFOLII SCHIM.) AND ON A POPULATION OF JASSIDS (HOMOPTERA, AUCHENORRHYNCHA, JASSIDAE). (FR)

P L Maillet

Acta Ent Bohemoslov 59(2):101-110

20 Apr 1962 420 C33

Ecology, Grape vineyards, Insect biology, Insect pests, Insect physiology, Phylloxera vitifoliae, Phylloxeridae, Population, Rainfall, Temperature. A table lists 39 species of Jassidae.

11857-69

PANONYCHUS ELONGATUS MANSON (ACARINA: TETRANYCHIDAE)-A DESCRIPTION AND COMPARISON WITH P. CITRI (MCG.).

D C M Manson

Entomol Soc Queensland J 7(1):6-10

Jun 1968 420 EN823

Australia, Granadilla, Insect identification, Insect morphology, Insect pests, Mites, Panonychus citri, Panonychus elongatus, Zoogeography.

11858-69

SOME RECORDS FOR IXODIDAE OF NOVA SCOTIA.

A M Martell R E Yescott D G Dodds

Can J Zool 47(2):183-184

Mar 1969 470 C16D

Dermacentor variabilis, Haemaphysalis leporispalustris, Ixodes angustus, Ixodes cookei, Ixodes muris, Ixodides, Zoogeography.

11859-69

INCORPORATION OF GLUCOSE-U-C14 INTO LIPIDS OF THE BLOWFLY DURING FLIGHT.

C F Mather W J Yurkiewicz

J Insect Physiol 15(9):1567-1571 REF

Sep 1969 421 J825

Carbon-14, Glucose, Insect biochemistry, Insect flight, Lipids, Phaenicia sericata, Radioactive tracers.

- 11860-69**
THE DEVELOPMENT OF PENTAC RESISTANCE IN AN OUTCROSSING SWARM OF THE TWO-SPOTTED SPIDER MITE.
 W D McEnroe A Lakocy
J Econ Entomol 62(2):283-286 REF
 15 Apr 1969 421 J822
 Chemical control (insects), Chlorinated hydrocarbons, Greenhouse culture, Insect behavior, Insect genetics, Insecticide resistant insects, Methodology, Tetranychidae.
- 11861-69**
SEX PHEROMONE OF THE QUEEN BUTTERFLY: CHEMISTRY.
 J Meinwald Y C Meinwald P H Mazzocchi
Science 164(3384):1174-1175
 06 Jun 1969 470 SCI2
 Alcohols, Danaidae, *Danaus gilippus berenice*, Insect biochemistry, Ketones, Pheromone, Secretions, Sex behavior, Terpenoids.
- 11862-69**
EXPERIMENTS OF IN VITRO CULTURES OF LARVAL EPIDERM OF DESERT LOCUST (SCHISTOCERCA GREGARIA FORSK).
 A Miciarelli G Sbrenna G Colombo
Experientia 23(1):64-66
 15 Jan 1967 475 EX7
 Insect physiology, Larvae, *Schistocerca gregaria*, Synthesis, Tissue culture.
- 11863-69**
REPORT OF A GLUCOSE DIMINISHING PROCESS IN THE GUT OF THE COCKROACH, BLABERUS CRANIIFER BUDWEISTER.
 W W D Modder
Ceylon J Sci Biol Sci 7(1/2):32/36 REF
 Oct 1967 475 C33
Blaberus craniifer, Blattidae, Fluorides, Glucose, Glucose oxidase, Glycolysis, Hydrogen-ion concentration, Intestines.
- 11864-69**
THE OCCURRENCE OF HOUSE CRICKETS (ACHETA DOMESTICUS (LINNAEUS, 1758)) ON MOUNTAIN SLOPES. (GE)
 U Moritz
Gesundheits Desinfek 60(4):54-55
 Apr 1968 449.8 Z36P
Acheta domesticus, Gregarina, Gryllidae, Insect diseases, Insect ecology, Insect flight, Insect physiology, Parasitism, Temperature, Zoogeography.
- 11865-69**
FUNCTION OF THE BRAIN THROUGH NERVE COMMISSURES ON THE SUBOESOPHAGEAL GANGLION IN BOMBYX MORJ L.
 S Morohoshi T Oshiki
Nature 213(5077):737
 18 Feb 1967 472 N21
Bombyx mori, Brain, Central nervous system, Ganglion cells, Hormones, Insect genetics, Insect physiology.
- 11866-69**
THE SYNTHESIS IN VITRO OF THE PROTEIN CALLIPHORIN BY FAT BODY FROM THE LARVA OF THE BLOWFLY, CALLIPHORA ERYTHROCEPHALA.
 E A Munn G M Price G D Greville
J Insect Physiol 15(9):1601-1605
 Sep 1969 421 J825
Calliphora vicina, Fat body, Insect biochemistry, Larvae, Proteins, Synthesis.
- 11867-69**
LOCUSTS MARCH ON 40 COUNTRIES. MILIONS EMERGE FROM DESERT SANDS.
 T A Nevin
Rhodesian Farmer 39(6):12-13
 21 Jun 1968 24 R347
 Aerial spraying, Chemical control (insects), Insect outbreaks, Insect pests, Insecticides, Pesticides, *Schistocerca gregaria*, Zoogeography.
- 11868-69**
150 YEARS OF CROP PEST CONTROL.
 G Ordish
World Rev Pest Contr 7(4,WINTER):204-213 REF
 1968 79.8 W89
 Biological control (pests), Chemical control (pests), Crops, Cultural control (insects), History, Insect pests, Methodology, Pest control.
- 11869-69**
ORIENTATION AND BIORHYTHMS IN JUMPING SPIDERS (ARANEIDA: SALTICIDAE).
 G J Phanuel
Diss Abstr Sect B 29(3):1218B
 Sep 1968 Z5055.U49D53
 Diurnal rhythm, Insect histology, Light, Salticidae, Spiders, Temperature.
- 11870-69**
19. THYSANOPTERA (PHYSOPODA). (GE)
 H Priesner
Handbuch Zool 4(2)/19:32P REF
 Jul 1968 411 H19
 Insect anatomy, Insect ecology, Insect morphology, Insect physiology, Insect taxonomy, Thysanoptera, Zoogeography.
- 11871-69**
THE CLUSTER FLY.
 S Rachesky
Pest Contr 37(3):55
 Mar 1969 449.8 EX8
 Chemical control (insects), Chlorinated hydrocarbons, Insect pests, Insecticides, Organophosphorus compounds, *Pollenia rudis*, Psychodidae, Sanitation, Spraying. The following insecticides are mentioned: malathion, naled, ronnel, pyrethrum, lindane, dichlorvos and diazinon.
- 11872-69**
FIG WASPS: MECHANISM OF POLLEN TRANSFER.
 W B Ramirez
Science 163(3867):580-581
 07 Feb 1969 470 SCI2
 Agaonidae, Figs, Hymenoptera, Insect anatomy, Insect morphology, Insect physiology, Pollen, Pollination, Symbiosis. The genera discussed are: *Agaon*, *Allotriozoon*, *Blastophaga*, *Ceratosolen*, *Elisabethiella*, *Liporrhopalum*, *Pleistodontes*, and *Tetrapus*.
- 11873-69**
THE UTILIZATION OF AMINO ACIDS AND SUGARS BY TICK CELLS CULTIVATED IN VITRO.
 J Rehacek H W Brzostowski
J Insect Physiol 15(9):1683-1686
 Sep 1969 421 J825
 Amino acids, Insect biochemistry, Insect metabolism, Ixodidae, *Rhipicephalus sanguineus*, Sugars.
- 11874-69**
CALCIUM, POTASSIUM, AND SODIUM CONTENT OF FOREST FLOOR ARTHROPODS.
 D E Reichle M H Shanks D A Crossley
Entomol Soc Amer Ann 62(1):57-62 REF
 15 Jan 1969 420 EN82
 Arthropoda, Calcium, Diplopoda, Forest insects, Insect biochemistry, Insect ecology, Insect physiology, *Liriodendron tulipifera*, Potassium, Sodium, Temperature. The chemical composition of all forest floor Arthropoda is listed.
- 11875-69**
THE DRUMMING OF THE PLECOPTERA (INSECTA). (GE)
 R Rupprecht
Z Vergleichende Physiol 59(1):38-71 REF
 1968 444.8 Z3
 Capniidae, Dinocras, Insect behavior, Insect physiology, Perlidae, *Phalaris arundinacea*, Plecoptera, Stridulation, Vibration. English summary.
- 11876-69**
MOVEMENT OF POTASSIUM AND SODIUM ACROSS THE MIDGUT EPITHELIUM OF THE AMERICAN COCKROACH.
 J R Sauer R R Mills
J Insect Physiol 15(9):1489-1498 REF
 Sep 1969 421 J825
 Biological transport, Dinitrophenol, 2,4-, Gastrointestinal system, Insect biochemistry, *Periplaneta americana*, Potassium, Sodium, Spectrophotometry.
- 11877-69**
DEVELOPMENT OF FOLEYELLA PHILISTINAE SCHACHER AND KHALIL, 1967 (NEMATODA: FILARIOIDEA) IN CULEX PIPIENS MOLESTUS WITH NOTES ON PATHOLOGY IN THE ARTHROPOD.
 J F Schacher G M Khalil
J Parasitol 54(5):869-878 REF
 Oct 1968 448.8 J824
 Cells, *Culex pipiens molestus*, Fat body, Larvae, Morphology, Nematodes, Parasitism.
- 11878-69**
HAEMOLYMPH PROTEINS AND YOLK FORMATION IN THE COCKROACH, LEUCOPHAEA MADERAE.
 R Scheurer
J Insect Physiol 15(9):1673-1682 REF
 Sep 1969 421 J825
 Egg yolks, Electrophoresis, Hemolymph, Insect biochemistry, Insect eggs, *Leucophaea maderae*, Ovaries, Proteins.
- 11879-69**
HORMONALE REGULATION OF THE METAMORPHOSIS-NEW ASPECTS BASED ON INVESTIGATIONS IN FORMICA POLYCTENA FOERST. (HYM.). (GE)
 G H Schmidt
Acta Ent Bohemoslov 65(2):79-91 REF
 1968 420 C33
 Cells, Emergence, *Formica polyctena*, Hormones, Insect histology, Insect metabolism, Insect physiology, Metamorphosis, Organophosphorus compounds, Secretion. English and Czech summaries.
- 11880-69**
SEX PHEROMONE OF THE QUEEN BUTTERFLY: ELECTROANTENNOGRAM RESPONSES.
 D Schneider U Seibt
Science 164(3384):1173-1174 REF
 06 Jun 1969 470 SCI2
 Antennae, Danaidae, *Danaus gilippus berenice*, Insect behavior, Pheromone, Sense organs, Sex behavior, Stimuli.
- 11881-69**
AMINO-ACID RECEPTOR IN LARVAE OF PIERIS BRASSICAE (LEPIDOPTERA).
 L M Schoonhoven
Nature 221(5187):1268
 29 Mar 1969 472 N21
 Amino acids, Chemoreceptors, Glycosides, Insect physiology, Larvae, *Pieris brassicae*, Sucrose.
- 11882-69**
ELECTRON-MICROSCOPE STUDIES OF A GRANULOSIS VIRUS OF PYGAERA ANASTOMOSIS.
 C Sidor R Krstic
J Invertebrate Pathol 13(1):19-24
 Jan 1969 421 J826
 Electron microscopy, Granuloses, Insect diseases, Larvae, Notodontidae, *Pygaera anastomosis*, Virology.
- 11883-69**
MIMICRY OF HYMENOPTERA BY BEETLES WITH UNCONVENTIONAL FLIGHT.
 R E Silberglied T Eisner
Science 163(3866):486-488
 31 Jan 1969 470 SCI2

11884-69

Acmaeodera, Buprestidae, Hymenoptera, Insect flight, Insect physiology, Insect protective devices, Mimicry, Wings (insects).

11884-69

HOST TREES AND BREEDING SITES OF NATIVE NORTH AMERICAN PISSODES BARK WEEVILS, WITH A NOTE ON SYNONYMY.

S G Smith B A Sugden

Entomol Soc Amer Ann 62(1):146-148

15 Jan 1969 420 EN82

Abies, Curculionidae, Cytology, Forest insects, Insect breeding, Insect ecology, Insect identification, Larix, Picea, Pinus, Pissodes, Pissodes terminalis, Pseudotsuga, Tsuga, Zoogeography.

11885-69

FAILURE OF EFFECTIVE INSEMINATION OF YOUNG FEMALE AEDES AEGYPTI MOSQUITOES.

A Spielman M G Leahy V Skaff

J Insect Physiol 15(9):1471-1479 REF

Sep 1969 421 J825

Aedes aegypti, Insect behavior, Insect physiology, Insemination, Reproduction.

11886-69

NEWER INSECTICIDES FOR THE CONTROL OF GRAPE INSECT AND SPIDER MITE PESTS.

E M Stafford H Kido

Calif Agr 23(4):6-8

Apr 1969 100 C12CAG

Acaricides, Grapes, Insecticides, Mites, Tetranychidae.

11887-69

FURTHER STUDIES ON GRADIENT-DEPENDENT DIVERSIFICATION IN THE PUPAL CUTICLE OF GALLERIA MELLONELLA.

H Stumpf

J Exp Biol 49(1):49-59 REF

Aug 1968 442.8 B77

Cuticle, Galleria mellonella, Galleriidae, Insect biology, Pupae, Tissue grafting.

11888-69

THE INFLUENCE OF GAMMA-IRRADIATION UPON THE POPULATION DYNAMICS AND SEX RATIO IN MODEL POPULATIONS OF DROSOPHILA MELANOGASTER. (RUS)

A S Surabjan

Zhur Obshch Biol 30(3,MAY-JUN):374-376

Jun 1969 442.8 Z6

Drosophila melanogaster, Gamma rays, Models, Population. Russian and english abstracts

11889-69

AN INVESTIGATION OF HAEMOLYMPH PROTEIN ECONOMY DURING THE FIFTH INSTAR OF LOCUSTA MIGRATORIA MIGRATORIODES.

S S Tobe B G Loughton

J Insect Physiol 15(9):1659-1672 REF

Sep 1969 421 J825

Hemolymph, Insect biochemistry, Larvae, Locusta migratoria migratorioides, Proteins, Synthesis.

11890-69

A CRITICAL STUDY OF THE EVIDENCE FOR PERIPHERAL INHIBITORY AXONS IN INSECTS.

P N R Usherwood

J Exp Biol 49(1):201-222 REF

Aug 1968 442.8 B77

Acrididae, Inhibitors, Insect biology, Locusta migratoria, Muscles, Nerves, Romalea microptera, Schistocerca gregaria.

11891-69

BIOLOGY AND IMMATURE STAGES OF EUMETOPIELLA RUFIPES.

K Valley J A Novak B A Foote

Entomol Soc Amer Ann 62(1):227-234 REF

15 Jan 1969 420 EN82

Chaetopsis fulvifrons, Chloropidae, Echinocloa crugalli, Echinocloa crugalli frumentacea, Eribolus longulus, Eumetopiella rufipes, Insect

biology, Insect ecology, Insect morphology, Insect physiology, Larvae, Oscinella carbonaria, Otitidae, Pupae, Zoogeography.

11892-69

PROTEIN CHANGES IN THE HAEMOLYMPH OF PIERIS BRASSICAE DURING THE LAST LARVAL INSTARS AND THE BEGINNING OF THE PUPAL STAGE.

L P S Van Der Geest F H M Borgsteede

J Insect Physiol 15(9):1687-1693 REF

Sep 1969 421 J825

Electrophoresis, Insect biochemistry, Larvae, Pieris brassicae, Proteins, Pupae.

11893-69

MITES OR RED SPIDERS ON ORNAMENTALS.

L M Vasvary

Rutgers State Univ Ext Leaflet (295-A):2P

1969 275.29 N46L

Acaricides, Chemical control (insects), Chlorinated hydrocarbons, Insect identification, Mites, Organophosphorus compounds, Ornamental plants, Plant injuries, Tetranychidae.

The following acaricides are listed: DDT, methoxychlor, chlorobenzilate, diazinon, dicofol, genite, ovex, and tetradifon.

11894-69

AGGREGATION BEHAVIOUR OF DENDROCTONUS BREVICOMIS IN RESPONSE TO SYNTHETIC PHEROMONES.

J P Vite G B Pitman

J Insect Physiol 15(9):1617-1622

Sep 1969 421 J825

Attractants, Dendroctonus brevicomis, Insect behavior, Pheromones.

11895-69

GENETIC HOMEOSTASIS IN DROSOPHILA MELANOGASTER.

P D Walton

Can J Genet Cytol 11(2):414-425 REF

Jun 1969 443.8 C16

Drosophila melanogaster, Geotropism, Insect genetics, Insect rearing, Models.

11896-69

THREE YEARS OF GROWTH OF A SERICOMYRMEX COLONY.

N A Weber

Entomol Soc Amer Ann 62(1):244-245

15 Jan 1969 420 EN82

Experimental insects, Formicidae, Fungi, Insect physiology, Population, Sericomymex, Sericomymex urichi.

11897-69

ECOLOGICAL RELATIONS OF THREE ATTA SPECIES IN PANAMA.

N A Weber

Ecology 50(1,WINTER):141-147 MAP REF

1969 410 EC7

Atta cephalotes isthmicola, Atta colombica tonipes, Atta sexdens, Climate, Formicidae, Insect ecology, Insect identification, Zoogeography.

11898-69

LYSOZYME ACTION ON THE COCKROACH, PERIPLANETA AMERICANA, AND ITS INTRACELLULAR SYMBIOTS.

D R A Wharton J E Lola

J Insect Physiol 15(9):1647-1658 REF

Sep 1969 421 J825

Bacteria, Insect biochemistry, Insect physiology, Muramidase, Periplaneta americana, Symbiosis, Toxicology.

11899-69

HISTOLOGICAL CHANGES IN THE GONADS OF HOUSE FLIES FED N-METHYL P,P-BIS(1-AZIRIDINYL) PHOSPHINIC AMIDE AND P,P-BIS(1-AZIRIDINYL)-N-(3-METHOXYPROPYL) PHOSPHINOTHIOIC AMIDE.

J A Wilson

Diss Abstr Sect B 29(3):1055B

Sep 1968 Z5055.U49D53

Bis(1-aziridinyl)-N-(3-methoxypropyl)phosphinothioic amide, P, Bis(1-aziridinyl)-N-methylphosphinic amide, P,P-, Chemical control (insects), Chemosterilants, Gonads, Histology, Insect behavior, Musca domestica, Reproductive organs, Sex behavior, Spermatophores, Tissue culture.

11900-69

OBSERVATIONS ON THE BIOLOGY OF SIX SPECIES OF ACARID MITES.

J P Woodring

Entomol Soc Amer Ann 62(1):102-108 REF

15 Jan 1969 420 EN82

Acaridae, Insect biology, Insect eggs, Insect pests, Insect physiology, Larvae, Mites, Sex ratios. The species discussed are: Caloglyphus anomalus, Histiogaster arborisignis, H. rotundus, Rhizoglyphus echinopus, Schwiebia falcatus, and S. rocketti.

11901-69

ISOLATION OF POLYHEDRAL PRE-VIRAL DEOXYRIBONUCLEIC ACID FROM HEALTHY SILKWORMS.

K Yamafuji

J Sericult Sci Jap 36(4):341-345

Aug 1967 425.9 SE6

Biochemistry, Bombyx mori, Chromosomes, Deoxyribonucleic acid, Enzymes, Hydroxylamine, Insect genetics, Mutagens, Polyhedroses, Virology, Virus production. Japanese summary.

11902-69

SOME OBSERVATIONS ON THE PENTATOMIDES OF CEREALS AND THEIR PARASITISM IN 1965. (FR)

C Yamvrias

Inst Phyto Pathol Benaki Ann (N s)8(2):74-77

1967 464.9 AT4

Aelia acuminata, Aelia rostrata, Diptera, Eurygaster austriacus, Eurygaster maurus, Grain, Hymenoptera, Insect eggs, Insect rearing, Parasitic insects, Pentatomidae, Time. Eight species of parasites are listed.

11903-69

THE PROMORHOLOGY OF INSECT EGGS. (RUS)

Y A Zakhvatkin

Zhur Obshch Biol 30(4,JUL-AUG):426-441 REF

Aug 1969 442.8 Z6

Embryology, Insect eggs, Insect evolution, Insect morphology. English abstract

11904-69

THE MORPHOLOGY OF CLEAVAGE OF THE COLLEMBOLA EGG. (RUS)

Y A Zakhvatkin

Zool Zhur 48(7):1029-1040 REF

Jul 1969 410 R92

Collembola, Embryology, Insect eggs, Insect morphology. Russian and english abstracts

GENETICS

11905-69

CHROMOSOME NUMBER POLYMORPHISM IN AN AUSTRALIAN PONERINE ANT.

R H Crozier

Can J Genet Cytol 11(2):333-339 MAP REF

Jun 1969 443.8 C16

Chromosomes, Formicidae, Insect genetics, Population.

11906-69

DIFFERENCE IN ADSORPTION OF DYES TO THE TISSUES BETWEEN NORMAL SILKWORM AND TRANSPARENT MUTANT.

M Eguchi

Sabco (soc Areas Biol Chem Overlap) J 3(1-2):69-78 REF

Jul 1967 442.8 SO13

Adsorption, Bombyx mori, Dyes, Electrophoresis, Insect genetics, Insect mutation, Insect physiology. Japanese summary.

- 11907-69**
THE PHENOMENON OF CROSS RESISTANCE IN INSECTS: EMPIRICAL, THEORETICAL, AND GENETICAL CONSIDERATIONS.
 J M Grayson D G Cochran
World Rev Pest Contr 7(4,WINTER):172-175
 REF
 1968 79.8 W89
 Insect genetics, Insecticide resistant insects, Insecticides.
- 11908-69**
ABERRANT SEGREGATION: A NEW CASE IN DROSOPHILA MELANOGASTER.
 G D Hanks R O Torgerson
Can J Genet Cytol 11(2):305-316 REF
 Jun 1969 443.8 C16
 Chromosomes, Drosophila melanogaster, Insect genetics.
- 11909-69**
MALE GONADAL DYSGENESIS IN A FEMALE-STERILE MUTANT OF DROSOPHILA MELANOGASTER.
 J C Lucchesi S J Counce P E Hildreth
J Exp Zool 168(4):437-449 REF
 Aug 1968 410 J825
 Drosophila melanogaster, Genetics, Gonads, Insect abnormalities, Mutation, Sterility.
- 11910-69**
INFLUENCE OF SOME GENES ON THE DEVELOPMENT OF WINGED FORMS SUCH AS THE GREEN PEACH APHID (MYZUS PERSICAE SULZ.). (CZ)
 J Praslicka
Biologia (bratislava) 22(12):900-907 REF
 1967 442.8 B5265
 Aphididae, Homoptera, Insect genetics, Insect morphology, Myzus persicae, Wings (insects). German, russian and czech abstracts
- 11911-69**
X-RAY-INDUCED MULTIPLE ABERRATIONS AMONG OOCYTES OF DROSOPHILA MELANOGASTER.
 R R Rinehart F J Ratty
Mutation Res 7(1 JAN-FEB):122-125
 1969 443.8 M98
 Chromosomes, Drosophila melanogaster, Electron microscopy, Insect abnormalities, Insect genetics, Ovaries, X-rays.
- 11912-69**
JUVENILE HORMONE: EFFECTS ON A HIGHER DIPTERAN.
 V S Srivastava L I Gilbert
Science 161(3836):61-62
 05 Jul 1968 470 SCI2
 Diptera, Insect biochemistry, Insect genetics, Juvenile hormone, Metamorphosis, Sarcophaga bulbata.
- MEDICAL ENTOMOLOGY**
- 11913-69**
BANDICOTA INDICA AND SYLVATIC PLAGUE IN VIETNAM.
 L Kartman
Roy Soc Trop Med Hyg Trans 62(6):902-903
 1968 448.9 R813
 Epidemiology, Insect vectors, Pasteurella pestis, Plague, Rats, Rodents, Serum, Surveys, Xenopsylla cheopsis.
- CROP PROTECTION**
- 11914-69**
NATIONAL VEGETABLE RESEARCH STATION: SEVENTEENTH ANNUAL REPORT, 1966.
 Anonymous
Nat Veg Res Sta Annu Rep 17:96P MAP
 1967 84 W45
 Chemical control (insects), Insect pests, Irrigation, Plant breeding, Plant diseases, Plant nutrition, Plant physiology, Vegetables, Weather, Weed control. Many plant diseases and insect pests are discussed along with their control measures.
- 11915-69**
RESISTANCE DISCOVERED TO MAIZE BORER.
 Anonymous
World Farming 11(2):18
 Feb 1969 30.08 W89
 Corn, Dimboa, Herbicides, Insect pests, Ostrinia nubilalis, Plant pest resistance, Plant physiology, Scolytidae.
- 11916-69**
THE INTERNATIONAL RICE RESEARCH INSTITUTE ANNUAL REPORT, 1967.
 Anonymous
Int Rice Res Inst Annu Rep 6:308P REF
 1967 59.9 IN86A
 Agricultural economics, Agricultural statistics, Chemical control (insects), Crop varieties, Insect pests, Insecticides, Plant diseases, Plant physiology, Rice, Soil biology, Weather.
- 11917-69**
GROWING TRELLISED TOMATOES IN WESTERN NORTH CAROLINA.
 A A Banadyga H E Duncan J W Glover H L Liner H E Scott R E Sneed W A Skroch J C Wells
Nc Ext Ext Circ (475):26P
 Dec 1969 275.29 N811
 Crop varieties, Plant breeding, Tomatoes, Trellises. Includes data on weed control, insect control, fruit disorders, and sprayers for disease control.
- 11918-69**
CONTRIBUTION TO THE CYTOLOGY OF HYMENOMYCETES: VII. KARYOLOGICAL STUDIES IN POLYPORUS AGARICEUS BERK.
 S Banerjee B Nandi
Indian J Mycol Res 4(112):32-40 REF
 1966 450 IN29
 Cell nucleus, Fungus diseases (plants), Hymenomyces, Plant cytology, Polyporus, Shorea robusta.
- 11919-69**
WOOD AND ORGANISMS; INTERNATIONAL SYMPOSIUM, BERLIN-DAHLEM, 1965. (GE)
 G Becker W Liese
Holz Organ 1:543P
 1966 QK604.H6
 Biochemistry, Ecology, Insect pests, Plant morphology, Plant physiology, Symposia, Wood, Wood destroying fungi.
- 11920-69**
PRELIMINARY STUDIES ON THE EFFECT OF SINGLE AND COMBINED TREATMENTS OF X-RAYS AND GIBBERELIC ACID ON THE GROWTH OF RICE AND TOMATO SEEDLINGS.
 S Bose
Mysore J Agr Sci 2(1):58-60
 1968 S19.M9
 Gibberellic acid, Plant physiology, Rice, Seed germination, Seedlings, Tomatoes, X-rays.
- 11921-69**
PHYSICAL METHODS OF PEST CONTROL.
 W M Carleton L A Liljedahl
Wash Acad Sci J 57(3):61-69 REF
 Mar 1967 500 W276J
 Biological control (insects), Chemical control (pests), Cultural control (weeds), Insect behavior, Life cycle, Light, Pest control, Radiation, Soil-borne plant diseases, Sound waves, Temperature.
- 11922-69**
CHARACTERISTICS OF THE USE OF THE FUMIGANT DI-TRAPEX, A FUNGICIDE AND NEMATOCIDE. (IT)
 A Formigoni
Notiz Mal Piante (SER 3)(3/4):177-186 REF
- 1967 464.8 N84**
 Dichloropropane dichloropropene mixture, Economic plants, Flowers, Fumigants, Fungicides, Fusarium, Methyl isothiocyanate, Nematocides, Ornamental plants, Soil fumigation, Vegetables. French and German summaries.
- 11923-69**
OBSERVATIONS ON ASSOCIATED COMPLEXES NEMATODES-FUNGI IN CONNECTION WITH DAMAGES TO FLOWER GROWING AND HORTICULTURE AND MEANS OF CONTROL. (IT)
 F Garofalo
Notiz Mal Piante (SER 3)(3/4):187-216 REF
 1967 464.8 N84
 Chemical control (pests), Chlorinated hydrocarbons, Dibromo-3-chloropropane, 1,2-, Diethyl O-2-pyrazinyl phosphorothioate, O,O-, Fumigants, Fungus diseases (plants), Mercury, Organic compounds, Pentachloronitrobenzene, Plant nematodes, Vegetables. English and French summaries.
- 8 associative complexes were observed; 3 for *Ditylenchus dipsaci* which were with *Rhizoctonia solani* for the celery, *Sclerotinia minor* for the salad, and *S. sclerotiorum* for the hydrangea; 2 for *Heterodera marioni* which were with *Fusarium lycopersici* for the tomato and *R. solani* for the cyclamen; 3 for *Aphelenchoides rizema-bosi* which were with *R. solani* for the strawberry, *F. oxysporum* for the chrysanthemum, and *Verticillium dahliae* for the dahlia.
- 11924-69**
GENETIC EFFECT OF IRRADIATION BY X-RAYS ON SEEDS OF ZEA MAYS. INFLUENCE OF HIGH-TEMPERATURE TREATMENT BEFORE THE IRRADIATION ON THE IMMEDIATE EFFECT. (FR)
Mutation Res 7(1 JAN-FEB):35-42 REF
 1969 443.8 M98
 Corn, Irradiation, Plant genetics, Seeds, Temperature, X-rays. English summary.
- 11925-69**
THE INFLUENCE OF SPRAY PROGRAMS ON THE FAUNA OF APPLE ORCHARDS IN NOVA SCOTIA. XIX. APPLE RUST MITE, VASATES SCHLECHTENDALI, A FOOD SOURCE FOR PREDATORS.
 H J Herbert K H Sanford
Can Entomol 101(1):62-67
 Jan 1969 421 C16
 Acaricides, Aculus schlechtendali, Apples, Arthropoda, Chemical control (insects), Experimental insects, Insect adaptation, Mites, Orchards, Panonychus ulmi, Predaceous insects, Spraying, Sulphides, Tetrasul, Zoogeography.
- 11926-69**
PROGRESS IN THE FIELD OF SYSTEMIC INSECTICIDES AND HOPES FOR THE FUTURE.
 N E Johnson
Arborists News 37(7):8 P.
 Jul 1968 99.8 AR14
 Agricultural outlook, Evaporation, Insecticides, Plants, Toxicology, Water.
- 11927-69**
THE COMPLEX OF FUNGI ESSENTIAL TO THE GROWTH AND DEVELOPMENT OF XYLEBORUS SHARPI IN WOOD.
 D M Norris
Holz Organ 1:523-529 REF
 1966 QK604.H6
 Fungi, Fungus diseases (plants), Insect pests, Plant physiology, Platypodidae, Symbiosis, Ulmus americana, Wood, Xyleborus sharpi. German and French summaries.
- 11928-69**
SELECTED LIST, 1969 VEGETABLE VARIETIES FOR SOUTH DAKOTA.
 P Prasher D Martin
S Dak State Univ Ext Ext Mimeogr Circ 431:8P
 MAP
 1969 275.29 SO85FS

CROP PROTECTION

11929-69

Crop varieties, Plant disease resistance, Planting date, Vegetables.

11929-69

OCCURRENCE OF INDOLEACETIC ACID IN THE BRYOPHYTES.

M J Schneider R F Troxler P D Voth

Bot Gaz 128(3):174-179 REF

Sep 1967 450 B652

Biological assay, Bryophytes, Chromatography, Extracts, Indoleacetic acid, Tissues.

11930-69

WALDRON, A NEW HIGH-YIELDING HRS WHEAT.

G Smith R C Froberg L D Sibbitt D C Ebeltoft

N Dak Farm Res 26(3 JAN-FEB):4-7

1969 100 N813B

Baking, Crop varieties, Crop yields, Milling, Plant disease resistance, Wheat.

DISEASES

11931-69

SELECTION FOR RESISTANCE AND CHEMICAL CONTROL OF RHIZOCTONIA ROOT ROT DISEASE OF SUGARBEETS.

M M Afanasiev D E Baldrige

Amer Soc Sugar Beet Technol J 15(2):151-158

Jul 1968 66.9 AM35J

Chemical control (plant diseases), Dihydro-5-carboxanilido-6-methyl-1,4-oxathin, 2,3-, Fungus diseases (plants), Pentachloronitrobenzene, Plant breeding, Plant disease resistance, Potassium azide, Rhizoctonia, Root rot, Sugar beets.

Resistance to root rot in sugar beets, caused by the fungus Rhizoctonia, was developed by selective breeding. Use of Terrachlor (pentachloronitrobenzene) was shown to be an effective control for the disease.

11932-69

SOME PROPERTIES OF MITOCHONDRIA AND RIBOSOMES OF INFECTED PLANT TISSUES. (RUS)

U A Aksanova B A Rubin R V Savchenko A I Brynza

Biokhimiya 33(3, MAY-JUN):527-536 REF

1968 385 B523

Botrytis cinerea, Cabbage, Fungus diseases (plants), Mitochondria, Peroxidases, Plant biochemistry, Plant tissues, Proteins, Ribonucleic acid, Ribosomes.

11933-69

MORE ON THE CONTROL OF COLLAR ROT OF CHICORY PLANTS. (IT)

P Alghisi

Notiz Mal Pianta (SER 3)(3/4):95-106

1967 464.8 N84

Captan, Chemical control (plant diseases), Chicory, Chlorinated hydrocarbons, Collar rot, Folpet, Fungicides, Fungus diseases (plants), Pentachloronitrobenzene, Sclerotinia minor. English summary.

11934-69

CONTROL OF POST-EMERGENCE DAMPING OFF IN VETCH WITH DEXON.

R N Allen

Australian J Exp Agr Anim Ilusb 8(35) 767-770

Dec 1968 23 AU792

Chemical control (plant diseases), Damping-off, Dimethylamino)benzenediazo sodium sulfonate, p-, Fungus diseases (plants), Pythium debaryanum, Vicia sativa.

11935-69

EXPERIMENT IN SOIL DISINFECTION AGAINST PHIALOPHORA CINERESCENS (WR.) V. BEYMA IN THE PESCIA DISTRICT. (IT)

E Andreucci

Notiz Mal Pianta (SER 3)(3/4):107-119

1967 464.8 N84

BIBLIOGRAPHY

Chemical control (plant diseases), Dianthus caryophyllus, Dichloropropane dichloropropene mixture, Fungus diseases (plants), Fusarium roseum, Methyl bromide, Phialophora cinerescens, Sodium N-methylthiocarbamate, Soil fungi, Soil sterilization, Wilt disease (plants). English summary.

11936-69

INHERITANCE OF RESISTANCE IN CARROT, DAUCUS CAROTA VAR. SATIVA, TO THE LEAF SPOT FUNGUS, CERCOSPORA CAROTAE.

F F Angell W H Gabelman

Amer Soc Horticult Sci Proc 93:434-437

Dec 1968 81 SO12

Carrots, Cercospora carotae, Fungus diseases (plants), Greenhouse culture, Heredity, Leaf spot, Plant breeding, Plant disease resistance, Seedlings.

11937-69

RUST OF STONE FRUITS.

Anonymous

Horticultural Abs 38(3):687

Sep 1968 241 IM74

Fruit, Fungus diseases (plants), Rust, Uredinales.

11938-69

APPLE BITTER ROT.

Anonymous

Horticultural Abs 38(3):684

Sep 1968 241 IM74

Apples, Bitter rot, Fungus diseases (plants).

11939-69

POWDERY MILDEW OF THE GRAPEVINE.

Anonymous

Horticultural Abs 38(3):689

Sep 1968 241 IM74

Fungus diseases (plants), Grapes, Powdery mildew.

11940-69

VIRUS DISEASES OF DECIDUOUS FRUIT TREES: APPLE MOSAIC.

Anonymous

Horticultural Abs 38(3):681

Sep 1968 241 IM74

Apples, Fruit, Mosaic, Trees, Virus diseases (plants).

11941-69

PLANT PATHOLOGY.

Anonymous

Int Rice Res Inst Annu Rep 6:81-113

1967 59.9 IN86A

Bacterial diseases (plants), Bacterial leaf blight, Crop varieties, Insect vectors, Nephotettix impicticeps, Plant disease resistance, Rice, Tungro disease, Virus diseases (plants), Yellow dwarf.

11942-69

SURVEYS OF APPLE SCAB INFECTION SEVERITY IN CRABAPPLE SELECTIONS 1961-1965.

H S Bagga D M Boone

Amer Soc Horticult Sci Proc 93:293-299 REF

Dec 1968 81 SO12

Apples, Crabapples, Fungus diseases (plants), Plant disease resistance, Scab, Surveys.

11943-69

ON THE BIOLOGY OF TRAMETES LACTINEA BERK. IN CULTURE.

S Banerjee N C Banerjee

Indian J Mycol Res 4(112):1-21 MAP REF

1966 450 IN29

Biology, Culture media, Fungus diseases (plants), Plant geography, Plant morphology, Trametes lactinea, Tree diseases, Wood destroying fungi.

11944-69

STEM PITTING OF PEACH.

J G Barrat S M Mircetich H W Fogle

Horticultural Abs 38(3):679

Sep 1968 241 IM74

Peaches, Plant diseases, Stem pitting.

11945-69

HOW TO CONTROL DIEBACK IN AZALEAS AND RHODODENDRONS.

L W Baxter S U Brown W T Mercier

S C Agr Exp Sta Agr Res 15(1-2):7

1968 100 SO85O

Azalea, Cultural control (plant diseases), Dieback, Fungus diseases (plants), Phomopsis, Phytophthora cactorum, Rhododendron.

11946-69

UREDOSPORE STORAGE IN BREEDING FOR CROWN RUST RESISTANT ANNUAL RYEGRASS.

H W Bennett

Crop Sci 8(5):627-628

Sep 1968 64.8 C883

Breeding, Crown rust, Lolium multiflorum, Plant disease resistance, Plant diseases, Puccinia coronata, Temperature.

11947-69

REMARKS ON THE PRACTICE OF GRAFTING AND SOIL DISINFECTION WITH METHYL BROMIDE AND WITH DI-TRAPEX IN THE CONTROL OF VERTICILLIUM WILT OF GREENHOUSE TOMATO PLANTS. (IT)

G Bestagno A Cagna

Notiz Mal Pianta (SER 3)(3/4):121-127

1967 464.8 N84

Biological control (plant diseases), Chemical control (plant diseases), Dichloropropane dichloropropene mixture, Fungus diseases (plants), Greenhouse culture, Methyl bromide, Methyl isothiocyanate, Plant grafting, Soil sterilization, Tomatoes, Verticillium, Wilt disease (plants). English summary.

11948-69

REMARKS ON THE EFFICIENCY OF SOIL DISINFECTION, USING STEAM AND VARIOUS FUMIGANTS, IN THE CONTROL OF VERTICILLIUM WILT OF GREENHOUSE TOMATO PLANTS. (IT)

G Bestagno A Cagna

Notiz Mal Pianta (SER 3)(3/4):129-134

1967 464.8 N84

Chemical control (plant diseases), Dichloropropane dichloropropene mixture, Fumigants, Fungus diseases (plants), Greenhouse culture, Methyl bromide, Methyl isothiocyanate, Sodium N-methylthiocarbamate, Soil sterilization, Steam, Tomatoes, Verticillium, Wilt disease (plants). English summary.

11949-69

A CONTRIBUTION TO THE KNOWLEDGE OF THE VIRUSES AND VIRUSSUSPECT DISEASES OF OAKS (QUERCUS SPP.). (GE)

C Blatny Z Prochazkova

Rev Roumaine Biol Ser Bot 11(1/3):39-42

1966 QK1.R4

Insect vectors, Mosaic, Plant disease transmission, Quercus, Quercus petraea, Quercus robur, Symptomatology, Tree diseases, Virus diseases (plants).

11950-69

OBSERVATIONS ON CRINKLE DISEASE OF HOPS (HUMULUS LUPULUS L.). (GE)

C Blatny J Limberk Z Prochazkova J Pozdena

Phytopathol Z 58(4):334-356 REF

Apr 1967 464.8 P562

Crinkle, Hops, Plant grafting, Virus diseases (plants). English summary

11951-69

ABOUT FOOT- AND STEM DISEASES OF WHEAT WITH SPECIAL CONSIDERATION OF (2-CHLOROETHYL) TRIMETHYLAMMONIUM CHLORIDE. (GE)

H Bockmann

Stichting Ned Graan-cent Tech Ber 17:17-28

Dec 1967 59.9 ST52TB

Cercosporaella herpotrichoides, Chloroethyl)trimethylammonium chloride, (2-, Crop varieties, Crop yields, Fungus diseases (plants), Fusarium, Plant growth inhibitors, Septoria, Tables (data), Wheat.

- 11952-69**
ON THE SEED GERMINATION OF PHOMA SPECIES OF VALERIANELLA. (GE)
G H Boerema C B de Jong
Phytopathol Z 61(4):362-371
Apr 1968 464.8 P562
Fedia cornucopiae, Fungi, Immunity, Injections, Phoma, Plant hardiness, Seed germination, Seed-borne plant diseases, Seedlings, Valerianella. English summary
- 11953-69**
ERWINIA AMYLOVORA (BURR.) WINSL. IN POLAND.
Z Borecki K Lyskanowska
Horticultural Abs 38(3):683
Sep 1968 241 IM74
Apples, Bacterial diseases (plants), Erwinia amylovora, Pears.
- 11954-69**
BREEDING STUDIES OF VERTICILLIUM WILT RESISTANCE IN X FRAGARIA ANANASSA DUCH.
H H Bowen L F Hough E H Varney
Amer Soc Horticult Sci Proc 93:340-351 REF
Dec 1968 81 SO12
Crop varieties, Fungus diseases (plants), Plant breeding, Plant disease resistance, Seedlings, Strawberries, Verticillium, Wilt.
- 11955-69**
OBSERVATIONS AND INVESTIGATIONS ON VINE ENATION DISEASE.
H Bruckbauer
Horticultural Abs 38(3):682-683
Sep 1968 241 IM74
Enation, Grapes, Virus diseases (plants).
- 11956-69**
ALTERNARIA TENUIS NEES, PROBABLE CAUSE OF PINK BELLY IN WHEAT. (SP)
M D Caglevic
Agr Tec 27(3,JUL-SEP):134-136
1967 464.9 C432B
Alternaria tenuis, Black point, Fungus diseases (plants), Helminthosporium, Necrosis, Puccinia recondita, Septoria tritici, Wheat. English summary.
- 11957-69**
A ROOT ROT OF RED RASPBERRY CAUSED BY PHYTOPHTHORA ERYTHROSEPTICA.
R H Converse C D Schwartze
Horticultural Abs 38(3):687-688
Sep 1968 241 IM74
Fungus diseases (plants), Phytophthora erythroseptica, Raspberries, Root rot.
- 11958-69**
MICRO-MORPHOLOGICAL CHANGES OF LIGNIFIED CELL WALLS PRODUCED BY BASIDIOMYCETES (BROWN ROT FUNGI). (GE)
H Courtois
Holz Organ 1:41-53 REF
1966 QK604.H6
Ascomycetes, Basidiomycetes, Brown rot, Cell wall, Fagus, Fungus diseases (plants), Lignification, Picea, Plant morphology, Wood destroying fungi. English and French summaries.
- 11959-69**
YELLOW LEAF ROLL VIRUS ON THE MOVE.
D Curlee
Horticultural Abs 38(3):681-682
Sep 1968 241 IM74
Insect vectors, Leaf roll, Nectarines, Peaches, Virus diseases (plants).
- 11960-69**
MICROBIAL DECOMPOSITION OF METHYL-MERCURY DICYANDIAMIDE. (PO)
E Czerwinska Z Janko R Rowalik H Stetaniak
Rocz Nauk Roln 95(2):220-228
1969 20.5 R59
Cyanoguanidine, Decomposition, Mercury compounds, Microorganisms, Plant protection. Russian and English abstracts.
- 11961-69**
THE PROBLEM OF ACUTE WILTING OF APRICOTS IN THE SKOPJE REGION.
T Dimitrovski
Horticultural Abs 38(3):679
Sep 1968 241 IM74
Apricots, Fungus diseases (plants), Plant protection, Wilt.
- 11962-69**
STUDIES ON THE DECONTAMINATION OF SOIL WITH METHYL BROMIDE. (GE)
V U G Drosihn B R Stephan G M Hoffmann
Z Pflanzenkrankh (pflanzenpathol) Pflanzenschutz 75(5):272-287
May 1968 464.8 Z3
Fungus diseases (plants), Fusarium oxysporum, Methyl bromide, Phialophora, Sclerotinia sclerotiorum, Soils, Verticillium albo-atrum. English summary
- 11963-69**
EFFECT OF PRUNING ON SILVER-LEAF DISEASE (STEREUM PURPUREUM (PERS.) FR.) AND YIELD OF PEACH AND NECTARINE TREES.
M H Dye
New Zeal J Agr Res 10(3-4,AUG-NOV):435-444
Nov 1967 23 N4892
Crop yields, Fungus diseases (plants), Nectarines, Peaches, Pruning, Silver leaf.
In a field trial comparing different methods and times of pruning, 260 of the peach trees and all of the nectarine trees receiving standard winter pruning were infected with silver-leaf disease (*Stereum purpureum* (Pers.) Fr.). However, no infection occurred in trees pruned shortly after harvesting the fruit. Application of wound dressing to most but not all cuts reduced the number of winterpruned trees becoming infected in some years.
- 11964-69**
PHYTOPHTHORA CINNAMOMI CAUSING A BASAL ROT OF CHAMAECYPARIS LAWSONIANA AND ITS VARIETIES.
S G Evans
Plant Pathol 17(3):143-144
Sep 1968 464.8 P692
Chamaecyparis lawsoniana, Fungus diseases (plants), Nurseries, Phytophthora cinnamomi, Root rot.
- 11965-69**
INVESTIGATION OF CORKING DISORDERS OF APPLES. III. BIOCHEMICAL CHANGES DURING THE DEVELOPMENT OF CORK SPOT OF 'YORK IMPERIAL' APPLES.
M Faust C B Shear
Amer Soc Horticult Sci Proc 93:746-752 REF
Dec 1968 81 SO12
Apples, Cork spot, Crop varieties, Ethylene, Lipoproteins, Plant abnormalities, Plant biochemistry, Plant respiration.
- 11966-69**
ECOLOGY OF WOOD-DESTROYING AND WOOD-INHABITING FUNGI.
W P K Findlay
Holz Organ 1:199-211 REF
1966 QK604.H6
Ecology, Fungus diseases (plants), Nutrient solutions (plants), Temperature, Water, Wood, Wood destroying fungi. German and French summaries.
- 11967-69**
LIGNICOLOUS FUNGI OF FRESHLY FELLED TIMBER IN TROPICAL AFRICA. (FR)
M Fougousse
Holz Organ 1:343-349
1966 QK604.H6
Ceratomyces, Cytospora, Fungus diseases (plants), Fusarium, Lignin, Physalospora rhodina, Timber, Tropical woods, Wood destroying fungi, Wood staining fungi. English and German summaries.
- 11968-69**
STUDIES ON HYPERTROPHIC DISEASE OF CHERRY (GENUS PRUNUS), SO-CALLED WITCH'S BROOM CAUSED BY TAPHRINA WIESNERI. II ON THE PHENOLIC ACIDS AND THEIR RELATED COMPOUNDS, ESPECIALLY ON MELILOTIC ACID IN INFECTED JAPANESE FLOWERING CHERRY LEAVES.
S Fujii H Aoki M Komoto M Katsura
Agr Biol Chem 32(7):816
Jul 1968 385 AG8B
Cherries, Fungus diseases (plants), Hydroxyhydrocinnamic acid, o-, Hypertrophy, Leaves, Phenols, Taphrina, Witches' broom.
- 11969-69**
STUDIES ON THE HYPERTROPHIC DISEASE OF CHERRY (GENUS PRUNUS), SO-CALLED WITCH'S BROOM CAUSED BY TAPHRINA WIESNERI. I. ON THE METABOLITES OF T. WIESNERI.
S Fujii H Aoki M Komoto K Munakata T Tamura
Agr Biol Chem 32(7):810-815
Jul 1968 385 AG8B
Cherries, Fungus diseases (plants), Hypertrophy, Metabolites, Research, Taphrina, Witches' broom.
- 11970-69**
THE EFFECT OF A TEMPERATURE OF 35 DEGREES C. ON VITIS RUPESTRIS AFFECTED BY COURTNOUE.
R Galzy
Horticultural Abs 38(3):682
Sep 1968 241 IM74
Fanleaf (grapes), Plant physiology, Temperature, Virus diseases (plants), Vitis rupestris.
- 11971-69**
MICRO-ORGANISMS IN THE ROOT REGIONS OF WHEAT. LITERATURE REVIEW. (GE)
W Gams
Berlin Biol Bundesanst Land-forstwirtschaftl Mitt 123:77P REF
Jun 1967 410.9 G31M
Agrobacterium, Aureobasidium bolleyi, Bacterial diseases (plants), Cylinrocarpon radicola, Flavobacterium, Fungus diseases (plants), Fusarium, Literature, Mycobacterium, Pseudomonas, Roots, Soil microorganisms, Soil-borne plant diseases, Wheat. English summary.
- 11972-69**
BREEDING FOR RHIZOCTONIA RESISTANCE IN SUGARBEET.
J O Gaskill
Amer Soc Sugar Beet Technol J 15(2):107-119 REF
Jul 1968 66.9 AM35J
Fungus diseases (plants), Plant breeding, Plant disease resistance, Rhizoctonia solani, Sugar beets.
- 11973-69**
BLOSSOM-END ROT OF 'CHICO' AND 'CHICO GRANDE' TOMATOES.
C J Gerard B W Hipp
Amer Soc Horticult Sci Proc 93:521-531 REF
Dec 1968 81 SO12
Blossom end rot, Calcium, Climate, Crop varieties, Plant physiological diseases, Plant transpiration, Potassium, Tomatoes.
- 11974-69**
CALONECTRIA NISEPTATA N. SP., THE HITHERTO UNKNOWN PERFECT STAGE OF CYLINDROCLADIUM SCOPARIUM MORGAN. (GE)
W Gerlach
Phytopathol Z 61(4):372-381 REF
Apr 1967 464.8 P562
Calonectria, Culture media, Cylinrocladium scoparium, Cypripedium callosum, Fungi, Fungus diseases (plants), Morphology. English summary
- 11975-69**
WHAT'S NEW IN FARM CHEMICALS.
M T Goebels
Citrus Vet Mag 32(5):16
Jan 1969 80 C498

Agricultural chemistry, Biological control (insects), Chemical control (plant diseases), Chemical control (weeds), Chemosterilants, D, 2,4-, Fungicides, Herbicides, Insecticides, Phenoxy acid compounds, Plant nematodes, Soil fumigation.

11976-69

THE EFFECT OF BACTERIAL ACTION ON SOME WOOD CUBES IN SHAKE CULTURE.

H Greaves

Holz Organ 1:61-67
1966 QK604.H6

Bacillus polymyxa, Bacterial diseases (plants), Betula, Culture media, Fagus sylvatica, Pinus sylvestris, Wood. German and French summaries.

11977-69

STEM RUST OF WHEAT, BARLEY, AND RYE IN CANADA IN 1968.

G J Green

Can Plant Dis Surv 48(3):104-106
Sep 1968 464.9 C16S

Barley, Fungus diseases (plants), Puccinia graminis, Puccinia graminis tritici, Rye, Stem rust, Wheat.

11978-69

POLYPHENOXIDASE ACTIVITY IN BACTERIALLY INDUCED GRAYWALL OF TOMATO FRUIT.

C B Hall F W Knapp R E Stall

Phytopathology 59(2):267-268
Feb 1969 464.8 P56

Assay, Bacterial diseases (plants), Biochemistry, Enzymes, Phenolases, Tomatoes.

11979-69

RESEARCH ON THE METABOLISM OF VIRUS-INFECTED PLANTS. V. INFLUENCE ON THE CHANGES IN METABOLISM IN PHASEOLUS VULGARIS L. AFTER INFECTION WITH TOBACCO NECROSIS VIRUS BY LIGHT DEFICIENCY. (GE)

H Hofferek

Phytopathol Z 58(4):357-366 REF
Apr 1967 464.8 P562

Carbohydrates, Deficiency diseases, Kidney beans, Light, Metabolism, Necrosis, Research, Tobacco, Virus diseases (plants). English summary

11980-69

THE ANATOMY OF TUMORS INDUCED ON CITRUS BY CITRUS VEIN-ENATION VIRUS.

G R Hooper H Schneider

Amer J Bot 56(2):238-247 REF
Feb 1969 450 AM36

Anatomy, Bergamot, Citrus, Crown galls, Leaves, Vein enation, Veins, Virology, Virus diseases (plants).

11981-69

INHERITANCE OF RESISTANCE TO POWDERY MILDEW IN THE CULTIVATED STRAWBERRY.

C S Hsu R Watkins A T Bolton P S Spangelo

Can J Genet Cytol 11(2):426-438 REF
Jun 1969 443.8 C16

Fungus diseases (plants), Inheritance, Plant breeding, Plant disease resistance, Plant diseases, Plant genetics, Powdery mildew, Strawberries.

11982-69

A QUANTITATIVE STUDY OF THE INHERITANCE OF RESISTANCE TO BACTERIAL BLIGHT IN UPLAND COTTON.

N L Innes S J Brown

J Agr Sci & London & 73(1):15-23 REF
Aug 1969 10 J822

Bacterial blight, Bacterial diseases (plants), Cotton, Inheritance, Plant disease resistance, Plant diseases, Plant genetics.

11983-69

SYMPTOMS OF RASP LEAF VIRUS DISEASE ON PEACH. (SE)

M Jordovic

Zastita Bilja 18(93/95):143-145
1967 464.8 Z1

Cherries, Leaf enation, Peaches, Plant budding, Plant disease transmission, Seedlings, Virus diseases (plants). English summary.

11984-69

CHANGE IN TRANSMISSIBILITY OF BEAN YELLOW MOSAIC VIRUS BY APHIDS.

J A Kamm

Entomol Soc Amer Ann 62(1):47-50 REF
15 Jan 1969 420 EN82

Acyrtosiphon pisum, Aphididae, Beans, Crotonaria spectabilis, Epidemiology, Genetics, Insect vectors, Macrosiphum albifrons, Mutation, Myzus persicae, Plant disease transmission, Virus diseases (plants), Yellow mosaic.

11985-69

FRUIT SYMPTOMS OF THE WHITE SPOT DISEASE ON SWEET CHERRIES.

W Kampe

Horticultural Abs 38(3):679
Sep 1968 241 IM74

Fruit, Mazzard cherries, Plant diseases, White spot.

11986-69

UNUSUAL STRAINS OF PHYTOPATHOGENIC VIRUSES. (RUS)

O S Kapitza

(4 JUL-AUG):519-531 REF
Aug 1969

Mosaic, Peas, Plant diseases, Rattle disease, Tobacco, Virology, Virus diseases (plants). English abstract.

11987-69

SAFFLOWER INTRODUCTION RESISTANT TO FUSARIUM WILT.

P F Knowles J M Klisiewicz A B Hill

Crop Sci 8(5):636-637
Sep 1968 64.8 C883

Aspidiotus perniciosus, Fungus diseases (plants), Fusarium oxysporum, Insect pests, Plant disease resistance, Safflower, Seedlings, Wilt.

11988-69

FUSARIUM OXYSPORUM (SCHLECHT.) SNYD. ET HANS.- A DOMINANT FUNGUS SPECIES ON THE ROOT-SURFACE OF WOODY PLANT SEEDLINGS.

J Kubikova

Plant Soil 28(2):306-312 REF
Apr 1968 450 P696

Climbing plants, Cylindrocarpum radicola, Ecology, Fungus diseases (plants), Fusarium oxysporum, Morphology, Nurseries, Roots, Seedlings.

11989-69

YELLOW VIRUS EFFECTS ON MACRO- AND MICRO-ELEMENTS IN 'MONTMORENCY' SOUR CHERRY LEAVES.

S S Kwong K G Parker

Amer Soc Horticult Sci Proc 93:115-118
Dec 1968 81 SO12

Leaves, Magnesium, Phosphorus, Plant biochemistry, Potassium, Sour cherries, Symptomatology, Virus diseases (plants), Yellows, Zinc.

11990-69

CONTROL OF BLIGHT DISEASES OF POTATO IN WEST BENGAL PLAINS BY VARIOUS SPRAY FUNGICIDES.

J N Laha A Pal B K Roy

Indian J Mycol Res 4(112):41-45
1966 450 IN29

Alternaria solani, Chemical control (plant diseases), Early blight, Fungicides, Fungus diseases (plants), Late blight, Phytophthora infestans, Potatoes, Spraying. The fungicides tested were Cuman, Copex-50, Flit-406, Dithane M-45, Dithane Z-78, Blitane, Duter and Hexathane.

11991-69

THE POSSIBILITY OF REINFECTION BY ASCOPORES OF THE FIRST GENERATION OF PSEUDOPEZIZA TRACHEIPHILA IN LATE SUMMER.

J Lehoczy

Horticultural Abs 38(3):689
Sep 1968 241 IM74

Ascospores, Fungus diseases (plants), Grapes, Infectious diseases, Pseudopeziza tracheiphila.

11992-69

PHLOEM AND BUD TRANSMISSION OF CHROME MOSAIC AND FANLEAF VIRUSES OF GRAPEVINE.

J Lehoczy G Sarospataki

Horticultural Abs 38(3):682
Sep 1968 241 IM74

Fanleaf (grapes), Grapes, Mosaic, Phloem, Virus diseases (plants).

11993-69

MICRONUTRIENTS ESSENTIAL FOR TREE HEALTH AND HIGH YIELD OF QUALITY CITRUS.

C D Leonard

Citrus Vet Mag 32(5):14
Jan 1969 80 C498

Citrus, Micronutrients, Plant nutrition, Plant nutritional deficiencies, Trees. Six micronutrients; iron, zinc, manganese, copper, molybdenum and boron are discussed.

11994-69

THE SOFT ROT FUNGI AND THEIR MODE OF ENTRY INTO WOOD AND WOODY CELL WALLS.

J F Levy

Holz Organ 1:55-60
1966 QK604.H6

Cell wall, Fungus diseases (plants), Hardwoods, Soft rot, Wood, Wood destroying fungi. German and French summaries.

11995-69

MICROMORPHOLOGICAL CHANGES OF WOOD THROUGH THE DECOMPOSITION CAUSED BY FUNGI. (GE)

W Liese

Holz Organ 1:13-26 REF
1966 QK604.H6

Brown rot, Decomposition, Enzymes, Fungus diseases (plants), Morphology, Sap stain, Soft rot, White rot, Wood, Wood destroying fungi, Wood staining fungi. English and French summaries.

11996-69

METHOD OF DESTROYING FUNGI WITH NITROPHENYL SULFONYLETHYLENE. PATENT 3,436,464.

G Losco

Us Patent Office Offic Gaz 861(1):250
01 Apr 1969 156.65 OF2

Chemical control (plant diseases), Ethylene, Fungicides, Fungus diseases (plants), Methodology, Sulfonic acids.

11997-69

GNOMONIA ERYTHROSTOMA (PERS.) AUERSW.- A PARASITE OF THE APRICOT TREE (PRUNUS ARMENIACA L.). (SE)

M Martinovic

Zastita Bilja 18(93/95):199-205
1967 464.8 Z1

Apricots, Fungus diseases (plants), Gnomonia erythrostoma, Symptomatology, Trichothecium roseum. French summary.

11998-69

UROMYCES MINOR SCHROET. VAR. ARMORICANA NOV. VAR. ON TRIFOLIUM PATENS SCHREB. (FR)

M Massenot

Rev Mycol 33(1):38-42 MAP
01 Jul 1968 450 AN74

Clover, Fungus diseases (plants), Mycology, Plant geography, Rust, Uromyces minor. Latin summary.

11999-69

INHERITANCE IN THE OAT STRAIN C.I. 3034 OF ADULT PLANT RESISTANCE TO RACE C 10 OF STEM RUST.

R I H Mckenzie J W Martens

Crop Sci 8(5):625-627
Sep 1968 64.8 C883

Chlorophylls, Genes, Oats, Plant disease resistance, Plant diseases, Plant genetics, Stem rust.

- 12000-69**
CUCUMBER DISEASES.
 N E McGlohan
Ga Univ Coll Agr Ext Serv Circ (69):3P
 Dec 1968 275.29 G29C
 Angular leafspot, Anthracnose, Chemical control (plant diseases), Cucumbers, Cultural control (plant diseases), Downy mildew, Fungicides, Fungus diseases (plants), Gummy stem blight, Plant disease resistance, Powdery mildew, Scab. Several fungicides are listed and directions for their use are given.
- 12001-69**
BUNCH GRAPE DISEASES.
 N E McGlohan
Ga Univ Coll Agr Ext Serv Circ (43):3P
 Dec 1968 275.29 G29C
 Anthracnose, Black rot, Bordeaux mixture, Chemical control (plant diseases), Cultural control (plant diseases), Downy mildew, Fungicides, Fungus diseases (plants), Grapes, Powdery mildew.
- 12002-69**
RESISTANCE TO PHYTOPHTHORA CACTORUM AMONG OPEN-POLLINATED SEEDLINGS OF APPLE VARIETIES AND SPECIES.
 D L McIntosh
Amer Soc Horticul Sci Proc 93:71-76
 Dec 1968 81 SO12
 Apples, Crop varieties, Crown rot, Fungus diseases (plants), Phytophthora cactorum, Plant disease resistance, Pollination, Seedlings.
- 12003-69**
DECAY OF WOOD AND WOOD FIBERBOARDS BY COMMON FUNGI IMPERFECTI.
 W Merrill
Holz Organ 1:69-76 REF
 1966 QK604.H6
 Aspergillus, Fiberboard, Fungus diseases (plants), Penicillium, Wood, Wood decay, Wood destroying fungi. German and French summaries.
- 12004-69**
TECHNIQUE OF ARTIFICIAL INOCULATION OF SEED-CORN WITH FUNGI FUSARIUM. (FR)
 P M Molot J Simone
Rev Zool Agr Appl 66(1-3, 1ST TRIMESTER):29-32
 1967 410.9 SO12
 Corn, Fungus diseases (plants), Fusarium, Methodology, Seedlings.
- 12005-69**
BARLEY DISEASES AND THEIR CONTROL.
 J G Moseman
U S D A Agr Handb (338):45-60
 Mar 1968 1 AG84AH
 Bacterial diseases (plants), Barley, Chemical control (plant diseases), Cultural control (plant diseases), Fungicides, Fungus diseases (plants), Plant disease resistance, Seed treatment, Virus diseases (plants). Many plant diseases are listed with their most effective control measures.
- 12006-69**
THE INFLUENCE OF WHITE ROT FUNGI ON THE ULTRASTRUCTURE OF OUTER CELL WALL LAYERS. (GE)
 V Necessary
Holz Organ 1:27-39 REF
 1966 QK604.H6
 Cell wall, Enzymes, Fungus diseases (plants), Lignin, White rot, Wood, Wood destroying fungi. English and French summaries.
- 12007-69**
STUDIES ON RESISTANCE TO THE BLACK SPOT FUNGAL DISEASE OF JAPANESE PEAR (ALTERNARIA KIKUCHIANA TANAKA). VII. THE ISOLATION OF A HOST-SPECIFIC TOXIN FROM THE NATURAL LESIONS, AND SOME CHEMICALS WHICH REDUCE ITS TOXICITY.
 M Ohkawa H Torikata
Horticultural Abs 38(4):686
 Sep 1968 241 IM74
 Alternaria kikuchiana, Biochemistry, Black spot, Fungus diseases (plants), Plant disease resistance, Toxins.
- 12008-69**
THE BAD NEWS FOR MUSHROOM GROWERS.
 R Paterson
J Agr (melbourne) 66(9):312-313
 Sep 1968 23 V66J
 Cultural control (plant diseases), Dieback, Fungi, Mushrooms, Virus diseases (plants).
- 12009-69**
FORESTRY QUARANTINE AND ITS BIOLOGICAL BACKGROUND.
 D H Phillips D Bevan
Great Brit Forest Comm Forest Rec (63):1-12 REF
 1967 99.9 G795FO
 Disease transmission, Forestry, Plant quarantine, Tree diseases.
 The need for controlling the spread of pests by man through quarantine and sanitation procedures and the need for an exchange of information on forest pests and diseases in order to assess potential damage in new areas is discussed.
- 12010-69**
STUDIES IN FUNGITOXICITY, VI. FUNGICIDAL ACTIVITY OF CERTAIN 2-(SUBSTITUTED THIO)-5-(2,4-DINITROPHENYLTHIO)-1,3,4-THIADIAZOLES AND RELATED COMPOUNDS.
 M Pianka
J Sci Food Agr 19(9):502-507 REF
 Sep 1968 382 SO12
 Biochemistry, Botrytis cinerea, Cercospora melonis, Chemical control (plant diseases), Fungicides, Fusarium bulbigenum, Tables (data), Thiadiazole compounds, Toxicology, Venturia inaequalis.
- 12011-69**
THE DISRUPTION OF LYSOSOME-LIKE PARTICLES OF SOLANUM TUBEROSUM CELLS DURING INFECTION BY PHYTOPHTHORA ERYTHROSEPTICA PETHYBR.
 D Pitt C Coombes
J Gen Microbiol 53(Pt 2):197-204 REF
 Sep 1968 448.3 J823
 Esterases, Fungus diseases (plants), Histochemistry, Lysosomes, Phosphatases, Phytophthora erythroseptica, Plant biochemistry, Potatoes, Rot, Tissue culture.
- 12012-69**
NOW IS THE TIME TO CONTROL BROWN ROT.
 R L Rackham
Calif Citrogr 54(1):3
 Nov 1968 80 C125
 Brown rot, Chemical control (plant diseases), Citrus, Fruit, Fungicides, Fungus diseases (plants), Molds, Odors, Pesticides, Phytophthora, Root rot, Spraying.
- 12013-69**
BRUNCHORSTIA DIE-BACK OF CORSICAN PINE.
 D J Read
Great Brit Forest Comm Forest Rec (61):1-6
 1967 99.9 G795FO
 Cultural control (plant diseases), Dieback, Fungus diseases (plants), Pinus nigra.
 The history of the fungus disease, Brunchortia die-back, in European forests is discussed. Also included are the symptomatology, disease incidence, and cultural means for control.
- 12014-69**
POWDERY MILDEW OF STRAWBERRIES.
 Z Rebandel
Horticultural Abs 38(3):688
 Sep 1968 241 IM74
 Fungus diseases (plants), Powdery mildew, Sphaerotheca macularis, Strawberries.
- 12015-69**
CYTOSPORA LEUCOSTOMA SPORE GERMINATION. I: ENVIRONMENTAL AND CARBOHYDRATE REQUIREMENTS. II: CARBOHYDRATE AVAILABILITY IN PEACH TREE BARK.
 K G Rohrbach
Horticultural Abs 38(3):686
 Sep 1968 241 IM74
 Carbohydrates, Environment, Fungus diseases (plants), Peaches, Seed germination, Valsa leucostoma.
- 12016-69**
SEASONAL CHANGES IN SUGAR ALCOHOLS AND SUGARS IN PEACH BARK: A POSSIBLE RELATIONSHIP TO CYTOSPORA CANKER SUSCEPTIBILITY.
 K G Rohrbach N S Luepschen
Amer Soc Horticul Sci Proc 93:135-140 REF
 Dec 1968 81 SO12
 Alcohols, Bark, Canker, Chromatography, Cytospora, Fructose, Fungus diseases (plants), Glucose, Peaches, Plant disease resistance, Sucrose, Temperature.
- 12017-69**
PREVENTING TRANSMISSION OF EXOCORTIS VIRUS.
 C N Roistacher R L Blue E C Calavan
Calif Citrogr 54(3):91,100,102
 Jan 1969 80 C125
 Antiseptics, Chemical control (plant diseases), Citrus, Disease transmission, Exocortis, Heat treatment, Sodium hypochlorite, Virus diseases (plants).
- 12018-69**
SOME REMARKS ON THE CORKY TRIANGLE ABNORMALITY OF THE PEACH TREE. (FR)
 R Saunier
Phytoma 20(200,JUL-AUG):21-24
 1968 464.8 P563
 Crop varieties, Insect pests, Orchards, Peaches, Plant abnormalities, Plant disease transmission, Plant grafting, Seedlings, Seeds, Thrips, Thysanoptera, Virus diseases (plants).
- 12019-69**
VIROGEOGRAPHICAL STUDIES ON THE CLOVER PHYLLODY VIRUS AND ITS VECTORS. (GE)
 A Savulescu P G Ploaie
Phytopathol Z 58(4):315-322 REF
 Apr 1967 464.8 P562
 Aster yellows, Barley, Convolvulus arvensis, Euscelis plebejus, Geography, Insect vectors, Phyllody, Red clover, Research, Virology, Virus diseases (plants), Wheat. English summary
- 12020-69**
ELECTRON MICROSCOPICAL OBSERVATIONS ON HYPHAE OF WOOD FUNGI. (GE)
 R Schmid W Liese
Holz Organ 1:251-261 REF
 1966 QK604.H6
 Coniophora, Electron microscopes, Fomes pini, Fungus diseases (plants), Hyphae, Plant morphology, Wood, Wood destroying fungi. English and French summaries.
- 12021-69**
REINFECTION POSSIBILITIES FOR ANGULAR LEAF SPOT PATHOGEN IN CALIFORNIA COTTON.
 W C Schnathorst
Calif Agr 23(2):17-18
 Feb 1969 100 C12CAG
 Angular leafspot, California, Cotton, Xanthomonas malvacearum.
- 12022-69**
STUDIES ON THE BACTERIOSTATIC AND BACTERICIDAL ACTION OF STREPTOCYCLINE ON XANTHOMONAS ORYZAE.
 K S Shetty G Rangaswami
Mysore J Agr Sci 2(1):1-5
 1968 S19.M9

CROP PROTECTION

12023-69

Antibiotics, Bacterial blight, Bactericides, Bacteriostats, Inhibitors, Plant diseases, Rice, Streptomycin, *Xanthomonas oryzae*.

12023-69

A FRUIT ROT OF STRAWBERRIES CAUSED BY RHIZOCTONIA SOLANI.

P J Shipton

Plant Pathol 17(3):144

Sep 1968 464.8 P692

Culture media, Fungus diseases (plants), *Rhizoctonia solani*, Rot, Soil-borne plant diseases, Strawberries.

12024-69

TRANSMISSION OF BARLEY YELLOW DWARF VIRUS (BYDV) IN CEREALS BY TWO APHID SPECIES, RHOPALOSIPHUM PADI (L.) AND MACROSIPHUM MISCANTHI (TAK.).

H C Smith R W Hart L C Hurdell M Smith

New Zeal J Agr Res 11(2):500-505

May 1968 23 N4892

Barley, Disease transmission, Grain, Insect vectors, Macrosiphum, *Rhopalosiphum padi*, Virus diseases (plants), Yellow dwarf.

12025-69

RELATIONSHIP BETWEEN CITRUS LEAF-MINER (PHYLLOCNISTIS CITRELLA STAIN-TON) INJURY AND CITRUS CANKER (X-ANTHOMONAS CITRI (HASSE) DOWSON) INCIDENCE ON CITRUS LEAVES.

G S Sohi M S Sandhu

Prog Farming 5(1):66-69 REF

Mar 1968 S19.P8

Alternaria, Bacterial diseases (plants), Canker, Citrus, Fungus diseases (plants), Insect pests, Leaves, Lemons, Paecilomyces, *Phyllocnistis citrella*, Plant injuries, *Xanthomonas citri*.

12026-69

END SPOTTING AND CORKING OF AVOCADO FRUITS.

W B Storey B O Bergh

Calif Avocado Soc Yearbook 52:97-101

1968 81 C128

Avocados, Corky ringspot, Crop varieties, Environment, Plant genetics, Plant injuries, Plant physiological diseases.

12027-69

THE ETIOLOGY OF THE STRAWBERRY DISEASE CAUSED BY APHELENCHOIDES FRAGARIAE AND CORYNEBACTERIUM FASCIANS.

H Strumpel

Horticultural Abs 38(3):680

Sep 1968 241 IM74

Aphelenchoides fragariae, Bacterial diseases (plants), *Corynebacterium fascians*, Strawberries.

12028-69

SNOW-MOLD-TOLERANT WINTER WHEATS.

D W Sunderman H C Mckay

Crop Sci 8(5):630-631

Sep 1968 64.8 C883

Biochemistry, Chemical control (plant diseases), Fungicides, *Fusarium nivale*, Plant disease resistance, Plant diseases, *Typhula idahoensis*, Wheat.

12029-69

PENALTY FOR SPOT.

C A R Symes

Rhodesian Farmer 39(25):11

01 Nov 1968 24 R347

Agricultural economics, Chemical control (plant diseases), Fungicides, Fungus diseases (plants), Leaf spot, Plant protection, Spraying, Tobacco. Many sprays are suggested.

12030-69

THE RELATIONSHIP BETWEEN BEAN YELLOW MOSAIC VIRUS AND PEA MOSAIC VIRUS.

R H Taylor P R Smith

Australian J Biol Sci 21(3):429-437 REF

Jun 1968 442.8 AU72

Beans, Electron microscopy, Host range, Mosaic (bean yellow), Mosaic (peas), Peas, Serological tests, Virus diseases (plants).

12031-69

SOWBANE MOSAIC VIRUS INFECTING CHENOPODIUM TRIGONON IN QUEENSLAND.

D S Teakle

Australian J Biol Sci 21(4):649-653

Aug 1968 442.8 AU72

Australia, Chenopodium, Electron microscopy, Greenhouses, Mosaic, Serological tests, Virus diseases (plants).

12032-69

INFORMATION ON A SAP TRANSMISSIBLE, SEED-, FUNGUS- AND INSECT-BORNE NEW VIRUS OF GARDEN PEA. (GE)

V G Thottappilly H Schmutterer

Z Pflanzkrankh (pflanzenpathol) Pflanzenschutz

75(1):1-8 REF

Jan 1968 464.8 Z3

Biological transport, Chlorosis, Insect vectors, Leaf roll, Leaves, Peas, *Pisum sativum*, Sap, Virus diseases (plants). English summary

12033-69

LIGHT INTENSITY AND DURATION IN THE DEVELOPMENT OF LETTUCE TIPBURN.

T W Tibbitts R R Rao

Amer Soc Horticult Sci Proc 93:454-461

Dec 1968 81 SO12

Lettuce, Morphology, Photoperiodism, Photosynthesis, Plant diseases, Plant injuries, Tipburn.

12034-69

STUDIES ON THE CONTROL OF ENDOTHIA CANKER OF JAPANESE CHESTNUT (CASTANEA CRENATA SIEB. ET ZUCC.). INFLUENCE OF CULTIVATION ON THE DAMAGE CAUSED BY ENDOTHIA CANKER. I. INFLUENCE OF SOIL MOISTURE AND PLANTING DISTANCE.

K Uchida

Horticultural Abs 38(3):687

Sep 1968 241 IM74

Canker, *Castanea crenata*, Fungus diseases (plants), Planting, Soil moisture.

12035-69

THE SIZE EFFECT OF SAMPLE BLOCKS ON DECAY RATE OF BEECH WOOD (FAGUS CRENATA) IN LABORATORY TESTS.

A Ueyama

Holz Organ 1:301-307

1966 QK604.H6

Fagus crenata, Fungus diseases (plants), Laboratories, Research, Wood decay, Wood destroying fungi. German and French summaries.

12036-69

STUDIES ON THE SUCCESSION OF HIGHER FUNGI ON FELLED BEECH LOGS (FAGUS CRENATA) IN JAPAN.

A Ueyama

Holz Organ 1:325-332

1966 QK604.H6

Fagus crenata, Fungus diseases (plants), Logs, Soil fungi, Wood destroying fungi, Wood staining fungi. German and French summaries.

12037-69

ISOLATION OF CERCOSPORIN FROM CERCOSPORA PERSONATA.

K Venkataramani

Phytopathol Z 58(4):379-382 REF

Apr 1967 464.8 P562

Cercospora personata, Fungus diseases (plants), Leaf spot, Peanuts. German summary

12038-69

EFFECT OF TANNIC ACID AND ELLAGIC ACID ON THE INFECTIVITY OF POTATO VIRUS X IN TISSUE CULTURE.

V S Verma S P Raychaudhuri

Naturwissenschaften 55(11):546

Nov 1968 474 N213

Pathogenicity, Potatoes, Tannic acids, Tissue culture, Virus diseases (plants), Virus X.

12039-69

ON THE DECOMPOSITION OF PARTICLE BOARDS BY SOFT ROT FUNGI. (GE)

H Willeitner

Holz Organ 1:77-88 REF

1966 QK604.H6

Ceratocystis, *Chaetomium globosum*, Decomposition, Fungus diseases (plants), *Paecilomyces*, Soft rot, Wood, Wood destroying fungi. English and French summaries.

12040-69

EVALUATION OF TERRACLOR AND TERRACLOR SUPER-X FOR THE CONTROL OF RHIZOCTONIA ON POTATO IN BRITISH COLUMBIA.

N S Wright

Can Plant Dis Surv 48(3):77-81

Sep 1968 464.8 P16S

Chemical control (plant diseases), Pentachloronitrobenzene, Potatoes, *Rhizoctonia solani*.

12041-69

PATHOGENS AS ORGANISMS OUT OF PLACE.

C E Yarwood

Phytopathol Z 58(4):305-314 REF

Apr 1967 464.8 P562

Bacterial diseases (plants), Fungus diseases (plants), Parasitism, Plant physiology, Temperature, *Uromyces phaseoli*. German summary

12042-69

CONTROL OF FAIRY RING DISEASE OF THE CULTIVATED CRANBERRY.

B M Zuckerman K J Rochefort G B Rounselle

Horticultural Abs 38(3):687

Sep 1968 241 IM74

Cranberries, Fungus diseases (plants), *Marasmius oreades*, Pest control.

ARTHROPODS

12043-69

AERIAL CONTROL OF HAIRY CATERPILLAR (EUPROCTIS SIGNATA BLAY) INFESTING APPLES IN WEST PAKISTAN.

F U Ahmad S A Siddiqui

Horticultural Abs 38(3):692

Sep 1968 241 IM74

Aerial pest control, Apples, *Euproctis*, Insect pests.

12044-69

WATER-SOLUBLE FACTORS IN MELILOTUS LEAVES WHICH INFLUENCE FEEDING BY THE SWEETCLOVER WEEVIL.

W R Akeson F A Haskins H J Gorz G R Manglitz

Crop Sci 8(5):574-576

Sep 1968 64.8 C883

Absorption, Biological assay, Chromatography, Feeding, Leaves, *Melilotus infesta*, *Sitona cylindricollis*, Stimulants, Water, Yellow sweetclover.

12045-69

THE TOXICITY OF ORGANOPHOSPHORUS INSECTICIDES TO MINER MOTHS.

G N Aleksidze

Horticultural Abs 38(3):692

Sep 1968 241 IM74

Insect control, Insecticides, *Lithocolletis pyrifoliella*, Organophosphorus compounds, Toxicology.

12046-69

OBSERVATIONS ON HATCHING AND PENETRATION OF THE SMALL LARVAE OF THE FALSE PINK BALLWORM SACADODES PYRALIS DYAR. INTO THE BALLS OF COTTON. (SP)

R V Angel O Franco M

Agr Trop 23(4):211-215

Apr 1967 26 AG8

Cotton, Hatching, Insect behavior, Life cycle, *Nocuidae*, *Sacadodes pyralis*. English abstract

- 12047-69**
CURRANT AND GOOSEBERRY APHIDS.
Anonymous
Horticultural Abs 38(3):691
Sep 1968 241 IM74
Aphididae, Currants, Gooseberries, Insect control, Insect pests.
- 12048-69**
THE SCALES OF OLIVE TREES OCCURRING IN GREECE AND THEIR ENTOMOPHAGOUS INSECTS.
L C Argyriou
Inst Phyto Pathol Benaki Ann (N s)8(2):66-73
1967 464.9 AT4
Coccoidea, Crop losses, Insect identification, Insect pests, Olives, Parasitic insects, Predaceous insects. Article mentions 11 scales, 10 of their parasites and 11 of their predators.
- 12049-69**
APPLE MOTH (RECURVARIA LEUCATELLA), A LITTLE KNOWN PEST OF FRUIT TREES.
M Baggiolini
Horticultural Abs 38(3):691
Sep 1968 241 IM74
Apples, Fruit, Insect pests, Recurvaria leucateLLa, Trees.
- 12050-69**
RESEARCH ON THE MODIFICATIONS OF THE HUSKS OF BROMUS INERMIS. L. (GRAMINEAE) PROVOKED BY THE ACERIA TENUIS (NAL.) (ACARINA ERIOPHYIDAE). (FR)
E Bembassat-Ivanova P Natchev
Marcellia 34(3):183-190
Dec 1967 421 M33
Aceria, Bromus inermis, Insect pests, Parasitism, Plant anatomy, Research.
- 12051-69**
BIOCHEMICAL COMPOSITION OF HOST PLANTS OF BRASSICA OLERACEA VAR. CAPITATA L. AS RELATED TO RESISTANCE TO TRICHOPLUSIA NI HUBNER AND PIERIS RAPAE LINNE.
P S Benepal C V Hall
Amer Soc Horticult Sci Proc 91:325-330 REF
1967 81 SO12
Amino acids, Cabbage, Chromatography, Leaves, Ninhydrin reaction, Nitrogen, Pieris rapae, Pipecolic acid, Plant biochemistry, Plant pest resistance, Quantitative analysis, Trichoplusia ni, Tyrosine.
- 12052-69**
GALLS AND LARVAE OF THE EUROPEAN SPECIES OF GENERA PHYLLOCOLPA AND PONTANIA (HYMENOPTERA, TENTHREDINIDAE).
K Benes
Acta Ent Bohemoslov 65(2):112-137 REF
1968 420 C33
Gall-making insects, Growth factors, Insect morphology, Insect physiology, Larvae, Oviposition, Phyllocolpa, Plant galls, Plant physiology, Pontania, Tenthredinidae. Czech summary.
A list of host plants and of species of both genera is included.
- 12053-69**
CONTROL OF VINE BUNCH MITE THIS SEASON.
P Boxwell
Horticultural Abs 38(3):691
Sep 1968 241 IM74
Grapes, Insect control, Insect pests, Tenuipalpus.
- 12054-69**
SPIDER MITES ON SOYBEANS: INJURY AND CONTROL.
E C Carlson
Calif Agr 23(5):16-18
May 1969 100 C12CAG
Acaricides, Soybeans, Tetranychidae, Tetranychus pacificus, Tetranychus urticae.
- 12055-69**
DOUGLAS-FIR BEETLE BROOD DENSITIES AND INFESTATION TRENDS ON A NEW MEXICO STUDY AREA.
J F Chansler
Pacific Southwest Forest Range Exp Sta Res Note PSW- (125):4P
1968 A99.9 F7632US
Dendroctonus pseudotsugae, Forest insects, Infestation, Insect behavior, Insect outbreaks, Insect pests, Methodology, Plant injuries, Predaceous insects, Pseudotsuga menziesii, Pyraustidae, Sampling (statistics).
- 12056-69**
A NEW PIMIENTO FRUIT DISORDER ASSOCIATED WITH THE FEEDING OF THE LEAF-FOOTED BUG, LEPTOGLOSSUS PHYLLOPUS L.
H L Cochran
Amer Soc Horticult Sci Proc 93:470-475
Dec 1968 81 SO12
Color, Crop losses, Feeding, Insect pests, Leptoglossus phyllopus, Pimientos, Plant abnormalities, Plant injuries.
- 12057-69**
EXPERIMENTS WITH LYCTUS. (GE)
S Cymorek
Holz Organ 1:391-413 REF
1966 QK604.H6
Ecology, Insect pests, Lyctus, Lyctus africanus, Lyctus brunneus, Research, Wood. English and French summaries.
- 12058-69**
ECOLOGY AND INTEGRATED CONTROL OF SPIDER MITES IN SAN JOAQUIN VINEYARDS.
D L Flaherty C D Lynn F L Jenson D A Luvisi
Calif Agr 23(4):11
Apr 1969 100 C12CAG
Acaricides, Grape vineyards, Integrated control (insects), Tetranychidae.
- 12059-69**
TRANSMISSION OF STRAWBERRY CRINKLE VIRUS BY THE DARK STRAWBERRY APHID CHAETOSIPHON JACOBI.
N W Frazier
Horticultural Abs 38(3):682
Sep 1968 241 IM74
Chaetosiphon, Crinkle, Insect vectors, Strawberries, Virus diseases (plants).
- 12060-69**
CYCLAMEN MITE (STENEOTARSONEMUS PALLIDUS BANKS) ON CHRYSANTHEMUMS.
N French J D R Vernon H C Woodville
Plant Pathol 17(3):143
Sep 1968 464.8 P692
Chrysanthemum, Greenhouses, Insect eggs, Insect pests, Steneotarsonemus pallidus.
- 12061-69**
A CONTRIBUTION TO THE BIOLOGY OF DYSAPHIS APHIDS ON APPLE AND THEIR CONTROL.
S Grigorov
Horticultural Abs 38(3):691
Sep 1968 241 IM74
Apples, Biology, Dysaphis, Insect control, Insect pests.
- 12062-69**
PARASITISM OF CHRYSIS SHANGHAIENSIS SMITH ON CNIDOCAMPA FLAVESCENS WALKER IN KAGAWA, JAPAN (HYMENOPTERA: CHRYSIDIDAE).
K Iwata
Shikoku Entomol Soc Trans 7(4):97-100
May 1963 420 SH6
Chrysididae, Chrysis, Cnidocampa flavescens, Crop yields, Insect biology, Parasitism, Plant injuries.
- 12063-69**
VECTORS OF VIRUS DISEASES OF SUGAR BEET AND THEIR ECONOMIC IMPORTANCE IN THE BYDGOSZCZ VOIVODESHIP IN THE YEARS 1957-1965. (POL)
J Janas
Pol Pismo Entomol 37(3):517-580 MAP REF
30 Oct 1967 421 P76
Aphididae, Aphis fabae, Insect populations, Insect vectors, Piesma quadratum, Sugar beets, Virus diseases (plants). English summary.
- 12064-69**
THE INHIBITORY ACTION OF 2,4,6-TRICHLOROPHENOXY ETHANOL ON FEMALES OF RED SPIDER MITE (METATETRANYCHUS ULMI KOCH).
G Jenser
Horticultural Abs 38(3):690
Sep 1968 241 IM74
Acaricides, Insect pests, Panonychus ulmi, Trichlorophenoxyethanol, 2,4,6-.
- 12065-69**
POPULATION DENSITIES AND ECONOMIC INJURY LEVELS OF GRAPE LEAFHOPPER.
F L Jenson D L Flaherty L Chiarappa
Calif Agr 23(4):9-10
Apr 1969 100 C12CAG
Agricultural economics, Crop yields, Erythroneura, Grape vineyards, Population.
- 12066-69**
UNUSUAL DAMAGE BY CLOVER SEED WEEVILS.
J M Jones
Plant Pathol 17(3):142-144
Sep 1968 464.8 P692
Apion aestivum, Beans, Clover, Insect cages, Insect cultures.
- 12067-69**
CHERRY FLOWER MOTH.
P Journet
Horticultural Abs 38(3):692
Sep 1968 241 IM74
Agryresthia ephippella, Cherries, Flowers, Insect pests.
- 12068-69**
THE INHERITANCE OF PATHOGENICITY IN RACES 111 AND 29 OF WHEAT STEM RUST.
K N Kao D R Knott
Can J Genet Cytol 11(2):266-274 REF
Jun 1969 443.8 C16
Fungus diseases (plants), Inheritance, Plant disease resistance, Plant diseases, Plant genetics, Stem rust, Virulence, Wheat.
- 12069-69**
CONTROL OF WHEAT BULB FLY BY LARGE AREA CROPPING RESTRICTIONS.
T J Legowski F E Maskell C M Williams
Plant Pathol 17(3):129-133
Sep 1968 464.8 P692
Grasses, Hylemya coarctata, Insect dissemination, Insect ecology, Insect eggs, Plant pest control, Rye, Wheat.
- 12070-69**
EXPERIMENTS TO CONTROL WHEAT BULB FLY WITH A FLAME THROWER.
T J Legowski
Plant Pathol 17(3):133-134
Sep 1968 464.8 P692
Hylemya coarctata, Insect eggs, Mortality, Plant pest control, Weed burners.
- 12071-69**
LOSSES OF ACTIVE INSECTICIDAL ELEMENTS OF THE DRIED ROOTS OF DERRIS ELLIPTICA BENTH. UNDER THE INFLUENCE OF PREDATORS AND ESPECIALLY OF TROGOXYLON AEQUALE WOLL. (FR)
Bull Recherch Agron Gembloux (N s)3(1):15-25
1968 S5.B8

CROP PROTECTION

12072-69

Derris elliptica, Insect nutrition, Insect pests, Insecticides, Plant proteins, Roots, Rotenone, Starches, Sucrose, Trogoxylon aequale. English and German summaries.

12072-69

PARASITIZATION OF NABIS ALTERNATUS BY LEUCOSTOMA SIMPLEX IN EASTERN SOUTH DAKOTA.

W L Morrill

Entomol Soc Amer Ann 62(1):240

15 Jan 1969 420 EN82

Grain, Insect ecology, Insect pests, Leucostoma simplex, Nabidae, Nabis alternatus, Parasitic insects, Population, Predaceous insects, Tachinidae.

12073-69

THE CURRANT BORER (SYNANTHEDON TIPULIFORMIS).

W Nijveldt

Horticultural Abs 38(3):692-693

Sep 1968 241 IM74

Currants, Insect control, Insect pests, Synanthedon tipuliformis.

12074-69

REPORT OF THE SYMPOSIUM ON VIRUS DISEASES OF RICE.

S H Ou K C Ling

Int Rice Comm News Lett 16(2):14-18

Jun 1967 59.9 IN83N

Chemical control (insects), Insect vectors, Insecticides, Plant disease transmission, Reports, Rice, Symposia, Virus diseases (plants).

12075-69

APPLE APHIDS AND THE ETIOLOGY OF FIREBLIGHT DISEASE.

S B Plurad

Horticultural Abs 38(3):683

Sep 1968 241 IM74

Aphididae, Apples, Bacterial diseases (plants), Fire blight.

12076-69

CONTROL OF FOUR SPECIES OF APHIDS ON DECIDUOUS FRUIT AND NUT TREES WITH CARBOFURAN.

I A Rammer E A Kurtz P E Primer

J Econ Entomol 62(2):498-500

15 Apr 1969 421 J822

Aphididae, Aphis pomi, Apples, Carbofuran, Chemical control (insects), Chromaphis juglandicola, Dosage, Dysaphis plantaginea, Hyalopteris pruni, Plums, Spraying, Walnuts.

12077-69

A RECORD OF NATURAL ENEMIES OF FERRISIA VIRGATA CKLL. IN MADHYA PRADESH (INDIA).

R R Rawat B N Modi

Mysore J Agr Sci 2(1):51-53

1968 S19.M9

Ferrisia virgata, Insect outbreaks, Insect pests, Parasitism, Predaceous insects, Pseudococcidae. Additional less important predators and parasites are listed

12078-69

CHEMICAL CONTROL OF PINK BOLLWORM IN IMPERIAL VALLEY.

R E Rice H T Reynold R M Hannibal

Calif Agr 23(5):19

May 1969 100 C12CAG

Azinphosmethyl, Carbaryl, Chemical control (insects), Chloro-1-(2,4,5-trichlorophenyl)vinyl dimethyl phosphate, 2-, Cotton, Hydroxy-N-methyl-cis-crotonamide dimethyl phosphate, 3-, Insecticides, Pectinophora gossypiella. Other less effective insecticides were also tested.

12079-69

BIOLOGICAL STUDIES OF ARGYRESTHIA FRANCISELLA AND A. CUPRESSSELLA ON ORNAMENTAL CUPRESSACEAE.

S S Rosenthal G W Frankie C S Koehler

Entomol Soc Amer Ann 62(1):109-112

15 Jan 1969 420 EN82

BIBLIOGRAPHY

Argyresthia cupressella, Argyresthia franciscella, Cupressaceae, Foliage, Hymenoptera, Insect biology, Insect eggs, Insect pests, Larvae, Ornamental plants, Parasitic insects, Plant injuries, Yponomeutidae, Zoogeography.

12080-69

INFLUENCE OF THE QUANTITY OF INSECTICIDE PER SEED AND PER HECTARE ON SEED TREATMENTS FOR CEREAL LEAF BEETLE LARVAE CONTROL ON OATS.

R F Ruppel

J Econ Entomol 62(2):508-509

15 Apr 1969 421 J822

Carbofuran, Chemical control (insects), Dosage, Isopropoxyphenyl methylcarbamate, o-, Larvae, Oats, Oulema melanopus, Seed treatment, Systemic insecticides.

12081-69

COMPARISON TESTS OF INSECTICIDES IN THE CONTROL OF SESAMIA NONAGRIODES LEF., (LEPIDOPTERA: NOCTUIDAE) ON CORN. (FR00)

G Stavrakis T Karalazos J Mentzelos

*Inst Phyto Pathol Benaki Ann (N s)*8(2):60-65

1967 464.9 AT4

Chemical control (insects), Chlorinated hydrocarbons, Corn, DDT, Endosulfan, Endrin, Insect pests, Insecticides, Noctuidae, Phosphamidon, Sesamia nonagrioides, Testing.

12082-69

THE PHYLLOPHAGOUS LARVAE OF THE FAMILY NOCTUIDAE (LEPIDOPTERA), COLLECTED ON CORN IN NORTHERN GREECE. (FR)

G Stavrakis T Karalazos

*Inst Phyto Pathol Benaki Ann (N s)*8(2):57-58

1967 464.9 AT4

Corn, Crop losses, Insect pests, Larvae, Leaves, Leucania 1-album, Leucania loreyi, Noctuidae, Pseudaletia unipuncta, Spodoptera exigua.

12083-69

LYGUS BUG CONTROL IN COTTON THROUGH ALFALFA INTERPLANTING.

V M Stern A Mueller V Sevacherian M Way

Calif Agr 23(2):8-10

Feb 1969 100 C12CAG

Alfalfa, Cotton, Crop yields, Lygus bugs.

12084-69

A 'PHORACIDE' POWDER INSECTICIDE FOR USE IN MUSHROOM HOUSES.

B B Stoller

MGA (Mushroom Growers Ass) Bull 232:167-169

Apr 1969 80 M97

Dichlorvos, Diptera, Insecticides, Mushrooms, Organophosphorus compounds.

12085-69

THE RELATIONSHIP OF GLANDULAR HAIRS ON TOMATOES TO SPIDER MITE RESISTANCE.

A K Stoner J A Frank A G Gentile

Amer Soc Horticult Sci Proc 93:532-538

Dec 1968 81 SO12

Crop varieties, Glands (plants), Hair, Insect pests, Leaves, Oviposition, Plant pest resistance, Plant protective devices, Tetranychus cinnabarinus, Tomatoes.

12086-69

THE ECOLOGY OF COLD HARDINESS IN DIFFERENT POPULATIONS OF THE BLACK CURRANT GALL MITE, CECIDOPHYOPSIS RIBIS.

G Taksdal

Horticultural Abs 38(3):690

Sep 1968 241 IM74

Cecidophyopsis ribis, Currants, Ecology, Insect physiology, Insect populations, Temperature.

12087-69

PARASITES OF RHYACIONIA BUOLIANA AND THEIR OCCURRENCE AT DIFFERENT CROWN LEVELS OF RED PINE IN WISCONSIN.

T R Torgersen H C Coppel

Entomol Soc Amer Ann 62(1):163-169 REF

15 Jan 1969 420 EN82

Diptera, Eurytoma pini, Exeristes comstockii, Forest insects, Habrocytus thyridopteris, Hymenoptera, Hyssopus thymus, Insect ecology, Parasitic insects, Pinus resinosa, Rhyacionia buoliana, Zoogeography.

12088-69

A RECORD OF PARLATORIA PITTOSPORI MASK. (HEMIPTERA: DIASPIDIDAE) ON APPLES. (ABSTRACT).

W J Webster

Entomol Soc Queensland J 7(1):85-86

Jun 1968 420 EN823

Apples, Diaspididae, Insect pests, Insect taxonomy, Parlatoria pittospori, Zoogeography.

12089-69

ORCHARD ILLUMINATION AS A COUNTER TO THE FRUIT PIERCING MOTH.

V B Whitehead D J Rust

Horticultural Abs 38(3):692

Sep 1968 241 IM74

Apricots, Insect control, Insect pests, Lighting, Orchards, Peaches.

NEMATODES

12090-69

A NEW NEMATODE-DESTROYING HARPOSPORIUM.

C Drechsler

Amer J Bot 55(10,NOV-DEC):1251-1253

1968 450 AM36

Agar, Chlamydozoospores, Corn, Culture media, Fungus diseases (plants), Harposporium, Parasites, Plant morphology, Plant nematodes.

12091-69

EFFECT OF TEMPERATURE AND HOST ON PARATYLENCHUS NEOAMBLYCEPHALUS AND EFFECT OF THE NEMATODE ON THE HOST.

J M Fisher

Horticultural Abs 38(3):689

Sep 1968 241 IM74

Apples, Nematodes, Paratylenchus neoamblycephalus, Temperature.

12092-69

BIOLOGICAL STUDIES OF THE BLUEBERRY ROOT-KNOT NEMATODE (MELOIDOGYNE CAROLINENSIS N. SP.).

J A Fox

Horticultural Abs 38(3):689

Sep 1968 241 IM74

Biology, Blueberries, Meloidogyne carolinensis, Nematodes.

12093-69

A COMPARISON OF GENETIC RESISTANCE AND FUMIGATION FOR ROOTKNOT NEMATODE CONTROL IN POLE BEANS.

R W Hartmann

Amer Soc Horticult Sci Proc 93:397-401 REF

Dec 1968 81 SO12

Beans, Chemical control (nematodes), Dichloropropane dichloropropene mixture, Fumigation, Meloidogyne incognita, Plant genetics, Plant nematode resistance, Plant nematodes.

12094-69

THE IMPORTANCE OF NEMATOLOGICAL PROBLEMS IN VIEW OF THE INDUSTRIALIZATION OF AGRICULTURE. (FR)

M Ritter

Notiz Mal Piante (SER) 3(3/4):3-18 REF

1967 464.8 N84

Agriculture, Biological control, Chemical control (nematodes), Industrialization, Nematode control, Nematode vectors, Nematology, Plant nematodes. English and Italian summaries.

Heterodera rostochiensis, H. schachtii, Ditylenchus dipsaci, Aphelenchoides, H. avenae, and Meloidogyne are mentioned.

WEEDS

12095-69

NEW CACTUS WEED DANGER IN NATAL.

Anonymous

S Afr Sugar J 52(11):969

Nov 1968 65.8 SO8

Cactaceae, Chemical control (weeds), Eradication, Herbicides, Phenoxy acid compounds, T, 2,4,5-.

12096-69

PHYTOPATHOLOGICAL NOTES (24). CUSCUTA (CUSCUTE, CUSCUTA, DODDER, SEIDENPLANZE). (IT)

Anonymous

Agr Ital (N s)23(1 JAN-FEB):50-54

1968 16 AG8259

Arsenic compounds, Chemical control (weeds), Chlorinated hydrocarbons, Chloroprotham, Crop varieties, Cultural control (weeds), Cuscuta, Herbicides, Plant taxonomy, Sodium arsenite, Weeds.

12097-69

THE USE OF HERBICIDES IN THE MASS PRODUCTION TECHNOLOGY OF THE SUGARBEET. IN: COLLECTION OF REPORTS GIVEN AT THE INTERNATIONAL HERBICIDE CONFERENCE, PRAGUE, JUNE 21-24, 1966. (GE)

J Friedler

11-17

1966 SB951.U8

Chemical control (weeds), Costs, Cycluron, Endothal, Evaluation, Herbicides, Ipc, Methyl-2-propynyl m-chlorocarbanilate, 1-, Pyrazon, Sugar beets. Czech and Russian summaries.

12098-69

STUDIES ON PREEMERGENCE SCREENING AND MODE OF SELECTIVITY OF EXPERIMENTAL HERBICIDE 1-(3,4-DICHLOROPHENYL)-3-METHYL-2-PYRROLIDINONE.

O P Gupta

Madras Agr J 55(11):481-486

Nov 1968 22 M262

Chemical control (weeds), Chickpeas, Cowpeas, Dichlorophenyl-3-methyl-2-pyrrolidinone, 1-(3,4-), Herbicides, Pigeonpeas, Soybeans, Wheat.

12099-69

SOYBEANS: WHAT TO DO AFTER PRE-EMERGENCE.

C W Jordan

Miss Farmer 17(5):12D

May 1969 6 M6992

Chemical control (weeds), Chloroxuron, Dichlorophenoxybutyric acid, 4-(2,4-, Herbicide application, Herbicides, Linuron, Organophosphorus compounds, Phenoxy acid compounds, Soybeans.

12100-69

THE POSSIBILITIES OF USING METHYLMERCAPTOTRIAZINES FOR THE CHEMICAL CONTROL OF WEEDS IN CULTIVATED PLANTS IN AGRICULTURE AND HORTICULTURE. IN: COLLECTION OF REPORTS GIVEN AT THE INTERNATIONAL HERBICIDE CONFERENCE, PRAGUE, JUNE 21-24, 1966. (GE)

W Kramer

129-139

1966 SB951.U8

Agriculture, Chemical control (weeds), Economic plants, Herbicides, Horticulture, Tables (data), Triazines. Czech and Russian summaries. tests of several herbicides against many weeds.

12101-69

HERBICIDES AND SPRINKLER IRRIGATION IN VEGETABLE CROPS.

A H Lange M Lavalleye H Agamalian B Fischer

Collins H Kempen

Calif Agr 23(5):8-10

May 1969 100 C12CAG

Benfen, Bensulide, Crops, Dichlorophenyl-4-nitrophenyl ether, 2,4-, Dimethyl tetrachloroterephthalate, Diphenamid, Ethyl N,N-

dipropylthiocarbamate, Herbicides, Linuron, Methylsulfonyl-2,6-dinitro-N,N-dipropylaniline, 4-(, Prometryne, Trifluralin.

12102-69

WEED CONTROL FOR VEGETABLE CROPS.

Md Univ Ext Leaflet (42):2P

Jan 1968 275.29 M36EL

Chemical control (weeds), Dosage, Herbicides, Pesticide application, Vegetables. Many herbicides are suggested for use on vegetables.

12103-69

LAWN WEED CONTROL.

Mich State Univ Ext Bull (653):4P

Mar 1969 275.29 M58B

Chemical control (weeds), Herbicide application, Herbicides, Lawns, Turf. Many weeds and their chemical controls are listed.

12104-69

CHEMICAL WEED CONTROL ON SUMMER-FALLOW.

E S Molberg J R Hay

Canad J Soil Sci 48(3):255-264

Oct 1968 56.8 C162

Biochemistry, Chemical control (weeds), Fallow, Herbicides, Tillage.

12105-69

EXPERIENCES WITH THE USE OF HERBICIDES IN CABBAGE CULTURES. IN: COLLECTION OF REPORTS GIVEN AT THE INTERNATIONAL HERBICIDE CONFERENCE, PRAGUE, JUNE 21-24, 1966. (GE)

V Novakova

167-173

1966 SB951.U8

Cabbage, Chemical control (weeds), Chloroallyl diethylthiocarbamate, 2-, Herbicides, Phytotoxicity, Prometryne, Tables (data). Czech and Russian summaries.

12106-69

SUGGESTIONS FOR WEED CONTROL WITH CHEMICALS.

Tex Agr Exp Sta B- (1029):40P

1969 100 T31S

Accident prevention, Chemical control (weeds), Crops, Dairy equipment, Herbicides, Irrigation ditches, Pesticide application, Weeds. Many herbicides are suggested for use.

12107-69

THE INFLUENCE OF APPLICATION TECHNIQUES AND ENVIRONMENT ON THE ACTIVITY AND PERSISTENCE OF TRIFLURALIN. (ABSTRACT).

R D Sweet C T Dickerson D W Davis G H Yer

Weed Soc Amer Abstr 1967 MEETING:94

1967 241 W41

Agricultural engineering, Chemical control (weeds), Environment, Equipment, Herbicide residues, Pesticide application, Trifluralin.

12108-69

HERBICIDAL MIXTURE AND METHOD OF USE. PATENT 3,429,687.

E D Weil

Us Patent Office Offic Gaz 859(4):1200

25 Feb 1969 156.65 OF2

Chemical control (weeds), Halogen compounds, Herbicides, Methodology, Patents, Phytotoxicity, Sulfates.

LIVESTOCK PROTECTION

12109-69

TEA RESEARCH ASSOCIATION. ANNUAL SCIENTIFIC REPORT 1967-68.

Anonymous

Tocklai Experiment Station 12GP

1968 68.19 T56

Agricultural research, Chemical control (insects), Insect pests, Plant diseases, Reports, Tea. The arti-

cle contains information about insect pests and plant diseases.

12110-69

ON THE RELATIONSHIP BETWEEN ANIMALS AND MICROORGANISMS IN WOOD. (GE)

G Becker

Holz Organ 1:481-496 REF

1966 QK604.H6

Ambrosia, Animals, Bacteria, Coleoptera, Fungi, Microorganisms, Wood, Yeasts. English and French summaries.

12111-69

S-BENZOYLOXYMETHYL-THIAMINE ESTERS. PATENT 3,429,883.

F D'Alo A Masserini

Us Patent Office Offic Gaz 859(4):1236

25 Feb 1969 156.65 OF2

Animal nutrition, Esters, Feed, Food additives, Patents, Thiamine.

12112-69

ON THE SYMBIOSIS OF XYLOMYCETOPHAGOUS AND PHLOEOPHAGOUS SCOLYTOIDEA WITH WOOD-INHABITING FUNGI. (GE)

H Francke-Grosmann

Holz Organ 1:503-522 REF

1966 QK604.H6

Ceratocystis, Fungus diseases (plants), Insect pests, Phloem, Scolytidae, Symbiosis, Wood, Wood staining fungi, Wood-destroying insects, Xylem. English and French summaries.

12113-69

AVIAN POX VIRUS VACCINE AND PROCESS OF PREPARING SAME. PATENT 3,429,965.

E F Gelenczei H N Lasher

Us Patent Office Offic Gaz 859(4):1249

25 Feb 1969 156.65 OF2

Avian poxviruses, Duck-embryo vaccine, Patents, Tissue culture, Vaccines.

12114-69

INCREASING EGG PRODUCTION IN POULTRY BY ADMINISTERING POULTRY FEEDING THIAMINE DERIVATIVES AND POULTRY FEED COMPOSITIONS CONTAINING SAID DERIVATIVES. PATENT 3,439,095.

Y Hamada M Yoshino

Us Patent Office Offic Gaz 861(3):935

15 Apr 1969 156.65 OF2

Egg production, Feed supplements, Patents, Poultry products, Thiamine.

12115-69

HEMOSTOP. DRUGS FOR VETERINARY USE - DRUG EFFICACY STUDY IMPLEMENTATION.

H L Jr. Ley

Fed Regist 34(22):1611

01 Feb 1969 L1.451

Adrenochrome isonicotinic acid hydrazone, Blood coagulation, Drugs, Regulation (drugs), Veterinary medicine.

DISEASES

12116-69

INTERSTATE TRANSPORTATION OF ANIMALS AND POULTRY. SCABIES IN SHEEP.

J Anderson

Fed Regist 33(59):4981

26 Mar 1968 L1.451

Animals, Interstate commerce, Poultry, Scabies, Sheep.

12117-69

TOXIC EFFECTS OF PHYTOLACCA THYRSIFLORA CARURU BRAVO. (POR)

S O de Andrade

Biologico 35(3):60-63

Mar 1969 442.8 B529

Diagnosis, Livestock, Livestock diseases, Poisonous plants, Toxicology.

12118-69

12118-69

CONTROLLING COBALT DEFICIENCY IN SHEEP.

Anonymous

Farm Res News 9(58SEP/OCT):106

1968 10.5 F223

Animal nutrition, Cobalt, Deficiency diseases, Livestock diseases, Sheep.

12119-69

FOOT AND MOUTH DISEASE.

Anonymous

78-79

1968 413.9 IM7

Birds, Epidemiology, Foot-and-mouth disease, Virus diseases (animals), Wildlife diseases.

12120-69

FOOT AND MOUTH DISEASE: THE IMPORTANCE OF REPORTING SUSPECTED CASES.

Anonymous

S Pacific Bull 18(4):36-37

1968 280.8 SO89

Cattle, Disease transmission, Epidemiology, Foot-and-mouth disease, Infectious diseases, Livestock diseases, Virus diseases (animals).

12121-69

EVALUATION OF PARBENDAZOLE AS AN ANTHELMINTIC IN CATTLE.

R E Bradley

Amer J Vet Res 29(10):1979-1982

Oct 1968 41.8 AM3A

Anthelmintics, Cattle, Feed additives, Parasitism, Parabendazole, Veterinary medicine.

12122-69

ANTIGENIC ANALYSIS OF SOLUBLE TISSUE ANTIGENS FROM CHICKENS EXPOSED TO MAREK'S DISEASE AGENTS.

H C Cho L M Ringen

Amer J Vet Res 30(5):847-852 REF

May 1967 41.8 AM3A

Antigens, Avian leukosis complex viruses, Avian lymphomatosis, Chickens, Rous sarcoma virus.

12123-69

PREVENTING INFLUENZA INFECTIONS WITH BICYCLO(2.2.2)OCTANE-2-METHYLAMINE. PATENT 3,439,100.

A W Chow

Us Patent Office Offic Gaz 861(3):936

15 Apr 1969 156.65 OF2

Animal diseases, Bicyclo(2.2.2)octane-2-methylamine, Immunization, Infectious diseases, Influenza, Patents.

12124-69

PREVENTING INFLUENZA INFECTION WITH AMINOBICYCLO(3.2.2)NONANES. PATENT 3,439,102.

A W Chow

Us Patent Office Offic Gaz 861(3):936

15 Apr 1969 156.65 OF2

Aminoethylbicyclo(3.2.2)nonane, alpha-, Animal diseases, Immunization, Infectious diseases, Influenza, Patents.

12125-69

BICYCLO(3.2.1)OCTANE AMINES AS ANTI-INFLUENZA AGENTS. PATENT 3,439,101.

A W Chow

Us Patent Office Offic Gaz 861(3):936

15 Apr 1969 156.65 OF2

Amines, Animal diseases, Immunization, Infectious diseases, Influenza, Patents.

12126-69

TOXOPLASMOSIS IN THE MARMOT. (GE)

C Commichau

Kleintier-Praxis 13(5):141-144,146 REF

Jul 1968 41.8 K67

Animal diseases, Epithelial tumors, Mammals, Marmots, Rodents, Toxoplasma gondii, Toxoplasmosis, Zoological gardens.

12127-69

MECHANISM OF VIRUS ADSORPTION ON ACTIVATED CARBON.

J T Cookson

Amer Water Works Ass J 61(1):52-56 REF

Jan 1969 292.9 AM32J

Adsorption, Carbon, Hydrogen-ion concentration, Viruses, Water treatment.

Waterborne viruses may be inactivated in drinking water by the use of activated carbon. This study indicates that the viruses adsorb the carboxyl groups by electrostatic attraction.

12128-69

MASTITIS IN CATTLE AND ITS CONTROL.

Ireland Dep Agr Leaflet (113):8P

Apr 1967 10.5 IR42

California mastitis test, Cattle, Livestock diseases, Mastitis, Sanitation.

12129-69

TRICHOPHYTOSIS OF LABORATORY MICE. (RUS)

O L Drozhdin V A Dushkin

Veterinariya (12):108-109

Dec 1968 41.8 V6426

Laboratory animals, Mice, Ringworm, Trichophyton.

12130-69

GASTROINTESTINAL TRANSIT-TIMES IN NORMAL AND BLUECOMB DISEASED TURKEYS.

G E Duke H E Dziuk L Hawkins

Poultry Sci 48(3):835-842

May 1969 47.8 AM33P

Animal physiology, Bluecomb, Feeding, Gastrointestinal system, Turkeys.

12131-69

FORCE-FEEDING TURKEYS DURING BLUECOMB DISEASE.

H E Dziuk G E Duke O A Evanson D E Nelson P N Schultz

Poultry Sci 48(3):843-846

May 1969 47.8 AM33P

Animal physiology, Bluecomb, Feeding, Gastrointestinal system, Poultry diseases, Turkeys.

12132-69

BALANCES OF NAT AND KT IN NORMAL AND BLUECOMB DISEASED TURKEYS.

H E Dziuk O A Evanson

Poultry Sci 48(3):961-963

May 1969 47.8 AM33P

Biochemistry, Bluecomb, Ions, Potassium, Poultry diseases, Sodium, Turkeys.

12133-69

APPLICATION OF THE AGAR GEL TECHNIQUE IN THE DIAGNOSIS OF INFECTIOUS BOVINE RHINOTRACHEITIS.

L A Estela

Amer J Vet Res 28(127):1903-1904

Nov 1967 41.8 AM3A

Agar, Diagnosis, Infectious bovine rhinotracheitis virus, Precipitin test, Rabbits, Serum neutralization test.

12134-69

EQUINE PIROPLASMOSIS: COMPLEMENT-FIXATION TITERS OF HORSES INFECTED WITH BABESIA CABALLI.

W M Frerichs A A Holbrook A J Johnson

Amer J Vet Res 30(5):697-702

May 1967 41.8 AM3A

Babesia caballi, Erythrocytes, Horses, Parasitism, Piroplasmosis.

12135-69

NUMBER OF SALMONELLAE IN COMMERCIALY BROKEN EGGS BEFORE PASTEURIZATION.

J A Garibaldi H Lineweaver K Ijichi

Poultry Sci 48(3):1096-1101 REF

May 1969 47.8 AM33P

Eggs, Pasteurization, Salmonella, Surveys.

12136-69

THE EXCRETION OF METHYLMALONIC AND FORMIMINOGLUTAMIC ACIDS DURING THE INDUCTION AND REMISSION OF VITAMIN B12 DEFICIENCY IN SHEEP.

J M Gawthorne

Australian J Biol Sci 21(4):789-794 REF

Aug 1968 442.8 AU72

Biochemistry, Deficiency diseases, Feeding, Formiminoglutamic acid, Injections, Methylmalonic acid, Sheep, Urine.

12137-69

LEPTOSPIROSIS.

R J Gillham

Tasmanian J Agr 39(3):183-187

Aug 1968 23 T182T

Animal diseases, Human diseases, Immunization, Leptospira hyos, Leptospira pomona, Leptospirosis, Mortality, Weil's disease.

12138-69

BABESIOSOMA ANSERIS (N.SP.) INVESTIGATED IN THE GOOSE. CYGNOPSIS CYGNOIDES IN EGYPT.

M H Habiba M N El-Shabrawy

J Vet Sci U A R 4(2):189-194 REF

1967 SF604.J6

Babesiosoma anseris, Geese, Parasitism, Piroplasmosis, Poultry diseases. Arabic summary

12139-69

SOME HAEMATOLOGICAL STUDIES ON BABESIOSOMA ANSERIS (HAIBA AND EL-SHABRAWY, 1967) IN THE GOOSE, CYGNOPSIS CYGNOIDES IN EGYPT.

M H Haiba M N El-Shabrawy

J Vet Sci U A R 4(2):177-187 REF

1967 SF604.J6

Babesiosoma anseris, Blood cells, Geese, Hematology, Parasitism, Poultry diseases. Arabic summary.

12140-69

INHERITANCE OF REACTION TO PHYTOPHTHORA ROT IN THE SOYBEAN.

E E Hartwig B L Keeling C J Edwards

Crop Sci 8(5):634-635

Sep 1968 64.8 C883

Phytophthora megasperma, Plant disease resistance, Plant genetics, Rot, Soybeans.

12141-69

EFFECTS OF SIX SINGLE SPECIES OF COCCIDIA ON EGG PRODUCTION AND CULLING RATE OF SUSCEPTIBLE LAYERS.

K S Hegde W M Reid

Poultry Sci 48(3):928-932 REF

May 1969 47.8 AM33P

Chickens, Coccidiosis, Egg production, Eimeria, Poultry diseases.

12142-69

INCLUSION BODIES IN HEPATIC CYTOPLASM OF DOGS AND RATS AFTER ADMINISTERING ENDOTOXIN.

D D Holmes P D Smith

Amer J Vet Res 30(5):811-815 REF

May 1967 41.8 AM3A

Cytoplasm, Dogs, Endotoxins, Escherichia coli, Rats.

12143-69

A SEROLOGIC STUDY OF PSEUDORABIES IN SWINE.

J A Howarth

Amer Vet Med Ass J 154(12):1583-1589 REF

15 Jun 1969 41.8 AM3

California, Garbage (feed), Pseudorabies, Swine.

12144-69

VETERINARY INVESTIGATION DIAGNOSIS ANALYSIS: A SYSTEM OF INFORMATION RECORDING AND RETRIEVAL FOR VETERINARY DIAGNOSTIC LABORATORIES IN THE MINISTRY OF AGRICULTURE, FISHERIES AND FOOD.

M A Hugh-Jones D W Ivory R M Loosmore J

Gibbins

- Vet Rec* 84(12):304-307
22 Mar 1969 41.8 V641
Animals, Diagnosis, Information retrieval systems, Salmonella.
- 12145-69**
BOVINE EPIZOOTIC FEVER.
Y Inaba
Jarq 3(2):36-42 REF
1968 S19.J3
Cattle, Ephemeral fever, Virus diseases (animals).
- 12146-69**
COMPARISON IN NORMAL AND LEUKOPENIC COWS OF EXPERIMENTAL MASTITIS DUE TO AEROBACTER AEROGENES OR ESCHERICHIA COLI ENDOTOXIN.
N C Jain O W Schalm J Lasmanis
Amer Vet Med Ass J 30(5):715-724 REF
May 1967 41.8 AM3
Aerobacter aerogenes, Cattle, Escherichia coli, Mastitis.
- 12147-69**
SEROLOGIC RESPONSE OF COWS TO MYCOPLASMA UNDER EXPERIMENTAL AND FIELD CONDITIONS.
N C Jain D E Jasper J D Dellinger
Amer Vet Med Ass J 30(5):733-742 REF
May 1967 41.8 AM3
Antibodies, Cattle, Mastitis, Mycoplasma.
- 12148-69**
INVESTIGATIONS ON THE VIRUSES OF THE ORPHAN TYPE OCCURRING IN PIGS IN POLAND. VI. SEROLOGICAL COMPARISON OF PIG ENTEROVIRUSES LI, R3, R16, R24, R36, R59 AND C, AND OF THE VIRUSES OF HUMAN ORIGIN REO (ECHO10), AD2, ECHO1 AND ECHO2. (POL.)
T Jastrzebski J Gorski J Buczek
Lublin Univ Mariae Curie Ann Sect Dd 22:61-68
1967 512 L96AD
Enteroviruses, Human diseases, Livestock diseases, Porcine enteroviruses, Serological tests, Swine, Teschen disease, Virology, Virus diseases (animals). English and Russian summaries.
Many virus types are compared.
- 12149-69**
IMMUNODIFFUSION OF BLUETONGUE VIRUS.
M M Jochim T L Chow
Amer J Vet Res 30(1):33-41 REF
Jan 1969 41.8 AM3A
Antibodies, Antigens, Bluetongue virus, Cattle, Immunochemistry, Sheep.
- 12150-69**
TOTAL-BODY IRRADIATION OF CANINE LYMPHOMA.
R E Johnson T P Cameron R Kinard
Radiat Res 36(3):629-632
Dec 1968 334.8 R11
Dogs, Irradiation, Livestock diseases, Lymphoma, Neoplasms, Therapeutics.
- 12151-69**
NOTICE OF WITHDRAWAL OF PETITION FOR FOOD ADDITIVE SPECTINOMYCIN.
J K Kirk
Fed Regist 34(29,PT1):2063
12 Feb 1969 L1.451
Drugs, Food additives, Paracolobactrum arizonae, Poultry diseases, Regulation (drugs), Spectinomycin, Turkeys.
- 12152-69**
PATHOLOGIC CHANGES IN EDEMA DISEASE OF SWINE.
H J Kurtz M E Bergeland D M Barnes
Amer J Vet Res 30(5):791-806 REF
May 1967 41.8 AM3A
Arteritis, Brain, Edema disease, Encephalomalacia, Swine.
- 12153-69**
A GEL DIFFUSION PRECIPITIN TEST FOR BOVINE PAPILLOMA VIRUS.
K P Lee C Olson
Amer Vet Med Ass J 30(5):725-731 REF
May 1967 41.8 AM3
Antigens, Bovine papilloma virus, Cattle, Chickens, Rabbits.
- 12154-69**
NEOMYCIN SULFATE WITH VITAMINS A AND D FOR OPHTHALMIC USE. DRUGS FOR VETERINARY USE; DRUG EFFICACY STUDY IMPLEMENTATION.
H L Ley
Fed Regist 34(38):2623
26 Feb 1969 L1.451
Bacteria, Dosage, Drug therapy, Drugs, Eyes, Neomycin sulfate, Ophthalmology, Veterinary medicine, Vitamin A, Vitamin D.
- 12155-69**
ANTIBODY RESPONSES OF COYOTES INOCULATED WITH VENEZUELAN EQUINE ENCEPHALITIS VIRUS.
D L Lundgren K L Smart
Wildlife Dis Ass Bull 5(1):39-42
Jan 1969 41.9 W64B
Antibodies, Coyotes, Venezuelan equine encephalitis virus, Virus diseases (animals), Wildlife diseases.
- 12156-69**
THE EFFECT OF MALACHITE GREEN AS A FUNGICIDE.
R Martin
Ohio J Sci 68(2):118-121
Mar 1968 410 OH3
Biological assay, Fish, Fungi, Fungicides, Malachite green.
- 12157-69**
INNERVATION OF HEART OF DOMESTICATED ANIMALS: PIG.
J McKibben R Getty
Amer J Vet Res 30(5):779-789
May 1967 41.8 AM3A
Heart, Livestock, Swine.
- 12158-69**
EXPERIMENTAL PATHOGENESIS OF LEPTOSPIRAL ABORTION IN CATTLE.
J C Murphy R Jenson
Amer Vet Med Ass J 30(5):703-713 REF
May 1967 41.8 AM3
Cattle, Fetus, Leptospira pomona.
- 12159-69**
DRY COW THERAPY AS A MEANS OF CONTROLLING BOVINE MASTITIS.
J K L Pearson C L Wright
Vet Rec 84(12):294-298 REF
22 Mar 1969 41.8 V641
Bovine mastitis, Cattle, Therapeutics.
- 12160-69**
VIRAL DISEASES OF THE CAT.
J Prydie
Inst Anim Tech J 19(4):176-181 REF
Dec 1968 QL55.15
Animal histology, Cats, Enteritis, Feline infectious enteritis, Feline rhinotracheitis virus, Picornaviruses, Respiratory diseases, Virus diseases (animals).
- 12161-69**
ATTEMPTS TO RELATE BOVINE PAPILLOMA VIRUS TO THE CAUSE OF EQUINE SARCOID: EQUIDAE INOCULATED INTRADERMALLY WITH BOVINE PAPILLOMA VIRUS.
W L Raglund G R Spencer
Amer Vet Med Ass J 30(5):743-752 REF
May 1967 41.8 AM3
Bovine papilloma virus, Horses, Neoplasms.
- 12162-69**
RESEARCH ON THE RESISTANCE OF MICROFILARIAE OF DIROFILARIA REPENS AT DIFFERENT TEMPERATURES. (IT)
R Restani
Parassitologia 10(1):75-83 REF
Jul 1968 436.8 P212
Blood parasites, Dirofilaria repens, Dogs, Microfilariae, Mortality, Temperature. English summary.
- 12163-69**
CROOKED CALF DISEASE.
C W Rimbey
Calif Agr 23(5):7-8
May 1969 100 C12CAG
Calves, Crooked calf disease, Grazing, Lupine.
- 12164-69**
THE EFFECT OF DIBROMOXYQUINOLINE AND IODOCHLOROXYQUINOLINE OF SALMONELLOSIS IN MICE.
O Ringertz L O Mentzing
Acta Pathol Microbiol Scand 74(3):414-420 REF
1968 448.3 AC8
Bacteria, Dibromoxyquinoline, Drug therapy, Drugs, Infectious diseases, Intestines, Iodochloroxyquin, Mice, Salmonella typhimurium, Salmonellosis, Spectra.
- 12165-69**
COMPOSITIONS AND METHODS FOR CONTROLLING COCCIDIOSIS IN POULTRY WITH 2,4-DISUBSTITUTED BENZAMIDE. PATENT 3,429,969.
E F Rogers R L Clark
Us Patent Office Offic Gaz 859(4):1250
25 Feb 1969 156.65 OF2
Benzamides, Coccidiosis, Drugs, Patents, Poultry diseases.
- 12166-69**
MIXED HEMADSORPTION TECHNIQUE FOR STUDY OF AVIAN LEUKOSIS-SARCOMA VIRUSES: STANDARDIZATION OF THE TECHNIQUE.
C R Rossi D Segre
Amer J Vet Res 30(5):821-829 REF
May 1967 41.8 AM3A
Avian leukosis complex viruses, Blood, Chickens, Rous sarcoma virus.
- 12167-69**
MIXED HEMADSORPTION TECHNIQUE FOR STUDY OF AVIAN LEUKOSIS-SARCOMA VIRUSES: STUDIES WITH AVIAN LEUKOSIS VIRUSES.
C R Rossi D Segre
Amer J Vet Res 30(5):831-836 REF
May 1967 41.8 AM3A
Avian leukosis complex viruses, Blood, Chickens, Rous sarcoma virus.
- 12168-69**
IMPORTANCE OF THE BURSA OF FABRICIUS IN RESISTANCE TO DISEASE. 2. RESISTANCE TO TWO BACTERIAL DISEASES.
R Sadler S A Edgar
Poultry Sci 48(3):1090-1096 REF
May 1969 47.8 AM33P
Bursa, Chickens, Escherichia coli, Fabricius, Immunity, Poultry diseases, Salmonella typhimurium.
- 12169-69**
ELECTROPHORETIC ANALYSIS OF SERUM PROTEINS OF CHICKENS EXPERIMENTALLY INFECTED WITH MAREK'S DISEASE AGENT.
B Samadieh R A Bankowski E J Carroll
Amer J Vet Res 30(5):837-846 REF
May 1967 41.8 AM3A
Avian lymphomatosis, Chickens, Immunity.
- 12170-69**
EFFECTS OF A PATHOGENIC PORCINE ADENOVIRUS ON PORCINE KIDNEY CELL CULTURE.
J A Shadduck L Kasza A Koestner
Amer J Vet Res 30(5):771-778 REF

May 1967 41.8 AM3A

Adenoviruses, Antigens, Swine.

12171-69

PROBLEM OF AVIAN LEUKOSIS IN LAHORE.

S A Sheikh M Ahmad K A Tahir

Pakistan J Sci 19(516,SEP-NOV):212-217 REF 1967 475 P172

Avian leukosis complex, Disease control, Epidemiology, Pakistan, Poultry diseases, Virus diseases (animals).

12172-69

EQUINE BABESIOSIS: DIAGNOSIS BY BENTONITE AGGLUTINATION AND PASSIVE HEMAGGLUTINATION TESTS.

S Sibinovic K H Sibinovic M Ristic

Amer Vet Med Ass J 30(5):691-695

May 1967 41.8 AM3A

Dogs, Horses, Piroplosmosis, Rats.

12173-69

RHEUMATOID ARTHRITIS OF SWINE: A COMPARATIVE PATHOLOGIC STUDY OF CLINICAL SPONTANEOUS REMISSIONS AND EXACERBATIONS.

D Sikes L T Crimmins O J Fletcher

Amer J Vet Res 30(5):753-769 REF

May 1967 41.8 AM3A

Arthritis, Erysipelothrix insidiosa, Swine.

12174-69

A MILESTONE IN MG CONTROL.

W S Staples

Merck Agr Memo (43,WINTER):1-3

1969 41.8 M53

Antibiotics, Drug therapy, Eradication, Fungus diseases (animals), Mycoplasma gallisepticum, Poultry diseases, Sanitation.

12175-69

FUNGICIDAL ACTION OF THIABENDAZOLE. ITS PROVIDENTIAL EFFICACY AGAINST PYPHOMYCES CHARTERON, THE CAUSAL AGENT OF ENZOOTIC FACIAL ECZEMA OF SHEEP IN NEW ZEALAND. (FR)

F Staron

Acad Vet France Bull 41(7):309-310

Jul 1968 41.9 R24

Basidiomycetes, Fungicides, Fungus diseases (animals), Livestock diseases, Sheep, Thiazolyl)-benzimidazole, 2-(4-.

12176-69

HYPERVITAMINOSIS A AND BONE DEFORMITIES IN TURKEYS AND CHICKENS. (ABSTRACT).

R H Thayer E C Welson

Fed Amer Soc Exp Biol Fed Proc 27(2):310

Mar 1968 442.9 F31P

Animal abnormalities, Animal nutrition, Bones, Chickens, Enzymes, Growth factors, Hypervitaminosis A, Lysosomes, Poultry diseases, Retinyl palmitate, Turkeys, Vitamin A.

12177-69

A COMBINED BOVINE PARAINFLUENZA AND ADENOVIRUS VACCINE.

G W Tribe A D Kanarek J B Kerry G White

Vet Rec 84(12):299-303

22 Mar 1969 41.8 V641

Adenoviruses, Cattle, Parainfluenza, Viral vaccines.

12178-69

SALMONELLA INFECTION OF CRACKED EGGS.

D V Vadehra R C Baker H B Naylor

Poultry Sci 48(3):954-957

May 1969 47.8 AM33P

Chickens, Eggs, Salmonella typhimurium.

12179-69

COMPOSITIONS AND A METHOD FOR THE PREVENTION AND CONTROL OF HISTOMONIASIS WHICH EMPLOY A 5-NITROIMIDAZOLE AND A BENZENEARSONIC ACID. PATENT 3,439,097.

R D Vatne R R Baron

Us Patent Office Offic Gaz 861(3):936

15 Apr 1969 156.65 OF2

Benzeneearsonic acid, Blackhead, Drug therapy, Methodology, Nitroimidazole, 5-, Patents, Poultry diseases.

12180-69

AFTER-EFFECTS OF PHOSPHORUS DEFICIENCY. (RUS)

V N Veretennikov

Veterinariya (12):81-82

Dec 1968 41.8 V6426

Animal diseases, Deficiency diseases, Phosphorus.

12181-69

MINOR CAUSES OF DAMAGE TO PELTS.

G W Vivian

Spur 2(6):36-37

Jun 1968 S544.5.A83S6

Animal diseases, Facial eczema, Foreign trade, Fungus diseases (animals), Hides, Lesions, Liver diseases, Ringworm, Scald.

12182-69

FOOT-AND-MOUTH DISEASE: BRITAIN STRIVES TO CURB EPIDEMIC.

J Walsh

Science 158(3807):1435-1437

15 Dec 1967 470 SC12

Costs, Disease control, Epidemiology, Foot-and-mouth disease, Immunization, Infectious diseases, Livestock diseases, Meat, Regulations, Slaughtering, Trade barriers, Vaccines, Virus diseases (animals).

12183-69

TETANUS IN A GREY SQUIRREL.

G Wobeser

Wildlife Dis Ass Bull 5(1):18

Jan 1969 41.9 W643

Animal diseases, Clostridium tetani, Spasms, Squirrels, Tetanus, Wildlife diseases.

12184-69

SEARCH FOR NATURAL NIDALITY OF INFLUENZA AND PARAINFLUENZA VIRUSES IN ILLINOIS.

G T Woods P R Schnurrenberger R J Martin M S Zinzilieta

Amer J Vet Res 30(5):869-874 REF

May 1967 41.8 AM3A

Influenza, Livestock, Myxoviruses, Parainfluenza, Wildlife.

12185-69

NI-ACETYL-NI-(CYCLOPROPYL-2-PYRIMIDINYL)-SULPHANILAMIDES. PATENT 3,438,980.

M Zimmermann

Us Patent Office Offic Gaz 861(3):916

15 Apr 1969 156.65 OF2

Bacteria, Drugs, Patents, Pyrimidines, Sulfonamides.

ARTHROPODS

12186-69

ECOLOGY OF LICE ON SHEEP. VI. THE INFLUENCE OF SHEARING AND SOLAR RADIATION ON POPULATIONS AND TRANSMISSION OF DAMALINIA OVIS.

M D Murray

Australian J Zool 16(5):725-738

Nov 1968 410 AU73

Damalinia ovis, Insect dissemination, Insect ecology, Mallophaga, Sheep, Sheep shearing, Solar radiation, Temperature.

12187-69

THE USE OF PARASYMPATHOMIMETIC DRUGS TO STIMULATE SALIVATION IN THE TICK RHIPICEPHALUS APPENDICULATUS, AND THE TRANSMISSION OF THEILERIA PARVA USING SALIVA OBTAINED BY THIS METHOD FROM INFECTED TICKS.

R E Purnell D Branagan D E Radley

Parasitology 59(3):709-718

Aug 1969 448.8 P21

Animal disease transmission, Cattle, Drugs, Insect physiology, Insect vectors, Rabbits, Rhipicephalus appendiculatus, Salivary glands (insects), Theileria parva.

12188-69

MASSIVE PULMONARY ACARIASIS IN THE PIG-TAILED MACAQUE.

W B Stone J A Hughes

Wildlife Dis Ass Bull 5(1):20-22

Jan 1969 41.9 W643

Acariasis, Animal diseases, Animal histology, Culture media, Insect vectors, Lungs, Monkeys, Parasitism, Wildlife diseases.

12189-69

TRIALS WITH INSECTICIDES FOR CONTROL OF BLACK BEETLE (HETERONYCHUS ARATOR BLANCHARD) LARVAE AND ADULTS IN PASTURE.

D H Todd

New Zeal J Agr Res 10(2):278-288

May 1967 23 N4892

Chemical control (insects), Chlorinated hydrocarbons, Diazinon, Dieldrin, Endrin, Heptachlor, Heteronychus sanctae-helenae, Insecticides, Isobenzan, Organophosphorus compounds, Pastures.

12190-69

FURTHER STUDIES ON THE PLASMODIUM BERGHEI-ANOPHELES STEPHENSI- RODENT SYSTEM OF MAMMALIAN MALARIA.

J P Vanderberg R S Nussenzweig H Most

J Parasitol 54(4):1009-1016 REF

Oct 1968 448.8 J824

Animal diseases, Anopheles stephensi, Insect rearing, Insect vectors, Malaria, Plasmodium, Rodents.

PARASITES

12191-69

ANTHELMINTIC ACTIVITY OF PARBENDAZOLE IN SWINE.

J Chang R B Wescott

Amer J Vet Res 30(1):77-79

Jan 1969 41.8 AM3A

Anthelmintics, Ascaris lumbricoides suum, Feces, Helminths, Oesophagostomum, Parbendazole, Swine, Trichuris suis.

12192-69

ISOLATION OF TWO ANTIGENIC FRACTIONS FROM HYDATIC FLUID OF ECHINOCOCCUS GRANULOSUS.

J Ejden M A G Perez D Busse

Experientia 23(9):757-758 REF

15 Sep 1967 475 EX7

Antigens, Chromatography, Echinococcus granulosus, Methodology.

12193-69

NEW PARASITIC NEMATODES REPORTED IN ALPACAS (LAMA PACOS) FROM PERU, WITH A DESCRIPTION OF SPICULOPTERAGIA PERUVIANUS N. SP. (SP)

C A Guerrero C A Chavez

Bol Chileno Parasitol 22(4,OCT-DEC):147-150

REF

1967 436.9 C43

Alpacas, Camelostrongylus mentulatus, Diagnosis, Haemonchus contortus, Llamas, Nematodes, Ostertagia lyrata, Parasitism. English summary.

12194-69

CLOVER'S IMPERIAL DOG CAPSULES. DRUGS FOR VETERINARY USE; DRUG EFFICACY STUDY IMPLEMENTATION.

H L Jr. Ley

Fed Regist 34(24):1738-1739

05 Feb 1969 L1.451

Ancylostomatidae, Ascaris, Butyl chloride, n-, Dogs, Dosage, Drugs, Parasitism, Veterinary medicine.

12195-69

ANTHOL. DRUGS FOR VETERINARY USE - DRUG EFFICACY STUDY IMPLEMENTATION.
H L Jr. Ley

Fed Regist 34(22):1608

01 Feb 1969 L1.451

Ancylostomatidae, Anthol, Ascaris, Cestoda, Dogs, Drugs, Parasitism, Regulation (drugs), Veterinary medicine.

12196-69

RINGET. DRUGS FOR VETERINARY USE; DRUG EFFICACY STUDY IMPLEMENTATION ANNOUNCEMENT.

H L Jr. Ley

Fed Regist 34(25):1783-1784

06 Feb 1969 L1.451

Benzethonium chloride, Cats, Chlorides, Cyclomethycaine hydrochloride, Drugs, Parasitism, Regulation (drugs), Ringworm, Trichlorophenol, 2,4,5-, Veterinary medicine.

12197-69

WORMAL GRANULES AND WORMAL TABLETS. DRUGS FOR VETERINARY USE - DRUG EFFICACY STUDY IMPLEMENTATION.

H L Jr. Ley

Fed Regist 34(22):1613-1614

01 Feb 1969 L1.451

Ascaris, Cecal worms, Cestoda, Chickens, Dibutyltin dilaurate, Parasitism, Phenothiazine, Piperazine, Regulation (drugs), Turkeys, Veterinary medicine.

12198-69

TRANSMISSION OF THEILERIA ANNULATA BY THE CRUSHED INFECTED UNFED HYALOMMA DROMEDARII.

Z Mazlum

Parasitology 59(3):597-600

Aug 1969 448.8 P21

Animal disease transmission, Calves, Hyalomma dromedarii, Insect vectors, Ixodides, Theileria annulata.

12199-69

INCREASED LIVE WEIGHT GAIN AND WOOL WEIGHT FROM ANTHELMINTIC DRENCHING OF EWE HOGGETS IN SOUTH CANTERBURY.

C C McLeod J E Wolff

New Zeal J Agr Res 11(2):407-419 MAP REF

May 1968 23 N4892

Anthelmintics, Drenches, Sheep, Thiazolyl)-benzimidazole, 2-(4-, Wool.

12200-69

SOME OBSERVATIONS ON THE WORM BURDENS OF CALVES INFECTED DAILY WITH OSTERTAGIA OSTERTAGI.

J F Michel

Parasitology 59(3):575-595 REF

Aug 1969 448.8 P21

Animal physiology, Calves, Immunity, Nematodes, Ostertagia ostertagi, Population.

12201-69

SYSTEMS ANALYSIS OF A HOST-PARASITE INTERACTION.

L H Ractliffe H M Taylor J H Whitlock W R Lynn

Parasitology 59(3):649-661 REF

Aug 1969 448.8 P21

Environment, Haemonchus contortus, Models, Nematodes, Sheep, Statistical analysis.

12202-69

CHICKEN HELMINTHOSES AND PROSPECTS OF THEIR ERADICATION IN THE LOWER VOLGA BASIN. (RUS)

G I Rhonzina Y M Avydov

Veterinariya (12):56-58

Dec 1968 41.8 V6426

Chickens, Helminthiasis, Poultry diseases.

COMMODITY PROTECTION

STORAGE DISEASES

12203-69

THE GROWTH OF STORAGE FUNGI AND AFLATOXIN PRODUCTION IN CORN AS RELATED TO MOISTURE AND TEMPERATURE.(ABSTRACT).

J H Hunter J F Tuite

Phytopathology 57(8):816

Aug 1967 464.8 P56

Aflatoxin, Aspergillus flavus, Corn, Humidity, Molds, Storage diseases, Temperature.

12204-69

CYTOTOXIC EFFECTS OF EXTRACTS FROM GAMMA-IRRADIATED PINEAPPLES.

Y Makinen M D Upadhyaya J L Brewbaker

Nature 214(5086):413

22 Apr 1967 472 N21

Food storage, Gamma rays, Irradiation, Pineapples, Toxicology.

ARTHROPODS

12205-69

RESEARCH ON THE EFFECTIVENESS OF COBALT 60 IRRADIATION FOR THE CONTROL OF SITOPHILUS GRANARIUS AND TRIBOLIUM CONFUSUM DUV. (TU)

T Esin M Alganatay

Bitki Koruma Bulteni 8(1):39-60

Mar 1968 464.8 B542

Biological control (insects), Chemical control (insects), Cobalt isotopes, Gamma rays, Insect pests, Irradiation, Research, Sitophilus granarius, Stored products, Tribolium confusum. English summary.

12206-69

SUBTERRANEAN TERMITES: THEIR PREVENTION AND CONTROL IN BUILDINGS.

R A George H R Johnston R J Kowal

U S D A Home Gard Bull (64):30P MAP

Jan 1969 1 AG84HG

Buildings, Chemical control (insects), Insect biology, Insect ecology, Insect identification, Insecticides, Soils, Termites, Wood-destroying insects.

MICROBIAL CONTAMINATION

12207-69

INVESTIGATION INTO THE POSSIBILITY OF THE SURVIVAL OF TOXOPLASMA IN RAW SAUSAGES AND HAM. (GE)

E Scupin

Arch Lebensmittelhyg 18(1):12-16 REF

Jan 1967 41.8 L49

Food contamination, Ham, Muscles, Rodents, Sausages, Toxoplasma. German and english abstract

ENVIRONMENTAL CONTAMINATION

12208-69

PESTICIDES REMOVED FROM WATER WITH ACTIVATED CARBON.

Anonymous

Citrus Vet Mag 32(5):22

Jan 1969 80 C498

Carbon, Chlorinated hydrocarbons, Dieldrin, Filters, Pesticide residues, Water analysis, Water pollution.

12209-69

PERSISTANCE AND DECOMPOSITION OF DICHLOBENIL IN SOIL. (ABSTRACT).

J W Smith T J Sheets C I Harris

Weed Soc Amer Abstr 1967 MEETING:76

1967 241 W41

Chromatography, Decomposition, Dichlobenil, Greenhouse culture, Herbicide residues, Soil contamination.

12210-69

THE EFFECT OF HIGH LEVELS OF DIETARY DDT ON EGG PRODUCTION, MORTALITY, FERTILITY, HATCHABILITY AND PESTICIDE CONTENT OF YOLKS IN JAPANESE QUAIL.

S I Smith C W Weber B L Reid

Poultry Sci 48(3):1000-1004

May 1969 47.8 AM33P

Chlorinated hydrocarbons, DDT, Egg production, Egg yolks, Fertility, Hatching, Insecticides, Mortality, Quail.

RESIDUES

12211-69

METHOD FOR DETERMINING THE FENTHION RESIDUES IN OLIVES AND OLIVE OIL. (FR)

N C Adam

Inst Phyto Pathol Benaki Ann (N s)8(2):78-83

1967 464.9 AT4

Fenthion, Insecticide residues, Methodology, Olive oil, Olives, Organophosphorus compounds, Parathion.

12212-69

HERBICIDES HAVE LITTLE EFFECT ON PLANT-ANIMAL RELATIONSHIPS.

Anonymous

Citrus Vet Mag 32(5):10

Jan 1969 80 C498

Animals, Cacodylic acid, Chemical control (weeds), D, 2,4-, Defoliation, Herbicide application, Herbicide residues, Herbicides, Phenoxy acid compounds, Picloram, Plant ecology, T, 2,4,5-, Toxicology.

12213-69

CROP SEEDLING UPTAKE OF DDT, DIELDRIN, ENDRIN, AND HEPTACHLOR FROM SOILS.

M L Beall R G Nash

Agron J 61(4 JUL-AUG):571-575 REF

1969 4 AM34P

Absorption, Crops, Dieldrin, DDT, Endrin, Heptachlor, Insecticide residues, Seedlings, Soils.

12214-69

FENSULFOTHION AND BAYER 37289 RESIDUES ON PASTURE.

H V Brewerton M M Gibbs D C F Perrott

New Zeal J Agr Res 11(2):303-312

May 1968 23 N4892

Diethyl O-p-((methylsulfonyl)phenyl) phosphorothioate, O, Ethyl O-2,4,5-trichlorophenyl ethylphosphonothioate, O-, Insecticide residues, Pastures.

12215-69

NOTICE OF FILING OF PETITION REGARDING PESTICIDE CHEMICALS.

R E Duggan

Fed Regist 34(24):1739

05 Feb 1969 L1.451

Chemicals, Corn, Dimethyl 2,3,5,6-tetrachloroterephthalate, Food, Forage plants, Herbicides, Monomethyl 2,3,5,6-tetrachloroterephthalate, Pesticide residues, Regulation (pesticides), Tetrachloroterephthalic acid, 2,3,5,6-.

12216-69

PATHOLOGY IN REDEAR SUNFISH EXPOSED TO HYDROTHOL I91.

L L Eller

Amer Fish Soc Trans 98(1):52-59 REF

Jan 1969 414.9 AM3

12217-69

Aquatic weeds, Endothall, Fish, Fish poisons, Fisheries, Herbicide residues, Herbicides, Tissue culture, Weed control.

12217-69

TOLERANCES AND EXEMPTIONS FROM TOLERANCES FOR PESTICIDE CHEMICALS IN OR ON RAW AGRICULTURAL COMMODITIES. INSECTICIDE MIXTURE.

J K Kirk

Fed Regist 34(22):1588-1589

01 Feb 1969 L1.451

Agricultural products, Chemicals, Corn, Ethylpropylphenyl methylcarbamate, m-(1-, Insecticides, Methylbutylphenyl methylcarbamate, m-(1-, Pesticide residues, Regulation (pesticides), Tolerances.

12218-69

N'-(4-CHLORO-O-TOLYL)-N,N-DIMETHYLFORMAMIDINE. NOTICE OF ESTABLISHMENT OF TEMPORARY TOLERANCE FOR PESTICIDE CHEMICALS.

J K Kirk

Fed Regist 34(36):2518

21 Feb 1969 L1.451

Apples, Chloro-o-tolyl-N, N-dimethylformamide, N'-(4-, Insecticides, Legislation, Pesticide residues, Public health, Regulation (pesticides), Tolerances.

12219-69

EFFECTS OF SIMAZINE ALONE AND IN COMBINATION WITH HAY OR PLASTIC MULCH ON MCINTOSH APPLE TREES AND ACCUMULATION OF SIMAZINE RESIDUES.

W J Lord R A Damon B Gersten

Amer Soc Horticult Sci Proc 93:62-70 REF

Dec 1968 81 SO12

Apples, Hay mulches, Mulches, Pesticide residues, Plant physiology, Plastics, Simazine, Trees.

12220-69

DETERMINATION OF ORGANOCHLORINE INSECTICIDES IN SOILS AND WATERS.

H B Pionke G Chesters

Soil Sci Soc Amer Proc 32(6;NOV-DEC):749-759

REF

1968 56.9 SO3

Chlorinated hydrocarbons, Insecticide residues, Insecticides, Methodology, Soil extracts, Soils, Water.

12221-69

IDENTIFICATION OF METABOLITES OF DIELDRIN (HEOD) IN THE FAECES AND URINE OF RATS.

A Richardson M Baldwin J Robinson

J Sci Food Agr 19(9):524-529 REF

Sep 1968 382 SO12

Chromatography, Dieldrin, Feces, Infrared spectra, Insecticide residues, Metabolites, Rats, Urine.

TOXICOLOGY

12222-69

GONADOTROPIC HORMONES IN HENS TREATED WITH ETHYLENE DIBROMIDE.

E Almut E Mandel

Poultry Sci 48(3):957-960

May 1969 47.8 AM33P

Biochemistry, Chickens, Egg production, Ethylene dibromide, Gonadotropins, Hormones, Pesticides.

12223-69

POISONS THAT HIT AND RUN.

J M Barnes

New Scientist 38(602):619

20 Jun 1968 472 N42

Herbicide residues, Humans, Mortality, Paraquat, Poisoning, Toxicology.

12224-69

CHEMOTHERAPY OF EXPERIMENTAL ANAPLASMA MARGINALE INFECTIONS: TRI-

ALS WITH AN EXPERIMENTAL DITHIOSEMICARBAZONE (ALPHA-ETHOXYETHYLGLYOXAL DITHIOSEMICARBAZONE).

C G D Brown J K H Wilde J Berger

Brit Vet J 124(8):325-334

Aug 1968 41.8 V643

Anaplasma marginale, Cattle, Dithiosemicarbazones, Drug therapy, Microorganisms, Parasitism. French, German and Spanish summaries.

12225-69

DETRIMENTAL INSECTS AND FIGHTING AGAINST THEM. IV. TENDENCIES TO LIMIT CHEMICAL WARFARE. (PO)

W Eichler

Przeł Zool 13(2):179-183

1969 410 P95

Chemical control (insects), DDT, Insecticide residues, Insecticides, Toxicology. English abstract

12226-69

ACUTE CUTANEOUS TOXICITY OF CERTAIN ORGANOPHOSPHOROUS INSECTICIDES. II - PHOSPHAMIDON. (FR)

R Fytizas-Danielidou

*Inst Phyto Pathol Benaki Ann (N s)*8(2):47-57

REF

1967 464.9 AT4

Blood plasma, Cholinesterases, Insecticides, Laboratory animals, Lethal dose, Organophosphorus compounds, Phosphamidon, Rats, Skin, Toxicology.

12227-69

USE OF FINTROL-5 TO CONTROL UNDESIRABLE FISHES IN SHRIMP-OYSTER PONDS.

J V Huner

La Acad Sci Proc 31:58-61

31 Dec 1968 500 L932

Antimycin a, Biological assay, Chemical control (pests), Fish, Fishponds, Laboratory animals, Oysters, Residues, Shrimps, Snails, Wildlife conservation.

12228-69

CALCIUM DISODIUM EDETATE INJECTION. DRUGS FOR VETERINARY USE - DRUG EFFICACY STUDY IMPLEMENTATION.

H L Jr. Ley

Fed Regist 34(22):1609-1610

01 Feb 1969 L1.451

Calcium disodium edetate, Drugs, Injections, Lead, Livestock, Regulation (drugs), Toxicology, Veterinary medicine.

PLANT PHYSIOLOGY & BIOCHEMISTRY

12229-69

PHYSIOLOGICAL STUDIES OF GAMMA-IRRADIATED TOMATO FRUITS. III. EFFECTS ON ASCORBIC ACID CONTENT, ACIDITY AND TEXTURE.

A S Abdel-Kader L L Morris E C Maxie

Amer Soc Horticult Sci Proc 93:843-853 REF

Dec 1968 81 SO12

Ascorbic acid, Gamma rays, Hydrogen-ion concentration, Irradiation, Plant physiology, Tomatoes, Vitamins.

12230-69

JUVENILITY AS RELATED TO CHEMICAL CONTENT AND ROOTING OF STEM CUTTINGS OF PYRUS SPECIES.

N Ali M N Westwood

Amer Soc Horticult Sci Proc 93:77-82 REF

Dec 1968 81 SO12

Carbohydrates, Nitrogen, Plant biochemistry, Plant cuttings, Plant physiology, Pyrus.

12231-69

INVESTIGATIONS ON THE DECOMPOSITION CAPACITY OF WOOD DECAY FUNGI. (GE)

U Ammer W Liese

Holz Organ 1:291-299

1966 QK604.H6

Decomposition, Fungus diseases (plants), Plant physiology, Research, Wood, Wood decay, Wood destroying fungi. English and French summaries.

12232-69

HORTICULTURISTS STUDY - EFFECTS OF LONG-TERM EXPOSURE TO 2,4-D.

Anonymous

Iowa Farm Sci 23(9):12

Mar 1969 275.29 IO94

D, 2,4-, Horticulture, Pesticide application, Phenoxy acid compounds, Plant biochemistry, Plant injuries.

12233-69

CYTOLOGICAL AND MORPHOLOGICAL EVIDENCE FOR THE SINGLE-CELL ORIGIN OF VEGETATIVELY PROPAGATED SHOOTS IN THIRTEEN SPECIES OF SAINTPAULIA TREATED WITH COLCHICINE.

T Arisumi L C Frazier

Amer Soc Horticult Sci Proc 93:679-685

Dec 1968 81 SO12

Cells, Colchicine, Plant cuttings, Plant cytology, Plant morphology, Plant physiology, Polyploidy, Saintpaulia.

12234-69

SOME FACTORS AFFECTING THE IN VITRO DEVELOPMENT OF STRAWBERRY FRUITS.

Y P S Bajaj W B Collins

Amer Soc Horticult Sci Proc 93:326-333 REF

Dec 1968 81 SO12

Calyx, Gibberellic acid, Indolebutyric acid, Kinetin, Light, Naphthaleneacetic acid, Plant physiology, Plant regulators, Strawberries, Tissue culture.

12235-69

EFFECT OF PH ON THE CULTURAL BEHAVIOUR OF ISOLATED STRAINS OF IRPEX FLAVUS LK.

S Banerjee R P Purkayastha

Indian J Mycol Res 4(112):58-60

1966 450 IN29

Culture media, Growth factors, Hydrogen-ion concentration, Irpex flavus, Plant physiology, Wood destroying fungi.

12236-69

EFFECTS OF ALAR ON THE GROWTH AND DISTRIBUTION OF THE GROWTH INCREMENT IN ONE YEAR OLD APPLE TREES.

J A Barden

Amer Soc Horticult Sci Proc 93:33-39 REF

Dec 1968 81 SO12

Apples, Plant growth inhibitors, Plant physiology, Plant translocation, Succinic acid, 2,2-dimethylhydrazide, Trees.

12237-69

THE EFFECT OF 3-AMINO-1,2,4-TRIAZOLE ON THE ULTRASTRUCTURE OF PLASTIDS OF TRITICUM VULGARE SEEDLINGS.

P G Bartels T E Weier

Amer J Bot 56(1):1-7 REF

Jan 1969 450 AM36

Amitrole, Chloroplasts, Herbicides, Plant biochemistry, Plant histology, Plastids, Seedlings, Wheat.

12238-69

THE PHYSIOLOGY OF WOOD FUNGI. A SURVEY ON RECENT RESEARCH RESULTS. (GE)

W Bavendamm

Holz Organ 1:213-236 REF

1966 QK604.H6

Fungus diseases (plants), Metabolism, Plant biochemistry, Plant physiology, Research, Surveys, Wood, Wood destroying fungi. English and French summaries.

12239-69

HALOVINYL MERCURIALS AS PLANT DEFOLIANTS. PATENT 3,433,621.

H G Braxton E J Lajiness

Us Patent Office Offic Gaz 860(3):865

18 Mar 1969 156.65 OF2

Chlorides, Defoliants, Defoliation, Mercury compounds, Phytotoxicity, Plant physiology, Trichlorovinyl)mercury, bis(.

12240-69

EFFECT OF SPRAYING AND DEFOLIATION ON FLOWER SHEDDING IN YELLOW LUPINE (*LUPINUS LUTEUS* L).

W Byszewski J Szklarska

Rocz Nauk Roln 95(2):177-189

1969 20.5 R59

Defoliants, *Lupinus luteus*, Plant physiology, Seeds, Spraying. Russian and English abstracts.

12241-69

ENHANCING THE ACTIVITY OF CHEMICAL GROWTH RETARDANTS. PART ONE OF A DISCUSSION OF UNI-F529 AS IT COMPARES WITH B995 AS A CHEMICAL GROWTH RETARDANT.

H M Cathey

Florist Rev 144(3719):56-57,135

13 Mar 1969 80 W41

Dimethylhydrazide succinic acid, 2,2-, Dosage, Ornamental plants, Plant biochemistry, Plant growth inhibitors, Pyrrolidino-succinamic acid, N-.

12242-69

RESPONSE OF *DIANTHUS CARYOPHYLLUS* L. (CARNATION) TO SYNTHETIC ABSICISIC ACID.

H M Cathey

Amer Soc Horticult Sci Proc 93:560-568 REF

Dec 1968 81 SO12

Abscisic acid, *Dianthus caryophyllus*, Dosage, Plant physiology, Plant regulators.

12243-69

RESPONSE OF SOME ORNAMENTAL PLANTS TO SYNTHETIC ABSICISIC ACID.

H M Cathey

Amer Soc Horticult Sci Proc 93:693-698

Dec 1968 81 SO12

Abscisic acid, Foliar application, Ornamental plants, Photoperiodism, Plant growth inhibitors.

12244-69

EFFECT OF (2-CHLOROETHYL)TRIMETHYLAMMONIUM CHLORIDE (CCC) ON FROST RESISTANCE, YIELD, AND SEED QUALITY INDEXES OF WINTER RAPE. (PO)

A Chrominski H Belt M Michniewicz

Rocz Nauk Roln 95(2):191-196 REF

1969 20.5 R59

Chloroethyl)trimethylammonium chloride, (2-, Crop yields, Frost, Plant resistance, Rape, Seeds. Russian and English abstract

12245-69

THE ENZYMES HYDROLYSING CARBOHYDRATES OF XYLOPHAGOUS INSECTS PARASITIC OF SOFTWOODS AND SOME OTHER FOREST TREES. (FK)

J E Courtois C Chararas

Holz Organ 1:127-150 REF

1966 QK604.H6

Carbohydrates, Conifers, Enzymes, Hydrolysis, Insect pests, Parasitism, Plant biochemistry, Trees. English and German summaries.

12246-69

DISTRIBUTION AND REUSE OF NITROGEN IN WOOD-DESTROYING FUNGI.

E B Cowling W Merrill

Holz Organ 1:269-274 REF

1966 QK604.H6

Clitocybe tabescens, *Fomes applanatus*, *Fomes fomentarius*, *Lenzites trabea*, Nitrogen, Plant biochemistry, Plant translocation, *Polyporus versicolor*, Wood destroying fungi. German and French summaries.

12247-69

CHEMICAL MODIFICATION OF WOOD DURING MICROBIAL DETERIORATION.

E B Cowling

Holz Organ 1:91-102 REF

1966 QK604.H6

Enzymes, Fungus diseases (plants), Plant biochemistry, Polymerization, Wood, Wood properties. German and French summaries.

12248-69

ANTITRANSPIRANTS: USES AND EFFECTS ON PLANT LIFE.

D C Davenport R M Hagan P E Martin

Calif Agr 23(5):14-15

May 1969 100 C12CAG

Irrigation, Pest control, Phenylmercuric acetate, Plant regulators, Plant transpiration, Spraying, Stomata.

12249-69

GROWTH AND FLOWERING RESPONSES OF APPLE AND PEAR SEEDLINGS TO GROWTH RETARDANTS AND SCORING.

F G Dennis

Amer Soc Horticult Sci Proc 93:53-61 REF

Dec 1968 81 SO12

Apples, Chloroethyl)trimethylammonium chloride, (2-, Pears, Plant growth inhibitors, Plant physiology, Plant regulators, Seedlings, Succinic acid, 2,2-dimethylhydrazide, Tributyl(2,4-dichlorobenzyl)phosphonium chloride.

12250-69

TESTS AIMED AT THE DETERMINATION OF THE SENSITIVITY OF FRUIT TREES TO SIMAZINE. IN: COLLECTION OF REPORTS GIVEN AT THE INTERNATIONAL HERBICIDE CONFERENCE, PRAGUE, JUNE 21-24, 1966. (GE)

J Dvorak

121-127

1966 SB951.U8

Chlorosis, Fruit, Herbicides, Plant injuries, Simazine, Tables (data), Trees. Czech and Russian summaries.

12251-69

HERBICIDAL ACTIVITY OF 1-(3-CHLORO-4-METHYLPHENYL)-3-METHYL-2-PYRROLIDINONE. (ABSTRACT).

Y Eshel

Weed Soc Amer Abstr 1967 MEETING:49

1967 241 W41

Chloro-4-methylphenyl)-3-methyl-2-pyrrolidinone, 1-(3-, Greenhouse culture, Herbicides, Photosynthesis, Plant biochemistry.

12252-69

CONTROL OF FUNGI WITH O,O-DIMETHYL-S-

TRICHLOROMETHYLPHOSPHORODITHIOATE PATENT 3,439,092.

R B Fearing M B McClelland

Us Patent Office Offic Gaz 861(3):935

15 Apr 1969 156.65 OF2

Dimethyl-S-trichloromethylphosphorodithioate, O,O-, Fungi, Fungicides, Organophosphorus compounds, Patents.

12253-69

EFFECT OF TRIFLURALIN AND MELOIDOGYNE HAPLA CHITWOOD ON GROWTH OF VINCA MAJOR L.

L H Fuchigami D H MacDonald

Amer Soc Horticult Sci Proc 93:686-692

Dec 1968 81 SO12

Chemical control (nematodes), Herbicides, Meloidogyne hapla, Plant growth inhibitors, Plant nematodes, Plant physiology, Trifluralin, *Vinca major*.

12254-69

PRELIMINARY INVESTIGATION ON WATER BERRY - ANOTHER VINE DISEASE FOUND IN MAHARASHTRA.

J B Ghugare

Horticultural Abs 38(3):680

Sep 1968 241 IM74

Berries, Climbing plants, Plant physiology, Research.

12255-69

EFFECT OF IRON AND MANGANESE DEFICIENCY ON THE CHLOROPHYLL, AMINO ACID AND ORGANIC ACID STATUS OF LEAVES OF MACADAMIA.

I M Gilfillan W W Jones

Amer Soc Horticult Sci Proc 93:210-214 REF

Dec 1968 81 SO12

Amino acids, Chlorophylls, Chlorosis, Iron, Leaves, *Macadamia tetraphylla*, Manganese, Plant biochemistry, Plant nutritional deficiencies.

12256-69

SIZE DIFFERENCES OF NUCLEI IN MERISTEM OF ELODEA TREATED WITH VARIOUS CONCENTRATIONS OF MONOCHLOROACETIC ACID, DICHLOROACETIC ACID, AND TRICHLOROACETIC ACID.

F S Gooch

La Acad Sci Proc 31:78-81

31 Dec 1968 500 L932

Cell nucleus, Chloroacetic acid, Dosage, *Eloдея densa*, Plant biochemistry, Plant physiology, Stems, Tissues.

12257-69

CONFERRED RESISTANCE IN THE HOST.

F Grossman

World Rev Pest Contr 7(4,WINTER):176-183

REF

1968 79.8 W89

Chemical control (plant diseases), Fungicides, Fungus diseases (plants), Plant disease resistance, Plant protection, Plant tissues.

12258-69

EFFECTS OF ALAR ON MORPHOLOGY, CHLOROPHYLL CONTENT, AND NET CO₂ ASSIMILATION RATE OF YOUNG APPLE TREES.

R G Halfacre J A Barden H A Rollins

Amer Soc Horticult Sci Proc 93:40-52 REF

Dec 1968 81 SO12

Apples, Carbon dioxide, Chlorophylls, Plant growth inhibitors, Plant morphology, Plant physiology, Plant translocation, Succinic acid, 2,2-dimethylhydrazide, Trees.

12259-69

ETHYLENE-ITS EFFECT ON FLOWER CROPS.

R F Hasek H A James

Florist Rev 144(3722):16-17,53-55 REF

03 Apr 1969 80 W41

Ethylene, Horticulture, Ornamental plant culture, Plant physiology, Plant protection, Poisonous gases.

12260-69

GROWTH OF YOUNG PEACH TREES AS AFFECTED BY PREPLANT FUMIGANT TREATMENTS.

R A Hayden E F Savage V E Prince

Amer Soc Horticult Sci Proc 93:119-127 REF

Dec 1968 81 SO12

Fumigants, Peaches, Pesticide application, Plant physiology, Planting, Trees. The following fumigants were studied: Fumazone, ethylene dibromide, methyl bromide, Telone, Doralone, Mylone, Vapam, ureaformaldehyde, and D-D.

12261-69

PHOTOPERIODISM AFTER 50 YEARS.

S B Hendricks

Wash Acad Sci J 58(4):69-74 REF

Apr 1968 500 W276J

Chromoproteins, History, Photoperiodism, Plant hormones, Research.

The author briefly summarizes the research on photoperiodism since 1918. Plant hormones and their uses in agriculture are discussed.

12262-69

ORANGE FRUIT-STEM SEPARATION: CHEMICAL INFLUENCES.

H Z Hield L N Lewis R L Palmer

Calif Agr 23(5):12-13

12263-69

May 1969 100 C12CAG

D, 2,4-, Harvesting, Indoleacetic acid, Naphthaleneacetic acid, Oranges, Plant regulators.

12263-69

ESTABLISHMENT AND MAINTENANCE OF LADINO WHITE CLOVER IN THE BLACK BELT.

C C King L A Smith H W Grimes

Highlights 15(3):4 FALL

1968 100 ALIH

Biochemistry, Captan, Crop yields, Dalapon, Fungicides, Insecticides, Irrigation, Pentachloronitrobenzene, Soils, White clover.

12264-69

MUTATION INDUCTION IN MELILOTUS ALBA ANNUA BY CHEMICAL MUTAGENS.

A Kleinhofs H J Gorz F A Haskins

Crop Sci 8(5):631-632

Sep 1968 64.8 C883

Biochemistry, Ethyl methanesulfonate, Hubam sweetclover, Mutation, Plant physiology, Seedlings.

12265-69

GROWTH RETARDANTS IN RELATION TO THE GERMINATION OF SEEDS. VI. GERMINATION AND GROWTH OF CAULIFLOWER AS AFFECTED BY COUMARIN, CCC, PHOSFON D AND KINETIN. (PO)

J S Knypl A Bilecka T Slupek

Rocz Nauk Roln 95(2):167-175 REF

1969 20.5 R59

Cauliflower, Chloroethyltrimethylammonium chloride, (2-, Coumarin, Kinetin, Plant growth inhibitors, Plant physiology, Seed germination, Tributyl(2,4-dichlorobenzyl)phosphonium chloride. Russian and English abstracts.

12266-69

BIOASSAY DETERMINATION OF GAMMA-BHC ABSORBED FROM SOIL AND TRANSLOCATED IN POTTED RICE PLANTS.

L T Kok M D Pathak

Int Rice Comm News Lett 16(2):27-34

Jun 1967 59.9 IN83N

Absorption, Benzene hexachloride, Biological assay, Chlorinated hydrocarbons, Lindane, Plant biochemistry, Plant pest control, Plant physiology, Plant translocation, Rice, Soils.

12267-69

RESIDUAL EFFECT OF CYCOCEL IN POINSETTA HEIGHT CONTROL.

R A Larson M L McIntyre

Amer Soc Horticult Sci Proc 93:667-672

Dec 1968 81 SO12

Cycocel, Euphorbia pulcherrima, Plant growth inhibitors, Plant physiology.

12268-69

AUTOMATED DIFFERENTIAL SCREENING METHOD FOR ORGANOPHOSPHORUS PESTICIDES.

D C Leegwater H W Van Gend

J Sci Food Agr 19(9):513-518 REF

Sep 1968 382 SO12

Biochemistry, Culture media, Diazinon, Enzymes, Lettuce, Malathion, Mevinphos, Organophosphorus compounds, Parathion, Pesticides.

12269-69

INTERACTION OF PHOTOPERIOD AND AUXIN METABOLISM IN ROOTING OF CHRYSANTHEMUM MORIFOLIUM CUTTINGS.

Y Leshem M Schwarz

Amer Soc Horticult Sci Proc 93:589-594 REF

Dec 1968 81 SO12

Chrysanthemum morifolium, Dichlorophenol, 2,4-, Indolebutyric acid, Photoperiodism, Plant cuttings, Plant growth inhibitors, Plant metabolism, Plant physiology, Plant regulators, Triiodobenzoic acid, 2,3,5-, Tyrosine.

12270-69

DECAY PATTERNS PRODUCED BY CHAETOMIUM GLOBOSUM IN BEECHWOOD FIBERS. A CHEMICAL AND MICROSCOPIC STUDY.

M P Levi

Holz Organ 1:119-126 REF

1966 QK604.H6

Cellulose, Chaetomium globosum, Fagus, Fungus diseases (plants), Microscopy, Plant biochemistry, Polymerization, Sugars, Wood, Wood decay. German and French summaries.

12271-69

MORPHOGENETIC RESPONSES OF TOMATO PLANTS TO COMBINED AND INDIVIDUAL APPLICATIONS OF GIBBERELIC ACID, PHOSFON AND B-NINE.

S K Majumder

Plant Soil 28(2):291-297 REF

Apr 1968 450 P696

Genetics, Gibberellic acid, Harvesting, Plant growth inhibitors, Plant morphology, Succinic acid, 2,2-dimethylhydrazide, Tomatoes, Tributyl(2,4-dichlorobenzyl)phosphonium chloride.

12272-69

THE INFLUENCE OF CERTAIN WOOD EXTRACTIVES ON THE COMPETITION BETWEEN WOOD-ROTTING FUNGI AND THE SOIL MICROFLORA. (FR)

F Mangerot

Holz Organ 1:333-342

1966 QK604.H6

Culture media, Fungus diseases (plants), Plant extracts, Plant physiology, Soil fungi, Water, Wood, Wood destroying fungi. English and German summaries.

12273-69

EFFECT OF FOLIAR APPLICATIONS OF 3-INDOLEBUTYRIC ACID ON ROOTING OF CUTTINGS OF ORNAMENTAL PLANTS.

J J McGuire L S Albert V G Shutak

Amer Soc Horticult Sci Proc 93:699-704 REF

Dec 1968 81 SO12

Foliar application, Ilex crenata, Indolebutyric acid, Ornamental plants, Plant cuttings, Plant physiology, Roots.

12274-69

AMOUNT AND DISTRIBUTION OF NITROGEN IN WOOD AND ITS INFLUENCE ON WOOD DETERIORATION.

W Merrill E B Cowling

Holz Organ 1:263-268

1966 QK604.H6

Lentizes trabea, Nitrogen, Plant biochemistry, Plant translocation, Polyporus versicolor, Wood, Wood decay. German and French summaries.

12275-69

EFFECT OF SOME GROWTH SUBSTANCES ON TRICHOLOMA GIGANTEUM MASSEE.

B Nandi S Chatterjee

Indian J Mycol Res 4(112):46-50 REF

1966 450 IN29

Culture media, Gibberellic acid, Growth factors, Indoleacetic acid, Maleic hydrazide, Mushrooms, Naphthaleneacetic acid, Plant biochemistry, Plant growth inhibitors, Tricholoma, Variance analysis.

12276-69

BIOCHEMISTRY OF LIGNIN.

F F Nord

Holz Organ 1:163-171 REF

1966 QK604.H6

Fomes annosus, Fomes fomentarius, Fomes pini, Fungus diseases (plants), Lignification, Lignin, Picea, Pinus, Plant biochemistry, Polyporus hirsutus, Polyporus versicolor, Poria subacida, White rot, Wood, Wood destroying fungi. German and French summaries.

12277-69

PHOSPHORUS AND MAGNESIUM FERTILIZER STUDIES WITH PEPPER.

H Y Ozaki J R Iley

Amer Soc Horticult Sci Proc 93:462-469 REF

Dec 1968 81 SO12

Crop yields, Dosage, Fertilizers, Magnesium, Phosphorus, Piper nigrum, Plant physiology, Plant regulators.

12278-69

THE INFLUENCE OF TEMPERATURES ON THE GROWTH OF BLUE-STAINING FUNGI. (GE)

H von Pechmann

Holz Organ 1:237-250

1966 QK604.H6

Blue stain, Fungus diseases (plants), Plant physiology, Temperature, Wood, Wood staining fungi. English and French summaries.

12279-69

GIBBERELIN-LIKE SUBSTANCES IN AFTER-RIPENING SEEDS OF PRUNUS AVIUM L. AND THEIR POSSIBLE ROLE IN DORMANCY.

J T A Proctor F G Dennis

Amer Soc Horticult Sci Proc 93:110-114

Dec 1968 81 SO12

Gibberellins, Mazzard cherries, Plant biochemistry, Seed dormancy, Seedlings.

12280-69

DROUGHT RESISTANCE OF WINTER WHEATS IN RELATION TO THEIR AMINO ACID CONTENT.

D F Protzenko I G Shmat'ko E A Rubanyuk

Soviet Plant Physiol 15(4.JUL/AUG):567-573

REF

1968 450 F58AE

Amino acids, Drought resistant plants, Plant metabolism, Proline, Wheat. Translated from *Fiziologiya Rastenii*, 15(4.Jul-Aug): 680-687, 1968. Translated from the Russian.

12281-69

ABSCISSION OF CITRUS FRUITS INDUCED BY ETHYLENE-PRODUCING CHEMICALS.

G K Rasmussen W C Cooper

Amer Soc Horticult Sci Proc 93:191-198 REF

Dec 1968 81 SO12

Abscission, Ascorbic acid, Calamondins, Citrus, Copper, Ethylene, Ethylenediaminetetraacetic acid, Hydrazine, Iron, Plant physiology, Propanil.

12282-69

INDUCTION OF COILING IN TENDRILS BY AUXIN AND CARBON DIOXIDE.

L Reinhold

Science 158(3802):791-793

10 Nov 1967 470 SC12

Carbon dioxide, Climbing plants, Ethylene, Growth factors, Indoleacetic acid, Megarrhiza californica, Plant physiology, Plant regulators, Stereotropism, Stimuli.

12283-69

GROWTH AND FRUITING RESPONSE OF YOUNG APPLE AND PEAR TREES TO ANNUAL APPLICATIONS OF SUCCINIC ACID 2,2-DIMETHYL HYDRAZIDE.

B L Rogers A H Thompson

Amer Soc Horticult Sci Proc 93:16-24

Dec 1968 81 SO12

Apples, Growth factors, Pears, Plant growth inhibitors, Plant physiology, Spraying, Succinic acid, 2,2-dimethylhydrazide.

12284-69

ON THE FUNCTION OF THE PHENOL OXIDASES OF WOOD-ROTTING FUNGI. (GE)

R Rosch

Holz Organ 1:173-185 REF

1966 QK604.H6

Fungus diseases (plants), Oxidases, Phenols, Plant biochemistry, Rot, Wood, Wood destroying fungi. English and French summaries.

12285-69

THE CAUSES OF VARIATIONS IN THE NATURAL DURABILITY OF WOOD: INHERENT FACTORS AND AGEING AND THEIR EFFECTS ON RESISTANCE TO BIOLOGICAL ATTACK.

P Rudman

Holz Organ 1:151-162 REF

1966 QK604.H6

Plant biochemistry, Plant disease resistance, Plant physiology, Wood, Wood destroying fungi, Wood durability. German and French summaries.

12286-69

FOLIAR ABSORPTION OF IRON BY CHRYSANTHEMUM AS INFLUENCED BY LIME-INDUCED CHLOROSIS.

R B Rutland M J Bukovac

Amer Soc Horticult Sci Proc 93:569-575 REF

Dec 1968 81 SO12

Absorption, Ammonium citrate, dibasic, Calcium carbonate, Chlorosis, Chrysanthemum morifolium, Ethylenediaminetetraacetic acid, Foliar application, Hydrogen-ion concentration, Iron, Lime.

12287-69

EFFECTS OF FOUR HERBICIDES ON GROWTH AND YIELD OF ORANGE TREES.

G F Ryan D W Kretchman

Amer Soc Horticult Sci Proc 93:159-165 REF

Dec 1968 81 SO12

Crop yields, Dalapon, Diuron, Ethyl N,N-dipropylthiocarbamate, Herbicides, Oranges, Plant physiology, Simazine, Trees.

12288-69

EFFECT OF SOME VITAMINS ON GROWTH OF FOMES LIVIDUS KALCHBR. IN CULTURE.

N Samajpati S Banerjee

Indian J Mycol Res 4(112):69-71 REF

1966 450 IN29

Biotin, Culture media, Fomes lividus, Growth factors, Inositol, Plant growth inhibitors, Plant physiology, Thiamine, Vitamin b6, Vitamins.

12289-69

THE EFFECT OF GIBBERELIC ACID ON DORMANCY IN SOME WOOD SPECIES.

J Sebanek

Brno Acta Univ Agr Fac Agron 15(1):15-20 REF

1967 S13.B7

Gibberellic acid, Plant dormancy, Plant physiology, Plant regulators, Wood. Czechoslovakian summary.

Gibberellin was applied to the following plant species: *Aesculus hippocastanum*, *Acer pseudoplatanus*, *Acer platanoides*, *Pirus communis*, *Tilia platyphylla*, *Robinia pseudo-acacia*, *Corylus avellana*, *Syringa vulgaris* and *Malus communis*.

12290-69

ON THE DECOMPOSITION OF WOOD CELLULOSE BY ORGANISMS. (GE)

K Seifert

Holz Organ 1:103-117 REF

1966 QK604.H6

Cellulose, Decomposition, Fungus diseases (plants), Hydrolysis, Insect pests, Plant biochemistry, Sugars, Wood. English and French summaries.

12291-69

ORGANISM INTERACTIONS IN DECAY AND DISCOLORATION IN BEECH, BIRCH, AND MAPLE.

A L Shigo

Holz Organ 1:309-324 REF

1966 QK604.H6

Acer, *Acer rubrum*, *Acer saccharum*, Bacterial diseases (plants), Betula, *Betula alleghaniensis*, *Betula papyrifera*, Ecology, Fagus, *Fagus grandifolia*, Fungus diseases (plants), Plant physiology, Wood decay, Wood destroying fungi. German and French summariesThe bacteria and fungi studied included the following: *Phialophora* spp., *Hypoxylon* spp., *Trichocladium canadense*, *Cytospora decipiens*, *Poria obliqua*, *Polyporus glomeratus*, *Fomes ignarius*, and *Pseudomonas* spp.

12292-69

THE EFFECT OF HERBICIDES ON QUALITY OF TOMATO AND SNAP BEANS.

W A Sistrunk R Talbert

Amer Soc Horticult Sci Proc 93:854-859

Dec 1968 81 SO12

Beans, Dinoseb, Diphenamid, Dosage, Ethyl N,N-dipropylthiocarbamate, Herbicides, Plant injuries, Plant physiology, Tomatoes, Trifluralin.

12293-69

LIGNOLYTIC ACTIVITY OF WHITE-ROT FUNGI.

R Sopko

Holz Organ 1:187-196 REF

1966 QK604.H6

Culture media, Fagus, Fungus diseases (plants), Lignin, Plant biochemistry, White rot, Wood, Wood destroying fungi. German and French summaries.

12294-69

RESULTS OF THE RESEARCH WORK CONCERNING THE USE OF HERBICIDES IN VEGETABLE CULTURES IN THE PEOPLES REPUBLIC OF BULGARIA. IN: COLLECTION OF REPORTS GIVEN AT THE INTERNATIONAL HERBICIDE CONFERENCE, PRAGUE, JUNE 21-24, 1966. (GE)

P Surlekow

161-165

1966 SB951.U8

Crop yields, Herbicides, Phytotoxicity, Vegetables. Czech and Russian summaries. tests of many herbicides.

12295-69

EVALUATION OF POST-EMERGENCE HERBICIDES IN THE GREENHOUSE. IN: COLLECTION OF REPORTS GIVEN AT THE INTERNATIONAL HERBICIDE CONFERENCE, PRAGUE, JUNE 21-24, 1966. (GE)

J Synak

141-151

1966 SB951.U8

D, 2,4-, Emergence, Evaluation, Greenhouse culture, Herbicides, Methyl-4-chlorophenoxybutyric acid, 4-(2-, Phenoxy acid compounds, Phenoxyacetic acid, Plant physiology, Pyrazon, Tables (data), Testing. Czech and Russian summaries.

12296-69

FRUITING AND VEGETATIVE EFFECTS OF N-DIMETHYLAMINOSUCCINAMIC ACID ON 'CONCORD' GRAPES, VITIS LABRUSCA L.

L D Tukey H K Fleming

Amer Soc Horticult Sci Proc 93:300-310 REF

Dec 1968 81 SO12

Crop yields, Dimethylaminosuccinamic acid, N-, Foliar application, Grapes, Plant growth inhibitors, Plant physiology, Spraying.

12297-69

THE ACTION OF INDOLEACETIC ACID AND KINETIN ON THE MITOTIC CYCLE OF PROLIFERATIVE AND STATIONARY PHASE EXCISED ROOT MERISTEMS.

J Vanit Hof

Exp Cell Res 51(1):167-176 REF

Jul 1968 442.8 EX7

Autoradiography, Biochemistry, Indoleacetic acid, Kinetin, Mitosis, Plant physiology, Roots, Thymidine.

12298-69

LEAF SYMPTOMS OF MANGANESE DEFICIENCY IN AVOCADO TREES.

E F Wallihan M P Miller

Amer Soc Horticult Sci Proc 93:141-144

Dec 1968 81 SO12

Avocados, Chelation, Chlorosis, Iron, Leaves, Manganese, Plant biochemistry, Plant nutritional deficiencies.

12299-69

ON THE QUESTION OF OCCURRENCE OF INDOLE-3-ACETIC ACID IN PINUS SYLVESTRIS.

T J Wodzicki

Amer J Bot 55(5,MAY-JUN):564-571 REF

1968 450 AM36

Chromatography, Indoleacetic acid, *Pinus sylvestris*, Plant biochemistry, Plant extracts, Plant regulators.

12300-69

MALEIC HYDRAZIDE INHIBITS GROWTH OF YOUNG TUNG TREES (ALEURITES FORDII, HEMSL.).

L L Wu J P Overcash

Amer Soc Horticult Sci Proc 93:235-241

Dec 1968 81 SO12

Dosage, Maleic hydrazide, Pesticide application, Plant growth inhibitors, Plant physiology, Seedlings, Spraying, Tung oil tree.

12301-69

INTERACTION OF TRIHODOBENZOIC ACID AND INDOLE-ACETIC ACID IN DEVELOPMENT AND FLOWERING OF KALANCHOE.

M A Zawawi R M Irving

Amer Soc Horticult Sci Proc 93:610-617 REF

Dec 1968 81 SO12

Indoleacetic acid, Kalanchoe, Photoperiodism, Plant morphology, Plant physiology, Temperature, Triiodobenzoic acid, 2,3,5-.

CHEMISTRY

12302-69

A SCREENING METHOD FOR ORGANOCHLORINE PESTICIDE RESIDUES USING THIN-LAYER CHROMATOGRAPHY.

D C Abbott J O Tatton N F Wood

J Chromatography 42(1):83-88 REF

03 Jun 1969 475 J824

Chlorinated hydrocarbons, Chromatography, Fats, Pesticide analysis, Pesticides, Vegetables.

12303-69

METHOD OF TREATING AVIAN LYMPHOMATOSIS INDUCED BY ES4 STRAIN OF LYMPHOMATOSIS VIRUS. PATENT 3,429,971.

P Baranger

Us Patent Office Offic Gaz 859(4):1251

25 Apr 1969 156.65 OF2

Avian lymphomatosis, Dimethyl-delta(2,6)-octadiene-8-ol, cis-2,6-, Drugs, Methodology, Patents, Viruses.

12304-69

GAS CHROMATOGRAPHIC CHARACTERISTICS OF CHLORDANE. II. OBSERVED COMPOSITIONAL CHANGES OF THE PESTICIDE IN AQUEOUS AND NON-AQUEOUS ENVIRONMENTS.

A Bevenue C Y Yeo

J Chromatography 42(1):45-52 REF

03 Jun 1969 475 J824

Chlordane, Chromatography, Heptachlor, Pesticide analysis.

12305-69

PESTICIDES.

S Bridges

Chem Market Abs 61(1):31-33

Jan 1969 309.8 C42

Agricultural industries, Antiseptics, Bactericides, Chemical control (pests), Herbicides, Insecticides, Methodology, Pesticides. New pesticide chemicals are described.

12306-69

N,N'-ALKYLENEBIS(2-NITRO-(LOWER-ALKANAMIDES)). PATENT 3,429,918.

P M Carabateas

Us Patent Office Offic Gaz 859(4):1242

25 Feb 1969 156.65 OF2

Amides, Anthelmintics, Hormones, Patents.

12307-69

PHENOXY PYRIDINES AS HERBICIDES. PATENT 3,429,689.

D Duerr O Rohr H Hebi L Ebner

Us Patent Office Offic Gaz 859(4):1201

25 Feb 1969 156.65 OF2

Chemical control (weeds), Herbicides, Patents, Phenols, Pyridine compounds.

12307-69

12308-69
1-HALO-1-NITRO DISULFIDES. PATENT
3,429,931.

J G E Fenyes G K Kohn

Us Patent Office Offic Gaz 859(4):1244

25 Feb 1969 156.65 OF2

Fungicides, Halogen compounds, Patents, Sulfides.

12309-69

STUDY ON THE DETERMINATION OF THE
MOISTURE CONTENT IN THE FUNGICIDES
WITH A DITHIOCARBAMIC BASE. (FR)

P Grandjean

Bull Recherch Agron Gembloux (N s)3(1):101-127 REF

1968 S5.B8

Dithiocarbamic acid, Ferbam, Fungicides, Maneb, Methodology, Moisture content, Thiocarbamates, Thiram, Zineb, Ziram.

12310-69

EFFECT OF AFLATOXIN AND BENZOPYRENE
PRETREATMENT UPON THE KINETICS OF
BENZOPYRENE HYDROXYLASE.

H L Gurtoo T C Campbell R E Webb K M

Plowman

Biochem Biophys Res Commun 31(4):588

23 May 1968 442.8 B5236

Aflatoxin, Aspergillus flavus, Benzopyrene, Enzymes, Kinetics, Research.

12311-69

QUANTITATIVE AND QUALITATIVE DETER-
MINATION OF DINITRO-O-CRESOL (DNOC)
IN SOIL. (00GE)

V K Hurler

Z Pflanzenkrankh (pflanzenpathol) Pflanzenschutz 75(1):29-32

Jan 1968 464.8 Z3

Benzene, Chromatography, Dinitrocresol, Soils, Spectrophotometry. English summary

12312-69

PERSISTENCE OF CIPC IN SOIL TREATED
WITH METHYL CARBAMATE PESTICIDES.
(ABSTRACT).

D D Kaufman P C Kearney

Weed Soc Amer Abstr 1967 MEETING:74

1967 241 W41

Biological assay, Carbamates, Chlorinated hydrocarbons, Chlorpropham, Herbicide residues, Pesticides, Soil sanitation.

12313-69

METHOD FOR EXTRACTING THE AN-
TIBIOTIC LEVORIN FROM A CULTURE
MEDIUM. PATENT 3,439,090.

V O Kuljbackh L B Sokolov J F Sveshnikov O A

Kuznetsova G N Malinovskaja V J Raigorodskaja

G V Kholodova

Us Patent Office Offic Gaz 861(3):934-935

15 Apr 1969 156.65 OF2

Actinomyces levoris, Antibiotics, Bacteria, Culture media, Diatomaceous earth, Extracts, Levorin, Methodology, Patents.

12314-69

NOTE CONCERNING SEVERAL NEW HERBI-
CIDES FROM THE GERMAN DEMOCRATIC
REPUBLIC. IN: COLLECTION OF REPORTS
GIVEN AT THE INTERNATIONAL HERBICIDE
CONFERENCE, PRAGUE, JUNE 21-24, 1966.
(GE)

H Kurth

115-116

1966 SB951.U8

Chemical control (weeds), Chemistry, Herbicides, Phenoxyacetic acid, Phenoxybutyric acid, Phenoxypropionic acid. Czech and Russian summaries.

12315-69

CIRCULAR DICHROISM OF GIBBERELLINS
AND THE APPLICATION OF THE LACTONE
CHROMOPHORE TO THEIR STRUCTURAL
ELUCIDATION.

H Meguro K Tuzimura N Takahashi

Tetrahedron Lett (60):6305-6308

Dcc 1968 385 T29

Chromophores, Gibberellins, Lactones, Light, Polarization, Stereochemistry.

12316-69

2-METHYLENENAPHTHO(2,3-D)-1,3-
DITHIOLE-4,9-DIONES. PATENT 3,429,895.

W L Mosby

Us Patent Office Offic Gaz 859(4):1238

25 Feb 1969 156.65 OF2

Dyes, Herbicides, Naphthoquinone compounds, Patents, Pigments.

12317-69

ORGANOTIN-, ARSENIC AND ANTIMONY 1,1-
ETHYLENE DITHIOLATES. PATENT
3,429,905.

W L Mosby

Us Patent Office Offic Gaz 859(4):1240

25 Feb 1969 156.65 OF2

Antimony compounds, Arsenic compounds, Bactericides, Fungicides, Herbicides, Organotin compounds, Patents.

12318-69

HERBICIDAL ALPHA-HALO-N-CYCLOHEX-
YL-ACETAMIDES. PATENT 3,429,690.

J F Olin

Us Patent Office Offic Gaz 859(4):1201

25 Feb 1969 156.65 OF2

Butyl-6'-methylcyclohexyl)-2-chloro-acetamide, N-(2'-tert-, Chemical control (weeds), Halogen compounds, Herbicides, Patents.

12319-69

THE PATHOGENICITY OF STAPHYLOCOCCI
AND THEIR SENSITIVITY TO 2,4-
DINITROPHENOL. (RUS)

I I Panysheva

Zhur Mikrobiol Epidemiol Immunobiol 3(0):93-94

1968 448.3 Z4

Bacteria, Biochemistry, Blood, Blood plasma, Cells, Dinitrophenol, 2,4-, Hemolysins, Lecithins, Staphylococcus. Summary in English

12320-69

AMINE CYANOFERRATES AND METHODS
FOR PREPARING SAME. PATENT 3,429,907.

G P Papp J W Clapp

Us Patent Office Offic Gaz 859(4):1240

25 Feb 1969 156.65 OF2

Algicides, Amines, Iron compounds, Methodology, Patents.

12321-69

INFLUENCE OF QUATERNARY STRUCTURE
ON ANTIGENIC CONFIGURATION OF
TOBACCO MOSAIC VIRUS. (ABSTRACT).

I Rappaport M Zaitlin

Fed Amer Soc Exp Biol Fed Proc 27(2):616

Mar 1968 442.9 F31P

Antigens, Electrophoresis, Mosaic, Peptides, Physical chemistry, Proteins, Tobacco, Virus diseases (plants).

12322-69

SECONDARY AMINOALCOHOL-BORIC ACID
REACTION PRODUCT AND PRODUCTION
THEREOF. PATENT 3,429,909.

D Schuster

Us Patent Office Offic Gaz 859(4):1240

25 Feb 1969 156.65 OF2

Amines, Bactericides, Boric acid, Patents.

12323-69

MEASURING THE EFFECT OF AIR POLLU-
TANTS ON BACTERIAL LUMINESCENCE: A
SIMPLIFIED PROCEDURE.

W F Serat J Kyono P K Mueller

Atmos Environ 3(3):303-309

May 1969 TD881.A8

Air pollution, Bacteria, Luminescence.

12324-69

EFFECT OF INTRODUCING A SULPHUR
BRIDGE ON THE HERBICIDAL ACTIVITY OF
DIQUAT.

L A Summers

Nature 214(5086):381-382 REF

22 Apr 1967 472 N21

Chemical control (weeds), Chemistry, Diquat, Herbicides, Paraquat, Sulfur.

12325-69

METAL CHELATES OF
BICYCLONANEDIONE. PATENT 3,429,906.

A A Swigar

Us Patent Office Offic Gaz 859(4):1240

25 Feb 1969 156.65 OF2

Algicides, Bactericides, Bicyclonane compounds, Chelation, Fungicides, Metals, Patents.

12326-69

A NEW SPINDLE VIRUS OBSERVED IN A LU-
CANID (COLEOPTERA) OF MADAGASCAR.
(FR)

C Vago P Monsarrat J L Duthoit A Amargier G
Meynadier Et Al

Acad Sci Compt Rend Ser D Sci Nat 266(15, 1ST

SEMESTER):1621-1623

08 Apr 1968 505 P21

Insect diseases, Lucanidae, Viruses.

ENGINEERING

12327-69

THIS LV RIG FIGHTS WINDS.

Anonymous

Cotton 5(5):12-13,28

May 1969 72.8 C8225

Chemical control (insects), Cotton, Disulfoton, Hydroxy-N,N-dimethyl-cis-crotonamide dimethyl phosphate, 3 -, Insecticides, Organophosphorus compounds, Spraying equipment, Weather, Wind.

12328-69

INSECT-PROFFING DURING BUILDING CON-
STRUCTION.

W Ebeling Wagner D A Reiersen

Calif Agr 23(5):4-7

May 1969 100 C12CAG

Blattidae, Boric acid, Buildings, Chlorinated hydrocarbons, Dusting, Spraying, Termites, Wood-destroying insects.

INDUSTRY

ECONOMICS

12329-69

1968 COSTS TO PRODUCE AVOCADOS IN
SAN DIEGO COUNTY.

C D Gustafson R C Rock

Calif Avocado Soc Yearbook 52:91-93

1968 81 C128

Avocados, Costs, Crops, Production economics.

EDUCATION

12330-69

DELSEA OF CAMDEN, N. J.--MOUTH-TO-
MOUTH PEST CONTROL.

Anonymous

Pest Contr 37(1):14,16,18,20,22

Jan 1969 449.8 EX8

Advertising, Education, Insect control, Pest control.

The author discusses a commercial exterminating company's advertisement campaign as a public education source for insect control.

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AGROBACTERIUM

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12325

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ALTERNARIA

Relationship between citrus leaf-miner (*Phyllocnistis citrella* Stainton) injury and citrus canker (*Xanthomonas citri* (Hase) Dowson) incidence on citrus leaves.

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Pakistan Council of Scientific and Industrial Research.; Karachi
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Montana Agricultural Experiment Station, Bozeman; Dept. of Botany and Microbiology
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Kyushu Univ., Fukuoka, Japan; Inst. of Biological Control
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- Akai, H**
Japan. sericultural Experiment Station, Suginamiku, Tokyo
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University of Nebraska
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Moscow State Univ., USSR; Dept. of Plant Physiology
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Kaliningrad. technical Institute of Fish Industry and; Fishery
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Padova Univ., Italy; Istituto di Patologia Vegetale
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West Pakistan Agricultural Univ., Lyallpur; Dept. of Horticulture
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Department of Agriculture, Wollongbar, Australia; Agricultural Research Station
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Canterbury. university; Dept. of Zoology, New Zealand
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- Alumot, E**
Rehovot. volcani Institute for Agricultural Research; Division of Animal Nutrition.
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- Ammer, U**
Ministerium fur Ernährung, Landwirtschaft, Weinbau und; Forsten Baden-Wurttemberg, Stuttgart, West Germany
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- Andrade, S O de**
Sao Paulo. instituto Biologico; Seccao de Bioquimica e Farmacodinamica
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Firenze Univ., Italy; Istituto di Patologia Vegetale
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Maryland Univ., College Park; Dept. of Horticulture
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- Ankersmit, G W**
Agricultural Univ., Wageningen, Netherlands; Lab. of Entomology
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- Anonymous,**
New South Wales Dept. of Agriculture
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- Anonymous,**
Ministry of Agriculture, London, England
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- Arlsum, T**
Agricultural Research Service, Beltsville, Md.; Crops Research Div.
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USSR Academy of Sciences, Moscow; Inst. of Animal Morphology
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- Bagga, H S**
Mississippi Agricultural Experiment Station, Stoneville; Delta Branch
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Michigan State Univ., East Lansing; Dept. of Botany and Plant Pathology
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- Baker, J M**
Forest Products Research Lab., Princes Risborough.; Aylesbury, Bucks, England
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- Banadyga, A A**
North Carolina Agricultural Extension Service, Raleigh
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- Banerjee, S**
Burdwan Univ., West Bengal, India; Dept. of Botany
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Rammahon Coll., Calcutta, India; Dept. of Botany
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Calcutta Univ., India; Dept. of Botany
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Israel Inst. for Biological Research, Ness-Ziona; Dept. of Entomology
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Virginia Polytechnic Inst., Blacksburg
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Rothamsted Experimental Station, Harpenden, Herts, England
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- Barnes, J M**
MCR's Toxicology Research Unit, Carshalton, England
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- Barrat, J G**
West Virginia University, Kearneysville; Experimental Farm
11944
- Barrett, K E J**
Windsor, 129 Smiths Lane, England
11718
- Bartels, P G**
Arizona Univ., Tuscon; Dept. of Biological Sciences
12237
- Bavendamm, W**
Bundesforschungsanstalt fur Forst-und Landwirtschaft.; Reinbek, West Germany
12238
- Beall, M L**
U. S. dept. of Agriculture, Beltsville, Md.; Agricultural Research Service; Crops Research Division
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- Becker, G**
Bundesanstalt fur Materialprufung, Berlin-Dahlem, West; Germany
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Bundesanstalt fur Materialprufung, Berlin-Dahlem, West; Germany
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Bundesanstalt fur Materialprufung, Berlin-Dahlem, West; Germany
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- Bedard, W D**
Forest Service, Berkeley, Calif.; Pacific Southwest Forest and Range Experiment Station
11784
- Bembassat-Ivanova, E**
Institut Supérieur d' Agriculture, 'Guergui Dimitrov'; Sofia, Bulgarie
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- Benepal, P S**
Kansas State Univ., Manhattan; Dept. of Horticulture
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- Benes, K**
Czechoslovak Entomological Society, Prague
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- Bennett, H W**
U. S. Dept. of Agriculture; Agricultural Research Service; Crops Research Division
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- Benno, P**
Nijmegen, Wolfskuilseweg 173, Netherlands
11719
- Bergoin, M**
Centre National de la Recherche Scientifique, Saint; Christol, France; Station de Recherches Cytopathologiques.
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- Bestagno, G**
Osservatorio per le Malattie delle Piante, Sanremo, Italy
11947
- Bestagno, G**
Osservatorio per le Malattie delle Piante, Sanremo, Italy
11948
- Bevenue, A**
Hawaii University, Honolulu; Dept. of Agricultural Biochemistry; Dept. of Food Science and Technology
12304
- Blattny, C**
Czechoslovak Academy of Sciences, Prague; Inst. of Experimental Botany
11949
- Blattny, C**
Tschechoslovakischen Akademie der Wissenschaften, Prag; Institut fur Experimentelle Botanik
11950
- Blazejewska, A**
Pracownia Entomologii Stosowanej UMK, Torun, Poland; Katedra Zoologie Systematycznej
11787
- Bletchly, J D**
Forest Products Research Lab., Princes Risborough, England
11788
- Block, W**
Leicester Univ., England; Dept. of Zoology
11721
- Bockmann, H**
Biologische Bundesanstalt fur Land- und Forstwirtschaft.; Kiel-Kitzeberg, West Germany; Inst. fur Getreide-, Olfucht- und; Futterpflanzenkrankheiten
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- Boerema, G H**
Plantenziektenkundige Dienst, Wageningen, Nederlande
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- Bose, S**
Calcutta Univ., India; Dept. of Agriculture
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- Bottrell, D G**
Texas Agricultural Experiment Station, Lubbock; South Plains Research and Extension Center
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- Boush, G M**
Wisconsin Univ., Madison; Dept. of Entomology
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- Bowen, H H**
Texas A and M Univ., College Station; Dept. of Soil and Crop Sciences
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Dept. of Agriculture, Griffith
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- Bradley, R E**
Florida University, Gainesville; Dept. of Veterinary Science
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Houghton Poultry Research Station, Houghton, England
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- Brewerton, H V**
Department of Scientific and Industrial Research.; Petone, New Zealand; Chemistry Div.
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- Brown, C G D**
Wellcome Research Lab., Kabete, Kenya
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- Browning, T O**
Adelaide. university; Dept. of Entomology
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- Bruckbauer, H**
Landes- Lehr- u. ForschAnst. Wein- u. Gartenb., Neustadt/; Wstr., Germany
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- Buckett, J S**
California Dept. of Agriculture, Sacramento
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Buckner, C H

- Buckner, C H**
Canada. dept. of Fisheries and Forestry; Forest Research Laboratory, Winnipeg
11794
- Caglevic, M D**
Instituto de Investigaciones Agropecuarias, Chile; Estacion Experimental La Platina
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- Cardale, J**
Commonwealth Scientific and Industrial Research; Organization, Canberra, Australia; Div. of Entomology
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Commonwealth Scientific and Industrial Research; Organization, Canberra, Australia; Div. of Entomology
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- Carleton, W M**
Agricultural Research Service, Beltsville, Md.; Agricultural Engineering Research Div.
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- Carlson, E C**
California University, Davis
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- Cassidy, J D**
Northwestern University; Dept. of Biological Sciences, Evanston, Ill.
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- Cathey, H M**
Agricultural Research Service, Beltsville, Md.; Research Div.
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Agricultural Research Service, Beltsville, Md.; Crops Research Div.
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Agricultural Research Service, Beltsville, Md.; Crops Research Div.
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- Chang, J**
Missouri University, Columbia; School of Veterinary Medicine; Dept. of Microbiology
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- Chansler, J F**
Forest Service.; Div. of Forest Pest Control
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- Chmielewski, W**
Instytut Ochrony Roslin, Poznan, Poland
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Washington State University, Pullman; College of Veterinary Medicine; Dept. of Veterinary Microbiology
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- Chutter, F M**
Rhodes Univ., Grahamstown, South Africa; National Inst. for Water Research
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- Clancy, D W**
Agricultural Research Service, Riverside, Calif. 92502; Entomology Research Div.
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Michigan State Univ., East Lansing
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- Cmelik, S H W**
Rhodesia. university College; Dept. of Biochemistry
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Pomona Products Co., Griffin, Ga.
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Justus Liebig Univ., Giessen, West Germany; Veterinaer-Pathologisches Inst.
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Los Angeles Museum of Natural History
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U. S. Dept. of Agriculture, Beltsville, Md.
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Maryland Univ., College Park
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- Courtois, H**
Forstliche Forschungsanstalt, Munich, West Germany; Inst. fur Holzkunde und Forstnutzung
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Institute National Agronomique, Paris, France; Lab. de Chimie Biologique
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North Carolina State Univ., Raleigh; Dept. of Plant Pathology
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North Carolina State Univ., Raleigh; Dept. of Plant Pathology
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Agricultural Research Service, State College, Miss.; Entomology Research Div.
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Cornell University; Dept. of Entomology
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Farbenfabrik Bayer AG., Werk Uerdingen, West Germany; Holzschutzlab.
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Makerere University College; Dept. of Biochemistry, Kampala
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Padova Univ., Italy; Inst. of Zoology, Comparative Anatomy and Genetics
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California University, Davis; Dept. of Water Science and Engineering
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Connecticut Univ., Storrs; Biological Sciences Group
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New York State Agricultural Experiment Station, Geneva
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Cornell Univ., Ithaca, N. Y.; Section of Neurobiology and Behavior
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Melbourne Univ., Australia; Dept. of Zoology
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Aeadia Univ., Wolfville, Nova Scotia
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Division of Biological Control, Berkeley
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Agricultural Research Station, Beltsville, Md.; Crops Research Div.
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Institut fur Pflanzenkrankheiten und Pflanzenschutz; der T. H. Hannover
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Institut Normal'noi i Patologicheskoi Fiziologii Samn USSR
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Minnesota. university; Dept. of Veterinary Physiology and Pharmacology
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Research Inst. for Fruit Culture, Holovousy, Czechoslovakia
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Department of Scientific and Industrial Research; Auckland, New Zealand; Plant Diseases Div.
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Minnesota. university; Dept. of Veterinary Physiology and Pharmacology
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Minnesota. university; Dept. of Veterinary Physiology and Pharmacology
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California University, Los Angeles; Dept. of Agricultural Sciences
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California University, Los Angeles; Dept. of Agricultural Sciences
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- Ebert, E**
Landessammlungen fur Naturkunde, Karlsruhe (east Germany)
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London. university; Dept. of Biological Sciences
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- Eguchi, M**
Kyoto Univ. of Industrial Arts and Textile Fibers, Japan
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Buenos Aires Univ., Argentina; Inst. de Investigaciones Medicas
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Bureau of Sport Fisheries and Wildlife, Columbia, Miss.; Fish-Pesticide Research Lab.
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USSR. academy of Sciences; Zoological Institute, Leningrad
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Karolinska Institutet, Stockholm, Sweden; Dept. of medical Physies
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Ryazan. research Institute of Bee-keeping
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Queensland Univ., St. Lucia, Australia; Dept. of Entomology
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Agricultural Research Service, Beltsville, Md.; Crops Research Div.
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St. Louis Univ., Mo.; Dept. of Biology
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Salfords, Surrey, England
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Adelaide University, Austria; Waite Agricultural Research Institute
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California University, Davis
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U. S. Dept. of Agriculture; Agricultural Research Service; Entomology Research Division
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Societa G. I. A. C., Milan, Italy; Ufficio Tecnico
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- Foster, W**
Haile Selassie univ., P. O. Box 1176, Addis Ababa; Ethiopia; Faculty of Science
11815
- Fougerousse, M**
Centre Technique Forestier Tropical, Nogent-sur-Marne; France
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- Francke-Grosman, H**
Am Vorwerksbusch 4, 2057 Reinbek bei Hamburg, West Germany
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- Frazer, B D**
Canada Dept. of Agriculture, Vancouver, British Columbia; Research Station
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- Frazier, N W**
California University, Berkeley
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Department of Agriculture, Ottawa, Ontario; Entomology Research Inst.
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- French, N**
National Agricultural Advisory Service, Wye and Cambridge, England.
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U. S. Dept. of Agriculture, Beltsville, Md.; Agricultural Research Service; Animal Disease and Parasite Research Division
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- Friedler, J**
Research Inst. for Beet Cultivation, Semceice; Czechoslovakia
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Minnesota Univ., St. Paul; Dept. of Plant Pathology
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Hyogo University of Agriculture, Sasayama, Hyogo, Japan
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Centre de Recherche Agronomique, Midi, Montpellier
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Biologische Bundesanstalt für Land- und Forstwirtschaft; Berlin-Dahlem, West Germany
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U. S. dept. of Agriculture. agricultural Research Service; Western Regional Research Laboratory, Albany, Calif.
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Osservatorio per le Malattie delle Piante, Turin, Italy
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- Gaskill, J O**
Agricultural Research Service, Fort Collins, Colo.; Crops Research Div.
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Faculte des Sciences Agronomiques, Gembloux, Belgium; Lab. de Zoologie generale
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Western Australia University; Institute of Agriculture
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Commonwealth Scientific and Industrial Research; Organization, Canberra, Australia; Div. of Entomology
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Forest Service.; Div. of Forest Insect Research
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Texas A and M Univ., Weslaco; Agricultural Research and Extension Center
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Biologischen Bundesanstalt für Land- und Forstwirtschaft; Berlin-dahlem; Institut für Mykologie
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Purdue Univ., West Lafayette, Ind.; Dept. of Entomology
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South African Coopcrative Citrus Exchange, Pretoria
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Lab. d'Entomologic du Museum, Paris, France
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Du Pont Co.; Industrial and Bio-chemicals Dept.
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Southwestern Louisiana Univ., Lafayette; Dept. of Biology
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Centre d'Etude des Pesticides Agricoles, Gembloux.; Belgium; Station de Phytopharmacie de l'Etat
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Papua and New Guinea Univ., Bulolo; Dept. of Forests
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Virginia Polytechnic Inst., Blacksburg; Dept. of Entomology
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Imperial Coll., London, England; Dept. of Botany
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Canada Dept. of Agriculture, Winnipeg, Manitoba; Research Station
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San Marcos Univ., Lima, Peru; Facultad de Medicina Veterinaria
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R. C. A., Udaipur, India
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Virginia Polytechnic Institute, Blacksburg, Va.; Dept. of Biochemistry and Nutrition
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- Gustafson, C D**
13745 Rostrata Road, Poway, Calif.
12329
- Habiba, M H**
Cairo Univ., Egypt; Faculty of Veterinary Medicine
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Cairo Univ, Egypt; Faculty of Veterinary
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North Carolina State Univ., Raleigh; Dept. of Horticultural Science
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Florida Agricultural Experiment Station, Gainesville; Dept. of Food Science
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West Virginia Univ., Morgantown; Dept. of Microbiology
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California. university; Dept. of Zoology, Davis
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Bristol University, England; Dept. of Biochemistry
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Hawaii Univ., Honolulu
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U. S. Dept. of Agriculture; Agricultural Research Service; Crops Research Division
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California Univ., Riverside; Agricultural Extension Service.
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Purdue Univ., Lafayette, Ind.; Dept. of Horticulture
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University of Agricultural Sciences; Dept. of Parasitology, Bangalore
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Agricultural Research Service, Beltsville, Md.; Soil and Water Conservation Research Div.
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Pearblossom, Calif.
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Canada Dept. of Agriculture, Kentville, Nova Scotia; Research Station
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- Hield, H Z**
California University, Riverside; Dept. of Horticultural Science
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- Hofferek, H**
Deutschen Akademie der Landwirtschaftswissenschaften; zu Berlin; Institut für Phytopathologie Aschersleben
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- Holmes, D D**
Veterans Administration Hospital, Oklahoma City, Okla.; Research Service
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- Hooper, G R**
Michigan State Univ., East Lansing; Dept. of Botany and Plant Pathology
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- Houlihan, D F**
Bristol. university; Dept. of Zoology, England
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- Howarth, J A**
California University, Davis; School of Veterinary Medicine
12143
- Hrdy, I**
Czechoslovak Academy of Sciences, Prague; Inst. of Entomology
11831
- Hsu, C S**
England. east Malling Research Station, Kent
11981
- Hugh-Jones, M A**
Central Veterinary Laboratory, Weybridge, England
12144
- Hughes, M**
Oxford, 323 Iffley Road, England
11832
- Huner, J V**
Louisiana State Univ., Baton Rouge; Dept. of Zoology and Physiology
12227
- Hunter, J H**
Purdue University, Lafayette, Indiana
12203
- Hurle, V K**
Institut für Pflanzenschutz der Landwirtschaftlichen; Hochschule Hohenheim
12311
- Inaba, Y**
National Institute of Animal Health, Tokyo; Second Research Division
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- Innes, N L**
Cotton Research Corporation, Kampala
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- Ishihara, T**
Ehime University, Matsuyama, Japan; College of Agriculture
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- Istomina, L P**
Kharkov. state University
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Hyogo University, Japan; Entomological Laboratory
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- Iwata, K**
Hyogo University of Agriculture, Japan
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Jain, N C

Jain, N C
California University, Davis; School of Veterinary Medicine; Dept. of Clinical Pathology 12146

Jain, N C
California University, Davis; School of Veterinary Medicine; Dept. of Clinical Pathology 12147

Janas, J
Katedra Techniki Ochrony Roslin WSR, Wroclaw, Poland 12063

Jansen, D H
Chicago Univ., Ill.; Dept. of Biology 11835

Jaskowska, J
Instytut Zoologiczny PAN, Oddzial near Poznan, Poland 11738

Jastrzebski, T
Wydziału Weterynaryjnego WSR, Lublin, Poland; Katedry Mikrobiologii 12148

Javahery, M
Imperial College, London, England; Dept. of Zoology and Applied Entomology 11739

Jensen, G L
California Univ, Berkley; Div. of Entomology 11836

Joehlm, M M
U. S. dept. of Agriculture, Denver, Colo.; Agricultural Research Service; Animal Disease Research Laboratory 12149

Johnson, N E
Cornell University, Ithaca, N. Y.; Dept. of Entomology and Limnology 11926

Johnson, R E
National Cancer Institute, Bethesda, Md; Radiation Branch 12150

Jones, J M
National Agricultural Advisory Service, Cambridge, England 12066

Jordovic, M
Institute for Fruit Growing, Cacak, Yugoslavia 11983

Jurzltza, G
Technische Hochschule Karlsruhe-Baden, West Germany; Botanisches Inst. 11838

Kaji, S
Konan Univ., Kobe, Japan; Dept. of Biology 11839

Kamm, J A
Oregon State Univ., Corvallis; Entomology Research Div. 11984

Kampe, W
BezirkspflSchutzamt Pfalz, Neustadt, Germany 11985

Kanungo, K
Bridgeport Univ., Conn.; Dept. of Biology 11841

Kao, K N
Guelph. university; Dept. of Crop Science, Ontario 12068

Kapltza, O S
USSR. academy of Sciences; Institute of General Genetics 11986

Kartman, L
405 Riverside Drive, Fort Collins, Colo. 80521 11913

Kaufman, D D
U. S. Dept. of Agriculture, Beltsville, Maryland; Agricultural Research Service; Crops Research Division 12312

Kaufmann, T
Alaska Univ., College; Inst. of Arctic Biology 11842

King, C C
Auburn University, Ala.; Agricultural Experiment Station; Dept. of Agronomy and Soils 12263

Kleinhofs, A
Washington State University, Pullman 12264

Knowles, P F
U. S. Dept. of Agriculture; Agricultural Research Service; Crops Research Division 11987

Knudsen, P
Norwegian Forest Research Inst., Vollebakk, Norway 11740

Kok, L T
Malaya Univ., Kuala Lumpur, Malaysia; Faculty of Agriculture 12266

Kolyer, J M
Convent, 55 Chimney Ridge Drive, N. J. 11843

Korenberg, E I
USSR. academy of Sciences; Laboratory of Medical Zoology, Moscow 11741

Kralovic, J
Ustav Experimentalnej Fytopatologie a Entomologie SAV.; Ivanka pri Dunaji, Czechoslovakia 11844

Kramer, W
VEB Farbenwerk, Wolfen, East Germany; Chemisch-Biologisches Inst. 12100

Krassilnikov, N A
USSR. academy of Sciences; Institute of Microbiology, Moscow 11845

Krywienzyk, J
Department of Fisheries and Forestry, Sault Ste. Marie.; Ontario; Insect Pathology Research Inst. 11846

Kubikova, J
Praha University, Czechoslovakia; Botany Dept. 11988

Kurth, H
Landwirtschaftliche Versuchsstation, Blossien, East Germany. 12314

Kurtz, H J
Minnesota University, St. Paul; College of Veterinary Medicine; Dept. of Veterinary Pathology and Parasitology 12152

Kwong, S S
Cornell Univ., Ithaca, N. Y.; Dept. of Pomology 11989

LaChance, L E
Agricultural Research Service, Fargo, N. Dak.; Metabolism and Radiation Research Lab. 11847

Lange, A H
California University, Riverside 12101

Larson, R A
North Carolina State Univ., Raleigh 12267

Lee, K P
Wisconsin University, Madison; Dept. of Veterinary Science 12153

Leegwater, D C
Central Instituut voor Voedingsonderzoek TNO, Zeist, Neth; Eriands 12268

Lefebvre, V
Maastricht, Brusselsestraat 38, Netherlands 11742

Legner, E F
California Univ., Riverside; Dept. of Biological Control 11848

Legowski, T J
National Agricultural Advisory Service, Starcross, Exter.; Devon, England. 12069

Legowski, T J
National Agricultural Advisory Service, Starcross, Devon.; England. 12070

Lehoczyk, J
Research Institute of Viticulture, Budapest, Hungary 11991

Leonard, C D
Citrus Experiment Station, Lake Alfred, Fla. 11993

Leshem, Y
Bar-Ilan Univ., Ramat-Gan, Israel; Dept. of Botany 12269

Levi, M P
North Carolina State Univ., Raleigh; Dept. of Plant Pathology 12270

Levy, J F
Imperial Coll., London, England; Botany Dept. 11994

Ley, H L
Food and Drug Administration, Washington, D. C. 12154

Liese, W
Hamburg Univ., West Germany; Lehrstuhl für Holzbioogie 11995

Lockshin, R A
Rochester. university; Dept. of Physiology, N. Y. 11849

Lord, W J
Massachusetts Univ., Amherst 12219

Loveridge, J P
Rhodesia Univ. Coll., Salisbury; Dept. of Zoology 11850

Loveridge, J P
Rhodesia Univ. Coll., Salisbury; Dept. of Zoology 11851

Lucchesi, J C
North Carolina University, Chapel Hill; Dept. of Zoology 11909

Lund, A E
Koppers Co. Inc., Monroeville, Pa.; Research Dept. 11852

Lundgren, D L
Lovelace Foundation for Medical Education and Research.; Albuquerque, N. Mex.; Dept. of Microbiology 12155

Machen, L
Botswana Univ., Lesotho; Dept. of Zoology 11853

Mackauer, M
Simon Fraser Univ., Burnaby, British Columbia; Dept. of Biological Sciences 11854

Madprell, S H P
England. agricultural Research Council Unit; Dept. of Zoology, Cambridge 11855

Maillet, P L
Rennes Univ., France; Lab. de Biologie Generale 11856

Majumder, S K
Smith College, Northampton, Mass.; Dept. of Biological Sciences 12271

Makinen, Y
Turku Univ., Finland; Dept. of Botany 12204

Mangenot, F
Nancy Univ., France; Lab. de Botanique 12272

Manson, D C M
Department of Agriculture, Levin, New Zealand; Horticultural Research Centre 11857

Martell, A M
Acadia Univ., Wolfville, Nova Scotia, Canada 11858

Martin, R
Ohio. state University; Dept. of Botany 12156

Martinovic, M
Institut for Plant Protection, Belgrade, Yugoslavia 11997

Massenot, M
E. N. S. A., Grignon, France; Laboratoire de Botanique et de Pathologie Vegetale 11998

Mathur, C F
Millersville. state College; Dept. of Biology, Pa. 11859

Mazlum, Z
Keshavarz Company 12198

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- McEnroe, W D**
Massachusetts Univ., Waltham; Waltham Field Station
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- McGlohon, N E**
Georgia Univ., Athens; Cooperative Extension Service
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- McGlohon, N E**
Georgia Univ., Athens; Cooperative Extension Service
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Rhode Island Univ., Kingston; Dept. of Botany
12273
- McIntosh, D L**
Canada Dept. of Agriculture, Summerland, British Columbia; Research Station
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Canada Agriculture Research Station, Winnipeg
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- McKibben, J**
Iowa State University, Ames; Dept. of Veterinary Anatomy
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Department of Agriculture, Timaru, New Zealand
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- Meguro, H**
Tohoku Univ., Sendai, Japan; Dept. of Food Chemistry
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Cornell Univ., Ithaca, N. Y.; Dept. of Chemistry
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- Merrill, W**
Pennsylvania State Univ., University Park; Dept. of Plant Pathology
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Pennsylvania State Univ., University Park; Dept. of Plant Pathology
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- Michel, J F**
Central Veterinary Laboratory, Weybridge
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Perugia Univ., Italy; Inst. di Istologia ed Embriologia
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USSR. academy of Sciences; Institute of Zoology, Kazakh
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Ehime University, Matsuyama, Japan; College of Agriculture; Entomological Laboratory
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Ceylon Univ., Peradeniya; Dept. of Zoology
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Canada Agriculture Research Station, Regina, Saskatchewan
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Institut National de la Recherche Agronomique,; Pomt-de-la-Maye, France; Station Ode Pathologie Vegetale du Sud-Ouest
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Institute d'elevage et de medecine veterinaire, France
11748
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Hygiene Inst. des Ruhrgebiets, Gelsenkirchen, West Germany
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Florida Univ., Gainesville; Dept. of Entomology and Nematology
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Agricultural Research Service, Beltsville, Md.; Crops Research Division
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British Museum (natural History), London, England
11749
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Ussr. academy of Sciences; Institute of Zoology, Azerbaijan
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- Munn, E A**
England. agricultural Research Council. institute of; Animal Physiology; Dept. of Biochemistry, Cambridge
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- Murphy, J C**
New England Medical Center Hospitals, Boston, Mass.
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Commonwealth Scientific and Industrial Research; Organization, Glebe, Australia
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Burdwan Univ., West Bengal, India; Dept. of Botany
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USSR. academy of Sciences; Zoological Institute, Leningrad
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State Inst. for Wood Research, Bratislava, Czechoslovakia
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Imperial Coll. Field Station, Ascot, England
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Fordham Univ., Bronx, N. Y.; Lab. of Organic Chemistry and Enzymology
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Wisconsin Univ., Madison; Dept. of Entomology
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Agricultural Control- and Research Inst., Prague,; Czechoslovakia
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Aichi Gakugei University, Japan; Entomology Laboratory
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Nagoya University, Chikusa, Japan
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Ehime University, Matsuyama, Japan; College of Agriculture; Entomological Laboratory
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International Rice Research Inst., Los Banos, Laguna,; Philippines
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Florida Univ., Fort Lauderdale; Inst. of Food and Agricultural Sciences
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Gor'or' Kovski Meditsinski Institut
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Veterinary Research Laboratories, Stormont; Belfast, Northern Ireland; Ministry of Agriculture
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Forstliche Forschungsanstalt, Munich, West Germany; Inst. fur Holzkunde und Forstnutzung
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Murphy Chemical Company, Limited, Wheathampstead, St. Albans
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Wisconsin Univ., Madison; Dept. of Soils
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Exeter Univ., England; Dept. of Botany
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Missouri University, Columbia
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South Dakota State Univ., Brookings; Cooperative Extension Service
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Vysoka Skola Polnohospodarska, Nitra, Czechoslovakia
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- Priesner, H**
Rudolfstrasse 26, A 4020 Linz, Austria
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Cornell Univ., Ithaca, N. Y.
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Academy of Sciences of the Ukrainian SSR, Kiev, USSR; Inst. of Plant Physiology
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Wellcome Research Labs., Beckenham, England
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Cornell University; Center for Environmental Quality Management
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Wisconsin University, Madison; Dept. of Pathology and Veterinary Science
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Kansas Univ., Lawrence; Dept. of Entomology
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FMC Corp., Richmond, Calif.; Niagara Chemical Div.
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New York Medical College, New York
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Agricultural Research Service, Orlando, Fla.; Crops Research Div.
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Jawaharlal Nehru Krishi Vishwa Vidyalaya, Jabalpur, India; Dept. of Entomology
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Sheffield Univ., England; Dept. of Botany
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Czechoslovak Academy of Sciences; Institute of Virology, Bratislava
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Oak Ridge National Lab., Tenn.; Radiation Ecology Section
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California Univ., Santa Cruz; Div. of Natural Sciences
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Bologna Univ., Italy; Istituto di Malattie Infetive
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Leiden Univ., Netherlands; Dept. of Radiation Genetics
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National Bacteriological Lab., Stockholm, Sweden
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Station de Recherches sur les Nematodes, Antibes, France
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Colorado State University
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Dole Co., Honolulu, Hawaii
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California Univ. Citrus Research Center; Dept. of Plant Pathology
12017
- Rosch, R**
Bundesforschungsanstalt fur Forst-und Holzwirtschaft, Reinbek, West Germany; Inst. fur Holzbiologie und Holzschutz
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- Rosenthal, S S**
Agricultural Research Service, Fort Valley, Ga.; Entomology Research Div.
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Illinois University, Urbana; College of Veterinary Medicine
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Illinois University, Urbana; College of Veterinary Medicine
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Commonwealth Scientific and Industrial Research; Organization, South Melbourne, Australia; Div. of Forest Products
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Michigan State Univ., East Lansing I; Dept. of Entomology
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Mainz Univ., West Germany; Inst. fur Allgemeine Zoologie
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Georgia Univ., Athens; Dept. of Horticulture
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Western Washington Research and Extension Center, Puyallup
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Central Laboratory, Forest, Miss.
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Pineapple Research Inst., Honolulu, Hawaii
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- Samadieh, B**
California University, Davis; School of Veterinary Medicine; Dept. of Epidemiology and Preventive Medicine
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- Samajpati, N**
Calcutta Univ., India; Dept. of Botany
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- Samsinak, K**
Czechoslovak Academy of Sciences, Prague; Dept. of Entomopathology
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- Sauer, J R**
Tulane University; Dept. of Biology, La.
11876
- Saunier, R**
Centre de Recherches Agronomiques DU Sud-Ouest, France; Station de Recherches d'Arboriculture Fruitiere
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- Schacher, J F**
American University of Beirut, Lebanon; Faculties of Medical Science; Dept. of Tropical Health
11877
- Scheurer, R**
Bern. university; Division of Animal Physiology
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- Schmid, R**
Forstbotanisches Inst., Munich, West Germany
12020
- Schmidt, G H**
Wurzburg Univ., West Germany; Inst. fur Angewandte Zoologie
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- Schnathorst, W C**
California University, Davis; Dept. of Plant Pathology
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- Schneider, D**
Max-Planck-Institut fur Verhaltensphysiologie, Germany
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- Schneider, M J**
Wisconsin University, Madison; Dept. of Botany
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- Schoonhoven, L M**
Agricultural Univ., Wageningen, Netherlands; Dept. of Entomology
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- Scopes, N E A**
Glasshouse Crops Research Institute, Littlehampton, Sussex, England
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- Sebanek, J**
Agriculture Univ., Brno, Czechoslovakia; Dept. of Biology
12289
- Seifert, K**
Bundesanstalt fur Materialprufung, Berlin-Dahlem, West; Germany
12290
- Serat, W F**
State of California Dept. of Public Health, Berkeley; Division of Laboratories.; Air and Industrial Hygiene Laboratory
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- Shaddock, J A**
Ohio State University, Columbus; Dept. of Veterinary Pathology
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- Shaldybina, E S**
Gorky. pedagogical Institute, USSR
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- Sheikh, S A**
West Pakistan Veterinary Research Inst., Lahore
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- Shetty, K S**
University of Agricultural Sciences, Bangalore-24, India; Div. of Microbiology
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- Shigo, A L**
Forest Service, Durham, N. H.; Northeastern Forest Experiment Station
12291
- Shipton, P J**
National Agricultural Advisory Service, Reading, England
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- Sibinovic, S**
Biometrics Research Laboratories, Inc., Falls Church, Va.
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- Sidor, C**
Pasteur Inst., Novi Sad, Yugoslavia; Dept. of Histology
11882
- Sikes, D**
Georgia University, Athens; School of Veterinary Medicine; Institute of Comparative Medicine
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- Silberglied, R E**
Harvard Univ., Cambridge, Mass.; Biological Lab.
11883
- Sistrunk, W A**
Arkansas State Univ., Fayetteville
12292
- Smith, G**
North Dakota State Univ., Fargo; Dept. of Agronomy
11930
- Smith, H C**
Department of Scientific and Industrial Research.; Christchurch, New Zealand; Crop Research Div.
12024
- Smith, J W**
North Carolina State University, Raleigh
12209
- Smith, S G**
Pathology Research Inst., Sault Ste. Marie, Ontario, Canada
11884
- Smith, S I**
Arizona. university; Dept. of Poultry Science
12210
- Sohi, G S**
Punjab Agricultural Univ., Ludhiana, India; Dept. of Zoology-Entomology
12025
- Sopko, R**
State Forest Products Research Inst., Bratislava.; Czechoslovakia
12293
- Spielman, A**
Harvard School of Public Health; Dept. of Tropical Public Health, Boston, Mass.
11885
- Srivastava, V S**
Northwestern Univ., Evanston, Ill.; Dept. of Biological Sciences
11912
- Stafford, E M**
California University, Davis
11886
- Stary, P**
Czechoslovak Academy of Science, Prague; Institute of Entomology
11760
- Stavrakis, G**
Institut de Cereales, Thessaloniki, Greece
12081
- Stavrakis, G**
Institut de Cereales, Thessaloniki, Greece
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- Stern, V M**
California University, Riverside; Dept. of Entomology
12083
- Stone, W B**
State Univ. of New York, Syracuse; Dept. of F Zoology
12188
- Stoner, A K**
Agricultural Research Service, Beltsville, Md.; Crops Research Div.
12085
- Strumpel, H**
Staatsinst. Angew. Bot., Hamburg, Germany
12027
- Stumpf, H**
Gottingen Univ., West Germany; Zoologisches Institut
11887
- Summers, L A**
Newcastle Univ., Australia
12324
- Sunderman, D W**
U. S. Dept. of Agriculture, Aberdeen, Idaho; Agricultural Research Service; Crops Research Division
12028
- Surabjan, A S**
USSR. academy of Medical Sciences; Institute of Medical Radiology, Obninsk
11888
- Surlekow, P**
Research Inst. for Vegetable Culture Maritza , Plovdiv.; Bulgaria
12294
- Sweet, R D**
Cornell University, Ithaca, New York
12107
- Synak, J**
Research Inst. for Agrochemical Technology, Bratislava.; Czechoslovakia
12295

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Zuniga, E S

- | | | |
|--|---|---|
| <p>Tachikawa, T
Ehime University, Matsuyama, Japan; College of Agriculture; Entomological Laboratory
11761</p> <p>Tachikawa, T
Ehime University, Matsuyama, Japan; College of Agriculture; Entomological Laboratory
11762</p> <p>Taksdal, G
Norwegian Plant Protection Institute, Vollebekk, Norway
12086</p> <p>Taylor, R H
Victorian Plant Research Inst., Burnley, Australia
12030</p> <p>Teakle, D S
Queensland University, Herston, Australia; Dept. of Microbiology
12031</p> <p>Thayer, R H
Oklahoma State University, Stillwater; Dept. of Poultry Science; Dept. of Biochemistry
12176</p> <p>Thottappilly, V G
Giessen Universitat, Germany; Tropeninstitut
12032</p> <p>Tibbitts, T W
Wisconsin Univ., Madison
12033</p> <p>Tilden, J W
San Jose State College, San Jose, Calif.
11769</p> <p>Tohe, S S
York University; Dept. of Biology, Toronto
11889</p> <p>Todd, D H
Department of Scientific and Industrial Research., Palmerston North, New Zealand; Entomology Div.
12189</p> <p>Torgersen, T R
Forest Service, Juneau, Ala.; Inst. of Northern Forestry
12087</p> <p>Trlbe, G W
The Wellcome Research Station, Beckenham, Kent, England
12177</p> <p>Tukey, L D
Pennsylvania Agriculture Experiment Station
12296</p> <p>Ueyama, A
Kyoto Univ., Japan; Lab. of Phytopathology
12035</p> <p>Ueyama, A
Kyoto Univ., Japan; Lab. of Phytopathology
12036</p> <p>Usherwood, P N R
Glasgow Univ., Scotland; Dept. of Zoology
11890</p> <p>Vadehra, D V
Cornell University; Dept. of Poultry Science
12178</p> <p>Vago, C</p> | <p>Centre National de la Recherche Scientifique, Montpellier.; France; Station de Recherches Cytopathologiques
12326</p> <p>Valley, K
Cornell Univ., Ithaca, N. Y.; Dept. of Entomology
11891</p> <p>Van Der Geest, L P S
Amsterdam. university; Laboratory of Applied Entomology
11892</p> <p>Vanderberg, J P
New York University School of Medicine, N. Y.; Dept. of Preventive Medicine
12190</p> <p>Vanit Hof, J
Brookhaven National Lab., Upton, N. Y. 11973; Dept. of Biology
12297</p> <p>Vasvary, L M
Rutgers Univ., New Brunswick, N. J.; Cooperative Extension Service
11893</p> <p>Venkataramani, K
University Botany Laboratory, Madras 5, India
12037</p> <p>Veretennikov, V N
Kirovskoi Oblastnoi Vetpolikliniki, USSR
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Indian Agricultural Research Inst., New Delhi; Div. of Mycology and Plant Pathology
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Paris, France
11770</p> <p>Vite, J P
Thompson (Boyce) Institute for Plant Research, Yonkers., N. Y.
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New Zealand Leather and Shoe Research Association
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Carnegie Museum, Pittsburgh, Penn.
11771</p> <p>Wallihan, E F
California Univ., Riverside; Dept. of Soils and Plant Nutrition
12298</p> <p>Walton, P D
Saskatchewan. university; Dept. of Crop Science
11895</p> <p>Weber, N A
Swarthmore Coll., Penn.
11896</p> <p>Weber, N A
Swarthmore Coll., Pa.; Dept. of Biology
11897</p> <p>Webster, W J
Victorian Plant Research Inst., Burnley, Australia
12088</p> | <p>Wharton, D R A
U. S. army. natick Laboratories; Pioneering Research Laboratory, Mass.
11898</p> <p>Whitehead, V B
Fruit Food Technological Research Institute, Stel-lenbosch., Germany
12089</p> <p>Willeitner, H
Bundesforschungsanstalt fur Forst-und Holz-wirtschaft.; Reinbek, West Germany; Inst. fur Holz-biologie und Holzschutz
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Clemson Univ., Clemson, S. C.
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Guelph Univ., Ontario; Sec. of Zoonoses and Wil-dlife Diseases
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Central College of Agriculture, Warsaw, Poland; Dept. of Forest Botany
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Louisiana State Univ., Baton Rouge; Dept. of Zoology
11900</p> <p>Woods, G T
Illinois, University, College of Veterinary Medicine; Dept. of Pathology and Hygiene
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Canada Dept. of Agriculture, Vancouver, British Columbia; Research Station
12040</p> <p>Wu, L L
Mississippi State Univ., State College; Dept. of Horticulture
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Kyushu Univ., Fukuoka, Japan; Food Science Inst.
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California University, Berkeley; Dept. of Plant Pathology
12041</p> <p>Zakhvatkin, Y A
Moscow. state University; Dept. of Entomology, USSR
11904</p> <p>Zawawi, M A
Oklahoma State Univ., Stillwater; Dept. of Hor-ticulture
12301</p> <p>Zuckerman, B M
Cranberry Experiment Station, East Wareham, Mass.
12042</p> <p>Zuniga, E S
Instituto de Investigaciones Agropecuarias, La Cruz, Chile; Subestacion Experimental
11772</p> |
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