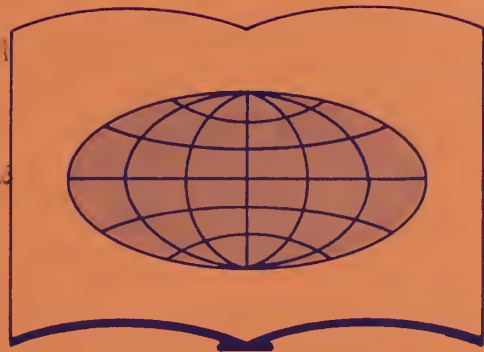


# Pesticides DOCUMENTATION BULLETIN

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Volume 5  
December 12, 1969

Number 25

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

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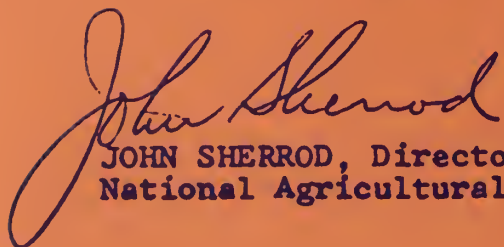
Users of the Pesticides Documentation Bulletin may wish to refer to the following publications for coverage of the pesticides literature:

Current Contents, Agricultural, Food & Veterinary Sciences, Institute for Scientific Information, Philadelphia

Biological Abstracts, Philadelphia

Chemical Abstracts, Columbus, Ohio

Health Aspects of Pesticides, USPHS, Communicable Disease Center, Atlanta, Georgia

  
JOHN SHERROD, Director  
National Agricultural Library

# PESTICIDES DOCUMENTATION BULLETIN

Volume 5  
December 12, 1969  
Number 25

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

## OBJECTIVES AND SCOPE

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

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

## FORMAT

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

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

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

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

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

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

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

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

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

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

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

Note: Items subject to proprietary restriction will be suppressed when appropriate.

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PESTICIDES INFORMATION CENTER  
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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).

PLEASE GIVE COMPLETE BIBLIOGRAPHIC INFORMATION AS IT APPEARS IN THIS PUBLICATION FOR EACH ITEM REQUESTED.

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

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

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\*This issue does not contain citations under this category.

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**MINISTRY OF OVERSEAS DEVELOPMENT, TROPICAL PESTICIDES RESEARCH UNIT, ANNUAL REPORT.**  
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 31 Mar 1967 SB951.A1T7  
 Chemistry, Insect pests, Insecticide application, Insecticides, Medical entomology, Pesticides, Reports, Tropical agriculture, Zoogeography.

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**FLIGHT CAPTURES IN 1967. (DU)**  
 B van Aartsen  
*Entomol Ber* 29(6):117-119  
 01 Jun 1969 420 N38B

Surveys, Syrphidae. English abstract.

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 H Abdul-Nour  
*Soc Entomol France Ann* 5(2):361-369 REF  
 1969 420 F84

Cicadellidae, Halictophagus, Insect taxonomy, Parasitic insects, Stylopidae. English abstract.

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**MORPHOLOGY, GEOGRAPHICAL DISTRIBUTION AND BIONOMICS IN SPAIN OF CHARAXES JASIUS (L., 1767) (LEP. NYMPHALIDAE). (SP)**  
 R Agenjo  
*Eos* 43(3/4):345-355 MAP  
 01 Oct 1968 421 E07

Bionomics, Charaxes jasius, Insect identification, Insect morphology, Nymphalidae, Zoogeography.

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**TENEBRIONIDAE COLLECTED BY MR. L. BIGOT IN SOUTHWESTERN MADAGASCAR. (FR)**  
 P Ardoin  
*Soc Entomol France Ann* 5(2):461-468 MAP  
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Insect taxonomy, Tenebrionidae, Zoogeography.

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**PSILOGAMASUS HURLBUTTI, N. G., N. SP., A NEW GAMASID FROM TANZANIA (ACARINA, ANATOTRICHES, PARASITIDAE). (FR)**  
 C Athias-Henriot  
*Soc Entomol France Ann* 5(2):439-449  
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Gamasid mites, Insect taxonomy, Parasitidae. English abstract.

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 C Besuchet  
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Insect taxonomy, Pselaphidac.

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**STUDIES ON SOME INDIAN ARCTIIDAE: LEPIDOPTERA.**  
 N S Bhattacherjee S L Gupta  
*Entomologist (london)* 102(1276):210-219  
 Sep 1969 421 EN8

Arctiidae, Insect taxonomy.

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 Z Boucek  
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 A Bourmier  
*Soc Entomol France Ann* 5(2):329-360  
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Insect taxonomy, Thysanoptera, Zoogeography. English abstract.

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**A NEW CONISANIA IPS. FROM SINING WITH SYNONYM NOTES (CONTRIBUTIONS TO THE KNOWLEDGE OF NOCTUIDAE-TRIFINAE 154). (GE)**  
 C Boursin  
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Insect identification, Insect names, Insect taxonomy, Noctuidae. More than 5 synonymous names for the insect are given.

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 A Brindle  
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 Sep 1969 421 EN8

Carcinophoridae, Insect taxonomy, Zoogeography.

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**A CASE OF AUTHORSHIP, MELITAEA RUBICUNDA (NYMPHALIDAE).**  
 F M Brown  
*Lepidopterists Soc J* 23(3):175-176  
 24 Sep 1969 421 L554

Insect taxonomy, Nomenclature, Nymphalidae.

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**THE SPHINX MOTHS (LEPIDOPTERA: SPHINGIDAE) OF OKLAHOMA.**  
 R Burton W A Drew  
*Okla Acad Sci Proc* 48:16-22  
 1969 500 OK42

Insect taxonomy, Sphingidae, Surveys.

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 W Buttiker  
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Cattle, Deer, Eyes, Insect behavior, Insect taxonomy, Lepidoptera.

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**THREE NEW SPECIES OF THE GENUS COLEOPTEROCORIS AND ONE NEW SPECIES OF THE GENUS HELEOCORIS (HEMIPTERA, NAUCORIDAE). (SP)**  
 J A De Carlo  
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 30 Sep 1968 516 SO12

Insect identification, Insect taxonomy, Naucoridae. English summary.

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**CONTRIBUTIONS TO THE KNOWLEDGE OF THE MUTILLIDAE OF THE ARGENTINE REPUBLIC. II. THE MALES OF EPHUTINI ASHMEAD (HYMENOPTERA). (SP)**  
 O H Casal  
*Physis* 28(76):77-93 REF  
 30 Sep 1968 516 SO12

Insect identification, Insect taxonomy, Mutillidae. English summary. 4 genera and 44 species are described.

**14725-69**  
**THE SUBGENUS CULEX (AEDINUS) BOURROUL, 1904, NEW FOR THE ARGENTINE ENTOMOFAUNA, WITH THE DESCRIPTION OF A NEW SPECIES (DIPTERA, CULICIDAE). (SP)**  
 O H Casal M Garcia H I Fernandez  
*Physis* 28(76):217-218  
 30 Sep 1968 516 SO12

Culex, Insect identification, Insect taxonomy, Zoogeography. English summary.

**14726-69**  
**RESULTS OF ZOOLOGICAL INVESTIGATIONS OF DR. Z. KASZAB IN MONGOLIA. NO. 171. (COL. BUPRESTIDAE). (SP)**  
 A Cobos  
*Eos* 43(3/4):357-411 MAP  
 01 Oct 1968 421 E07

Buprestidae, Insect taxonomy, Zoogeography. Description of many species among them 17 new ones.

**14727-69**  
**CONTRIBUTION TO THE STUDY OF CAECULIDAE, 7TH SERIES, MICROCAELULUS FRANZI SP. N., SAND LIVING CAECULIDAE FROM CORSICA. (FR)**  
 Y Coineau  
*Vie Milieu Ser C Biol Terrestre* 19(1-C):143-158  
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Insect ecology, Insect taxonomy, Trombidoidea. English and German abstracts.

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**NOTES ON ARGENTINE TABANIDS (INSECTA, DIPTERA). VII. THE TABANIDS OF THE PARANA RIVER DELTA. (SP)**  
 Sixto Coscaron  
*Physis* 28(76):39-53 REF  
 30 Sep 1968 516 SO12

Insect identification, Insect taxonomy, Tabanidae, Zoogeography. English summary.

Lepiselaga albitarsis, Dasybasis minor, Chrysops uruguayensis, Tabanus claripennis, T. melanogaster, T. platensis, T. pungens, T. quadripunctatus and T. triangulum were collected and keyed.

**14729-69**  
**BUTTERFLY COLLECTIONS IN 1968. (DU)**  
 A L Cox A W P Maassen  
*Entomol Ber* 29(8):143-146  
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Insect taxonomy, Lepidoptera, Seasonal variation, Surveys. English abstract.

**14730-69**  
**INSECTS, LEPIDOPTERA. LEAF ROLLER MOTHS, TORTRICIDAE, TRIBE LASPEYRESIINI. (RUS)**  
 A S Danilevskii V I Kuznetsov  
*Fauna Sssr Nase Konye Cheshue Krylye* 5(1):635P  
 1968 430 F274

Insect taxonomy, Tortricidae.

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 L Davies  
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 H De Lesse  
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Chromosomes, Insect taxonomy, Lycaenidae, Lysandra coridon, Surveys, Zoogeography. English abstract.

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 C J Dennis  
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Insect identification, Membracidae.

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M Descamps  
*Museum Nat Hist Nat Mem (N s)(SER A)34:1-57 MAP*  
 1965 QL507.6.D4  
 Eumastacidae, Insect identification, Insect taxonomy, Zoogeography. Description of many new species.

14735-69

**CONTRIBUTIONS TO THE STUDY OF EUMASTACIDAE OF MADAGASCAR (ORTHOPTERA-EUMASTACIDAE). II. PSEUDOSCHMIDTIINAE: BIOLOGICAL NOTES AND NEW SPECIES. (FR)**

M Descamps D Wintrebert  
*Museum Nat Hist Nat Mem (N s)(SER A)34:59-185 MAP REF*  
 1965 QL507.6.D4  
 Eumastacidae, Host indexing (plants), Insect identification, Insect taxonomy, Parasitism, Predaceous insects, Zoogeography. Description of many new genera and species.

14736-69

**TWO NEW SPECIES OF COSMOPSALIRIA STAL FROM NEW GUINEA (HOMOPTERA, CICAIDAE).**

J P Duffels  
*Entomol Ber 29(8):147-155 MAP*  
 01 Aug 1968 420 N38B  
 Cicadidae, Insect taxonomy.

14737-69

**TWO NEW SPECIES OF CULEX FROM BRAZIL (DIPTERA, CULICIDAE). (SP)**

J P Duret  
*Physis 28(76):15-19*  
 30 Sep 1968 516 SO12  
 Culex, Insect identification, Insect taxonomy, Zoogeography. English summary.

14738-69

**TAXONOMY, DISTRIBUTION AND BIOLOGY OF THE GENUS CERCYONIS (SATYRIDAE). I. CHARACTERISTICS OF THE GENUS.**

T C Emmel  
*Lepidopterists Soc J 23(3):164-175 MAP REF*  
 24 Sep 1969 421 L554  
 Insect biology, Insect taxonomy, Satyridae, Zoogeography.

14739-69

**A NEW SUBSPECIES IN THE CERCYONIS MEADI GROUP (SATYRIDAE).**

T C Emmel J F Emmel  
*Lepidopterists Soc J 23(3):161-164 MAP*  
 24 Sep 1969 421 L554  
 Insect taxonomy, Satyridae, Zoogeography.

14740-69

**NOTES ON ANOBIIDAE (COLEOPTERA). XXXII. ANOBIIDAE OF THE SPANISH TERRITORIES OF THE GULF OF GUINEA. (SP)**

F Espanol  
*Eos 43(3/4):515-528 REF*  
 01 Oct 1968 421 E07  
 Anobiidae, Insect identification, Insect taxonomy, Zoogeography.

14741-69

**TWO ASCOGASTER SPECIES (HYMENOPTERA, BRACONIDAE), PARASITES OF LEAFROLLERS (LEPIDOPTERA, TORTRICIDAE) IN APPLE ORCHARDS, WITH DIFFERENT HOST SELECTION.**

H H Evenhuis  
*Entomol Ber 29(8):159-160*  
 01 Aug 1969 420 N38B  
 Apples, Braconidae, Insect taxonomy, Parasitic insects, Tortricidae.

14742-69

**STUDY OF THE INFRASTRUCTURE OF THE MOLTING GLANDS OF LOCUSTA MIGRATORIA MIGRATORIOIDES (R. AND F.). I. CYCLIC DEVELOPMENT DURING THE LARVAL STAGES AND PRODUCTION OF THE SECRETION PRODUCT, ECDYSONE. (FR)**

M A Fain-Maurel P Cassier

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30 Oct 1968 410 AR24  
 Ecdysonic, Glands (insects), Insect cytology, Insect physiology, Larvae, Locusta migratoria, Molting (insects). English and German abstracts.

14743-69

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G da V Ferreira  
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 May 1968 421 N853  
 Cerambycidae, Insect taxonomy.

14744-69

**CONTRIBUTIONS TO THE STUDY OF CERAMBYCIDAE OF MOSAMBIQUE. DESCRIPTION OF A NEW SPECIES OF THE GENUS DICHOSTATHES THOMS. (TRIBE CROSSOTINI). (POR)**

G da V Ferreira  
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 Aug 1968 421 N853  
 Cerambycidae, Insect taxonomy.

14745-69

**CONTRIBUTION TO THE STUDY OF SCARABAEIDAE OF MOSAMBIQUE. DESCRIPTION OF A NEW SPECIES OF SUBGENUS SCARABAEOLUS BALTHASAR (GENUS SCARABAEUS L., SUBFAMILY SCARABAEINAE). (POR)**

M C Ferreira  
*Novos Taxa Entomol (58):3-9*  
 Apr 1968 421 N853  
 Insect taxonomy, Scarabaeidae.

14746-69

**SEVEN SPECIES OF CULICIDAE (DIPTERA) NEW FOR THE ARGENTINE ENTOMOFAUNA. (SP)**

M Garcia O Casal  
*Physis 28(76):107-109 REF*  
 30 Sep 1968 516 SO12  
 Culicidae, Insect identification, Insect morphology, Insect taxonomy, Zoogeography. English summary.  
 The seven species recorded for the first time are: *Toxorhynchites bambusicolus*, *Phoniomyia diabolica*, *Ph. fuscipes*, *Wyeomyia codioecampa*, *Culex lucifugus*, *Aedes rhyacophilus* and *Wyeomyia arthrostigma*.

14747-69

**ON THE ECOLOGY OF NATURAL DISPERSAL; DIONE MONETA POEYII IN TEXAS (NYMPHALIDAE).**

L E Gilbert  
*Lepidopterists Soc J 23(3):177-185 MAP REF*  
 24 Sep 1969 421 L554  
 Insect dissemination, Insect ecology, Nymphalidae, Surveys.

14748-69

**TWO NEW SPECIES OF CAVE-DWELLING PSEUDOSINELLA (INSECTA: COLLEMBOLA). (FR)**

H Gisin M M da Gama  
*Rev Suisse Zool 76(2):289-296*  
 Jun 1969 410 R324  
 Collembola, Insect taxonomy.

14749-69

**ADDITIONS TO COCCIDAE OF SPAIN. VII. NOTE. (HEM. HOMOPTERA). (SP)**

J Gomez-Menor Ortega  
*Eos 43(3/4):541-563*  
 01 Oct 1968 421 E07  
 Coccidae, Insect identification, Insect taxonomy, Zoogeography.

14750-69

**TWELVE NEW HEMIPTERA FOR THE FAUNA OF MAJORCA. (DU)**

W H Gravestain  
*Entomol Ber 29(8):156-158*  
 01 Aug 1969 420 N38B  
 Heteroptera, Insect taxonomy.

14751-69

**THE BOMBYLIIDAE (DIPTERA) OF NORTHERN ETHIOPIA.**

D J Greathead  
*Ann Mag Natur Hist 1(2, APR-JUN):195-284 MAP REF*  
 Jun 1967 410 AN77  
 Bombyliidae, Catalogs, Insect taxonomy, Zoogeography.

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**ANNOTATED KEY TO THE PLUSIINAE MOTHS OF FLORIDA (LEPIDOPTERA: NOCTUIDAE).**

D H Habeck  
*Fla Dep Agr Div Plant Indus Tri-ology Tech Rep 7(5):19-20*  
 May 1968 423.9 F6622  
 Insect identification, Insect taxonomy, Plusiinae, Zoogeography.

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**CHRYSOMELIDAE OF THE DEBDOU MOUNTAINS OF MOROCCO. (COLEOPTERA). (FR)**

P Jolivet  
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 01 Oct 1968 421 E07  
 Chrysomelidae, Insect ecology, Insect identification, Insect taxonomy.

14754-69

**CONTRIBUTION TO THE FAUNA OF IRAN. 15. COLEOPTERA. TENEBRIONIDAE, GENUS LOBODERA. (FR)**

Z Kaszab  
*Soc Entomol France Ann 5(2):451-456*  
 1969 420 F84  
 Insect taxonomy, Surveys, Tenebrionidae, Zoogeography.

14755-69

**FURTHER OBSERVATIONS ON SAGITTACRIDINI, GYMNHOIPPINI AND GELOIINI (ORTH.: PYRGOMORPHIDAE).**

D K M Kevan  
*Eos 43(3/4):575-589 REF*  
 01 Oct 1968 421 E07  
 Insect identification, Insect taxonomy, Pyrgomorphaeidae.

14756-69

**A NEW SPECIES OF ALLODIOPSIS TUOM. (DIPT., MYCETOPHILIDAE) TAKEN IN BERKSHIRE.**

L N Kidd  
*Entomologist (london) 102(1276):201-202*  
 Sep 1969 421 EN8  
 Insect taxonomy, Mycetophilidae.

14757-69

**A REVIEW OF GLAUCOPSYCHE, THE SILVERY BLUES IN CALIFORNIA (LYCAENIDAE).**

R L Langston  
*Lepidopterists Soc J 23(3):149-154 REF*  
 24 Sep 1969 421 L554  
 Insect taxonomy, Lycaenidae, Surveys.

14758-69

**A NEW GENUS IN APHIDIDAE FROM SOUTHERN FRANCE (HOM., APIHIDOIDEA). (FR)**

F Leclant  
*Soc Entomol France Ann 5(2):429-438*  
 1969 420 F84  
 Aphididae, Insect taxonomy. English abstract.

14759-69

**CONTRIBUTION TO THE STUDY OF THE BLOOD SUCKING DIPTERA OF TURKEY. THE OCCURRENCE OF MUSCA (PHILAEMATOMYIA) CRASSIROSTRIS STEIN. (DIPTERA MUSCIDAE). (FR)**

M Leclereq  
*Bull Recher Agron Gembloux (N s)2(3):517-519 REF*  
 1967 S5.B8



Diptera, Insect identification, Insect taxonomy, Insect vectors, Livestock diseases, Muscidae, Zoogeography.

14760-69

A NEW TAXONOMIC CRITERION FOR COCKROACHES: THE INSERTION OF THE MALPIGHIAN TUBULES. (FR)

O Leconte J C Lefevre P Razet

*Acad Sci Compt Rend Ser D Sci Nat* 265(19, 2ND SEMESTER):1397-1400

06 Nov 1967 505 P21

Blattidae, Insect taxonomy, Malpighian tubes.

14761-69

REVIEW OF HOLARCTIC TARSONEMID MITES (ACARINA: PROSTIGMATA) PARASITIZING EGGS OF PINE BARK BEETLES.

E E Lindquist

*Entomol Soc Can Mem* (60):111P MAP REF

1969 420 EN824

Forest insects, Insect eggs, Insect identification, Insect morphology, Insect taxonomy, Parasitic insects, Scolytidae, Tarsonemidae. The systematics in this review is based on the study of about 2500 specimens.

14762-69

RESULTS OF THE PERIS-ALVAREZ EXPEDITION TO THE ISLAND OF ANNOBON. (12). MANTODEA, TETTIGONOIDEA AND ACRIDOIDEA I. (ORTHOPTERA). (SP)

V Llorente

*Eos* 43(3/4):591-622 MAP REF

01 Oct 1968 421 E07

Aceridoidea, Expeditions, Insect ecology, Insect taxonomy, Mantidae, Tettigonidae, Zoogeography.

14763-69

A CONTRIBUTION TO THE KNOWLEDGE OF ARGENTINE SCORPIONS. II. CONSIDERATIONS ON THE GENUS BOTHRIURUS IN PATAGONIA AND TIERRA DEL FUEGO WITH THE DESCRIPTION OF A NEW SPECIES (BOTHRIURIDAE). (SP)

E A Maury

*Physis* 28(76):149-164 MAP REF

30 Sep 1968 516 SO12

Insect ecology, Insect identification, Insect taxonomy, Scorpionida, Zoogeography. English summary.

14764-69

A NEW SPECIES AND SUBSPECIES OF GENUS DYSAPHIS BORN (APHIDOIDEA) FROM TADJIKISTAN. (RUS)

M N Narzikulov

*Akad Nauk Tadjh Ssr Dokl* 10(10):62-63

1967 511 AK193D

Aphididae, Dysaphis, Insect identification, Insect taxonomy, Zoogeography.

14765-69

THE LARVA OF SIGARA HELLENSI (C. SAHLB.) (HEM. CORIXIDAE).

N Nieser

*Entomol Ber* 29(8):141-142

01 Aug 1969 420 N38B

Corixidae, Insect taxonomy, Larvae.

14766-69

FAUNISTIC DATA ON AQUATIC HETEROPTERA III. VARIOUS LOCALITIES IN EUROPE. (FR)

N Nieser

*Entomol Ber* 29(6):115-116

01 Jun 1969 420 N38B

Aquatic insects, Austria, Belgium, Norway, Spain, Surveys. English abstract.

14767-69

EUREMA SALOME IN TEXAS (PIERIDAE).

P A Opler

*Lepidopterists Soc J* 23(3):188

24 Sep 1969 421 L554

Insect identification, Pieridae, Zoogeography.

14768-69

A STUDY OF MELOIDAE. XX. ON THE GENUS GORRIZIA PARDO AND A NEW SUDANESE SPECIES OF THE GROUP BRUNNIPES (KLUG). (FR)

A Pardo Aleaide

*Eos* 43(3/4):623-629

01 Oct 1968 421 E07

Insect taxonomy, Meloidae, Zoogeography.

14769-69

THE GENUS TRYSSOTMELE SIMON, 1902

(ARANEAE, DIPLURIDAE). (SP)

B S G de Pikelin R D Schiapelli

*Physis* 28(76):21-31

30 Sep 1968 516 SO12

Araneida, Insect identification, Insect taxonomy, Zoogeography. English summary. 6 species discussed were: *T. subcalpetana*, *T. australis*, *T. latastei*, *T. pissii*, *T. fuegiana* and *T. patagonica*.

14770-69

UNCOMMON BUTTERFLIES OF NORTHEASTERN INDIANA.

H F Preece E M Shull

*Lepidopterists Soc J* 23(3):186-188

24 Sep 1969 421 L554

Hesperiidae, Lycaenidae, Nymphalidae, Pieridae, Riodinidae, Satyridae, Surveys.

14771-69

THE HAEMATOPOTA OF THE IBERIAN PENINSULA. II. DESCRIPTION OF THE MALE OF HAEMATOPOTA LAMBI VILLEN. (SP)

F Salom

*Soc Espan Hist Natur Bol Secc Biol* 65(1-2):17-20

30 Sep 1967 442.9 SO18

Haematopota, Insect identification, Insect taxonomy. English summary.

14772-69

NOTES ON FUSTIGER ELEGANS RAFFRAY (COLEOPTERA, PSELAPHIDAE) IN URAGUAY AND ARGENTINA. (SP)

P R San Martin

*Physis* 28(76):59-64 MAP

30 Sep 1968 516 SO12

Insect behavior, Insect populations, Pselaphidae, Solenopsis saevissima, Solenopsis saevissima richteri, Zoogeography. English summary.

14773-69

THE CORIXIDAE (HEMIPTERA) OF OKLAHOMA.

K F Schaefer

*Okla Acad Sci Proc* 48:71-79

1969 500 OK42

Corixidae, Insect taxonomy, Surveys, Zoogeography.

14774-69

THE AQUATIC AND SEMIAQUATIC HEMIPTERA (BELOSTOMATIDAE AND SALDIDAE) OF OKLAHOMA.

K F Schaefer W A Drew

*Okla Acad Sci Proc* 48:79-83 REF

1969 500 OK42

Aquatic insects, Belostomatidae, Insect identification, Saldidae, Surveys, Zoogeography.

14775-69

LYGAEIDAE (HEMIPTERA) OF OKLAHOMA.

K F Schaefer W A Drew

*Okla Acad Sci Proc* 48:83-104 REF

1969 500 OK42

Insect taxonomy, Lygaeidae, Surveys, Zoogeography.

14776-69

THE GENUS ACHETOPUS TULLGREN 1905

(ARANEAE, DIPLURIDAE). (SP)

R D Schiapelli B S G de Pikelin

*Physis* 28(76):183-192

30 Sep 1968 516 SO12

Araneida, Insect identification, Insect taxonomy, Zoogeography. English summary.

14777-69

BIOLOGICAL NOTES ON THE GENUS TINNA DOHRN (HEMIPTERA, REDUVIIDAE, EMESITAE). (FR)

L G Segers

*Biol Jaarb* 35:277-278

1967 410 B52

Insect identification, Predaceous insects, Reduviidae, Zoogeography.

14778-69

DIASPIDIDAE OF TAIWAN BASED ON MATERIAL COLLECTED IN CONNECTION WITH THE JAPAN-U. S. CO-OPERATIVE SCIENCE PROGRAMME, 1965 (HOMOPTERA: COCCOIDEA). PART I.

S Takagi

*Insecta Matsumurana* 32(1):1-110

Aug 1969 421 IN77

Diaspididae, Insect taxonomy, Surveys, Zoogeography.

14779-69

SPHECIDAE COLLECTED AT TENERIFE.

R T S Thomas

*Entomol Ber* 29(6):120

01 Jun 1969 420 N38B

Sphecidae, Surveys.

14780-69

REVISION OF THE GENUS SAPHANODES (COL., CERAMBYCIDAE, DISTENIINAE). (FR)

A Villiers

*Soc Entomol France Ann* 5(2):523-533

1969 420 F84

Cerambycidae, Insect taxonomy, Zoogeography. English abstract.

14781-69

FAUNISTIC REMARKS ON THE WEST PALEARCTIC BEES OF THE GENUS ANDREANA F. (HYMENOPTERA APOIDEA). (GE)

K Warnecke

*Bull Recher Agron Gembloux (N s)2(3):569-581*

1967 55.88

Andrenidae, Hymenoptera, Insect identification, Insect taxonomy, Zoogeography. Listing of erroneous identifications plus listing of 187 new occurrences of Andrenidae.

14782-69

ANASTREPHA OCRESIA (WALKER) (DIPTERA: TEPHRITIDAE).

H V Weems

*Fla Dep Agr Div Plant Indus Tri-ology Tech Rep*

7(4):19-20

Apr 1968 423.9 F6622

Anastrepha, Grapefruit, Guavas, Insect identification, Insect pests, Sapodilla, Zoogeography.

14783-69

ALEOCHARA VERNA SAY (COL., STAPHYLINIDAE) NEW TO BRITAIN.

R C Welch

*Entomologist (london)* 102(1276):207-209

Sep 1969 421 EN8

Insect taxonomy, Staphylinidae.

14784-69

A NOTE ON THE GENUS DROSOPHILELLA DUDA (DIPTERA; DROSOPHILIDAE).

M R Wheeler

*Pacific Sci* 23(4):544-545

Oct 1969 475 P11

Drosophilidae, Insect biology, Insect taxonomy.

14785-69

REMARKS ON THE NOMENCLATURE AND FAUNA OF SOME WEST-PALEARCTIC HAPLOTHRIPS SPECIES. (THYS. PHLAEOTHIRIPIDAE). (GE)

R Zur Strassen

*Eos* 43(3/4):631-644 REF

01 Oct 1968 421 E07

Haplothrips, Insect taxonomy, Nomenclature, Phlaeothripidae, Thysanoptera, Zoogeography.

## PHYSIOLOGY AND BIOCHEMISTRY

14786-69

THE MAINTENANCE AND DECLINE OF THE LARGE POPULATIONS OF THE AFRICAN MIGRATOR LOCUST, *LOCUSTA MIGRATORIA MIGRATORIOIDES* (R. AND F.): THE ROLE OF THE PHOTOPERIOD IN DETERMINATIONS OF RECESSIONS. (FR)  
F O Albrecht

*Acad Sci Compt Rend Ser D* 268(22, 1ST SEMESTER):2730-2733

02 Jun 1969 505 P21

Insect physiology, Locusta migratoria, Photoperiodism, Population.

14787-69

THE EFFECT OF TEMPERATURE ON THE PATHOGENICITY OF THE FUNGUS, *ASCOSPHAERA APIS*, FOR LARVAE OF THE HONEY BEE, *APIS MELLIFERA*.

L Bailey

162-167

1967 SB932.15

Apis mellifera, Fungus diseases (insects), Larvae, Microbiology, Mortality, Temperature.

14788-69

RESEARCH ON NERVE ACTION IN *ANTHERAEA PERNYI* GUER. (LEP.) WITH SPECIAL CONSIDERATION OF THE DORSOLONGITUDINAL FLIGHT MUSCLES. (GE)

W Basler

*Rev Suisse Zool* 76(2):297-362 REF

Jun 1969 410 R324

Antheraea pernyi, Insect physiology, Nervous system. English and French abstracts.

14789-69

ON SOME ASPECTS OF THE BIOLOGY OF *ACHETA DOMESTICUS* INSECTA, ORTHOPTERA WITH REFERENCE TO THE INFESTATION OF REFUSE TIPS.

J Bate

*Pedobiologia* 9(4):300-322 REF

1969 56.8 P343

Acheta domesticus, Insect behavior, Insect ecology, Insect flight, Population.

14790-69

PROBLEMS OF RESISTANCE OF THE COLORADO BEETLE IN AUSTRIA. (GE)

W Beck

*Berlin Biol Bundesanst Land-forstwirtschaft Mitt*

132(37):160-162

Jan 1969 410.9 G31M

Carbamates, Chlorinated hydrocarbons, Lepidoptera decemlineata.

14791-69

OCCURRENCE OF *SPHAEROLECANIUM PRUNASTRI* (FONSCOLOMBE) IN ISRAEL AND DESCRIPTION OF ITS HITHERTO UNKNOWN LARVAL INSTAR.

Y. Ben-Dov

*Ann Epiphyt* 19(4):615-621

1968 464.9 F84AN

Coccidac, Insect biology, Insect morphology, Larvae, Plums, Weather.

14792-69

THE PARASITISM OF VARIOUS SPECIES OF COCCIDS OF THE *LEUCAPIS* GENUS IN THE ALPES-MARITIME DEPARTMENT OF FRANCE AND CORSICA. I. INVENTORY AND DISTRIBUTION OF *LEUCAPIS* GENUS AND THEIR PARASITES (HYMENOPTERA, CHALCIDOIDEA). (FR)

C Benassy

*Ann Epiphyt* 19(4):659-681 MAP REF

1968 464.9 F84AN

Coccidac, Hymenoptera, Insect morphology, Parasitic insects, Surveys, Zoogeography. English abstract.

14793-69

DEMONSTRATION OF THE VAGIOVIRUS BY THE ELECTRON MICROSCOPE AFTER THE DISSOLUTION OF THE INCLUSION BODIES. (FR)

M Bergoin R Scalla J L Duthoit C Vago

63-68

1967 SB932.15

Electron microscopy, Inclusion bodies, Insect diseases, Melolontha melolontha, Vagovirus, Virology.

14794-69

THE IDENTIFICATION OF A VIRUS THROUGH THE ELECTRONIC MICROSCOPE: THE SIGMA VIRUS OF *DROSOPHILA*. (FR)

A Berkaloff

59-62

1967 SB932.15

Drosophila melanogaster, Electron microscopy, Insect diseases, Sigma virus, Virology.

14795-69

ROLE OF VEGETATION IN SEXUAL MATURATION OF THE DESERT LOCUST (*SCHISTOCERCA GREGARIA* FORSK.).

D R Bhatia P J S Ahluwalia

*Plant Protect Bull* 19(1):36-37

1967 421 P69

Ascorbic acid, Cauliflower, Insect nutrition, Insect physiology, Jujube, Prosopis, Schistocerca gregaria, Sex, Vegetation.

14796-69

SILKWORM BREEDINGS INFLUENCE CONCERNING RAW SILK PURITY. (POR)

A Borgonovi J R Pedro

*Bol Tec Sericult* (48):1-13

1966 425.9 SA6B

Bombyx mori, Insect rearing, Silk. English summary.

14797-69

THE ANATOMY AND HISTOLOGY OF THE DIGESTIVE TRACT OF *HYPODERMA BOVIS* LARVAE (DIPTERA: OESTRIFORMES). (FR)

C Boulard

*Soc Entomol France Ann* 5(2):371-387 REF

1969 420 F84

Hypoderma bovis, Insect histology, Insect morphology, Larvae, Oestridae. English abstract.

14798-69

CANNIBALISM BY A HERBIVORE, *MICROCYLLOEPUS PUSILLUS* (COLEOPTERA: ELMIDAE).

H P Brown C M Shoemaker

*Oklo Acad Sci Proc* 48:15

1969 500 OK42

Algae, Bacteria, Cannibalism, Elmidae, Food habits.

14799-69

THE STANDARDIZATION OF *BACILLUS THURINGIENSIS*: TESTS ON THREE CANDIDATE REFERENCE MATERIALS.

H D Burges et. al.

314-338 REF

1967 SB932.15

Bacillus thuringiensis, Bacteria, Biological assay, Biological control (insects), Insect pests, Methodology, Statistical analysis.

14800-69

THE MALE LINE OF *EUPULVINARIA HYDRANGAEAE* (HOM., COCCIDAE). (FR)

M Canard

*Soc Entomol France Ann* 5(2):457-460

1969 420 F84

Coccidac, Insect biology, Insect morphology. English abstract.

14801-69

THE FEMALE GENITAL APPARATUS OF *RANATRA* (HEMIPTERA, RANATRIDAE). (SP)

J A De Carlo

*Physis* 28(76):199-201

30 Sep 1968 516 SO12

Insect eggs, Oviposition, Ranatra, Reproductive organs. English summary.

14802-69

INFRASTRUCTURAL STUDY OF THE MOLT GLANDS OF *LOCUSTA MIGRATORIA MIGRATORIOIDES* (R. AND F.). IV. DEVELOPMENT OF THE MOLT GLANDS IN THE COURSE OF SEXUAL MATURATION AND OVARIAN CYCLES IN GREEN SOLITARY ADULTS. (FR)

P Cassier M A Fain-Maurel

*Arch Zool Exp Gen* 110(2):267-277 REF

15 Jul 1969 410 AR24

Glands (insects), Insect physiology, Locusta migratoria. English and German abstracts.

14803-69

INFRASTRUCTURAL STUDY OF THE MOLT GLANDS IN *LOCUSTA MIGRATORIA MIGRATORIOIDES* (R. AND F.). III. ON THE PRESENCE OR DEGENERATION OF THE VENTRAL GLANDS IN SOLITARY IMAGOS. (FR)

P Cassier M A Fain-Maurel

*Arch Zool Exp Gen* 110(2):203-222 REF

15 Jul 1969 410 AR24

Insect evolution, Insect morphology, Locusta migratoria. English and German abstracts.

14804-69

CONTRIBUTION TO THE KNOWLEDGE OF *STAUROMEMATUS COMPRESSICORNIS* (F.). (HYMENOPTERA-TENTHREDINIDAE). (IT)

B Cavalcaselle

*Ente Noz Cell Corto Cent Sperim Agr Forest Pubbl* 9(4):235-280 REF

1968 16 C332

Arsenic compounds, Benzene hexachloride, Chemical control (insects), Chlorinated hydrocarbons, Cultural control (insects), Demeton, Insect biology, Irrigation, Lead arsenate, Organophosphorus compounds, Parathion, Tenthredinidae, Tillage. English summary.

14805-69

OCCURRENCE OF *HIRSUTELLA VERSICOLOR* PETCH ON MANGO LEAF HOPPER (*IDIOCERUS* SP.) IN INDIA.

B P Chakravarti

*Cur Sci* 36(19):527-528

05 Oct 1967 475 SC123

Cicadellidac, Entomogenous fungi, Hirsutella, Idiocerus, Morphology.

14806-69

THE INFLUENCE OF THE PHOTOPERIOD ON HEMOLYMPH PROTEIN VARIATIONS IN *PIERIS BRASSICAE* L. BEFORE THE ONSET OF DIAPAUSE. (FR)

J Claret

*Acad Sci Compt Rend Ser D* 268(25, 1ST SEMESTER):3126-3129

23 Jun 1969 505 P21

Hemolymph, Insect physiology, Light, Photoperiodism, *Pieris brassicae*, Proteins.

14807-69

EVIDENCE OF AN ALARM PHERMONE IN THE ANT *ODONTOMACHUS HAEMATODES* (HYM. FORM. PONERINAE). (FR)

P Colombel

*Acad Sci Compt Rend Ser D Sci Not* 266(8, 1ST SEMESTER):806-807

19 Feb 1968 505 P21

Hormones, Insect behavior, Pheromones, Ponerinae, Secretions.

14808-69

THE INFLUENCE OF FIRE ON THE CARABID POPULATIONS IN THE LAMTO SAVANNAH (IVORY COAST). (FR)

J Daget Ch Lecordier

*Soc Entomol France Ann* 5(2):315-327

1969 420 F84

Carabidac, Fires, Insect ecology, Population. English abstract.

- 14809-69**  
A CONTRIBUTION TO THE UNDERSTANDING OF THE BIOLOGY OF SESAMIA CRETICA LED. (LEPIDOPTERA AGROTIDAE) IN TRIPOLITANIA. (IT)  
A Damiano  
*Riv Agr Subtrop Trop* 61(7-9 JUL-SEP):261-270 REF  
1967 26 AG82  
Agrotidae, Chemical control (insects), Insect behavior, Insect biology, Insect morphology, Insect pests, Reproduction, Sorghum.
- 14810-69**  
A BREEDING METHOD FOR CARDIASTHETUS NAZARENUS REUTER (HEMIPT. ANTHOCORIDAE) FED ON EGGS OF ANAGASTA KUEHNIELLA Z. (LEPIDOPT. PYRALIDAE). (FR)  
J. Daumal  
*Ann Epiphyt* 19(4):721-726  
1968 464.9 F84AN  
Anthocoridae, Insect physiology, Insect rearing, Methodology, Predaceous insects, Pyralidae. English abstract
- 14811-69**  
FURTHER CHEMICAL CONTROL TESTS AGAINST PARANTHRENE TABANIFORMIS ROTT. (IT)  
E De Bellis B Cavalcaselle  
*Ente Naz Cell Carta Cent Sperim Agr Forest Publ* 9(4):283-291 REF  
1968 16 C332  
Chemical control (insects), Dimethoate, Insecticides, Larvae, Lepidoptera, Nurseries, Organophosphorus compounds, Phenthoate. English summary.
- 14812-69**  
DESCRIPTION AND LOCATION OF THE LARGE NERVE CELLS IN ICERYA PURCHASI (INSECTA, HOMOPTERA, COCCIDAE). (FR)  
R Delavault M Royer C Vion  
*Paris Soc Biol Compt Rend* 163(3):577-581  
15 Sep 1969 442.9 P21  
Coccidae, Icerya purchasi, Insect physiology, Nervous system.
- 14813-69**  
PHALAEOPSIS MITE, TENUIPALPUS PACIFICUS BAKER.  
H A Denmark  
*Fla Dep Agr Div Plant Indus Tri-ology Tech Rep* 7(7):11  
Jul 1968 423.9 F6622  
Chemical control (insects), Chlorinated hydrocarbons, Chlorobenzilate, Dicofof, Ethion, Host indexing (plants), Insect identification, Insect pests, Methyl demeton, Orchidaceae, Organophosphorus compounds, Tenuipalpus, Zoogeography.
- 14814-69**  
THE POST-EMBRYONIC ONTOGENY OF ACRIDOMORPHA. (ORTHOPTERA).  
V M Dirsh  
*Eos* 43(3/4):413-514 REF  
01 Oct 1968 421 E07  
Acrididae, Insect identification, Insect morphology, Nymphs, Ontogeny, Orthoptera. Many species are discussed.
- 14815-69**  
FLIGHT CAPACITY OF BLOOD-ENGORGED MOSQUITOES.  
J D Edman W L Bidlinemayer  
*Mosquito News* 29(3):386-392 REF  
Sep 1969 421 M85  
Blood meal, Culex nigripalpus, Insect behavior, Insect collection, Insect flight, Psorophora confinnis.
- 14816-69**  
THE SECOND ALL-UNION SYMPOSIUM ON SOIL-FORMING MITES (ORIBATEI).  
I Eitminaviciute  
*Pedobiologia* 9(4):349-350  
1969 56.8 P343  
Insect biology, Oribatei.
- 14817-69**  
MEASUREMENT OF FIELD POPULATIONS OF AEDES AEGYPTI WITH THE OVI TRAPS IN 1968.  
B R Evans G A Bevier  
*Mosquito News* 29(3):347-353  
Sep 1969 421 M85  
Aedes aegypti, Oviposition, Population, Surveys, Traps.
- 14818-69**  
INFRASTRUCTURAL STUDY OF THE CORPORA ALLATA OF LOCUSTA MIGRATORIA MIGRATORIOIDES (R. AND F.), SOLITARY PHASE, DURING SEXUAL MATURATION AND THE OVARIAN CYCLE. (FR)  
M-A Fain-Maurel P Cassicr  
*Acad Sci Compt Rend Ser D* 268(22, 1ST SEMESTER):2721-2723  
02 Jun 1969 505 P21  
Corpora allata, Electron microscopy, Insect physiology, Locusta migratoria, Metamorphosis, Reproduction.
- 14819-69**  
THE REACTIONS OF THREE SPECIES OF GRASSHOPPER TO SIMPLE VISUAL STIMULI AT DIFFERENT TEMPERATURE-HUMIDITY CONDITIONS.  
D Gardefors  
*Entomol Exp Appl* 11(2):185-194 REF  
1968 421 EN895  
Acrididae, Attractants, Chortippus, Humidity, Insect behavior, Temperature, Vision. German summary.
- 14820-69**  
MASS REARING OF CULEX PIPIENS L.  
E J Gerberg T M Hopkins J W Gentry  
*Mosquito News* 29(3):382-385  
Sep 1969 421 M85  
Culex pipiens, Insect rearing, Insect rearing equipment, Methodology.
- 14821-69**  
CALIBRATING A FIELD SPRAYER.  
J W Glover  
*N C Pesticide Manual* 00(00):151-152  
1967 79.8 N81  
Dairy equipment, Insecticide application.
- 14822-69**  
DEVELOPMENT OF GLYCEMIA IN THE SCORPION ANDROCTONUS AUSTRALIS L. SUBJECTED TO COBALT 60 GAMMA RAYS. (FR)  
M Goyffon R Schantz P Niauxat  
*Paris Soc Biol Compt Rend* 163(3):601-605 REF  
15 Sep 1969 442.9 P21  
Cobalt, Gamma rays, Glycemia, Insect diseases, insect physiology, Scorpionida.
- 14823-69**  
SYSTEMATIC OLIGOPHAGY OF THE CENTRAL-EUROPEAN SPECIES OF THE GENUS LITHOCOLLETIS HBN. AND ARGYRESTHIA HBN. (LEP.) ON PRUNOIDEAE.  
F Gregor D Povolny M Rezac  
*Acta Ent Bohemoslov* 60(1-2):81-93 REF  
1963 420 C33  
Argyresthia, Crop varieties, Insect nutrition, Insect taxonomy, Lithocolletis, Prunus. Czech summary.
- 14824-69**  
ARTIFICIAL MULTIPLICATION OF ANTHILLS. (RUS)  
N Grudev  
*Priroda (Sofia)* (4 JUL-AUG):49-50  
Aug 1969 410 P934  
Formicidae, Insect nests, Insect rearing.
- 14825-69**  
REPORT OF THE 69TH MEETING OF THE DIVISION OF APPLIED ENTOMOLOGY. (DU)  
P Gruys  
*Entomol Ber* 29(6):102  
07 Jun 1969 420 N38B  
Conferences, Insect stings, Malaria, Mange.
- 14826-69**  
RNA AND PROTEIN IN NUCLEOLAR STRUCTURES OF DRAGONFLY OOCYTES.  
L Halkka O Halkka  
*Science* 162(3855):803-805 REF  
15 Nov 1968 470 SC12  
Cordulidae, Insect biochemistry, Insect cytology, Lysine, Nuclcosides, Proteins, Ribonucleic acid, Uridine.
- 14827-69**  
REPORT ON THE 28TH FALL ASSEMBLY OF THE NETHERLANDS ENTOMOLOGICAL ASSOCIATION COMBINED WITH THE 70TH MEETING OF THE DIVISION OF APPLIED ENTOMOLOGY. (DU)  
W Hellinga  
*Entomol Ber* 29(6):107-108  
01 Jun 1969 420 N38B  
Conferences, Entomology, Insect physiology, Plant diseases.
- 14828-69**  
THE ACTION OF THE ENDOCRINE SYSTEM AND THE OVARY ON THE HEMOGRAM OF LOCUSTA MIGRATORIA L. (ORTHOPTERA). THE ROLE OF THE PARS INTERCEREBRALIS. (FR)  
J A Hoffmann A Girardie  
*Acad Sci Compt Rend Ser D* 268(10, 1ST SEMESTER):1427-1429  
10 Mar 1969 505 P21  
Brain, Hormones, Insect physiology, Locusta migratoria, Ovaries.
- 14829-69**  
ON THE PLACE OF THE FIRST MATING IN THE DIFFERENT SEQUENCES OF IMAGINAL ACTIVITY OF ORYCTES RHINOCERAS (COLEOPTERA, SCARABAEIDAE). (FR)  
B Hurpin  
*Acad Sci Compt Rend Ser D* 268(22, 1ST SEMESTER):2701-2703 REF  
02 Jun 1969 505 P21  
Insect behavior, Scarabaeidae, Sex behavior.
- 14830-69**  
BIOLOGICAL STUDY OF SOME HYMENOPTERA OF CHILE. (SP)  
H Janvier  
*Chile Univ Centro Estud Entomol Publ* (9):58P  
1967 420 C432  
Beneficial insects, Hymenoptera, Insect biology, Insect identification. English summary.  
Translation from *Annales des Sciences Naturelles, Zoologie* 16(14-23):209-356, 1933. translated by M. Etcheverry, I. Eldestein, and S. Camus.
- 14831-69**  
ON THE ULTRASTRUCTURE OF THE EYE OF LITHOBIUS FORFICATUS L. (MYRIAPODA, CHILOPODA). (FR)  
R Joly  
*Acad Sci Compt Rend Ser D* 268(26, 1ST SEMESTER):3180-3182  
30 Jun 1969 505 P21  
Chilopoda, Cytology, Electron microscopy, Eyes, Insect morphology.
- 14832-69**  
THE TOXICITY OF CONTACT INSECTICIDES TO SEED-INFESTING INSECTS. TESTS WITH BROMOPHOS ON MAIZE.  
P C Joubert P R De Beer  
*Repub S Afr Dep Agr Tech Serv Tech Commun (SER)* 6(84):9P  
1968 24 SO863  
Bromophos, Chemical control (insects), Corn, Insecticide application, Insecticide resistant insects, Insecticides, Mccrpto compounds, Pyrethrum, Storage, Toxicology. Afrikaans summary.
- 14833-69**  
LIPIDS OF CULEX PIPIENS FATIGANS DURING METAMORPHOSIS.  
R L Kalra B L Watal T A Venkatasubramanian  
*Indian J Exp Biol* 7(3):154-157 REF  
Jul 1969 442.8 IN2

## ENTOMOLOGY

14834-69

Chromatography, *Culex pipiens quinquefasciatus*, Insect biochemistry, Insect physiology, Lipids, Metamorphosis, Phospholipids.

14834-69

THE PHENOLOGY OF PHAROSCYMNUS SPP. AND CHILOCORUS BIPUSTULATUS L. (COCCINELLIDAE) IN DATE PALM PLANTATIONS IN ISRAEL.

M. Kehat  
*Ann Epiphyt* 19(4):605-614  
1968 464.9 F84AN

Coccinellidae, Insect biology, Population, Predaceous insects, Seasonal variation, Weather.

14835-69

THE IMPORTANCE OF THE SITE OF FOOD UP-TAKE OF PLANT-SUCKING INSECTS FOR USE OF SYSTEMIC INSECTICIDES. (GE)

W Kloft H Kunkel  
*Berlin Biol Bundesanst Land-forstwirtschaft Mitt* 132(37):163

Jan 1969 410.9 G31M

Insect behavior, Insect nutrition, Plants, Systemic insecticides. English abstract.

14836-69

BIOLOGY AND EXTERNAL MORPHOLOGY OF FORAGE PESTS. I. TUSOCK CATERPILARS, EUPROCTIS SPP. (LYMANTRIIDAE: LEPIDOPTERA).

K S Kushwaha S C Bhardwaj  
*Indian J Agr Sci* 37(2):93-107

Apr 1967 22 AG83I

Economics, Insect ecology, Insect morphology, Life cycle, Lymantriidae, Plant hosts.

14837-69

STUDY OF THE GONADS OF TRIPLOID INTERSEXES OF DROSOPHILA MELANOGASTER. ONTOGENETIC MORPHOLOGICAL DESCRIPTION OF HISTOLOGICAL STRUCTURES. (FR)

G Laugel  
*Soc Entomol France Ann* 5(2):253-314 REF

1969 420 F84

Chromosomes, *Drosophila melanogaster*, Gonads, Insect histology, Insect morphology. English abstract.

14838-69

THE INFLUENCE OF THE SELECTIVE DESTRUCTION OF THE MICROBIAL FLORA ON THE ACTIVITY OF TWO OXIDASES IN THE XYLOPHAGOUS INSECT IPS SEXDENTATUS. (FR)

A Le Fay A Thuillier C Chararas J-E Courtois  
*Acad Sci Compt Rend Ser D* 268(25, 1ST SEMESTER):3130-3132

23 Jun 1969 505 P21

Insect biochemistry, Insect physiology, Ips sexdentatus, Microorganisms, Oxidases.

14839-69

ENTOMOLOGY IN FORENSIC MEDICINE. (DU)

M Leclercq  
*Entomol Ber* 29(6):104

01 Jun 1969 420 N38B

Arthropoda, Death, Entomology, Medicine, Necrobiosis. English abstract.

14840-69

ON THE INSECTICIDAL PROPERTIES OF THE D-TRANS ETHANOCHRYSANTHAMATE OF BENZYL-5-FURYL METHYL-3. (FR)

J Lhoste F Rauch  
*Acad Sci Compt Rend Ser D* 268(26, 1ST SEMESTER):3218-3220

30 Jun 1968 505 P21

Chemical structure, Insecticidal plants, *Musca domestica*, *Sitophilus granarius*, Toxicity.

14841-69

CONTRIBUTION TO THE BIOLOGICAL STUDY OF XANTHANORUS COMTUS HARR. (DIPTERA, SYRPHIIDAE). (FR)

J-P. Lyon  
*Ann Epiphyt* 19(4):683-693 REF

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1968 464.9 F84AN

Insect biology, Insect ecology, Insect rearing, Predaceous insects, Syrphidae. English abstract.

14842-69

BACTERIAL TOXINS.

O Lysenko  
219-237 REF  
1967 SB932.15

Bacterial diseases (insects), Biochemistry, Endotoxins, Enzymes, Lecithins, Metabolites, Proteinases, Toxicology, Toxins.

14843-69

ON THE KNOWLEDGE OF THE BIOLOGIC VALENCE OF ONYCHIURUS CARVERNICOLOUS AND O. VORNATSCHERI COLLEMBOLA, INSECTA APTERYGOTA. ON TEMPERATURE, HUMIDITY, AND LIGHT REACTIONS. (GE)

K Mais  
*Pedobiologia* 9(4):282-287  
1969 56.8 P343

Humidity, Insect behavior, Light, Onychiuridae, Temperature.

14844-69

ALLOMORPHOSIS AND GEOGRAPHY IN INSECT POPULATIONS.

L G Mason  
*Syst Zool* 16(1):90-94 MAP  
Mar 1967 410 SY8

Insect morphology, Insect populations, Lamiidae, Sex, Thorax, Zoogeography.

14845-69

A COMPREHENSIVE ELECTRON MICROSCOPIC STUDY OF THE EPICUTICULAR ORNAMENTATION OF THE COLLEMBOLA. (FR)

Z Massoud  
*Acad Sci Compt Rend Ser D* 268(10, 1ST SEMESTER):1407-1409  
10 Mar 1969 505 P21

Collembola, Cuticle, Electron microscopy, Histology.

14846-69

FIELD OBSERVATIONS ON FOREST OENEIS (SATYRIDAE).

J H Masters J T Sorensen  
*Lepidopterists Soc J* 23(3):155-161 REF  
24 Sep 1969 421 L554

Forest insects, Insect ecology, Satyridae, Surveys.

14847-69

A NOTE ON HELICONIUS ANTHOCHUS SALVINII (NYMPHALIDAE).

J H Masters  
*Lepidopterists Soc J* 23(3):199-201  
24 Sep 1969 421 L554

Insect identification, Insect morphology, Nymphalidae.

14848-69

RECORD OF APOLLODOTUS PRAEFECTUS DISTANT (HETEROPTERA: MIRIDAE), PREDACIOUS ON STEPHANITIS TYPICUS DISTANT (HETEROPTERA: TINGIDAE), A PEST OF COCONUT PALM.

K Mathen B Sathiamma C Kurian  
*Cur Sci* 36(2):52  
20 Jan 1967 475 SCI23

Coconuts, Miridae, Predaceous insects, Stephanitis.

14849-69

NEW RECORD OF ENTOMOPHTHORA SP. PARASITIC ON RHOPALOSIPHUM MAIDIS (FITCH) AND LUCILIA CUPRINA (WIDEMANN).

S B Mathur R P Srivastava B R S Rao  
*Cur Sci* 36(12):328  
20 Jun 1967 475 SCI23

Entomophthora, Fungal diseases (insects), Phaenicia cuprina, Rhopalosiphum maidis.

14850-69

RESISTANCE AGAINST PESTICIDES. (GE)

K Mayer

*Berlin Biol Bundesanst Land-forstwirtschaft Mitt* 132(37):140-153 REF

Jan 1969 410.9 G31M

Arthropoda, Microorganisms, Reviews, Rodents, Weeds. English abstract.

14851-69

THE BIOLOGIES OF THE PSEUDOHYLESINUS TSUGAE AND P. GRANDIS (COLEOPTERA: SCOLYTIDAE) IN WESTERN HEMLOCK.

J H McGhehey W P Nagel  
*Can Entomol* 101(3):269-279 REF  
Mar 1969 421 C16

Forest insects, Insect biology, Insect pests, Plant injuries, Scolytidae, *Tsuga heterophylla*, Zoogeography.

14852-69

A LITERATURE REVIEW OF THE SPRUCE, WESTERN, AND 2-YEAR-CYCLE BUDWORMS CHORISTONEURA FUMIFERANA, C. OCCIDENTALIS, AND C. BIENNIS (LEPIDOPTERA: TORTRICIDAE).

M E McKnight  
*US Forest Serv Rocky Mount Forest Range Exp Sta Pap RM* (44):35P REF  
1968 A99.9 F7632U

Biological control (insects), Chemical control (insects), Choristoneura, Choristoneura fumiferana, Choristoneura occidentalis, Cultural control (insects), Insect biology, Insect diseases, Insect ecology, Insect populations, Insect taxonomy, Predaceous insects, Predatory birds, Tortricidae, Tree injuries.

14853-69

A VIROSIS WITH OVOID INCLUSIONS IN LEPIDOPTERA. (FR)

G. Meynadier J. Fosset C. Vago J-L. Duthoit N. Bres  
*Ann Epiphyt* 19(4):703-706 REF  
1968 464.9 F84AN

Cytology, Electron microscopy, Insect diseases, Oreopsysche, Psychidae. English abstract.

14854-69

AN ANOMALOUS FORELEG IN A MALE OF DODONIDIA HELMSH (SATYRIDAE).

L D Miller  
*Lepidopterists Soc J* 23(3):201-202  
24 Sep 1969 421 L554

Insect physiology, Legs, Satyridae.

14855-69

OBSERVATIONS ON THE VARIATIONS IN AMOUNT OF TREHALDSE DURING DIRECT DEVELOPMENT AND DIAPAUSE IN PIERIS BRASSICAE L. (FR)

R Moreau  
*Acad Sci Compt Rend Ser D* 268(10, 1ST SEMESTER):1441-1447  
10 Mar 1969 505 P21

Insect physiology, *Pieris brassicae*, Trehalose.

14856-69

ANATOMIC STUDIES ON THE HYPOPHARYNX OF FORFICULA AURICULARIA L. (INSECTA, DERMAPTERA): TEGUMENTS, MUSCULATURE, SENSE ORGANS, AND INNERVATIONS. MORPHOLOGIC INTERPRETATION. (FR)

M Moulins  
*Zool Jahrbucher Abt Allg Zool Physiol Tiere* 86(1):1-27 REF

1969 410 Z751Z

Cuticle, Forficula auricularia, Insect morphology, Muscles, Nerves, Pharynx, Sense organs. English abstract.

14857-69

ON MASS CULTIVATION, DETERMINATION OF EFFECTIVENESS, AND STANDARDIZATION OF INSECT PATHOGENIC FUNGI.

E Muller-Kogler  
339-354 REF  
1967 SB932.15

Biological control (insects), Culture media, Entomogenous fungi, Insect diseases, Methodology, Rearing, Spore germination. German summary.

14858-69

A FURTHER FIELD EXPERIMENT REGARDING THE EFFECT OF FENTIN ACETATE, MANEB AND COPPER OXYCHLORIDE FUNGICIDES ON THE POPULATION DENSITY OF THE COLORADO BEETLE (LEPTINOTARSA DECEMLINEATA SAY.). (FR)

R Murbach

Switzerland Stat Essais Agr Lausanne Publ (792):345-357 REF

Dec 1967 105.5 SW63

Copper oxychloride, Fentin acetate, Fungicides, Fungus diseases (plants), Insect nutrition, Insect populations, Late blight, Leptinotarsa decemlineata, Maneb, Potatoes, Thiocarbamates, Virus diseases (plants). English and German summaries.

Reprint from: Recherche agronomique en suisse 6(314):345-357, 1967.

14859-69

STUDIES ON PANONYCHUS ULMI (KOCH) IN LEBANON.

S Musa G Dosse M Tebcherany

Magon (SER)(20):27P REF

May 1968 S19.M3

Apples, Bionomics, Fruit trees, Insect pests, Integrated control (insects), Panonychus ulmi, Predaceous insects. French summary.

14860-69

ON THE CLASSIFICATION OF THE INSECT PARASITIC NEMATODES OF THE SPHAERULARIIDA LUBBOCK, 1861 (TYLENCHOIDEA: NEMATODA).

W R Nickle

Helminthol Soc Wash Proc 34(1):72-94 REF

Jan 1967 436.9 H36

Biology, Insect diseases, Insects, Nematodes, Parasitism, Sphaerulariidae, Taxonomy.

14861-69

THE INFLUENCE OF CITRICULTURAL PRACTICES ON THE COMPOSITION OF SOIL ACARI AND COLLEMBOLA POPULATIONS.

P G Olivier P A J Ryke

Pedobiologia 9(4):277-281

1969 56.8 P343

Acarina, Citrus, Collembola, Population, Surveys.

14862-69

INTERSPECIFIC INHIBITIONS RELEASED BY FERTILIZED FEMALES OF THE ANT PARASITES PLAZIOLEPIS XENE ST. AND PLAZIOLEPIS GRASSET LE MAS. PAS.. (FR)

L Passera

Acad Sci Compt Rend Ser D Sci Nat 265(22, 2ND SEMESTER):1721-1724 REF

27 Nov 1967 505 P21

Formicidae, Insect behavior, Insect evolution, Oviposition.

14863-69

LEPIDOPTERA ASSOCIATED WITH PIG CARRION.

J A Payne E W King

Lepidopterists Soc J 23(3):191-195 REF

24 Sep 1969 421 L554

Baby pigs, Carcasses, Lepidoptera, Surveys.

14864-69

PATHOGENICITY STUDIES OF NEOAPLECTANID NEMATODES AND THEIR USE FOR INSECT CONTROL.

G O Poinar

197-199 REF

1967 SB932.15

Achromobacter nematophilus, Biological control (insects), Insect diseases, Insect pests, Nematodes, Neoaplectana.

14865-69

THE ACTION OF DIFFERENT FACTORS ON THE NUMBER OF LARVAL STAGES IN THE TOMATO NIGHT MOTH HELICOVERPA ARMIGERA HBN. (FR)

S Poitout R Cayrol

Soc Entomol France Ann 5(2):407-427

1969 420 F84

Insect nutrition, Insect physiology, Insect rearing, Larvae, Lepidoptera, Light, Metamorphosis, Temperature. English abstract.

14866-69

CHLORIDEA. (RUS)

V Popova

Priroda (Sofia) (4 JUL-AUG):62-64

Aug 1969 410 P934

Insect biology, Lepidoptera.

14867-69

TRENDS OF MITE POPULATIONS IN LOWER RIO GRANDE VALLEY CITRUS GROVES IN 1962-63 AND 1966-67.

D K Reed S J Ingic W G Hart J W Balock

Rio Grande Val Hort Soc J 21:16-27

1967 81 L95

Citrus, Coccus hesperidum, Eutetranychus banksi, Insect pests, Insect populations, Phyllocoptera oleivora, Surveys.

14868-69

EVALUATION OF SOME SPRAY OILS USED ON CITRUS IN TEXAS.

R B Reinking

Rio Grande Val Hort Soc J 21:28-34

1967 81 L95

Chemical control (insects), Citrus, Coccoidea, Oils, Plant protection, Spraying.

14869-69

MAKING TESTS BY RADIOACTIVE PHOSPHOROUS P32 FOR THE ABSOLUTE ESTIMATIONS OF LARVAL POPULATIONS OF CULICIDS (DIPTERA-CULICIDAE). (FR)

J A Rioux H Croset P Suquet S Tour

Vie Milieu Ser C Biol Terrestre 19(1-C):55-62

REF

1968 QH301.V5

Culicidae, Larvae, Methodology, Phosphorus, Population statistics, Radioactive tracers. English and German abstracts.

14870-69

INJURIOUS INSECTS IN 1968. (DU)

G van Rossem H C Burger C F van de Bund

Entomol Ber 29(6):111-114

01 Jun 1969 420 N38B

Insect pests, Surveys, Zoogeography. English abstract.

14871-69

REPORT TO THE GOVERNMENT OF MADAGASCAR ON LOCUST CONTROL.

J Roy

Food Agr Organ UN ETAP Rep (2060)11P MAP

1968 281.9 F733E

Habitats, Insect control, Insect ecology, Insect populations, Locusta migratoria, Nomadacris septemfasciata, Reports, Zoogeography.

14872-69

STUDIES ON BIONOMICS AND CONTROL MEASURES OF CNAPHALOCROCIS MEDINALIS GUENEE; PRELIMINARY REPORT.

K Sakai Y Ikeda T Sameshima

34P REF

TRANSL. 16979

Bionomics, Chemical control (insects), Chlorinated hydrocarbons, Insect ecology, Insect pests, Nicotine, Plant injuries, Pyrethrum, Rice, Rotenone, Surveys, Zoogeography. Translation from Ohyo-Konchu 4(1), 1942. translated by Takasi Ogawa.

14873-69

ARE HONEYBEES DEFICIENT IN PHOSPHOMANNOSE ISOMERASE.

S A Saunders R W Gracy K D Schnackerz E A

Noltmann

Science 164(3881):858-859

16 May 1969 470 SCI2

Apis mellifera, Bee diseases, Deficiency diseases, Enzymes, Insect physiology, Isomerases, Mannose, Phosphorus compounds.

14874-69

ISOLATION, PURIFICATION AND TOXICITY OF A THERMOSTABLE EXOTOXIN FROM THE STRAIN OF BACILLUS GELECHIAE AUCT.

K Sebesta K Horská J Vanková

238-242

1967 SB932.15

Bacillus, Galleria mellonella, Insect biochemistry, Isolates, Methodology, Toxins.

14875-69

AN INTENSE ELECTRON MICROSCOPE STUDY OF THE PARS STRIDENS OF THE ENSIIFORM ORTHOPTERA. (FR)

R Scllier

Acad Sci Compt Rend Ser D 268(257:1ST

SEMESTER):3084-3087

23 Jun 1969 505 P21

Electron microscopy, Insect morphology, Orthoptera, Stridulation.

14876-69

OCCURRENCE OF GYNANDROMORPHISM IN TASAR SILKMOTH (ANTHERAEA MYLITTA DRURY).

S K Sen M S Jolly

Cur Sci 36(14):385-386

20 Jul 1967 475 SCI23

Antheraea, Gynandromorphism, Insect physiology, Reproductive organs.

14877-69

AN EXTREME PHENOTYPE OF PIERIS PROTODICE PIERIDAE).

A M Shapiro

Lepidopterists Soc J 23(3):189-190

24 Sep 1969 421 L554

Insect morphology, Pieris, Temperature.

14878-69

CHOLINESTERASE IN THE BRAIN OF THE CERCROPIA SILKMOTH DURING METAMORPHOSIS AND PUPAL DIAPAUSE.

D G Shappirio D M Eichenbaum B R Locke

Biol Bull 132(1):108-125 REF

Feb 1967 442.8 B52

Antheraea polyphemus, Cholinesterases, Histochemistry, Hyalophora cecropia, Insect biochemistry, Insect physiology, Metamorphosis, Samia cynthia.

14879-69

POPULATION DYNAMICS OF RICE STINK-BUG (LEPTOCORISA VARICORNIS FABR.) IN RELATION TO WEATHER FACTORS.

M P Singh S Chandra

Indian J Agr Sci 37(2):112-119 REF

Apr 1967 22 AG831

Humidity, Insect ecology, Leptocorisa varicornis, Population, Rainfall, Temperature, Weather.

14880-69

PARASITES ON THE GALLS OF DASYNEURA LARICIS (F. LOEW.); DIPTERA, ITONIDIDAE.

M Skuhra V Skuhra

Anz Schadlingskunde 40(10):152-153

Oct 1967 421 AN9

Dasineura, Forest insects, Larvae, Parasitism, Plant galls, Predaceous insects.

14881-69

THE ISOLATION OF THE CALOVO VIRUS FROM THE MOSQUITOES OF THE GROUP ANOPHELES MACULIPENNIS IN SOUTHERN MORAVIA.

A Smctana V Danielova J M Kolman D Malkova

J Minar

J Hyg Epidemiol Microbiol Immunol 11(1):55-59

1967 448.8 J826

Anopheles, Anopheles maculipennis, Calovo virus, Culture media, Human diseases, Insect vectors, Serological tests, Virus diseases (animals).

14882-69

THE EFFECT OF ACCLIMATION AND GLYCEROL INJECTION ON MORTALITY

AND PUPATION IN LARVAE OF EPIHESTIA KUEHNIELLA AFTER EXPOSURES AT LOW TEMPERATURES.

L Somme

*Entomol Exp Appl* 11(2):143-148

1968 421 EN895

Ephestia, Glycerol, Insect acclimatization, Larvae, Mortality, Temperature. German summary.

14883-69

BIOLOGICAL CONTROL OF SUGAR CANE APHID PESTS IN THE WEST INDIES (HOMOPTERA, APHIDOIDEA; HYMENOPTERA, APHIDIDAE). PART II.

P Stary

*Riv Agr Subtrop Trop* 61(4-6, APR-JUN):115-130 REF

1967 26 AG82

Aphididac, Biological control (insects), Braconidae, Habitats, Insect pests, Parasitism, Sugarcane. Italian, French and Spanish summaries.

14884-69

THE PROBLEM OF RESISTANCE AGAINST INSECTICIDES IN CONNECTION WITH INTEGRATED METHODS FOR PLANT PROTECTION. (GE)

H Steiner

*Berlin Biol Bundesanst Land-forstwirtschaft Mitt* 132(37):154-157

Jan 1969 410.9 G31M

Acaricides, Dosage, Insecticide resistant insects, Integrated control (insects). English abstract.

14885-69

STUDY OF COLD RESISTANCE AND ACCLIMATIZATION CAPACITY IN PSYLLA BUXI L. (HOMOPTERA; PSYLLIDAE). (FR)

N Thanh-Xuan

*Acad Sci Compt Rend Ser D* 268(10, 1ST SEMESTER):1410-1413

10 Mar 1969 505 P21

Insect physiology, Psyllidae, Temperature.

14886-69

STUDY OF THE PHENOMENA RESULTING FROM PUTTING IN COMPETITION THE DIFFERENT REGENERATION AREAS OF THE ANTENNAE OF THE PHASMID SIPYLOIDEA SIPYLUS WESTWOOD. (FR)

J Urvoy

*Acad Sci Compt Rend Ser D* 268(26, 1ST SEMESTER):3199-3202

30 Jun 1969 505 P21

Antennae, Insect physiology, Phasmatidac, Regeneration.

14887-69

A STUDY OF THE BIONOMICS OF LYMANTRIA AMPLA WLK. (LYMANTRIIDAEI LEPIDOPTERA).

G K Veeresh M Puttarudraiah

*Mysore J Agr Sci* 2(2):61-69

1968 S19.M9

Attractants, Insect biology, Insect morphology, Insect pests, Lymantria, Scent glands.

14888-69

ON THE MODE OF ACTION OF ASPERGILLUS, PARASITES OF INSECT WOUNDS. (FR)

A Vey C Vago P Delanoue

248-249

1967 SB932.15

Aspergillus, Ceratitis capitata, Entomogenous fungi, Injuries, Insect diseases, Parasitism.

14889-69

DEFENSIVE REACTION OF CELLS IN WOUND INFECTIONS CAUSED BY MUCOR HIEMALIS WEHMER. (FR)

A. Vey

*Ann Epiphyt* 19(4):695-702 REF

1968 464.9 F84AN

Cytology, Entomogenous fungi, Galleria mellonella, Hemolymph, Insect diseases, Insect physiology, Larvae, Mucor. English abstract.

14890-69

THE COLEOPTERA IN THE SOIL OF SUGAR BEET FIELDS ON CHERNOZEM AND MEADOW MOULD IN THE NORTH-EAST AREA OF YUGOSLAVIA. (FR)

P Voukassovitch D Camprag J Djurkic R Sekulic

*Pedobiologia* 9(4):342-348 REF

1969 56.8 P343

Coleoptera, Sugar beets. English abstract.

14891-69

EVIDENCE OF BLUE AND GREEN PIGMENTS IN THE LEPIDOPTERA. SYSTEMATIC RESEARCH ON PTEROBILINE IN VARIOUS RHOPALOCERUS. (FR)

M Vuillaume M Barbier

*Paris Soc Biol Compt Rend* 163(3):591-593

15 Sep 1969 442.9 P21

Butterflies, Insect biochemistry, Pigments.

14892-69

THE OPTICAL ORIENTATION TO BLACK AND WHITE PATTERNS IN DIFFERENT SIZE GROUPS OF CATAGLYPHIS BICOLOR FAB. (FORMICIDAE, HYMENOPTERA). (GE)

R Wehner

*Rev Suisse Zool* 76(2):371-382 REF

Jun 1969 410 R324

Cataglyphis bicolor, Eyes, Insect behavior, Optics. English and French abstracts.

14893-69

BIOLOGY OF THAUMETOPOEA WILKINSONI TAMS IN JORDAN. (GE)

I K A Yaman

*Anz Schadlingskunde* 40(10):154-156

Oct 1967 421 AN9

Cultural control (insects), Insect biology, Insect pests, Metamorphosis, Pinus, Thaumetopoea, Tree injuries. English summary

## GENETICS

14894-69

TERMINAL CHROMOSOME REARRANGEMENTS IN CHIRONOMUS RIPARIUS.

B G Blaylock P G Koehler

*Amer Natur* 103(933, SEP-OCT):547-551

Oct 1969 470 AM36

Chironomus, Chromosomes, Cytogenetics, Insect genetics.

14895-69

STUDIES ON GENETIC ORGANIZATION IN HIGHER ORGANISMS: I. ANALYSIS OF A COMPLEX GENE IN DROSOPHILA MELANOGASTER.

A Chovnick V Finnerty A Schalch P Duck

*Genetics* 62(1):145-160 REF

May 1969 442.8 G28

Drosophila melanogaster, Genes, Insect genetics.

14896-69

ON THE ETIOLOGY OF THE STERILITY OF HYBRIDS BETWEEN CERTAIN STRAINS OF DROSOPHILA PAULISTORUM.

L Ehrman D L Williamson

*Genetics* 62(1):193-199 REF

May 1969 442.8 G28

Drosophila paulistorum, Insect genetics, Sterility.

14897-69

GENETIC CONTROL OF PATTERN DETERMINATION IN DROSOPHILA. II. NONRANDOM DISTRIBUTION OF MOSAIC TISSUES.

F J Gottlieb

*Genetics* 62(1):135-144 REF

May 1969 442.8 G28

Drosophila, Insect genetics, Insect physiology, Mitosis.

14898-69

THE MEIOTIC ORIGIN OF SPONTANEOUS CROSSOVERS IN DROSOPHILA ANANASSAE MALES.

P G Kalc

*Genetics* 62(1):123-133 REF

May 1969 442.8 G28

Drosophila ananassae, Insect genetics, Meiosis.

14899-69

THE CAPACITY OF THE FOURTH CHROMOSOME OF DROSOPHILA MELANOGASTER TO ESTABLISH END-TO-END CONTACTS WITH THE OTHER CHROMOSOMES IN SALIVARY-GLAND CELLS.

B P Kaufmann H Gay

*Chromosoma* 26(4):395-409 REF

29 May 1969 442.8 C46

Chromosomes, Cytogenetics, Drosophila melanogaster, Insect genetics, Salivary glands.

14900-69

THERMAL ACCLIMATION AND HEAT RESISTANCE IN DROSOPHILA SPECIES.

R Levins

*Amer Natur* 103(933, SEP-OCT):483-499 REF

Oct 1969 470 AM36

Drosophila, Insect adaptation, Temperature.

14901-69

COMPARATIVE STUDIES OF PHENOL OXIDASE ACTIVITY DURING PUPAL DEVELOPMENT OF THREE LOZENGE MUTANTS (LZ8, LZ, LZK) OF DROSOPHILA MELANOGASTER.

E E Peebles A Geisler Whiteraft C P Oliver

*Genetics* 62(1):161-170 REF

May 1969 442.8 G28

Alleles, Drosophila melanogaster, Enzymes, Insect genetics.

14902-69

CHROMOSOME NUMBER IN TASAR SILKWORM ANTERAEEA MYLITTA DRURY.

S S Sinha M S Jolly

*Cur Sci* 36(13):359

05 Jul 1967 475 SCI23

Antheraea, Chromosomes, Insect genetics, Insect taxonomy.

14903-69

THE RUBY EYE-COLOR MUTANT IN THE HOUSE FLY, MUSCA DOMESTICA L., A CASE OF DUPLICATE GENES.

D E Wagoner

*Genetics* 62(1):103-113

May 1969 442.8 G28

Eyes, Genes, Insect genetics, Musca domestica.

14904-69

LINKAGE GROUP-KARYOTYPE CORRELATION IN THE HOUSE FLY, MUSCA DOMESTICA L., CONFIRMED BY CYTOLOGICAL ANALYSIS OF X-RAY INDUCED Y-AUTOSOMAL TRANSLOCATIONS.

D E Wagoner

*Genetics* 62(1):115-121

May 1969 442.8 G28

Cytogenetics, Insect genetics, Musca domestica.

## MEDICAL ENTOMOLOGY

14905-69

THREE ESTUARINE KILLIFISH AS FRESH WATER MOSQUITO LARVIVORES.

J M Doll T F Bast

*Mosquito News* 29(3):365-367

Sep 1969 421 M85

Biological control (insects), Culicidac, Fish, Food habits, Habitats, Larvae.

14906-69

A TECHNIQUE FOR ULV INSECTICIDE APPLICATION FROM HIGH ALTITUDES.

W C Machado E S Bordes A J Blake G T Carmichael

*Mosquito News* 29(3):353-360

Sep 1969 421 M85

*Aedes sollicitans*, Aircraft, Chemical control (insects), Insecticides, Naled, Ultra low volume application.

**14907-69**

EVALUATION OF THE ULTRA-LOW VOLUME AERIAL SPRAY TECHNIQUE BY USE OF CAGED ADULT MOSQUITOES.

C B Rathburn A J Rogers A H Boike R M Lee

*Mosquito News* 29(3):376-381 REF

Sep 1969 421 M85

*Aedes taeniorhynchus*, Aerial spraying, Biological assay, Chemical control (insects), *Culex nigripalpus*, Insecticides, Malathion, Naled, Spray technique, Ultra low volume application.

**14908-69**

MOSQUITO CONTROL IN UTAH BY SHORE LINE MODIFICATION.

D M Rees R N Winget

*Mosquito News* 29(3):368-370

Sep 1969 421 M85

Culicidae, Insect control, Insect ecology, Watershed management.

**14909-69**

POSSIBLE COURSES FOR THE DISAPPEARANCE OF MALARIA IN THE NETHERLANDS. (DU)

H A van Seventer

*Entomol Ber* 29(6):105-106

01 Jun 1969 420 N38B

Insect ecology, Insect vectors, Malaria, Population. English abstract.

**14910-69**

ULV SPRAY APPLICATION OF PESTICIDES--A STEP TOWARDS ECONOMICAL PLANT PROTECTION. (GE)

L K Simon

*Berlin Biol Bundesanst Land-forstwirtschaftl Mitt*

132(37):205-207

Jan 1969 410.9 G31M

Culicidae, Malathion, Spray technique, Spraying, Ultra-low-volume spraying. English abstract.

**14911-69**

ACTION OF AMINE OVICIDES ON AEDES AEGYPTI MOSQUITOES.

D P Wilton R W Fay

*Mosquito News* 29(3):361-365

Sep 1969 421 M85

*Aedes aegypti*, Chemical control (insects), Insect eggs, Insect physiology, Ovicides.

**CROP PROTECTION****14912-69**

ECOLOGY OF PLANT PROTECTION PRODUCTS, A MOST IMPORTANT TASK OF ENVIRONMENTAL RESEARCH ON THE INTERNATIONAL LEVEL. (GE)

F Beran

*Berlin Biol Bundesanst Land-forstwirtschaftl Mitt*

132(37):11-19

Jan 1969 410.9 G31M

Pesticides, Plant ecology, Reviews.

**14913-69**

ON PLANT PROTECTION IN SPECIAL CULTURES WITH PARTICULAR REGARD TO THE BAVARIAN CONDITIONS. (GE)

R Diercks

*Berlin Biol Bundesanst Land-forstwirtschaftl Mitt*

132(37):90-98 REF

Jan 1969 410.9 G31M

Integrated control (insects), Integrated control (pests), Plant disease control, Plants, Reviews. English abstract.

**14914-69**

GROWTH REGULATION IN FRUIT BODIES OF AGARICUS BISPORUS.

H E Gruen

*Mushroom Sci* 6:103-120 REF

**1965 80 M972**

Agaricaceae, Fungus cultures, Growth factors, Mushrooms, Plant physiology, Plant regulators, Plant tissues. French and German summaries.

**14915-69**

PRESENT PROBLEMS OF PLANT PROTECTION IN PEPPERMINT. (GE)

H Gunther K Trojan F Sprau

*Berlin Biol Bundesanst Land-forstwirtschaftl Mitt*

132(37):129-131

Jan 1969 410.9 G31M

Chemical control (weeds), *Mentha piperita*, Plant nematodes, Plant protection, Puccinia menthae, Rust. English abstract.

**14916-69**

HISTORY OF COACHELLA VALLEY PEST CONTROL DISTRICT.

R M Howie H L Heard

*Sunkist Pest Contr Circ* (373):2

Dec 1968 423.9 C12E

Citrus, Citrus red scale, Costs, History, Pest control, Plant protection.

**14917-69**

A SELECTIVE MEDIUM FOR ISOLATION OF HELICOBASIDIUM MOMPA TANAKA. (JA)

H Ieki

*Sanshi-kenkyu* (62):26-31

Jan 1967 425.9 J273S

Culture media, Fungi, Helicobasidium mompa, Isolates, Plant extracts, Potatoes. English summary.

**14918-69**

PROCEEDINGS OF THE FIRST SCIENTIFIC SYMPOSIUM ON THE CULTIVATED MUSHROOM AND THE SIXTH INTERNATIONAL CONGRESS ON MUSHROOM SCIENCE, AMSTERDAM.

*Mushroom Sci* 6:585P

1965 80 M972

Economic plants, Mushrooms, Symposia.

**14919-69**

ISOLATION OF SECURININ FROM THE HERB OF SECURINEGA SUFFRUTICOSA (PALL.) REHD. CULTIVATED IN POLAND. POLYMORPHISM OF SECURININ. (POL)

F Kaczmarek

*Poznan Inst Przemyslu Zielarskiego Biul*

13(4):163-170

1967 451 P87

Isolates, Plant biochemistry, Plant extracts, Polymorphism, Securinega. Russian and English summaries.

**14920-69**

DEVELOPMENT OF THE MOST IMPORTANT DISEASES AND PESTS OF CROPS GROWN IN POLAND IN THE YEAR 1966 AND FORECAST OF THEIR APPEARANCE IN THE YEAR 1967. (POL)

F Kagan K Piekarczyk A Studzinski

*Poznan Inst Ochrony Roslin Biul* 35:5-107 MAP

1967 464.9 P87

Insect outbreak forecasting, Insect pests, Maps, Plant diseases, Surveys.

**14921-69**

CONTRIBUTION TO THE STUDY OF THE FUNGI FLORA OF THE SOILS OF KATANGA. (FR)

C Lanneau J-A Meyer P Staner

*Brussels Acad Roy Sci Outre-mer Bull Seances*

3:540-545

1967 504 B836

Ascomycetes, Deuteromyces, Phycomycetes, Plant geography, Plant taxonomy, Soil fungi, Soil sampling.

A list of 170 species of fungi which were identified is included.

**14922-69**

PROBLEMS OF STORING PLANT DISEASE DATA FOR RETRIEVAL BY AUTOMATIC DATA PROCESSING MACHINES.

W Q Loegering

*Wash Agr Exp Sta Sta Bull* (705):6P

**Dec 1968 100 W27E**

Classification, Information retrieval systems, Methodology, Plant breeding, Plant diseases.

**14923-69**

EXPERIMENTS SUMMARY BEANS: 1966.

36P

Dec 1967 91.56 P312

Beans, Crop varieties, Fertilizers, Plant physiology, Plant protection, Seed germination, Tillage, Weed control.

**14924-69**

INFLUENCE OF APICAL DOMINANCE ON BUD DORMANCY IN WESTERN IRONWEED.

C J Scifres M K McCarty

*N Cent Weed Contr Conf Res Rep* 24:11-12

1967 79.9 N81R

Plant budding, Plant dormancy, Plant physiology, Rhizomes, Stem, Vernonia.

**14925-69**

SPROUTING OF WESTERN IRONWEED BUDS AS AFFECTED BY THEIR AGE AND POSITION OF THE RHIZOME.

C J Scifres M K McCarty

*N Cent Weed Contr Conf Res Rep* 24:13

1967 79.9 N81R

Emergence, Plant budding, Plant physiology, Plant senescence, Rhizomes, Vernonia.

**14926-69**

FUNDAMENTAL STUDIES ON ERGOTIAL FUNGI. (6). FUNGI EDIPHYTIC AND PARASITIC ON ERGOT AND HONEYDEW. (JA)

S Tanda

*J Agr Sci (Setagaya)* 12(3/4):115-126 REF

Mar 1968 22.5 J824

Cladosporium, Claviceps, Ergot, Fungi, Fusarium, Grasses, Honeydew, Moniliales, Parasitism. English summary.

**14927-69**

INITIATION OF PINHEADS IN PSILOCYBE PANAEOLIFORMIS CAUSED BY CERTAIN BACTERIA.

T Urayama

*Mushroom Sci* 6:141-155 REF

1965 80 M972

Bacillus, Bacteria, Growth factors, Metabolites, Mushrooms, Plant growth inhibitors. French and German summaries.

**14928-69**

ECONOMIC LOSSES FROM WATER EROSION ON AGRICULTURAL LAND. (CZ)

V Vesely

*Prace So Vysoke Sk Zemed (SER A)*:485-505 REF

1966 S13.P72

Costs, Crop losses, Land, Soil erosion, Water. German and Russian summaries.

**14929-69**

YORLEX FOR PLASTIC GREENHOUSE SOIL FUMIGATION.

J C Wells

*N C Pesticide Manual* 00(00):137

1967 79.8 N81

Chemical control (plant diseases), Chlorinated hydrocarbons, Fungi, Greenhouses, Methyl isothiocyanate, Nematodes, Soil fumigation, Soil insects, Synergists, Weeds.

**DISEASES****14930-69**

LIMB BLIGHT DISEASE CAUSED BY CORTICUM SALMONICOLOR B. AND BR..

S A Alfieri

*Fla Dep Agr Div Plant Indus Tri-ology Tech Rep*

7(7):13-14

Jul 1968 423.9 F6622

Blight, Corticum salmonicolor, Fungus diseases (plants).

14931-69

**VIRUS DISEASE PROBLEMS IN ONTARIO FRUIT ORCHARDS AND VINEYARDS.**

W R Allen T R Davidson

*Canada Agr* 14(1,WINTER):18-20

1969 7 R31

Fruit, Grape vineyards, Necrotic ringspot virus, Plant disease control, Plant disease transmission, Sour cherry yellows, Virus diseases (plants).

14932-69

**EFFECT OF GAMMA-RADIATION ON CALLUS GROWTH OF PHYLOXERA GALL AND NORMAL GRAPE STEM TISSUES IN CULTURE.**

H C Arya A C Hildebrandt

*Indian J Exp Biol* 7(3):158-162 REF

Jul 1969 442.8 IN2

Callus (plants), Gamma rays, Grapes, Phylloxera, Plant physiology, Tissue culture.

14933-69

**ORNAMENTAL AND FLORAL CROPS DISEASE CONTROL.**

R Aycock R D Milholland J C Wells H R Garriss

*N C Pesticide Manual* 00(00):89-93

1967 79.8 N81

Chemical control (plant diseases), Dusting, Ornamental plants, Plant diseases, Spraying.

14934-69

**EXPERIMENTS WITH SOIL DISINFECTANTS FOR CASING MATERIAL AND THEIR EFFECT ON YIELD.**

K Bech C R Rasmussen

*Mushroom Sci* 6:515-521

1965 80 M972

Chemical control (plant diseases), Chloropicrin, Crop yields, Formaldehyde, Fungus diseases (plants), Mushroom, Mycogone, Sodium N-methylthiocarbamate, Soil sterilization, Thiocarbamates. French and German summaries.

14935-69

**NOTE ON THE PRESENCE OF THE BARLEY YELLOW DWARF IN FRANCE. (FR)**

M. Bogavac M-T. Cousin J-p. Moreau D. Spire

*Ann Epiphyt* 19(OUTSIDE SERIES):275-277

1968 464.9 F84AN

Barley, Homoptera, Insect vectors, Virus diseases (plants), Yellow dwarf. English and German abstracts.

14936-69

**INTEGRATED CONTROL OF HOP WILT III. ON THE EFFECT OF SLUDGE COMPOST AGAINST VERTICILLIUM ALBOATRUM. (GE)**

E Bucher

*Berlin Biol Bundesanst Land-forstwirtschaft Mitt*

132(37):103-104

Jan 1969 410.9 G31M

Cultural control (plant diseases), Hops, Verticillium albo-atrum, Wilt. English abstract.

14937-69

**RUST, TRANZSCHELIA DISCOLOR (FCKL.) TRANZ. AND LITV., ON PEACH, PRUNUS PERSICA (L.) BATSCH.**

H C Burnett

*Fla Dep Agr Div Plant Indus Tri-ology Tech Rep*

7(5):17-18

May 1968 423.9 F6622

Anemone, Fungus diseases (plants), Peaches, Ranunculaceae, Rust, Uredinales.

14938-69

**SEROLOGICAL STUDY ON BRUCELLOSIS AND LEPTOSPIROSIS IN SWINE OF THE ORIENTAL REPUBLIC OF URUGUAY. (SP)**

R M Caffarena M Agorio J Barriola

*Montevideo Univ Fac Vet Urug An* 11(9):93-102

MAP

Feb 1968 41.9 M764

Bacterial diseases (animals), Brucellosis, Leptospirosis, Livestock diseases, Serological tests, Swine. English summary.

14939-69

**STRAWBERRY DISEASE CONTROL.**

C N Clayton J C Wells

*N C Pesticide Manual* 00(00):75

1967 79.8 N81

Chemical control (pests), Fungus diseases (plants), Nematodes, Strawberries.

14940-69

**DISCONTINUOUS TRANSMISSION OF CLOVER PHYLLODY BY EUSCELIS PLEBEJUS FALL. (FR)**

M-T. Cousin J-P. Moreau C. Grison

*Ann Epiphyt* 19(OUTSIDE SERIES):115-120

REF

1968 464.9 F84AN

Cicadellidac, Clover, Insect vectors, Phyllody, Plant disease transmission, Virus diseases (plants), English and German abstracts.

14941-69

**CONTRIBUTION TO THE SEROLOGICAL STUDY OF PLANT VIRUSES BY THE AGAR DOUBLE DIFFUSION TECHNIQUE. II.--RELATIONSHIPS BETWEEN THE FRENCH BROAD BEAN MOSAIC VIRUS (MF) AND THE RED CLOVER MOTTLE VIRUS (RCMV). (FR)**

J C Devergne L Cardin

*Ann Epiphyt* 19(OUTSIDE SERIES):37-67 REF

1968 464.9 F84AN

Antibodies, Antigens, Broadbeans, Mosaic, Red clover mottle virus, Serological tests, Virus diseases (plants). English and German abstracts.

14942-69

**ON THE ANTIPHYTOPATHOGENIC POTENCY OF SOIL IN CONNECTION WITH INCREASE OF GROWING CEREALS IN CROP ROTATION. (GE)**

R Diercks G Bachthaler

*Berlin Biol Bundesanst Land-forstwirtschaft Mitt*

132(37):33-35 REF

Jan 1969 410.9 G31M

Crop rotation, Cultural control (plant diseases), Plant disease resistance. English abstract.

14943-69

**SELECTION, ADJUSTMENT, AND CARE OF SPRAYING AND DUSTING EQUIPMENT.**

J C Ferguson J W Glover

*N C Pesticide Manual* 00(00):146-150

1967 79.8 N81

Chemical control (plant diseases), Dairy equipment, Dusting, Pesticide application, Spraying.

14944-69

**CHANGES IN CONCENTRATION OF FREE AMINO ACIDS BY SELECTION FROM YELLOWS INFECTED SUGARBEET LEAVES.**

J M Fife

*Amer Soc Sugar Beet Technol J* 15(3):259-262

Oct 1968 66.9 AM35J

Amino acids, Plant biochemistry, Sugar beets, Virus diseases (plants), Yellows.

14945-69

**STRUCTURES OF THE X CORPUSCLES IN LEAF TUMOR OF FIDJI DISEASED SUGARCANES. (FR)**

J Giannotti Monsarrat C Vago

*Ann Epiphyt* 19(OUTSIDE SERIES)31-36

1968 464.9 F84AN

Electron microscopy, Plant histology, Sugarcane, Virus diseases (plants). English and German abstracts.

14946-69

**HISTOLOGICAL AND HISTOCHEMICAL STUDY OF THE TUMOR OF SUGAR CANE AFFECTED BY THE FIDJI DISEASE. (FR)**

J. Gianotti P. Monsarrat

*Ann Epiphyt* 19(4):707-712 REF

1968 464.9 F84AN

Electron microscopy, Histochemistry, Plant diseases, Plant galls, Plant histology, Proteins, Sugarcane, Virus diseases (plants). English abstract.

14947-69

**BEAN (PHASEOLUS MUNGO L.) CER-COSPORIOSIS IN SOMALIA. (IT)**

C Golato

*Riv Agr Subtrop Trop* 41(4-6,APR-JUN):159-162 REF

1967 26 AG82

Beans, Cercospora, Fungus diseases (plants), Plant protection. English, French and Spanish summaries.

14948-69

**POSSIBLE OCCURRENCE OF TUNGRO AND YELLOW DWARF VIRUSES ON RICE IN MYSORE.**

H C Govindu H M Harris R C Yaraguntaiah

*Mysore J Agr Sci* 2(2):125-127

1968 S19.M9

Epidemiology, Rice, Symptomatology, Tungro disease, Virus diseases (plants), Yellow dwarf.

14949-69

**CONTRIBUTION TO THE BIOLOGY OF BRUNCHORSTIA PINEA (KARST.) HOHN., THE CAUSE OF A DIE-BACK IN AUSTRIAN AND CORSICAN PINE. (DU)**

J Gremmen

*Sticht Bosbouwproefsta Dorschkamp Korte**Mededel* (94):221-231 REF

1968 99.9 W122

Climate, Dieback, Disease transmission, Fungus diseases (plants), Pinus, Pinus nigra, Pinus nigra poiretiana, Plant physiology, Temperature, Tree diseases. English summary.

14950-69

**IS EXCLUSIVE HYPOVIRULENCE CONTROLLED BY CYTOPLASMIC DETERMINANTS. (FR)**

J Grente S Sauret

*Acad Sci Compt Rend Ser D* 268(26, 1ST

SEMESTER):3173-3176

30 Jun 1969 505 P21

Cytology, Endothia parasitica, Fungus diseases (plants), Spores.

14951-69

**CONTROL OF POTATO BLIGHT BY MEANS OF SPRAYING MACHINERY USED ON THE GROUND, AIRPLANES AND HELICOPTERS. (GE)**

K Hanuss

*Berlin Biol Bundesanst Land-forstwirtschaft Mitt*

132(37):196-201

Jan 1969 410.9 G31M

Aircraft, Blight, Methodology, Phytophthora infestans, Potatoes, Spraying equipment. English abstract

14952-69

**FUNGICIDE TRIALS FOR THE CONTROL OF SORE SHIN OF TOBACCO.**

W F T Hartill

*Rhodesia, Zambia, Malawi J Agr Res* 6(1):13-18

1968 24 R3472

Chemical control (plant diseases), Chlorinated hydrocarbons, Fumigants, Fungicides, Fungus diseases (plants), Plant diseases, Rhizoctonia solani, Thiocarbamates, Tobacco.

The chemicals tested on cotton were: quintozone, chloroneb, captan, folpet, difolotan, thiram, ethylene dibromide and dorrone.

14953-69

**STUDY ON THE ETIOLOGY OF GIRDLE SCRUF OF BEETS. (GE)**

M Hassansada N Malmus K Boning

*Berlin Biol Bundesanst Land-forstwirtschaft Mitt*

132(37):136-139

Jan 1969 410.9 G31M

Beets, Fertilizers, Nitrogen, Plant nutritional deficiencies, Streptomyces. English abstract.

14954-69

**THE IMPORTANCE OF GUTTATION FLUID ON TURF DISEASES.**

M J Healy M P Britton

*Turfgrass Conf Proc* 8:40-46 MAP

07 Dec 1967 SB433.14

Alternaria, Curvularia, Fertilizers, Fungus diseases (plants), Fusarium, Glutamine, Guttation, Helminthosporium, Nitrogen, Plant biochemistry, Plant extracts, Turf.



- 14955-69**  
COMPARISON OF THE EFFECT ON BEET SEED PRODUCTION OF SPRING AND FALL INFESTATIONS OF BEET LEAFHOPPERS CARRYING CURLY TOP VIRUS.  
O A Hills R W Brubaker  
*Amer Soc Sugar Beet Technol J* 15(3):214-220  
Oct 1968 66.9 AM35J  
Circulifer tenellus, Curly top, Insect vectors, Seeds, Sugar beets, Virus diseases (plants).
- 14956-69**  
THE FUNCTION OF THE ENDODERMIS IN RESISTANCE OF VIRGINIA PINE SEEDLINGS TO DAMPING-OFF.  
W K Hock W L Klarman  
*Forest Sci* 13(1):108-112  
Mar 1967 99.8 F7632  
Damping-off, Fungus diseases (plants), Pinus virginiana, Plant disease resistance, Plant histology, Plant tissues, Pythium debaryanum, Seedlings.
- 14957-69**  
THE EFFECT OF INFECTION WITH BEET YELLOWS VIRUS ON THE GROWTH OF SUGARBEETS.  
R Hull  
*Amer Soc Sugar Beet Technol J* 15(3):192-199  
Oct 1968 66.9 AM35J  
Crop yields, Plant physiology, Sugar beets, Virus diseases (plants), Yellows.
- 14958-69**  
ON THE CONTROL OF PRIMARY INFECTIONS CAUSED BY PSEUDOPERONOSPORA HUMULI. (GE)  
L Kamm  
*Berlin Biol Bundesanst Land-forstwirtschaft Mitt* 132(37):105-108  
Jan 1969 410.9 G31M  
Antibiotics, Chemical control (plant diseases), Fungus diseases (plants), Hops, Pseudoperonospora humuli, Soil treatments, Systemic fungicides, Thiocarbamates. English abstract.
- 14959-69**  
INTEGRATED CONTROL OF HOP WILT I. PROTECTION BY CHEMICAL TREATMENT AND BREEDING. (GE)  
L Kamm  
*Berlin Biol Bundesanst Land-forstwirtschaft Mitt* 132(37):99-100  
Jan 1969 410.9 G31M  
Crop varieties, Fungicides, Fungus diseases (plants), Fusarium oxysporum, Hops, Plant disease resistance, Plant nematodes, Verticillium albo-atrum, Wilt. English abstract.
- 14960-69**  
ASSESSMENT OF CROP LOSSES CAUSED BY ROSETTE DISEASE OF GROUNDNUT.  
G Kousalya S Bhaskaran C S Krishnamurthy  
*Indian J Agr Sci* 37(5):356-361 REF  
Oct 1967 22 AG831  
Aphis craccivora, Crop losses, Insect vectors, Peanut, Phytopathology, Rosette, Virus diseases (plants).
- 14961-69**  
TEST FOR FUNGICIDAL ACTIVITY AGAINST BLUE MOLD ON TOBACCO USING COTYLEDONS. (GE)  
E Krauss K Schmid  
*Berlin Biol Bundesanst Land-forstwirtschaft Mitt* 132(37):118-119  
Jan 1969 410.9 G31M  
Fungicides, Fungus diseases (plants), Peronospora tabacina, Tobacco. English abstract.
- 14962-69**  
MEASUREMENT OF THE SYNTHESIS OF PLANT VIRUSES THROUGH THE INCORPORATION OF RADIOACTIVE PRECURSORS OF RIBONUCLEIC ACID. (FR)  
J Kummert J Semal  
*Bull Recher Agron Gembloux (N s)*2(3):507-516 REF  
1967 55.B8  
Barley, Mosaic, Plant biochemistry, Radioactive tracers, Ribonucleic acid, Synthesis, Tobacco, Virology, Virus diseases (plants). English summary.
- 14963-69**  
INFLUENCE OF SUCCESSIVE CEREAL CROPS ON FLUCTUATIONS IN THE GRAVITY OF THE DISEASE OF WHITE HEADS OF WHEAT (OPHIOBOLUS GRAMINIS SACC.). (FR)  
J-M. Lemaire M. Coppenet  
*Ann Epiphyt* 19(4):589-599  
1968 464.9 F84AN  
Crop rotation, Grain, Ophiobolus, Plant pest resistance, Soil microorganisms, Surveys. English abstract.
- 14964-69**  
BROWN ROT OF STONE FRUITS.  
O C Maloy F Johnson  
*Wash State Univ Ext E M* (3046):2P  
Nov 1968 275.29 W27MI  
Air flow, Brown rot, Calcium cyanamide, Fruit, Fungicides, Fungus diseases (plants), Plant disease control, Sanitation control (pests), Sclerotinia fructicola, Sclerotinia laxa, Spraying, Symptomatology, Weather.
- 14965-69**  
NECTRIA GALLIGENA AND CERATOCYSTIS FIMBRIATA CANKERS OF ASPEN IN MINNESOTA.  
P D Manion D W French  
*Forest Sci* 13(1):23-28  
Mar 1967 99.8 F7632  
Canker, Ceratocystis fimbriata, Fungus diseases (plants), Host relationships, Nectria galligena, Phytopathology, Populus.  
Both Nectria galligena and Ceratocystis fimbriata produced cankers on quaking aspen when inoculated with either spores or mycelium. In the first year, canker development was more rapid in those trees inoculated with C. fimbriata than those inoculated with N. galligena. After two years, cankers caused by C. fimbriata usually did not enlarge further while those caused by N. galligena did. C. fimbriata did not cause cankers on red maple, or balsam poplar and only one canker on paper birch, while N. galligena produced cankers on all these hosts.
- 14966-69**  
INDICATION IN THE APRICOT SPECIES OF INTRASPECIFIC INCOMPATIBILITY DUE TO THE PRESENCE OF A CHLOROTIC LEAF SPOT TYPE VIRUS. (FR)  
C. Marenaud  
*Ann Epiphyt* 19(OUTSIDE SERIES):225-245 REF  
1968 464.9 F84AN  
Apricots, Chlorosis, Leaf spot, Prunus, Virology, Virus diseases (plants). English and German abstracts.
- 14967-69**  
BIOLOGICAL DETERMINATION OF THE CUCUMBER MOSAIC VIRUS (CMV) ON VIGNA SINENSIS L. I.-INFLUENCE OF DIFFERENT FACTORS ON THE SUSCEPTIBILITY OF THE PLANT TO THE VIRUS. (FR)  
J Marrou A Migliori M Dutail  
*Ann Epiphyt* 19(OUTSIDE SERIES):69-81  
1968 464.9 F84AN  
Aging, Cowpeas, Cucumber mosaic virus, Environmental effects, Light, Mosaic, Virus diseases (plants). English and German abstracts.
- 14968-69**  
TIME COURSE VARIATIONS OF THE INFECTIVITY OF THE CUCUMBER MOSAIC VIRUS IN DIFFERENT VEGETABLE SPECIES. (FR)  
J Marrou A Migliori G. Marchoux  
*Ann Epiphyt* 19(OUTSIDE SERIES):83-92 REF  
1968 464.9 F84AN  
Aging, Cowpeas, Cucumber mosaic virus, Plant physiology, Time, Vegetables. English and German abstracts.
- 14969-69**  
ON THE PHYSIOLOGY OF GERMINATION OF FUSARIUM CHLAMYDOSPORES IN SOIL. (GE)  
W Menzinger  
*Berlin Biol Bundesanst Land-forstwirtschaft Mitt* 132(37):38-39  
Jan 1969 410.9 G31M  
Amino acids, Fusarium oxysporum, Soil fungi, Spore germination. English abstract
- 14970-69**  
SHORT NOTE ON VARIETAL RESISTANCE OF INDIAN LINSEED TO WILT (FUSARIUM OXYSPORUM F. LINI).  
J L Merh  
*Indian J Agr Sci* 37(1):45-46  
Feb 1967 22 AG831  
Flaxseed, Fungus diseases (plants), Fusarium oxysporum, Plant breeding, Plant disease resistance, Wilt.
- 14971-69**  
EFFECT OF THE TOBACCO MOSAIC VIRUS ON GROWTH AND FRUITING OF OUTDOOR TOMATO CULTURE IN SOUTH-EASTERN FRANCE. (FR)  
C-M. Messiaen A. Migliori P. Maison  
*Ann Epiphyt* 19(OUTSIDE SERIES):93-102  
1968 464.9 F84AN  
Plant physiology, Tobacco mosaic virus, Tomatoes, Virus diseases (plants). English and German abstracts
- 14972-69**  
OCCURRENCE OF ZEBRA-NECROSIS IN SORGHUM.  
R N Misra M B L Saxena J Ram  
*Cur Sci* 36(2):50-51  
20 Jan 1967 475 SCI23  
Necrosis, Plant disease resistance, Plant genetics, Sorghum, Surveys.
- 14973-69**  
CHLOROTIC LEAF-CURL IN APRICOT TREES AND NECROSIS OF THE PHLOEM. CONTRIBUTION TO THE STUDY OF APRICOT WILT DISEASES. (FR)  
G. Morvan C. Castelain  
*Ann Epiphyt* 19(OUTSIDE SERIES):247-268 REF  
1968 464.9 F84AN  
Apricots, Leaf curl, Plant physiology, Virus diseases (plants). English and German abstracts.
- 14974-69**  
APPLICATION OF ARTIFICIAL HIBERNATION TO THE MECHANICAL TRANSMISSION OF FRUIT-TREE VIRUSES TO HERBACEOUS PLANTS. (FR)  
G. Morvan  
*Ann Epiphyt* 19(OUTSIDE SERIES):279-280  
1968 464.9 F84AN  
Chenopodium quinoa, Fruit, Hibernation, Plant disease transmission, Virus diseases (plants).
- 14975-69**  
EVALUATING SOIL SAMPLES FOR FUNGUS PATHOGENS OF SUGARBEET SEEDLINGS.  
D L Mumford  
*Amer Soc Sugar Beet Technol J* 15(3):255-258  
Oct 1968 66.9 AM35J  
Fungus diseases (plants), Methodology, Seedlings, Soil fungi, Soil sampling, Sugar beets.
- 14976-69**  
EFFECT OF BUFFER SALT AND H-ION CONCENTRATION ON POTATO VIRUS X INFECTION ON CAPSICUM PENDULUM WILLD..  
B B Nagaich G C Upreti B L Dutt  
*Indian J Exp Biol* 7(3):165-167 REF  
Jul 1969 442.8 IN2  
Biological assay, Buffer substances, Hydrogen-ion concentration, Potatoes, Redpeppers (vegetable), Salts, Virus diseases (plants), Virus X.

14977-69

EFFECT OF DIFFERENT DATES OF SOWING OF GROUNDNUT ON THE DEVELOPMENT AND INTENSITY OF LEAF-SPOT DISEASE BY *CERCOSPORA* SSP..

V R Nath L G Kulkarni

*Indian J Agr Sci* 37(5):362-368

Oct 1967 22 AG831

*Cercospora*, Fungus diseases (plants), Leaf spot, Peanuts, Plant disease resistance, Seed planting.

14978-69

FACTORS AFFECTING SURVIVAL OF *PORIA WEIRII* IN SMALL BURIED CUBES OF DOUGLAS-FIR HEARTWOOD.

E E Nelson

*Forest Sci* 13(1):78-84

Mar 1967 99.8 F7632

Fungus diseases (plants), Phytopathology, *Poria weirii*, *Pseudotsuga menziesii*, Virulence.

The destructiveness of *Poria weirii* Murr. as a root pathogen in coniferous forests is markedly increased through its longevity in wood buried in forest soil. Three experiments, with infected, 2-inch cubes of Douglas-fir, *Pseudotsuga menziesii* (Mirb.) Franco, buried under a Douglas-fir stand, show that (1) the pathogen can survive as long as 5 years, even in small pieces of wood; (2) survival at depths of 12 and 24 inches is better than at 3 and 6 inches; (3) presence of zone lines is associated with longer survival; and (4) activity of soil micro-organisms most probably decreases survival.

14979-69

EFFECT OF FUSARIC ACID ON IN VITRO CULTURES OF EMBRYOS OF *PHASEOLUS VULGARIS* L..

D Padmanabhan

*Cur Sci* 36(8):214-215

20 Apr 1967 475 SC123

Fungitoxicity, Fungus diseases (plants), Fusaric acid, Kidney beans, Plant physiology, Toxins.

14980-69

CHARACTERISTIC OF DEVELOPMENT AND NOXIOUSNESS OF THE MOST IMPORTANT DISEASES AND PESTS OF POTATOES AND SUGAR BEETS IN THE YEAR 1967 IN POLAND AND THEIR FORECAST FOR 1968. (PO)

K Piekarczyk

*Poznan Inst Ochrony Roslin Biul* (39):57-107

MAP

1968 464.9 P87

Crop losses, Insect pests, Plant diseases, Potatoes, Sugar beets, Surveys, Toxicology. English and Russian abstracts.

14981-69

COW-PARSNIP (*HERACLEUM SPHONDYLUM*) MOSAIC VIRUS IN FINLAND.

Z Polak

*Ann Bot Fenn* 5(2):115-116

1968 450 AN79

*Heracleum*, Isolates, Mosaic, Symptomatology, Virology, Virus diseases (plants).

14982-69

LEPTOSPHAERULINA TRIFOLII ON PASIFLORA LESCHENAUTII AND MARSILEA QUADRIFOLIATA--TWO NEW HOST RECORDS FOR INDIA.

K M Ponnappa

*Cur Sci* 36(12):329-330 REF

20 Jun 1967 475 SC123

Fungus diseases (plants), Granadilla, Host records, *Leptosphaerulina*.

14983-69

OCCURRENCE OF PHYSIOLOGIC RACES OF WHEAT AND BARLEY RUSTS IN INDIA DURING 1962--64 AND THEIR SOURCES OF RESISTANCE.

R Prasad L M Joshi S D Singh D P Misra L B Goel Et Al

*Indian J Agr Sci* 37(4):273-281

Aug 1967 22 AG831

Barley, Plant breeding, Plant disease resistance, Puccinia, Rust, Surveys, Wheat.

14984-69

OBSERVATIONS ON DOWNY MILDEW OF JOWAR (*SORGHUM VULGARE*).

S B Puranik R S Deshpande R Rameswarappa

*Mysore J Agr Sci* 2(2):143-144

1968 S19.M19

Downy mildew, Fungus diseases (plants), *Sclerospora sorghi*, Sorghum.

14985-69

HAEMAGGLUTINATION TEST TO DETECT TOBACCO MOSAIC VIRUS ANTIGENS.

D V R Reddy M H Rao M C Padma V G Rao

*Indian J Exp Biol* 7(3):162-165 REF

Jul 1969 442.8 IN2

Antigens, Diagnosis, Hemagglutination, Precipitin test, Serological tests, Tobacco mosaic virus, Virus diseases (plants).

14986-69

EXPERIMENTS ON THE EFFECT OF SLUDGE COMPOST ON THE WART DISEASE OF POTATOES. (GE)

K Reithmeier

*Berlin Biol Bundesanst Land-forstwirtschaft Mitt*

132(37):36-37

Jan 1969 410.9 G31M

Cultural control (plant diseases), Potatoes, *Synchytrium endobioticum*, Wart (potatoes). English abstract

14987-69

STUDIES ON A MOSAIC DISEASE OF *TYLOPHORA INDICA* (BURM. F.) MERR..

K S M Sastry M A Khan

*Indian J Agr Sci* 37(2):128-131

Apr 1967 22 AG831

Aphididae, Drug plants, Insect vectors, Mosaic, Plant disease transmission, Tissue culture, *Tylophora indica*, Virus diseases (plants).

14988-69

INTEGRATED CONTROL OF HOP WILT II. PROTECTION BY METHODS OF SOIL HYGIENE. (GE)

G Schmid

*Berlin Biol Bundesanst Land-forstwirtschaft Mitt*

132(37):101-102

Jan 1969 410.9 G31M

Hops, Plant disease control, Soil aeration, Soil sanitation, Soil series, Wilt. English abstract.

14989-69

CONTRIBUTION TO THE STUDY OF *DIEHLIOMYCES MICROSPORUS*. (FR)

J C Scurti G Borzini

*Mushroom Sci* 6:523-528

1965 80 M972

Chemical control (plant diseases), Copper sulfate, Etiology, Fungus diseases (plants), Mushrooms, Tillage. English and German summaries.

14990-69

SYNTHESIS OF RNA IN EXTRACTS OF LEAF-CELLS INFECTED BY PHOTOVIRUSES. (FR)

J Semal R I Hamilton

*Ann Epiphyt* 19(OUTSIDE SERIES):3-7 REF

1968 464.9 F84AN

Mosaic, Plant biochemistry, Ribonucleic acid, Synthesis, Virus diseases (plants). English and German abstracts.

14991-69

INVESTIGATIONS INTO THE CAUSE OF LEAF TUMORS OF TEA SEEDLINGS.

D E Shaw W M Burnett

*Papua New Guinea Agr J* 19(4):167-192

Mar 1968 23 N453

Leaves, Phytopathology, Plant galls, Seedlings, Tea.

After testing many possible environmental agents which may have caused leaf tumors in tea seedlings, it was observed that ten times more seedlings developed tumors at high temperatures in the glasshouse than in a cool room. There were ten times more tumors on seedlings from immature ripe seed from capsules picked green than from

mature seed which had dehisced naturally. It is suggested that a growth substance in immature seeds may be the etiologic agent, and temperature.

14992-69

WELLMAN'S LEAF AND FRUIT SPOT OF ARABICA COFFEE IN NEW GUINEA.

D E Shaw

*Papua New Guinea Agr J* 19(4):152-166

Mar 1968 23 N453

Coffee, Leaf spot, Plant disease transmission, Plant diseases.

14993-69

THE PRESENT STATE OF KNOWLEDGE CONCERNING VIRUSES ON MUSHROOMS.

J W Sinden

*Mga (mushroom Growers Ass) Bull* 216:608-

610,612,614,616,618,620,622,627-628,632-634

Dec 1967 80 M97

Bacterial diseases (plants), Crop yields, Mushrooms, Plant protection, Virus diseases (plants).

14994-69

NOTE CONCERNING A VIRUS OF *CARTHAMUS TINCTORIUS*.

D Spire J Bertrand

*Ann Epiphyt* 19(OUTSIDE SERIES):281-286

REF

1968 464.9 F84AN

Host indexing (plants), Insect vectors, *Myzus persicae*, Safflower, Virus diseases (plants). English and German abstracts.

14995-69

STUDY ON DIEBACK OF TWIGS IN CULTIVATED BLUEBERRIES. (GE)

F Sprau

*Berlin Biol Bundesanst Land-forstwirtschaft Mitt*

132(37):132-135

Jan 1969 410.9 G31M

Blueberries, Dieback, *Fusicoccum*. English abstract.

14996-69

FUNGICIDAL CONTROL OF LATE BLIGHT OF POTATO IN THE NILGIRIS.

P Vidhyasekaran G Muthuswamy

*Indian J Agr Sci* 37(6):483-487

Dec 1967 22 AG831

Blight, Chemical control (plant diseases), Fungicides, Fungus diseases (plants), Polyram, Potatoes, Triphenyltin acetate.

14997-69

SEROLOGICAL AND INFECTIOUS PROPERTIES OF SOME VIRUS ISOLATES OBTAINED FROM GRAPES; RELATIONSHIP WITH THE FANLEAF VIRUS AND THE ARABIS MOSAIC VIRUS. (FR)

A. Vuittenez J. Kuszala R. Legin M-C. Munck

*Ann Epiphyt* 19(OUTSIDE SERIES):219-224

1968 464.9 F84AN

Arabis, Fanleaf (grapes), Grapes, Mosaic, Serodiagnosis, Serological tests, Viruses.

14998-69

CHARACTERISTICS OF A NON-LABILE RING-SPOT TYPE VIRUS ASSOCIATED WITH THE GRAPE FANLEAF DISEASE OF THE PEACHTREE. (FR)

A. Vuittenez J. Kuszala

*Ann Epiphyt* 19(OUTSIDE SERIES):267-274

1968 464.9 F84AN

Fanleaf (grapes), Host indexing (plants), Ring spot, Serodiagnosis.

14999-69

DISEASES--LAWNS AND TURF.

J C Wells

*N C Pesticide Manual* 00(00):103

1967 79.8 N81

Cultural control (plant diseases), Drenches, Fungicides, Lawns, Plant diseases, Turf.

15000-69

**CHEMICAL CONTROL OF CERCOSPORA LEAF SPOT OF SUGARBEETS IN NEBRASKA, 1965.**

D S Wysong M L Schuster R E Finkner E D Kerr  
*Amer Soc Sugar Beet Technol J 15(3):221-227*  
Oct 1968 66.9 AM35J

*Cercospora beticola*, Chemical control (plant diseases), Fungicides, Fungus diseases (plants), Leaf spot, Sugar beets.

## ARTHROPODS

15001-69

**CONTROLLING THE PINK BOLLWORM ON COTTON.**

U S D A *Farmers Bull (2207):12P*  
Apr 1968 1 AG84F

Accident prevention, Chemical control (insects), Cotton, Cultural control (insects), Eradication, Insect pests, Insecticide application, Pectinophora gossypiella, Plant injuries, Quarantine, The pesticides tested were: ddt, carbaryl, Guthion, methyl parathion, toxaphene and strobane.

15002-69

**RESISTANCE OF MAIZE INBREDS AND HYBRIDS TO NOCTUID. SESAMIA NONAGRIOIDES LEF. (FR)**

P. Anglade C. Bertin  
*Ann Epiphyt 19(4):579-587*  
1968 464.9 F84AN

Corn, Larvae, Plant breeding, Plant pest resistance, *Sesamia nonagrioides*. English abstract.

15003-69

**INCIDENCE OF AND LOSSES CAUSED BY SOME POD-INFESTING INSECTS IN DIFFERENT VARIETIES OF PIGEON-PEA (CAJANUS CAJAN (L.) MILLSP.).**

O S Bindra S S Jokhmola  
*Indian J Agr Sci 37(3):177-186*  
Jun 1967 22 AG83I

Bruchus, Crop losses, Insect pests, *Melanagromyza obtusa*, Pigeonpeas, Stored product insects, Surveys.

15004-69

**INSECTS ASSOCIATED WITH CITRUS IN NIGERIA.**

S O Boboye  
*Nigeria Fed Dep Agr Res Mem (88):8P*  
Oct 1967 464.9 W525M

Citrus, Insect pests, Parasitism, Predaceous insects.

The list is made up of 71 insects and 5 parasites and predators of citrus pests of the following orders: Orthoptera, Isoptera, Hemiptera-Homoptera, Coleoptera, Hymenoptera, Lepidoptera, and Diptera.

15005-69

**VARIATIONS IN THE VITALITY AND OSMOTIC PRESSURE OF SEVERAL EUCALYPTUS, AS A FUNCTION OF ECOLOGICAL CONDITIONS AND THE ROLE OF THE XYLOPHAGOUS PHORACANTHA SEMIPUNCTATA FABR. (COLEOPTERA, CERAMBYCIDAE). (FR)**

C Chararas A Schoenenberger H Poupon  
*Acad Sci Compt Rend Ser D 268(22, 1ST SEMESTER):2697-2700*  
02 Jun 1969 505 P21

Cerambycidae, Eucalyptus, Osmotic pressure, Plant ecology, Tree injuries.

15006-69

**CHEMICAL CONTROL OF MANGO HOPPERS (IDIOCERUS SPP.).**

S K Chikkerur  
*Plant Protect Bull 19(3):39-40*  
1967 421 P69

Chemical control (insects), DDT, Endrin, *Idiocerus*, Insecticides, Mangoes.

15007-69

**PEACH SPRAY PROGRAM.**

C N Clayton J Falter C F Smith

*N C Pesticide Manual 00(00):73-74*  
1967 79.8 N81

Chemical control (insects), Chlorinated hydrocarbons, Coccoidea, Curculio, Insecticides, Leaf curl, Lime-sulfur, Peaches, Spraying.

15008-69

**SPOTTING OF GRAPEFRUIT AS ASSOCIATED WITH FALSE SPIDER MITES.**

A A Dean N P Maxwell  
*Rio Grande Val Hort Soc J 21:35-45 REF*  
1967 81 L95

Azinphosmethyl, *Brevipalpus californicus*, *Brevipalpus phoenicis*, Chemical control (insects), Chlorinated hydrocarbons, Dicotyl, Grapefruit, Organophosphorus compounds, Plant injuries.

15009-69

**INSECTICIDAL TRIALS AGAINST JOWAR PESTS.**

S K Dorge V P Dalaya M V Gaikwar  
*Plant Protect Bull 19(1):15-20*  
1967 421 P69

Benzene hexachloride, Carbaryl, Chemical control (insects), DDT, Durra, Endrin, Heptachlor, Insecticides, Malathion, Nicotine.

15010-69

**HYLOBIUS WEEVIL LARVAE ATTACK ROOTS OF YOUNG SLASH PINES.**

B H Ebel E P Merkel  
*Forest Sci 13(1):97-99*  
Mar 1967 99.8 F7632

*Hyllobius*, Larvae, Phytophagous insects, *Pinus eliottii*, Plant injuries.

15011-69

**STRAWBERRY INSECT CONTROL.**

J Falter  
*N C Pesticide Manual 00(00):76*  
1967 79.8 N81

Chemical control (insects), Chlorinated hydrocarbons, Insect control, Strawberries.

15012-69

**PREFERENCE OF THE LEAF-HOPPER EMPOASCA KERRI PRUTHI (HOMOPTERA: JASSIDAE) TO PIGEON PEA (CAJANUS CAJAN (L.) MILLSP.) PLANTS INFECTED WITH STERILITY MOSAIC VIRUS.**

S Jayaraj A R Seshadri  
*Cur Sci 36(13):353-355 REF*  
05 Jul 1967 475 SCI23

*Empoasca*, Host specificity, Insect ecology, Mosaic, Pigeonpeas, Population.

15013-69

**CHARACTERISTIC OF DEVELOPMENT AND NOXIOUSNESS OF MOST IMPORTANT PESTS AND SOME DISEASES OF FRUIT TREES AND SMALL FRUITS IN POLAND IN 1967 AND THEIR FORECAST IN 1968. (PO)**

F Kagan  
*Poznan Inst Ochrony Roslin Biul (39):153-219 MAP*  
1968 464.9 P87

Crop losses, Fruit, Insect pests, Plant diseases, Surveys.

15014-69

**CHARACTERISTIC OF DEVELOPMENT AND NOXIOUSNESS OF MOST IMPORTANT PESTS AND SOME DISEASES OF LEGUMINOUS AND VEGETABLE PLANTS IN POLAND IN 1967 AND THEIR FORECAST FOR 1968. (PO)**

F Kagan  
*Poznan Inst Ochrony Roslin Biul (39):223-239 MAP*  
1968 464.9 P87

Crop losses, Insect pests, Legumes, Plant diseases, Surveys. English and Russian abstracts.

15015-69

**GRASSHOPPER CONTROL IN SOUTH DAKOTA, 1969.**

B H Kantack W L Berndt P A Jones  
*S Dak State Univ Ext Ext Mimeogr Circ (439):6P MAP*

1969 275.29 SO85FS

Accident prevention, Chemical control (insects), Grasshoppers, Insecticide application, Insecticides, Regulations. Directions are given for the use of many different insecticides.

15016-69

**A CASE HISTORY - CONTROL OF THE HEMLOCK LOOPER.**

T J King  
*Forest Notes (89, SPRING):14-17 MAP*  
1966 99.8 F7691

Chemical control (insects), Insect pests, *Lambdina athasaria*, Malathion, Organophosphorus compounds, Plant protection, Tsuga.

15017-69

**INFLUENCE OF PRUNING CITRUS TREES ON THE EFFICACY OF CONTROL OF BLACK SPOT (GUIGNARDIA CITRICARPA KIELY).**

F C Loest  
*So Afr Citrus J (419):15*  
Nov 1968 80 C495

Black spot, Citrus trees, Cultural control (plant diseases), Fungus diseases (plants), Pruning.

15018-69

**IDENTIFICATION OF THE CAUSAL AGENT OF A MALVA DISEASE PRESENT IN ITALY. (IT)**

G Majorana K Silberschmidt  
*Bari Univ Fac Agr Ann 21(PT 2):445-454 REF*  
1967 105.4 B232

Electron microscopy, Insect vectors, *Malva parviflora*, Myzus, Plant disease transmission, Sap, Virology, Virus diseases (plants). English summary.

15019-69

**THE USE OF SYSTEMIC INSECTICIDES TO REDUCE THE INCIDENCE OF CURLY TOP VIRUS DISEASE IN SUGARBEETS.**

N R Malm R E Finkner  
*Amer Soc Sugar Beet Technol J 15(3):246-254*  
Oct 1968 66.9 AM35J

Chemical control (insects), Circulifer tenellus, Curly top, Disyston, Insect control, Insect vectors, NIA 10242, Phorate, Sugar beets, Systemic insecticides, Virus diseases (plants).

Phorate and NIA proved more effective than timek and di-syston in controlling *Ciculifer tenellus*, the leafhopper vector of sugarbeet curly top virus disease.

15020-69

**ROLE OF THE JASSID APHRODES BICINCTUS SCHRK (HOM., AUCHEN) IN THE TRANSMISSION OF SOME WHITE CLOVER DISEASES. (FR)**

J-P. Moreau M-T. Cousin J-P. Lacote  
*Ann Epiphyt 19(OUTSIDE SERIES):103-110 REF*  
1968 464.9 F84AN

Cicadellidae, Dwarfing, Insect biology, Insect vectors, Phylloidy, Plant disease transmission, White clover. English and German abstracts.

15021-69

**POPULATION OF MYZUS PERSICAE SULZ. IN POTATO CROP AT PATNA.**

K K Nirula R Kumar  
*Indian J Agr Sci 37(2):108-111*  
Apr 1967 22 AG83I

Insect traps, *Myzus persicae*, Population, Potatoes, Reproduction.

Various types of insect traps were evaluated for the study of populations of green peach aphid, *Myzus persicae*, in a potato crop. Water traps caught the maximum number of aphids and also denoted the number of aphids likely to settle on the crop. Sticky traps had an advantage over the water traps in recording the earliest colonizers and denoting the flight activity of the aphids.

15022-69

**CHARACTERISTIC OF DEVELOPMENT AND NOXIOUSNESS OF THE MOST IMPORTANT POLYPHAGOUS PESTS PRESENT IN POLAND**

15023-69

## IN THE YEAR 1967 AND THEIR FORECAST FOR 1968. (PO)

K Piekarczyk

*Poznan Inst Ochrony Roslin Biul (39):5-20 MAP*  
1968 464.9 P87

Elateridae, Insect outbreak forecasting, Insect outbreaks, Lepus, Surveys. English and Russian abstracts.

15023-69

## CONTROL CAMPAIGN AGAINST HELIOTHIS ARMIGERA IN MYSORE STATE.

M K Ponnuswami

*Plant Protect Bull 19(1):34-35*  
1967 421 P69

Chemical control (insects), Chlorinated hydrocarbons, Cultural control (insects), DDT, Heliothis armigera, Insecticides, Pigeonpeas.

15024-69

## TURF INSECTS AND INSECTICIDES.

R Randell

*Turfgrass Conf Proc 8:16-19*

07 Dec 1967 SB433.14

Agrostis, Chemical control (insects), Insect pests, Insecticides, Phytotoxicity, Turf, Webworm. 10 insecticides were tested.

15025-69

## PECAN INSECT AND DISEASE SPRAY SCHEDULE.

R L Robertson H R Garriss

*N C Pesticide Manual 00(00):74*

1967 79.8 N81

Chemical control (insects), Dodine, Insect control, Pecans, Spraying.

15026-69

## GREENHOUSE INSECTS.

R L Robertson

*N C Pesticide Manual 00(00):101-102*

1967 79.8 N81

Chlorinated hydrocarbons, Greenhouse culture, Insect pests, Insecticide application, Soil insecticides.

15027-69

## FLOWER AND SHRUB INSECTS.

R L Robertson

*N C Pesticide Manual 00(00):94-97*

1967 79.8 N81

Chemical control (insects), Chlorinated hydrocarbons, Insect control, Insecticides, Ornamental plants, Shrubs.

15028-69

## EFFECTS OF SUB-LETHAL DOSAGES OF PARATHION AND CARBARYL ON THE BIOLOGY OF DYSDERCUS KOENIGII FABRICIUS.

H Singh R Lal

*Plant Protect Bull 19(3):12-20*

1967 421 P69

Carbaryl, Dysdercus, Fertility, Insect biology, Insect eggs, Insecticides, Longevity, Oviposition, Parathion.

15029-69

## EFFECTS OF INSECTICIDAL TREATMENT ON THE BIOLOGY OF SURVIVING INSECTS.

H Singh

*Plant Protect Bull 19(1):21-29 REF*

1967 421 P69

Benzene hexachloride, Dinitroresol, DDT, Fertility, Insect biology, Insect eggs, Insecticide resistant insects, Insecticides, Longevity, Oviposition.

15030-69

## ORGANIC INSECTICIDES AND SOME RECENT TRENDS IN PEST CONTROL.

S Singh

*Plant Protect Bull 19(1):6-14*

1967 421 P69

Carbamates, Chemical control (pests), Chlorinated hydrocarbons, Insect outbreak forecasting, Insecticides, Organic compounds, Organophosphorus compounds.

15031-69

## CENTRAL ANTI-LOCUST ORGANISATION IN INDIA.

S Singh

*Plant Protect Bull 19(3):1-11*

1967 421 P69

Insect control, Plant protection, Plant quarantine, Schistocerca gregaria, Stored products.

15032-69

## CHARACTERISTIC OF DEVELOPMENT AND NOXIOUSNESS OF THE MOST IMPORTANT DISEASES AND PESTS OF INDUSTRIAL PLANTS IN POLAND IN THE YEAR 1967 AND THEIR FORECAST FOR 1968. (PO)

A Studzinski

*Poznan Inst Ochrony Roslin Biul (39):109-151*

MAP

1968 464.9 P87

Crop losses, Flax, Insect pests, Plant diseases, Poland, Rape, Surveys, Tobacco. English and Russian abstracts.

15033-69

## CONTROL OF CITRUS APHIDS.

*Sunkist Pest Contr Circ (376):2*

Mar 1969 423.9 C12E

Aphididae, Chemical control (insects), Chlorinated hydrocarbons, Citrus, Insect pests.

Rotenone powder and oil, liquid rotenone, systox, phosdrin, dimethoate, and phosphamidon are listed for control of citrus aphids.

15034-69

## LEAF INJURY AND FOOD CONSUMPTION BY LARVAE OF PHAEDON COCHLEARIAE (COLEOPTERA; CHRYSOMELIDAE) AND PLUTELLA MACULIPENNIS (LEPIDOPTERA PLUTELLIDAE) FEEDING ON TURNIP AND RADISH.

W E Taylor R Bardner

*Entomol Exp Appl 11(2):177-184*

1968 421 EN895

Chrysomelidae, Food consumption, Insect nutrition, Insect pests, Plant injuries, Plutella maculipennis, Radishes, Turnips. German summary.

15035-69

## RELATIVE EFFICACY OF ENDRIN AND PARATHION AS PROPHYLACTIC SPRAYS IN THE CONTROL OF JUTE APION, APION CORCHORI MARSHALL (COLEOPTERA: CURCULIONIDAE).

R L Tripathi S K Ghose

*Indian J Agr Sci 37(6):498-503*

Dec 1967 22 AG831

Apion corchori, Chemical control (insects), Endrin, Insect control, Insecticides, Jute, Parathion.

15036-69

## REPORT OF THE SEVENTH FAO AD HOC CONFERENCE ON THE CONTROL OF OLIVE PESTS AND DISEASES, PALERMO, ITALY, 2 TO 9 MAY, 1967.

7:28P REF

1967 SB608.A104

Biological control (insects), Chemical control (insects), Chemical control (plant diseases), Conferences, Crop losses, Insect pests, Integrated control (insects), Olives, Reports.

15037-69

## INVESTIGATIONS ON THE BIOLOGY AND MEANS FOR CONTROL OF NEUROTOMA NEMORALIS L., TENTHREDINIDAE, THYSANOPTERA. (BU)

A Vassev

*Gradinarska Lozarska Nauk 5(4):15-26 REF*

1968 87 G75

Chemical control (insects), Cherries, Chlorinated hydrocarbons, Defoliation, Insect pests, Insecticides, Organophosphorus compounds, Plant protection, Tenthredinidae. English and Russian summaries.

The following chemicals were tested: agritan, phonithion or malathion emulsion, mixture of

parathion or ekatin, and parasitin, alone or in a solution.

15038-69

## CROFESUS SEPTENTRIONALIS L. (HYMENOPTERA TENTHREDINIDAE) A PEST OF THE ALDER. (IT)

F Venturi

*Osserv Mal Pianta Sez Entomol Circ (9):22P*

1966 QL461:08

Alnus, Alnus glutinosa, Arsenic compounds, Insect physiology, Insecticides, Metamorphosis, Parasitism, Plant protection, Predaceous insects, Tenthredinidae.

15039-69

## EFFECT OF TEMPERATURE AND HUMIDITY ON THE TOXICITY AND PERSISTENCE OF PARATHION, MALATHION AND ENDRIN DEPOSITS.

A N Verma R Lal

*Indian J Agr Sci 37(4):242-258 REF*

Aug 1967 22 AG831

Chemical control (insects), Endrin, Humidity, Insecticide residues, Malathion, Parathion, Temperature, Toxicology, Tribolium castaneum.

15040-69

## THE PALM SEED WEEVIL, CARYOBRUCHIUS GLEDITSIAE (L.), IN FLORIDA (COLEOPTERA: BRUCHIDAE).

R E Woodruff

*Fla Dep Agr Div Plant Indus Tri-ology Tech Rep*

7(6):11-12 MAP

Jun 1968 423.9 F6622

Bruchidae, Insect biology, Insect identification, Palm, Zoogeography.

15041-69

## CORRELATION STUDIES BETWEEN LEAF MID-RIB STRUCTURE AND RESISTANCE TO JASSIDS (EMPOASCA DEVASTANS DIST.) IN COTTON.

H N Yadava R K Mital H G Singh

*Indian J Agr Sci 37(6):495-497 REF*

Dec 1967 22 AG831

Cotton, Empoasca devastans, Plant insect resistance, Plant morphology.

## NEMATODES

15042-69

## EELWORM CONTROL: A PRACTICAL METHOD FOR THE STERILIZATION OF CASING SOILS.

T Bukowski

*Mushroom Sci 6:485-493*

1965 80 M972

Chemical control (nematodes), Crop losses, Mushrooms, Plant nematodes, Plant pest control, Sodium N-methyldithiocarbamate, Soil sterilization, Thermotherapy, Thiocarbamates. French and German summaries.

15043-69

## TYLENCHORHYNCHUS PALUSTRIS N. SP. (NEMATODA: TYLENCHINAE) INHABITANT OF THE RICE FIELDS OF IVORY COAST. (FR)

G. Merry G. Germani

*Ann Epiphyt 19(4):601-603*

1968 464.9 F84AN

Rice, Taxonomy, Tylenchorhynchus. English abstract.

15044-69

## ADDITIONAL NEMATOPHAGOUS FUNGI FROM DELHI SOILS.

J Sachchidananda G Swarup

*Curr Sci 36(24):677-678*

20 Dec 1967 475 SC123

Entomophthorales, Fungi, Morphology, Nematodes.

15045-69

## ON THE SPREAD AND CONTROL OF ANGUINA AGROSTIS. (GE)

- F Wagner  
Berlin Biol Bundesanst Land-forstwirtschaft Mitt  
132(37):113-115  
Jan 1969 410.9 G31M  
Aldicarb, *Anguina agrostis*, Chemical control (nematodes), Diethyl 0-2-pyrazinyl phosphorothioate, 0,0-, Grasses, Methyl bromide, Plant nematodes. English abstract.
- 15046-69**  
**NEMATODE CONTROL IN WOODY ORNAMENTALS.**  
J C Wells  
*N C Pesticide Manual 00(00):100*  
1967 79.8 N81  
Chemical control (nematodes), Nematode control, Ornamental plants, Plant nematodes.
- 15047-69**  
**INFLUENCE OF SOIL-TREATMENT AND APPLICATION OF HERBICIDE ON THE SOIL-FAUNA IN FRUIT-CULTURES. (GE)**  
D E Wilcke  
Berlin Biol Bundesanst Land-forstwirtschaft Mitt  
132(37):63-65  
Jan 1969 410.9 G31M  
Apples, Herbicides, Nematodes, Population, Soil fauna, Soil treatment. English abstract.
- 15048-69**  
**A NEW METHOD OF FIGHT AGAINST DICROCOELIUM LANCEOLATUM. (RUS)**  
H Zenginov  
*Priroda (Sofia) (4 JUL-AUG).69*  
Aug 1969 410 P934  
Biological control (pests), *Dicrocoelium*.
- WEEDS**
- 15049-69**  
**DEVELOPMENTS IN PASTURE WEED CONTROL.**  
G P Allen  
*Great Brit NAAS (Nat Agr Adv Serv) Quart Rev (82,WINTER):58-62*  
1968 241 G796  
Chemical control (weeds), D, 2,4-, Dalapon, Herbicides, Methyl-4-chlorophenoxy)butyric acid, 4-(2-, Nitrogen, Pastures, Weed control.
- 15050-69**  
**EXPERIMENTS ON THE BEHAVIOR OF MONOLINURON III. INFLUENCE ON THE BIOLOGICAL ACTIVITY OF SOIL IN COMPARISON WITH OTHER SOIL HERBICIDES. (GE)**  
T Beck  
Berlin Biol Bundesanst Land-forstwirtschaft Mitt  
132(37):71-72  
Jan 1969 410.9 G31M  
Biological activity, Herbicides, Monolinuron, Population, Soil algae, Soil bacteria, Soil microorganisms. English abstract
- 15051-69**  
**CONTROL OF WILD GARLIC (ALLIUM VINEALE) IN WINTER WHEAT.**  
L K Binning W F Meggitt  
*N Cent Weed Contr Conf Res Rep 24:62*  
1967 79.9 N81R  
*Allium vineale*, Chemical control (weeds), Herbicides, Wheat. Many herbicides were tested.
- 15052-69**  
**POSTDIRECTED APPLICATIONS OF HERBICIDES FOR WEED CONTROL IN CORN.**  
L E Bode M R Gebhardt  
*N Cent Weed Contr Conf Res Rep 24:9*  
1967 79.9 N81R  
Chemical control (weeds), Chlorinated hydrocarbons, Corn, Crop yields, Cyproimid, Equipment, Herbicide application, Herbicides, Linuron, Plant injuries.
- 15053-69**  
**POSTDIRECTED APPLICATIONS OF HERBICIDES FOR WEED CONTROL IN SOYBEANS.**  
L E Bode M R Gebhardt  
*N Cent Weed Contr Conf Res Rep 24:9*  
1967 79.9 N81R  
Chemical control (weeds), Dinoseb, Equipment, Herbicide application, Herbicides, Nitrated phcnols, Soybeans.
- 15054-69**  
**EQUIPMENT TO INCORPORATE HERBICIDES FOR WEED CONTROL IN SOYBEANS.**  
L E Bode M R Gebhardt  
*N Cent Weed Contr Conf Res Rep 24:8*  
1967 79.9 N81R  
Amiben, Chemical control (weeds), Crop yields, Dosage, Equipment, Herbicide application, Herbicides, Soybeans, Trifluralin.
- 15055-69**  
**OAT YIELDS ONE YEAR AFTER TRIFLURALIN APPLICATIONS.**  
O C Burnside  
*N Cent Weed Contr Conf Res Rep 24:5-6*  
1967 79.9 N81R  
Chemical control (weeds), Crop yields, Herbicide application, Herbicides, Kenaf, Oats, Sunn crotalaria, Tillage equipment, Trifluralin, *Vernonia anthelmintica*.
- 15056-69**  
**METHODS, TECHNIQUES AND EQUIPMENT FOR WEED RESEARCH.**  
O C Burnside et. al.  
*N Cent Weed Contr Conf Res Rep 24:7-9*  
1967 79.9 N81R  
Chemical control (weeds), Equipment, Herbicides, Methodology. Includes summary by O. C. Burnside followed by brief reports of various authors.
- 15057-69**  
**EFFECT OF HERBICIDES USED FOR WILD CANE CONTROL IN CORN ON SUBSEQUENT OAT YIELDS.**  
O C Burnside  
*N Cent Weed Contr Conf Res Rep 24:3*  
1967 79.9 N81R  
Chemical control (weeds), Corn, Crop yields, D, 2,4-, Ethyl N,N-dipropylthiocarbamate, Herbicides, Oats, Phenoxy acid compounds, Simazine, *Sorghum vulgare bicolor*, Thiocarbamates, Tillage.
- 15058-69**  
**OAT YIELDS SUBSEQUENT TO SELECTIVE WILD CANE CONTROL IN SOYBEANS WITH HERBICIDES.**  
O C Burnside  
*N Cent Weed Contr Conf Res Rep 24:1*  
1967 79.9 N81R  
Chemical control (weeds), Crop yields, Dimethyl 2,3,5,6-tetrachloroterephthalate, Herbicides, Oat straw, Oats, *Sorghum vulgare bicolor*, Soybeans, Trifluralin, Vernolate.
- 15059-69**  
**SELECTIVE WEED CONTROL IN CORN.**  
O C Burnside  
*N Cent Weed Contr Conf Res Rep 24:97*  
1967 79.9 N81R  
Amaranthus, Chemical control (weeds), Corn, Crop yields, Herbicides, *Polygonum pensylvanicum*, *Setaria viridis*. Many herbicides were tested.
- 15060-69**  
**CHEMICAL AND MECHANICAL CONTROL OF WILD CANE IN CORN.**  
O C Burnside  
*N Cent Weed Contr Conf Res Rep 24:98*  
1967 79.9 N81R  
Chemical control (weeds), Corn, Cultural control (weeds), D, 2,4-, Ethyl N,N-dipropylthiocarbamate, Herbicides, Phenoxy acid compounds, Simazine, *Sorghum vulgare bicolor*, Tillage.
- 15061-69**  
**BROMACIL-PARAQUAT MIXTURE FOR SPOT ERADICATION OF AGROPYRON REPENS (QUACKGRASS).**  
A C Carder  
*N Cent Weed Contr Conf Res Rep 24:18*  
1967 79.9 N81R  
Agropyron repens, Bromacil, Chemical control (weeds), Eradication, Herbicide application, Herbicides, Paraquat.
- 15062-69**  
**SOIL INCORPORATION OF TCA AT DIFFERENT TIMES TO CONTROL AGROPYRON REPENS (QUACKGRASS).**  
A C Carder  
*N Cent Weed Contr Conf Res Rep 24:19*  
1967 79.9 N81R  
Agropyron repens, Chemical control (weeds), Herbicide application, Herbicides, Tillage equipment, Trichloroacetic acid.
- 15063-69**  
**COMPARISON OF DIFFERENT METHODS OF APPLYING TCA FOR THE CONTROL OF AGROPYRON REPENS (QUACKGRASS).**  
A C Carder  
*N Cent Weed Contr Conf Res Rep 24:20*  
1967 79.9 N81R  
Agropyron repens, Chemical control (weeds), Equipment, Herbicide application, Herbicides, Methodology, Spraying, Trichloroacetic acid.
- 15064-69**  
**COMPARISON OF DIFFERENT HERBICIDES FOR THE CONTROL OF AGROPYRON REPENS (QUACKGRASS).**  
A C Carder  
*N Cent Weed Contr Conf Res Rep 24:17*  
1967 79.9 N81R  
Agropyron repens, Chemical control (weeds), Chlorinated hydrocarbons, Herbicides. The herbicides tested were TCA, atrazine, di-allate, EPTC, CIPC, C-2693.
- 15065-69**  
**TCA, TILLAGE AND NITROGEN FOR THE CONTROL OF AGROPYRON REPENS (QUACKGRASS).**  
A C Carder  
*N Cent Weed Contr Conf Res Rep 24:21*  
1967 79.9 N81R  
Agropyron repens, Chemical control (weeds), Herbicides, Nitrogen, Tillage equipment, Trichloroacetic acid.
- 15066-69**  
**SELECTIVE CONTROL OF MATRICARIA MARITIMA VAR. AGRESTIC (FALSE CHAMOMILE) BY DIFFERENT HERBICIDES.**  
A C Carder  
*N Cent Weed Contr Conf Res Rep 24:29-30*  
1967 79.9 N81R  
Azido-4-ethylamino-tert-butylamino-1,3,5-triazine, Chemical control (weeds), Crop yields, D, 2,4-, Dicamba, Herbicides, *Matricaria*, Mecoprop, Phenoxy acid compounds, Picloram.
- 15067-69**  
**BROMACIL FOR SPOT ERADICATION OF AGROPYRON REPENS (QUACKGRASS).**  
A C Carder  
*N Cent Weed Contr Conf Res Rep 24:17*  
1967 79.9 N81R  
Agropyron repens, Bromacil, Chemical control (weeds), Eradication, Herbicide application, Herbicides.
- 15068-69**  
**CONTROL OF AGROPYRON REPENS (QUACKGRASS) BY ROTAVATOR.**  
A C Carder  
*N Cent Weed Contr Conf Res Rep 24:15*  
1967 79.9 N81R  
Agropyron repens, Equipment, Plant cuttings, Soil moisture, Starvation, Tillage, Weather, Weed control.
- 15069-69**  
**SPOT ERADICATION OF AGROPYRON REPENS (QUACKGRASS) BY HERBICIDES.**  
A C Carder  
*N Cent Weed Contr Conf Res Rep 24:16*  
1967 79.9 N81R

15070-69

Agropyron repens, Chemical control (weeds), Equipment, Eradication, Herbicide application, Herbicides. The following chemicals were tested: atrazine, bromacil, picloram, sodium chlorate, pyriclor, dicamba, and monuron.

15070-69

**WEED CONTROL IN HORTICULTURAL CROPS: FRUITS. WEED CONTROL IN STRAWBERRIES.**

A W Cole G C Klingbeil  
*N Cent Weed Contr Conf Res Rep 24:43*

1967 79.9 N81R

Ambrosia artemisifolia, Chemical control (weeds), Chenopodium album, Dimethyl tetrachloroterephthalate, Fruit, Herbicides, Lepidium virginicum, Polygonum convolvulus, Setaria, Strawberries, Surface-active agents.

15071-69

**HERBICIDES IN SHELTER BELTS OF FARMLANDS. (GE)**

W Costa

*Berlin Biol Bundesanst Land-forstwirtschaftl Mitt 132(37):109-110*

Jan 1969 410.9 G31M

Chemical control (weeds), Herbicides, Weed control. English abstract.

15072-69

**EVALUATION OF HERBICIDES FOR ANNUAL WEED CONTROL IN WHEAT AND BARLEY.**

A L Darwent R Behrens G R Miller

*N Cent Weed Contr Conf Res Rep 24:56-57*

1967 79.9 N81R

Barley, Chemical control (weeds), Herbicides, Wheat.

Many herbicide mixtures were tested on Polygonum pennsylvanicum, P. convolvulus, Chenopodium album, Amaranthus retroflexus, Setaria sp. and Setaria faberii.

15073-69

**HERBICIDES FOR ANNUAL WEED CONTROL IN OATS.**

A L Darwent R Behrens W W Nelson

*N Cent Weed Contr Conf Res Rep 24:55-56*

1967 79.9 N81R

Chemical control (weeds), Crop yields, Herbicides, Oats, Polygonum, Polygonum convolvulus, Setaria viridis.

The following herbicides were tested: 6S-14260, chlorflurazole, bromoxynil, 2,4-d, dicamba, MCPA, and picloram.

15074-69

**FALL VS. SPRING APPLICATIONS OF ATRAZINE FOR WEED CONTROL IN CORN.**

A L Darwent R Behrens W W Nelson

*N Cent Weed Contr Conf Res Rep 24:95*

1967 79.9 N81R

Atrazine, Chemical control (weeds), Chenopodium album, Corn, Crop yields, Echinochloa crusgalli, Herbicide application, Herbicides, Polygonum, Setaria, Time.

15075-69

**PREEMERGENCE HERBICIDES FOR CORN IN MINNESOTA.**

A L Darwent R Behrens G R Miller

*N Cent Weed Contr Conf Res Rep 24:93*

1967 79.9 N81R

Amaranthus retroflexus, Ambrosia artemisifolia, Chemical control (weeds), Chenopodium album, Corn, Herbicides, Polygonum, Preemergence, Setaria, Setaria faberii. Many herbicides were tested.

15076-69

**PREPLANT INCORPORATION HERBICIDES FOR CORN IN MINNESOTA.**

A L Darwent R Behrens G R Miller

*N Cent Weed Contr Conf Res Rep 24:93*

1967 79.9 N81R

Amaranthus, Ambrosia artemisifolia, Chemical control (weeds), Chenopodium album, Corn, Herbicide application, Herbicides, Setaria, Setaria

faberii. Many herbicides and herbicide mixtures were tested.

15077-69

**CONTROL OF ANNUAL WEEDS IN WHEAT AND BARLEY.**

A L Darwent R Behrens S D Evans

*N Cent Weed Contr Conf Res Rep 24:59*

1967 79.9 N81R

Barley, Chemical control (weeds), Herbicides, Wheat.

The following herbicides and mixtures were tested: GS-14260, chlorflurazole, chlorfluzole, bromoxynil, MCPA, 2,4-d, picloram, and dicamba on 7 species of weeds.

15078-69

**EARLY POSTEMERGENCE HERBICIDES FOR CORN IN MINNESOTA.**

A L Darwent R Behrens G R Miller

*N Cent Weed Contr Conf Res Rep 24:89-90*

1967 79.9 N81R

Amaranthus retroflexus, Ambrosia artemisifolia, Chemical control (weeds), Chenopodium album, Corn, Herbicides, Polygonum, Setaria, Setaria faberii. Many herbicides were tested.

15079-69

**HERBICIDES FOR ANNUAL WEED CONTROL IN WHEAT AND BARLEY.**

A L Darwent R Behrens G R Miller

*N Cent Weed Contr Conf Res Rep 24:59-60*

1967 79.9 N81R

Amaranthus retroflexus, Barley, Chemical control (weeds), Chenopodium album, Herbicides, Polygonum convolvulus, Polygonum pennsylvanicum, Setaria faberii, Wheat. Many herbicides and herbicide mixtures were tested.

15080-69

**COMPOSITION AND YIELD OF WEED INFESTATIONS IN SOUTH DAKOTA CORNFIELDS.**

J G Dosland

*N Cent Weed Contr Conf Res Rep 24:14*

1967 79.9 N81R

Corn, Crop yields, Density, Weeds. There were 20 species of weeds observed and their density measured.

15081-69

**THE EFFECT OF APPLICATION METHODS ON PERFORMANCE OF ATRAZINE.**

R J Fink J B Masterson

*N Cent Weed Contr Conf Res Rep 24:101-103*

1967 79.9 N81R

Amaranthus, Amaranthus retroflexus, Atrazine, Chemical control (weeds), Digitaria sanguinalis, Herbicide application, Herbicides, Setaria italica.

15082-69

**PREEMERGENCE TREATMENTS OF SEVERAL FORMULATIONS OF DICAMBA ON CORN.**

R J Fink

*N Cent Weed Contr Conf Res Rep 24:105*

1967 79.9 N81R

Chemical control (weeds), Corn, Dicamba, Herbicide application, Herbicides, Plant injuries.

15083-69

**EFFECT OF POSTEMERGENCE APPLICATIONS OF HERBICIDES ON SUGARBEET DEVELOPMENT AND WEED CONTROL IN CENTRAL CALIFORNIA.**

B B Fischer L K Beutler

*Amer Soc Sugar Beet Technol J 15(3):200-208*

Oct 1968 66.9 AM35J

Chemical control (weeds), Dalapon, Herbicide resistant plants, Herbicides, Pyrazon, Sugar beets, Weed control.

The herbicides, dalapon and pyrazon, were successfully used to control weeds in sugar beet stands, and were found to be least harmful to the sugar beets at early developmental stages and at low temperatures.

15084-69

**THE EFFECT OF AMOUNT OF INCORPORATION ON THE PERFORMANCE OF ATRAZINE FOR WEED CONTROL IN CORN.**

H O Fletchall J Caulder

*N Cent Weed Contr Conf Res Rep 24:105-106*

1967 79.9 N81R

Ambrosia artemisifolia, Atrazine, Chemical control (weeds), Dosage, Herbicides, Setaria faberii.

15085-69

**INCORPORATION OF ATRAZINE PREPLANT FOR WEED CONTROL IN CORN.**

O H Fletcher J Caulder

*N Cent Weed Contr Conf Res Rep 24:111*

1967 79.9 N81R

Atrazine, Chemical control (weeds), Corn, Herbicide application, Herbicides.

15086-69

**WEED CONTROL IN FIELD CROPS: SMALL GRAINS.**

G Friesen et al.

*N Cent Weed Contr Conf Res Rep 24:55-65*

1967 79.9 N81R

Alfalfa, Barley, Chemical control (weeds), Herbicides, Wheat. Includes summary by G. Friesen, followed by brief reports of various authors.

Many herbicides were tested.

15087-69

**ITALIAN BEET CULTURE. SELECTIVE CHEMICAL WEED CONTROL. (IT)**

G Gallarte

*Agricoltura 17(6):79-85*

Jun 1968 16 AG8226

Beets, Chemical control (weeds), Herbicides. English and French summaries. discussion of 15 herbicides.

15088-69

**INCORPORATION OF TRIFLURALIN WITH THE DISK HARROW AND POWER ROTARY CULTIVATOR.**

M R Gebhardt L E Bode

*N Cent Weed Contr Conf Res Rep 24:8*

1967 79.9 N81R

Chromatography, Herbicide application, Herbicides, Tillage equipment, Trifluralin.

15089-69

**POSTDIRECTED APPLICATIONS OF ATRAZINE AND OIL FOR WEED CONTROL IN CORN.**

M R Gebhardt L E Bode

*N Cent Weed Contr Conf Res Rep 24:9*

1967 79.9 N81R

Atrazine, Chemical control (weeds), Corn, Herbicide application, Herbicides, Oils.

15090-69

**SEASON-LONG WEED CONTROL IN CORN WITH ATRAZINE.**

Geigy Agricultural Chemicals, Ardsley, N. Y. 11P

Dec 1967 SB611.G42

Atrazine, Chemical control (weeds), Corn, Plant protection.

15091-69

**EFFICACY, PERSISTENCE AND SAFETY RANGE OF HERBICIDES IN IRRIGATED COTTON.**

Y Gutstein

*Indian J Agr Sci 37(2):132-142 REF*

Apr 1967 22 AG831

Chemical control (weeds), Cotton, Dacthal, Herbicides, Irrigation, Plant disease resistance, Prometryne, Urca compounds, Weed control.

15092-69

**WEED CONTROL IN HORTICULTURAL CROPS: VEGETABLES; FRUIT.**

E T Haltvick Et Al

*N Cent Weed Contr Conf Res Rep 24:33-43*

1967 79.9 N81R

Beans, Beets, Chemical control (weeds), Cucumbers, Fruit, Herbicides, Potatoes, Tomatoes, Vegetables. Includes summary by E. T. haltwick, followed by brief reports of various authors.

Twenty-two herbicides were tested.

15093-69

**AQUATIC WEED CONTROL IN CENTRAL ILLINOIS DURING 1967.**

R C Hiltbran

*N Cent Weed Contr Conf Res Rep 24:44-45*

1967 79.9 N81R

Aquatic weeds, Chemical control (weeds), Herbicides.

The following herbicides: dichlobenic, atrazine, simazine, chloroxuron, fenac, 2,4,5-t and silvex were tested on *Potamogeton pectinatus*, *P. foliosus*, *Myriophyllum spicatum*, *P. nodosus*, *P. pusillus*, *Najas quadrilupensis*, *Sagittaria latifolia*, *Nuphar advena*, and *Heteranthera dubia*.

15094-69

**HELICOPTERS USED IN AUTUMN FOR CONTROLLING WEED IN WINTER CEREALS. (GE)**

H Hornig

*Berlin Biol Bundesanst Land-forstwirtschaft Mitt*

132(37):202-204

Jan 1969 410.9 G31M

Aircraft, Chemical control (weeds), Weed control. English abstract

15095-69

**THE EFFECT OF HERBICIDES ON THE GROWTH OF YOUNG COCONUT PALMS.**

J C Hoyle

*Trop Agr & St Augustine & 46(2):137-143*

Apr 1969 26 T754

Bromacil, Chemical control (weeds), Coconuts, D, 2,4-, Herbicides, Weed control.

Bromacil was the only one of eight herbicides tested that had adverse effects on the growth of young coconut palms at normal application rates. 2,4D plus dalapon was sprayed around trees over two years old with no visibly harmful effects.

15096-69

**USE OF BUTYRICS.**

*Weeds Tech Bull (222):3P*

1965 79.9 W323

Alfalfa, Butyrates, Chemical control (weeds), Clover, Dichlorophenoxy butyric acid, 4-(2,4-, Grasses, Herbicide application, Herbicides, Methyl-4-chlorophenoxybutyric acid, 4-(2-, Peas, Phenoxy acid compounds. Many common weeds are listed and their reactions to weed killers.

15097-69

**CHEMICAL WEED CONTROL IN FLORAL CROPS.**

J M Jenkins W A Skroch

*N C Pesticide Manual 00(00):98-99*

1967 79.8 N81

Chemical control (weeds), D, 2,4-, Diuron, Gladiolus, Ornamental plants, Trifluralin.

15098-69

**INTERRELATIONSHIP BETWEEN USE OF HERBICIDES AND GROWING TECHNIQUE OF TOBACCO. (GE)**

W Kampe

*Berlin Biol Bundesanst Land-forstwirtschaft Mitt*

132(37):120-123

Jan 1969 410.9 G31M

Bromophenyl-1-methoxy-1-methylurea, 3-(p-, Chemical control (weeds), Crop varieties, Tobacco, Weed control. English abstract.

15099-69

**WEED CONTROL IN FIELD CROPS: CORN.**

G Kapusta Et Al

*N Cent Weed Contr Conf Res Rep 24:87-130*

1967 79.9 N81R

Chemical control (weeds), Corn, Herbicides. Includes summary by G. Kapusta followed by brief reports of various authors.

Many herbicides were tested.

15100-69

**EVALUATION OF PREEMERGENCE HERBICIDES ON CROP AND WEED SPECIES.**

E L Knake P L Martin D L Mulvaney

*N Cent Weed Contr Conf Res Rep 24:28*

1967 79.9 N81R

Chemical control (weeds), Crops, Herbicides, Preemergence, Tillage, Weeds. Twenty herbicides were tested on corn, soybeans, alfalfa, green foxtail, pigweed, smartweed, and velvet leaf.

15101-69

**THE PROBLEM OF FINDING A PRECISE APPLICATION METHOD FOR THE HERBICIDES MCPA AND 2,4-D ON SUMMER BARLEY. (CZ)**

V Kohout

*Praze Sb Vysoke Sk Zemed (SER A):273-281 REF*

1966 S13.P72

Barley, D, 2,4-, Herbicide application, Methyl-4-chlorophenoxyacetic acid, 2-, Phenoxy acid compounds, Seed germination. German and Russian summaries.

15102-69

**TESTS WITH CERTAIN HERBICIDES AGAINST WEEDS IN FIELD BEANS. (BU)**

K Konstantinov

*Rastenievud Nauk 5(2):125-135 REF*

1968 64.8 R18

Beans, Chemical control (weeds), Dosage, Herbicides, Pesticide application, Toxicology. English and Russian summaries. 15 herbicides were tested.

15103-69

**CONTROL OF PERENNIAL GRASS WEEDS.**

C A Kust et. al.

*N Cent Weed Contr Conf Res Rep 24:15-21*

1967 79.9 N81R

Agropyron repens, Chemical control (weeds), Grasses, Herbicides, Perennial plants. Includes summary by C. A. Kust, followed by brief reports of various authors.

15104-69

**INCREASE YOUR WHEAT YIELD BY CHEMICAL WEED CONTROL.**

V G Lokras R S Tomar

*Indian Farming 17(4):7*

Jul 1967 22 IN283

Chemical control (weeds), Cultural control (weeds), D, 2,4-, Economics, Weed control, Wheat.

15105-69

**EXPERIMENTS ON CHEMICAL WEED CONTROL IN SPICE AND PHARMACEUTICAL PLANTS. (GE)**

G Maas

*Berlin Biol Bundesanst Land-forstwirtschaft Mitt*

132(37):124-128

Jan 1969 410.9 G31M

Chemical control (weeds), Pesticide residues, Plants, Spices, Weed control. English abstract.

15106-69

**PREPLANT, PREEMERGENCE, POSTEMERGENCE AND HERBICIDE COMBINATIONS FOR WEED CONTROL IN CORN.**

J B Masterson R J Fink

*N Cent Weed Contr Conf Res Rep 24:103-104*

1967 79.9 N81R

Amaranthus, *Amaranthus retroflexus*, Chemical control (weeds), Corn, *Digitaria sanguinalis*, Herbicide application, Herbicides, *Setaria italica*. Many herbicides were tested.

15107-69

**CONTROL OF PLUMELESS THISTLE.**

M K McCarty C J Scifres

*N Cent Weed Contr Conf Res Rep 24:83-84*

1967 79.9 N81R

Chemical control (weeds), D, 2,4-, Dicamba, Herbicides, Phenoxy acid compounds, Picloram, T, 2,4,5-.

15108-69

**TIME OF HERBICIDE AND FERTILIZER APPLICATIONS IN RELATION TO HERBICIDE-**

**INDUCED DAMAGE TO SMOOTH BROMEGRASS.**

M K McCarty C J Scifres

*N Cent Weed Contr Conf Res Rep 24:83*

1967 79.9 N81R

*Bromus inermis*, D, 2,4-, Dicamba, Fertilizers, Herbicide application, Herbicides, Phenoxy acid compounds, Picloram, Plant injuries.

15109-69

**EFFECTS OF MOIST AND DRY CHILLING PERIODS BEFORE GERMINATION OF FOUR THISTLE SPECIES.**

M K McCarty C J Scifres

*N Cent Weed Contr Conf Res Rep 24:11*

1967 79.9 N81R

*Cirsium*, Crop varieties, Plant physiology, Seed germination, Temperature, Weed control. Thistle varieties were *Garduus nutans*, *Garduus acanthoides*, *Onopordum acanthium* and *Cirsium vulgare*.

15110-69

**WEED CONTROL IN FIELD CROPS: PASTURES AND FORAGES.**

M K McCarty Et Al

*N Cent Weed Contr Conf Res Rep 24:80-86*

1967 79.9 N81R

Chemical control (weeds), Crop yields, Fertilizers, Forage plants, Grasses, Herbicides, Pastures. Includes summary by M. K. McCarty, followed by brief reports of various authors.

15111-69

**APPLICATION OF GRANULATED HERBICIDES IN SHELTER PLANTATIONS. (GE)**

J Meyer W Hansen

*Berlin Biol Bundesanst Land-forstwirtschaft Mitt*

132(37):111-112

Jan 1969 410.9 G31M

Herbicides, Methodology, Pesticide application. English abstract.

15112-69

**WEED CONTROL IN CORN AT WASECA, MINNESOTA.**

G R Miller R Behrens R D Frazier J R Thompson

*N Cent Weed Contr Conf Res Rep 24:111*

1967 79.9 N81R

Atrazine, Chemical control (weeds), Corn, Crop yields, Herbicides. The herbicides were tested on eight varieties of weeds.

15113-69

**WEED CONTROL IN CORN AT LAMBERTON, MINNESOTA.**

G R Miller R Behrens W W Nelson

*N Cent Weed Contr Conf Res Rep 24:112*

1967 79.9 N81R

Chemical control (weeds), Corn, Crop yields, Herbicides, *Setaria glauca*, *Setaria viridis*. Many herbicides were tested.

15114-69

**WEED CONTROL IN CORN AT MORRIS, MINNESOTA.**

G R Miller R Behrens S D Evans

*N Cent Weed Contr Conf Res Rep 24:90-91*

1967 79.9 N81R

*Amaranthus retroflexus*, *Brassica kaber*, Chemical control (weeds), *Chenopodium album*, Corn, Herbicides, *Setaria glauca*, *Setaria viridis*, Tillage. Many herbicides were tested.

15115-69

**CONTROL OF WEEDS IN CORN WITH HERBICIDES.**

L W Mitich

*N Cent Weed Contr Conf Res Rep 24:119*

1967 79.9 N81R

Amiben, Atrazine, Chemical control (weeds), Corn, Fenac, Herbicides, Linuron, Oils, *Setaria lutescens*, *Setaria viridis*.

15116-69

**CONTROL OF PERENNIAL BROADLEAVED WEEDS.**

L W Mitich et. al.

*N Cent Weed Contr Conf Res Rep 24:22-25*

1967 79.9 N81R

Chemical control (weeds), Herbicides, Perennial plants, Weeds. Includes summary by L. W. Mitich, followed by brief reports of various authors.

15117-69

**LEAFY SPURGE CONTROL DEMONSTRATIONS IN NORTH DAKOTA.**

L W Mitich

*N Cent Weed Contr Conf Res Rep 24:22*

1967 79.9 N81R

Amitrole, Ammonium sulfamate, Chemical control (weeds), D, 2,4-, Dicamba, Euphorbia esula, Herbicides, Phenoxy acid compounds, Picloram.

15118-69

**CHEMICAL CONTROL OF SCENTLESS CHAMOMILE.**

L W Mitich

*N Cent Weed Contr Conf Res Rep 24:26*

1967 79.9 N81R

Chemical control (weeds), D, 2,4-, Dicamba, Herbicides, Matricaria inodora, Methyl-4-chlorophenoxyacetic acid, 2-, Phenoxy acid compounds, Picloram, Silvex.

15119-69

**PICLORAM, DICAMBA AND 2,4-D TO CONTROL FIELD BINDWEED.**

L W Mitich

*N Cent Weed Contr Conf Res Rep 24:24-25*

1967 79.9 N81R

Chemical control (weeds), Convolvulus, D, 2,4-, Dicamba, Herbicides, Phenoxy acid compounds, Picloram.

15120-69

**WILD OATS CONTROL IN WHEAT.**

J D Nalewaja

*N Cent Weed Contr Conf Res Rep 24:31-32*

1967 79.9 N81R

*Avena fatua*, Barban, Chemical control (weeds), Endothal, Herbicides, Monosodium acid methanearsonate, Wheat.

15121-69

**WILD OATS CONTROL IN WHEAT.**

J D Nalewaja

*N Cent Weed Contr Conf Res Rep 24:64-65*

1967 79.9 N81R

*Avena fatua*, Chemical control (weeds), Herbicides, Wheat. Many herbicides were tested.

15122-69

**WEED CONTROL IN WHEAT.**

J D Nalewaja

*N Cent Weed Contr Conf Res Rep 24:64*

1967 79.9 N81R

Brassica kaber, Chemical control (weeds), *Fumaria officinalis*, Herbicides, *Polygonum convolvulus*, Wheat. Ten herbicides were tested.

15123-69

**POSTEMERGENCE WEED CONTROL IN CORN.**

J D Nalewaja

*N Cent Weed Contr Conf Res Rep 24:89*

1967 79.9 N81R

*Amaranthus retroflexus*, Atrazine, Chemical control (weeds), Corn, Dicamba, Herbicides, Oils, *Setaria glauca*.

15124-69

**CHEMICAL WEED CONTROL 1967 HANDBOOK.**

46P

1967 79.9 N216

Chemical control (weeds), Crop yields, Dosage, Dusting, Equipment, Handbooks, Herbicide application, Herbicides, Nozzles, Spraying.

The herbicides used were 2,4-d, MCP, buctril, banvel-3, avadex, carbyn. Other chemicals were used for special weed problems.

15125-69

**INFLUENCE OF LATE FALL APPLICATION OF HERBICIDES FOR CONTROL OF MUSK THISTLE.**

E B Nilson

*N Cent Weed Contr Conf Res Rep 24:81-82*

1967 79.9 N81R

*Cardus nutans*, Chemical control (weeds), Herbicide application, Herbicides, Temperature. Many herbicides were tested.

15126-69

**EFFECT OF HERBICIDES ON CONTROL OF WILD CANE IN IRRIGATED CORN.**

E B Nilson

*N Cent Weed Contr Conf Res Rep 24:116-117*

1967 79.9 N81R

Chemical control (weeds), Corn, D, 2,4-, Ethyl N,N-dipropylthiolcarbamate, Herbicides, Irrigation, Phenoxy acid compounds, Simazine, *Sorghum vulgare* bicolor.

15127-69

**NORTH CENTRAL WEED CONTROL CONFERENCE. TWENTY-FOURTH ANNUAL RESEARCH REPORT.**

*N Cent Weed Contr Conf Res Rep 24:165P*

1967 79.9 N81R

Conferences, Reports, Weed control.

15128-69

**THE I. I. S. R. WEEDER-MULCHER IS IDEAL FOR SUGARCANE.**

R R Panje R G Mcnon

*Indian Farming 17(2):7,8,47*

May 1967 22 IN283

Agricultural mechanics, Equipment, Mulches, Sugarcane, Weed control.

15129-69

**CHEMICAL WEED CONTROL IN PASTURE, RANGE AND HAYLAND.**

R Parker L A Derscheid

*S Dak State Univ Ext Ext Mimeogr Circ (426):5P*

1968 275.29 SO85FS

Chemical control (weeds), Costs, D, 2,4-, Dosage, Forage plants, Hay, Herbicide application, Herbicides, Methyl-4-chlorophenoxybutyric acid, 4-(2-, Mowing, Pastures, Phenoxy acid compounds, Ranges, Silvex, T, 2,4,5-. Many weeds and their control are listed.

15130-69

**POST EMERGENCE HERBICIDES ON SPRING-SOWN ALFALFA.**

E J Peters S A Lowance

*N Cent Weed Contr Conf Res Rep 24:85*

1967 79.9 N81R

Alfalfa, *Amaranthus*, *Ambrosia artemisifolia*, Chemical control (weeds), Grasses, Herbicides, Plant injuries, *Polygonum pensylvanicum*. Many herbicides were tested.

15131-69

**CONTROL OF WEEDS IN DORMANT BIRD-FOOT TREFOIL.**

E J Peters S A Lowance

*N Cent Weed Contr Conf Res Rep 24:86*

1967 79.9 N81R

*Barbarea vulgaris*, Bromus, Chemical control (weeds), Erigeron, Herbicides, *Rumex crispus*. Many herbicides were tested.

15132-69

**PREPLANT HERBICIDES FOR CONTROL OF WEEDS IN RED CLOVER.**

E J Peters S A Lowance

*N Cent Weed Contr Conf Res Rep 24:86*

1967 79.9 N81R

*Amaranthus*, *Ambrosia artemisifolia*, Benfenin, Chemical control (weeds), Ethyl N,N-dipropylthiolcarbamate, Herbicides, Panicum, *Polygonum pensylvanicum*, Red clover, *Setaria faberii*.

15133-69

**POST EMERGENCE HERBICIDES FOR CONTROL OF RAGWEEDS IN LESPEDEZA.**

E J Peters S A Lowance

*N Cent Weed Contr Conf Res Rep 24:85-86*

1967 79.9 N81R

*Ambrosia*, *Ambrosia artemisifolia*, Chemical control (weeds), Herbicides, Lespedeza. Many herbicides were tested.

15134-69

**WEED CONTROL IN FIELD CROPS: SORGHUM.**

W M Phillips et. al.

*N Cent Weed Contr Conf Res Rep 24:46-54*

1967 79.9 N81R

Chemical control (weeds), Herbicide application, Herbicides, Soils, Sorghum. Includes summary by W. M. Phillips, followed by brief reports of various authors.

The following herbicides were tested: propahlor, atrazine, dinodan, fenca, amiben, norea, GS-13529, GS-14260.

15135-69

**SANDALWOOD (EREMOPHILA MITCHELLII) CONTROL IN GIDYEA COUNTRY.**

D L Purcell

*Queensland J Agr Anim Sci 23(3):387-395*

Sep 1966 23 Q37

Acacia, Chemical control (weeds), D, 2,4-, Methodology, Santalum, T, 2,4,5-.

Sandalwood, which can overrun pastures and thus reduce the production of animals, has been controlled with 2,4,5-T butyl ester as basal spray, swab, and foliage spray.

15136-69

**SELECTIVE WEED CONTROL WITH PREPLANT HERBICIDES IN CORN ACROSS NEBRASKA.**

L R Robison O C Burnside C R Fenster U U

Alexander G A Wicks

*N Cent Weed Contr Conf Res Rep 24:99*

1967 79.9 N81R

Chemical control (weeds), Corn, Crop yields, Herbicides, Plant injuries. Many herbicides were tested.

15137-69

**COMPETITION BETWEEN CORIANDRUM SATIVUM SEEDLINGS AND WEEDS UNDER PROMETRIN APPLICATION AT TWO DIFFERENT NPK AND PH LEVELS. (POL)**

A Ruminska A Suchorska

*Poznan Inst Przemyslu Zielarskiego Biul*

13(4):220-227

1967 451 P87

Chemical control (weeds), Coriandrum sativum, Dosage, Fertilizers, Herbicides, Pesticide application, Prometryne, Seedlings, Soil hydrogen-ion concentration. English and Russian summaries.

15138-69

**PREEMERGENCE HERBICIDES FOR WEED CONTROL IN CORN AT SEVERAL LOCATIONS IN MICHIGAN.**

J W Schrader W F Meggitt

*N Cent Weed Contr Conf Res Rep 24:115*

1967 79.9 N81R

Chemical control (weeds), Corn, Herbicides, Preemergence. Many herbicides were tested on many species of weeds.

15139-69

**ATRAZINE-OIL MIXTURES FOR POSTEMERGENCE WEED CONTROL IN CORN AT SEVERAL LOCATIONS IN MICHIGAN.**

J W Schrader W F Meggitt

*N Cent Weed Contr Conf Res Rep 24:106-107*

1967 79.9 N81R

Atrazine, Chemical control (weeds), Corn, Herbicides, Oils. The herbicides were tested on many weed species.

15140-69

**PREPLANT APPLICATION OF HERBICIDES FOR WEED CONTROL IN CORN.**

J W Schrader W F Meggitt

*N Cent Weed Contr Conf Res Rep 24:114*

1967 79.9 N81R

*Amaranthus retroflexus*, Chemical control (weeds), *Chenopodium album*, Corn, Herbicide



application, Herbicides, *Setaria viridis*, Tillage, Timc. Many herbicides were tested on different weed varieties.

**15141-69**  
**HERBICIDAL CONTROL OF WEEDS IN SUGARBEETS.**

E E Schweizer D M Weatherspoon  
*Amer Soc Sugar Beet Technol J* 15(3):263-276  
REF  
Oct 1968 66.9 AM35J

Acetates, Ammonium compounds, Chemical control (weeds), Chlorinated hydrocarbons, Cycloate, Dalapon, Herbicides, Kochia, Pyrazon, Sugar beets, Thiocarbamates.

Kochia was controlled satisfactorily for the first time by 2lb./A of benazox applied as a postemergence spray to sugarbeets. The control of a mixed population of foxtail, lambsquarters and pigweed by herbicides applied preplant was supplemented by a postemergence mixture of 4lb./A of pyrazon plus 2.2lb./A dalapon. The application of cycloate as a preplant treatment, increased the susceptibility of both sugarbeets and weeds to a postemergence mixture of pyrazon plus dalapon.

**15142-69**  
**CONTROL OF SONCHUS ARVENSIS (PERENNIAL SOWTHISTLE).**

B Siemcs A C Carder  
*N Cent Weed Contr Conf Res Rep* 24:24  
1967 79.9 N81R

Chemical control (weeds), D, 2,4-, Dicamba, Dichlorophenoxybutyric acid, 4-(2-, Herbicides, Perennial plants, Phenoxy acid compounds, Picloram, *Sonchus arvensis*.

**15143-69**  
**CHEMICAL WEED CONTROL IN FRUIT CROPS.**

W A Skroch W M Lewis A D Worsham  
*N C Pesticide Manual* 00(00):77-78  
1967 79.8 N81

Apples, Berries, Chemical control (weeds), Grapes, Herbicide application, Herbicides, Peaches.

**15144-69**  
**PRE- AND POSTEMERGENCE SUGAR BEET HERBICIDE TRIALS IN MICHIGAN IN 1967.**

D T Smith W F Meggitt  
*N Cent Weed Contr Conf Res Rep* 24:79  
1967 79.9 N81R

*Amaranthus retroflexus*, Chemical control (weeds), *Chenopodium album*, Herbicide application, Herbicides, Sugar beets. The following herbicides were tested: pyrazon, TCA, endothall, propachlor, H-634, and (65-223A).

**15145-69**  
**CHEMICAL WEED CONTROL IN WOODY ORNAMENTALS.**

R Stadtherr  
*N C Pesticide Manual* 00(00):98-99  
1967 79.8 N81

Chemical control (weeds), Fumigants, Nursery stock (horticulture), Ornamental plants.

**15146-69**  
**WEED CONTROL IN FIELD CROPS: SOYBEANS.**

E W Stroube et. al.  
*N Cent Weed Contr Conf Res Rep* 24:131-149  
1967 79.9 N81R

Chemical control (weeds), Crop yields, Herbicides, Soybeans. Includes summary by E. W. Stroube, followed by brief reports of various authors.

Many herbicides were tested.

**15147-69**  
**PREPLANT AND PREEMERGENCE HERBICIDES FOR WEED CONTROL IN CORN.**

E W Stroube  
*N Cent Weed Contr Conf Res Rep* 24:108-109  
1967 79.9 N81R

Chemical control (weeds), Corn, Grasses, Herbicide application, Herbicides. Many herbicides were tested on a variety of weeds and grasses.

**15148-69**  
**HERBICIDE EVALUATION STUDIES ON SUGAR BEETS, 1967.**

E F Sullivan R L Abrams P J Decker T L Dollerschell  
*N Cent Weed Contr Conf Res Rep* 24:67-73  
1967 79.9 N81R

*Amaranthus retroflexus*, Chemical control (weeds), Herbicides, *Kochia scoparia*, *Setaria italica*, Sugar beets. Many herbicides were tested.

**15149-69**  
**PROBLEMS OF HERBICIDES IN THE PRODUCTION OF GRASS SEED. (GE)**

F Wagner  
*Berlin Biol Bundesanst Land-forstwirtschaft Mitt* 132(37):116-117  
Jan 1969 410.9 G31M

Dichlobenil, Grasses, Herbicides, Seeds, Weed control. English abstract.

**15150-69**  
**EFFECT OF CHEMICAL FALLOW ON WINTER WHEAT YIELDS.**

G A Wicks C R Fenster  
*N Cent Weed Contr Conf Res Rep* 24:63  
1967 79.9 N81R

*Bromus tectorum*, Chemical control (weeds), Crop yields, Herbicides, Wheat. Eleven herbicides were tested.

**15151-69**  
**COMBINATIONS OF PREPLANT, POSTEMERGENCE, AND LAYBY HERBICIDE APPLICATIONS FOR SELECTIVE WEED CONTROL IN SUGAR BEETS.**

G A Wicks F N Anderson  
*N Cent Weed Contr Conf Res Rep* 24:74-76  
1967 79.9 N81R

*Amaranthus retroflexus*, Chemical control (weeds), Herbicide application, Herbicides, *Setaria viridis*, *Solanum nigrum*, Sugar beets. Many herbicides were tested.

**15152-69**  
**EFFECT OF PYRAZON AND DALAPON WITH VARIOUS SURFACTANTS ON SUGAR BEETS AND WEEDS.**

G A Wicks F N Anderson  
*N Cent Weed Contr Conf Res Rep* 24:76-78  
1967 79.9 N81R

Chemical control (weeds), Chlorinated hydrocarbons, Dalapon, Herbicides, *Kochia scoparia*, Pyrazon, Sugar beets, Surface-active agents.

**15153-69**  
**WEED CONTROL IN FIELD CROPS: SUGAR BEETS.**

G A Wicks Et Al  
*N Cent Weed Contr Conf Res Rep* 24:66-79  
1967 79.9 N81R

Chemical control (weeds), Herbicides, Sugar beets, Surface-active agents. Includes summary by G. A. Wicks, followed by brief reports of various authors.

Many herbicides were tested.

## OTHER PESTS

**15154-69**  
**QUELEA CONTROL-FARMER DEVISES EFFECTIVE SPRAYING TECHNIQUE.**

Anonymous  
*Rhodesian Farmer* 39(3):14-15  
31 May 1968 24 R347

Bird pests, Chemical control (pests), Dimethyl O-(4-(methylthio)-m-tolyl) phosphorothioate, O, O, Oils, Pesticide application, Spraying equipment.

Less effective methods of control such as blasting, poisoning, searing, flamethrowers, bird-proof crops, wire perches, and bird lime and traps are discussed.

**15155-69**  
**HOW TO CONTROL RODENTS AND OTHER WILDLIFE PESTS.**

V D Cunningham  
*N C Pesticide Manual* 00(00):138-145  
1967 79.8 N81

Baits, Birds, Insect repellents, Mammals, Rodents, Sanitation control (pests), Seed treatment.

## LIVESTOCK PROTECTION

**15156-69**  
**ARSENIC: SCIENCE OR SUPERSTITION.**

D V Frost  
*Food Nutr News* 40(1):1,4 REF  
Oct 1968 389.8 F733Z

Animal nutrition, Arsenic, Arsenic compounds, Cancer, Pesticides, Tolerances, Toxicology.

**15157-69**  
**SURVEY REPORT: BIOLOGY AND PATHOLOGY OF WILDLIFE AS A PROBLEM OF VETERINARY MEDICINE AND AGRICULTURE IN TROPICAL AND SUBTROPICAL COUNTRIES. (GE)**

H H Roth  
*Deut Tierarztl Wochensh* 75(24):632-636 REF  
15 Dec 1968 41.8 D48Z

Animal ecology, Biology, Parasitism, Tropical agriculture, Veterinary medicine, Wildlife diseases, Wildlife management.

**15158-69**  
**THE ACTION OF SOME DIVALENT METALS OVER THE INHIBITION OF PANCREATIC LIPASE BY TETRACYCLINE AND 4-EPI-TETRACYCLINE. (SP)**

F Salto D Ordóñez J G Pena  
*Ovidio Univ Fac Vet Leon An* 13(13):11-20 REF  
1967 41.9 OV4

Cobalt, Enzymes, Hydrogen-ion concentration, Inhibitors, Lipases, Manganese, Nickel, Pancreas, Tetracycline. English and French summaries.

**15159-69**  
**INTERACTION BETWEEN COCKRELS TREATED WITH TESTOSTERONE AND UNTREATED COCKRELS WHEN HOUSED TOGETHER.**

T Seenappa P G Muthanna  
*Mysore J Agr Sci* 2(2):70-76  
1968 S19.M9

Chickens, Hormones, Testosterone.

## DISEASES

**15160-69**  
**PROPOSAL FOR SUBGROUPING OF BOVINE ADENOVIRUSES.**

A Bartha  
*Acta Vet (budapest)* 19(3):319-321  
1969 41.8 AC83  
Adenoviruses, Taxonomy.

**15161-69**  
**ISOLATION OF BOVINE ADENOVIRUSES FROM TISSUE CULTURES OF CALF TESTICLES.**

A Bartha L Csontos  
*Acta Vet (budapest)* 19(3):323-325  
1969 41.8 AC83  
Adenoviruses, Calves, Gonads, Tissue culture.

**15162-69**  
**CONSIDERATIONS OF THE RESULTS OF TESTS RUN ON WILD ANIMALS LIVING FREE AND IN CAPTIVITY. (IT)**

E Bassini  
*Bologna Univ Lab Zool Appl Caccia Ric Zool Appl Caccia Suppl* (46):3-28  
1969 410.9 B633

Animal diseases, Birds, Coccidiosis, Mammals, Surveys, Wildlife. English, French and German abstracts.

15163-69

15163-69

2-AMINO-5-(1-METHYL-5-NITRO-2-IMIDAZOLYL)-1,3,4-THIADIAZOLE A NEW ANTIMICROBIAL AGENT.

G Berkelhammer G Asato  
*Science* 162(3858):1146  
06 Dec 1968 470 SC12

Animal diseases, Bactericides, Biochemistry, Chickens, Mice, Microorganisms, Parasitism, Rodents, Thiazole compounds.

15164-69

RIBONUCLEIC ACID COMPONENTS OF BAI STRAIN A (MYELOBLASTOSIS) AVIAN TUMOR VIRUS.

R A Bonar L Svecrak D P Bolognesi A J Langlois D Beard et. al 1990  
*Cancer Res* 27(6, PT 1):1138-1154 REF  
Jun 1967 448.8 C16

Avian tumor virus, Biochemistry, Centrifugation, Chemical analysis, Ribonucleic acid, Spectrophotometry.

15165-69

PROPHYLACTIC EFFECT OF AMINOETHYLISOTHIURONIUM BROMIDE HYDROBROMIDE (AET) IN COMBINATION WITH BEE MILK IN ACUTE EXPERIMENTAL RADIATION SICKNESS. (JPRS 43,628) TRANSL. 19691.

S Boyadzhiev P Peychev T Marovski  
6P  
07 Dec 1967

Aminoethyl-2-thio-psudourea, 2-(2-, Bees, Biochemistry, Mice, Radiation, Rats, Royal jelly. Translation from *Rentgenologiya i Radiologiya* 6(3): 190-193, 1967. issued by ČFSTI.

15166-69

THE EVOLUTION OF THE ANTI-RABIES VACCINES FOR DOMESTIC ANIMALS. (SP)

V J Cabasso  
*Gac Vet* 30(214):261-277 REF  
May 1968 41.8 G112

Immunization, Livestock, Pets, Rabies, Vaccines, Virology, Virus diseases (animals).

15167-69

FLUORESCENT-ANTIBODY STUDIES OF MUSCLE LARVAE TRICHINELLA SPIRALIS (OWEN, 1835). II. THE INDIRECT FLUORESCENT-ANTIBODY METHOD.

K Chroust V Dubansky  
*Brno Acta Univ Agr Fac Vet* 36(2):299-305  
1967 SF604.B7

Antigens, Fluorescent antibody technic, Livestock diseases, Nematodes, Rabbits, Serum, Trichinella spiralis. Russian and Czech summaries.

15168-69

CULTIVATION OF THE TURKEY COCCIDIUM, EIMERIA MELEAGRIMITIS TYZZER, 1929, IN MAMMALIAN KIDNEY CELL CULTURES.

D J Doran J M Vetterling  
*Helminthol Soc Wash Proc* 34(1):59-65 REF  
Jan 1967 436.9 H36  
Eimeria, Methodology, Tissue culture.

15169-69

DIAGNOSTIC IMPORTANCE OF TAYLOR'S TESTS USED IN PIGS DISEASED BY SWINE PLAGUE.

O Doskocil V Dubansky  
*Brno Acta Univ Agr Fac Vet* 36(2):265-270 REF  
1967 SF604.B7

Amylases, Diagnosis, Livestock diseases, Pancreas, Swine, Swine plague. Russian and Czech summaries.

15170-69

FELINE VIRUSES. XI. ISOLATION OF A VIRUS SIMILAR TO A MYXOVIRUS FROM CATS IN WHICH UROLITHIASIS WAS EXPERIMENTALLY INDUCED.

C G Fabricant L J Rich J H Gillespie  
*Cornell Vet* 49(4):667-672  
Oct 1969 41.8 C81

Cats, Myxoviruses, Virology, Virus diseases (animals).

15171-69

MYXOVIRUS PARAINFLUENZA-3 IN THE RESPIRATORY DISEASE IN CALVES IN BULGARIA. (BU)

H Haralambiev N Pavlov D Belchev Y Buchvarov  
*Vet Med Nauk* 5(2):25-33 REF  
1968 41.8 V6468

Animal histology, Calves, Livestock diseases, Parainfluenza-3 virus, Respiratory diseases, Virus diseases (animals). English and Russian summaries.

15172-69

SERIOUS EQUINE VIRUSES. (SP)

E A Ibancz O F Moretti E H Resoagli  
*Gac Vet* 30(214):256-260  
May 1968 41.8 G112

Epidemiology, Horses, Symptomatology, Virus diseases (animals).

15173-69

SPONTANEOUS NOSEMA CUNICULI INFECTION IN LABORATORY RABBITS.

L D Koller  
*Amer Vet Med Ass J* 155(7):1108-1114 REF  
01 Oct 1969 41.8 AM3

Animal histology, Animal physiology, Diagnosis, Nosema, Rabbits.

15174-69

INTRARTICULAR APPLICATION OF OXYTETRACYCLINE AND TETRACYCLINE IN HORSES AND CATTLE.

J Kottman J Simunek J Svobodnik  
*Brno Acta Univ Agr Fac Vet* 36(1):101-106 REF  
1967 SF604.B7

Antibiotics, Arthritis, Cattle, Dosage, Drug therapy, Horses, Injections, Livestock diseases, Oxytetracycline, Tetracycline. Russian and Czechoslovakian summaries.

15175-69

UTILIZATION OF VARIOUS CELL CULTURE SYSTEMS FOR PROPAGATION OF CERTAIN FELINE VIRUSES AND CANINE HERPESVIRUS.

K M Lee A J Kniazeff C G Fabricant J H Gillespie  
*Cornell Vet* 49(4):539-547  
Oct 1969 41.8 C81

Canine herpesvirus, Cats, Cytology, Methodology, Tissue culture, Virus diseases (animals).

15176-69

EFFECTS OF FAT BODY FATTY ACIDS ON OVARIAN AND LIVER METABOLISM OF AMBYSTOMA TIGRINUM.

H L Lewis F L Rose  
*Compar Biochem Physiol* 30(6):1055-1060 REF  
15 Sep 1969 444.8 C73  
Amphibians, Fat body, Liver, Metabolism, Ova.

15177-69

BRUCELLA SUIIS (BIO-TYPE 1) ISOLATED FROM A GOAT IN RHODESIA.

F H Manley  
*Rhodesia, Zambia, Malawi J Agr Res* 6(1):55-57  
1968 24 R3472

Acriflavine, Agglutination test, Bacterial diseases (animals), Brucella suis, Culture media, Goats.

15178-69

RESISTANCE OF THE COLI BACTERIA, ISOLATED FROM CALVES AFFECTED WITH DYSPEPSIA, TO ANTIBIOTICS AND CHEMICAL THERAPEUTICAL PREPARATIONS. (BU)

H Mudrov  
*Vet Med Nauk* 5(2):55-61 REF  
1968 41.8 V6468

Antibiotics, Bacterial diseases (animals), Calves, Drug therapy, Immunity, Indigestion, Livestock diseases, Nitrofurans, Sulfonamides. English and Russian summaries.

The resistance of 10 strains of Coli was studied towards 10 antibiotics, 5 nitrofurans and sulphonamides and 3 quinsolc preparations, also tested were 5 chemical therapeutical preparations.

15179-69

INFECTIOUS EPYDIDIMITIS IN RAMS BY BRUCELLA OVIS. THE FIRST STUDY IN URUGUAY. (SP)

R S Olascoaga A D del Campo L A Rivas  
*Montevideo Univ Fac Vet Urug An* 11(9):71-91  
REF

Feb 1968 41.9 M764

Bacterial diseases (animals), Brucella ovis, Epididymitis, Infectious diseases, Rams, Serological tests. English summary.

15180-69

AN OUTBREAK OF POLIOENCEPHALOMALACIA IN CALVES.

M A Pass  
*Australian Vet J* 44(12):562-564 REF  
Dec 1968 41.8 AU72

Calves, Deficiency diseases, Livestock diseases, Nervous system diseases, Polioencephalomalacia, Thiamine.

15181-69

DIAGNOSIS OF MIXED INFECTIONS WITH M. BOVIS AND M. AVIUM IN CATTLE.

M Pavlas  
*Brno Acta Univ Agr Fac Vet* 36(4):549-557 REF  
1967 SF604.B7

Bacterial diseases (animals), Cattle, Diagnosis, Mycobacterium avium, Mycobacterium bovis, Tuberculin, Tuberculin test. Czech and Russian summaries.

15182-69

MALARIAL PARASITE METABOLISM: THE LACTIC ACID DEHYDROGENASE OF PLASMODIUM BERGHEI.

P Phisphumvidhi B W Langer  
*Exp Parasitol* 24(1):37-41  
Feb 1969 436.8 EX7

Biochemistry, Dchydrogenases, Enzymes, Laetic acid, Metabolism, Plasmodium berghei.

15183-69

PRODUCTION OF ACID MUCOPOLYSACCHARIDES IN MAMMALIAN FIBROBLAST TISSUE CULTURES TRANSFORMED BY ROUS SARCOMA VIRUS.

T Rakusanova  
*Folia Biol (praha)* 15(2):87-95 REF  
1969 442.8 F712

Biochemistry, Chickens, Histochemistry, Polysaccharides, Rats, Rous sarcoma virus, Tissue culture.

15184-69

USE OF THE NUCLEIC ACID HYBRIDIZATION METHOD FOR THE DEMONSTRATION OF DNA HOMOLOGOUS TO ROUS VIRUS RNA IN RSV-TRANSFORMED MAMMALIAN CELLS.

T Rakusanova  
*Folia Biol (praha)* 15(2):96-103 REF  
1969 442.8 F712

Chickens, Deoxyribonucleic acid, Nucleic acids, Rats, Ribonucleic acid, Rous sarcoma virus, Tissue culture.

15185-69

A STUDY ON KANSASIN, FORTUITIN, SWISCHIN AND JOHNIN ACTIVITY IN CATTLE NATURALLY INFECTED WITH M. BOVIS.

L Rossi S Dokoupil  
*Brno Acta Univ Agr Fac Vet* 36(4):569-577 REF  
1967 SF604.B7

Allergens, Bacterial diseases (animals), Cattle, Mycobacterium, Mycobacterium bovis, Mycobacterium fortuitum, Mycobacterium paratuberculosis, Tuberculin test. Czech and Russian summaries.

15186-69

TUBERCULOSIS-MYCOBACTERIOSIS. (FI)

H Stenberg  
*Suomen Elainlaakarilehti* 74(7/8 JUL-AUG):257-266  
1968 41.8 F49

Bacterial diseases (animals), Diagnosis, Livestock diseases, Microbiology, Mycobacterium, Tuberculosis. English and Swedish summaries.

**15187-69**  
EXPERIMENTS FOR TESTING THE ACTIVITY OF VACCINES AGAINST LEPTOSPIROSIS. (BU)

N Stoilova P Zakhariiev  
*Vet Med Nauk* 5(2):79-83  
1968 41.8 V6468

Bacterial diseases (animals), Dosage, Laboratory animals, *Leptospira mitis*, *Leptospira pomona*, Leptospirosis, Vaccines. English and Russian summaries.

**15188-69**  
THE DEVELOPMENT OF GLYCEMIA IN CALVES IN THE POSTNATAL PERIOD OF ONTOGENESIS IN DEFINED CONDITIONS OF FEEDING.

J Surynek  
*Brno Acta Univ Agr Fac Vet* 36(2):271-278 REF  
1967 SF604.B7

Animal nutrition, Animal physiology, Blood plasma, Calves, Glucose, Glycemia, Livestock diseases. Russian and Czech summaries

**15189-69**  
THE IDENTIFICATION, IN FRANCE, OF NECROSIS OF THE CEREBRAL CORTEX (N.C.C.) IN DIFFERENT TYPES OF RUMINANTS. (SP)

J Tournut Ch Labie J Espinasse  
*Gac Vet* 30(214):278-290  
May 1968 41.8 G112

Brain, Deficiency diseases, Diagnosis, Epidemiology, Epizootic diseases, Livestock diseases, Necrosis, Ruminants, Symptomatology, Thiamine. Translated from: *Revue de Medecine Veterinaire* 118(11): 883, 1967.

**15190-69**  
ON ESCH. COLI STRAINS IN SUCKLING PIGLETS WHICH HAVE DIED OF GASTROENTERITIS. (BU)

B Vachev  
*Vet Med Nauk* 5(7):15-21 REF  
1968 41.8 V6468

Baby pigs, Bacterial diseases (animals), Chloramphenicol, Drug therapy, *Escherichia coli*, Gastroenteritis, Livestock diseases, Serological tests. English and Russian summaries.

**15191-69**  
INTERACTION OF ROUS SARCOMA VIRUS WITH RAT EMBRYO FIBROBLASTS OF INBRED LEWIS STRAIN IN VITRO.

P Vesely L Downer J Cinatl V Sovova  
*Folia Biol (praha)* 14(6):457-465 REF  
1968 442.8 F712

Antibodies, Chickens, Cytology, Poultry diseases, Rats, Rous sarcoma virus, Serological tests, Tissue culture.

**15192-69**  
BALANTIDIASIS IN A CAMEL (CAMELUS DROMEDARIUS).

R A Vosdingh J A Vanniasingham  
*Amer Vet Med Ass J* 155(7):1077-1079  
01 Oct 1969 41.8 AM3

Arsenates, Balantidiasis, Camels, Chloroquine.

**15193-69**  
A STUDY OF EXPERIMENTALLY INDUCED BOVINE VIRAL DIARRHEA-MUCOSAL DISEASE IN PREGNANT COWS AND THEIR PROGENY.

G M Ward S J Roberts K McEntee J H Gillespie  
*Cornell Vet* 49(4):525-538 REF  
Oct 1969 41.8 C81

Animal histology, Animal physiology, Antibodies, Calves, Cattle, Diarrhea, Mucosal disease, Neutralization test, Pregnancy, Serological tests, Temperature, Virus diseases (animals).

**15194-69**  
CHRONIC CHOLANGIOHEPATITIS IN A DAIRY COW. A CASE REPORT.

R H Whitlock W R Brown  
*Cornell Vet* 49(4):516-524  
Oct 1969 41.8 C81  
Animal physiology, Cattle, Hepatitis, Histochemistry, Jaundice, Livestock diseases.

## ARTHROPODS

**15195-69**  
AN IMPROVED LABORATORY METHOD OF EVALUATING INSECTICIDES FOR THE PROTECTION OF SHEEP AGAINST BLOWFLY STRIKE.

R du Toit  
*S Afr Vet Med Ass J* 39(4):77-79  
Dec 1968 41.8 S08  
Bromophos, Calliphoridae, Carbamates, Diazinon, Insect pests, Insecticides, Naled, Organophosphorus compounds, Sheep.

**15196-69**  
SOME ASPECTS OF MANGE IN MAN AND DOMESTIC ANIMALS.

A Fain  
*Entomol Ber* 29(6):103  
01 Jun 1969 420 N38B  
Mammals, Mange, Mites, Poultry diseases, Sarcopitiformes.

**15197-69**  
LIVESTOCK AND POULTRY INSECTS.

J Falter  
*N C Pesticide Manual* 00(00):83-88  
1967 79.8 N81  
Chlorinated hydrocarbons, Insect pests, Insecticide application, Livestock, Poultry.

**15198-69**  
A MITE INFESTATION IN SQUIRREL MONKEYS (SAIMIRI SCIUREUS).

R E Flatt N M Patton  
*Amer Vet Med Ass J* 155(7):1233-1235  
01 Oct 1969 41.8 AM3  
Mites, Monkeys, Parasitism, Photomicrography.

**15199-69**  
ERRADICATION EFFORTS AGAINST TROPICAL BONT TICK, AMBLYOMMA VARIEGATUM, IN THE VIRGIN ISLANDS.

J L Hourrigan R K Strickland O L Kelsey B E Knisely C C Crago S Whittaker D J Gilhooly  
*Amer Vet Med Ass J* 154(5):540-545  
01 Mar 1969 41.8 AM3  
*Amblyomma variegatum*, Carbaryl, Cattle, Chemical control (insects), Coumaphos, Dipping, Insect vectors, Rickettsia, Spraying, Zoogeography.

**15200-69**  
INSECTS ON HUMANS.

R L Robertson  
*N C Pesticide Manual* 00(00):82  
1967 79.8 N81  
Chlordane, Dieltrin, DDT, Human diseases, Insect pests, Lindane, Toxaphene.

## PARASITES

**15201-69**  
TRIALS WITH YOMESAN AND OTHER SELECTED CHEMICALS AGAINST THYSANOSOMA ACTINOIDES, THE FRINGED TAPEWORM OF SHEEP.

R W Allen F D Enzie K S Samsom  
*Helminthol Soc Wash Proc* 34(2):195-199 REF  
Jul 1967 436.9 H36  
Anthelmintics, Cestoda, Drug therapy, Niclosamide, Sheep, *Thysanosoma actinoides*.

**15202-69**  
THE PRESENCE OF AN ADULT LINGUATULA SERRATA (FROELICH, 1879) IN FELIS CATUS DOMESTICUS. (SP)

E Baraboglia J E Led E G Colombo  
*Gac Vet* 30(214):251-255

May 1968 41.8 G112  
Cats, Intestines, *Linguatula serrata*, Nematodes. English summary.

**15203-69**  
AEROBIC AND ANAEROBIC METABOLISM OF LARVAL AND ADULT TAENIA TAENIAEFORMIS. III. INFLUENCE OF SOME CATIONS ON GLUCOSE UPTAKE, GLUCOSE LEAKAGE, AND TISSUE GLUCOSE.

T von Brand E Gibbs  
*Helminthol Soc Wash Proc* 33(1):1-4  
Jan 1966 436.9 H36  
Biochemistry, Cestoda, Glucose, Ions, Metabolism, *Taenia taeniaeformis*.

**15204-69**  
OBSERVATIONS OF A SOURCE OF STRONGYLOIDES RANSOMI IN THE PIG, DOG AND MAN, AND OF STRONGYLOIDES WESTERI IN THE PIG. (SP)

E R Cardenosa  
*Spain Patronato Biol Anim Rev* 11(3/4):35-44  
1967 49.9 SP16  
Dogs, Humans, Intestines, Nematode infestation, Parasitism, *Strongyloides ransomi*, *Strongyloides westeri*, Swine. English and French summaries.

**15205-69**  
NEMATODIROSIS IN SHEEP AND ITS PRESENT TREATMENT.

K Chroust T Lax  
*Brno Acta Univ Agr Fac Vet* 36(1):87-99 REF  
1967 SF604.B7  
Anthelmintics, Drug therapy, Nematodiasis, Nematodirus, *Nematodirus filicollis*, *Nematodirus helvetianus*, Phenothiazine, Sheep. Russian and Czechoslovakian summaries.

**15206-69**  
THE USE OF DICHLORUOS AS AN ANTHELMINTIC IN NATURALLY PARASITIZED BEARS.

J D Clark F M Loew K F Burns  
*Amer Vet Med Ass J* 155(7):1093-1097  
01 Oct 1969 41.8 AM3  
Anthelmintics, Ascaridae, Bears, Dichlorvos.

**15207-69**  
PROPHYLACTIC EFFICACY OF PYRANTEL AGAINST ASCARIS SUUM IN SWINE.

D P Conway A Arakawa  
*Cornell Vet* 49(4):605-610  
Oct 1969 41.8 C81  
Anthelmintics, *Ascaris lumbricoides suum*, Pyrantel tartrate, Swine.

**15208-69**  
THE INTRAVITAL DETECTION OF TRICHINELLOSIS BY MEANS OF MYOPSIA. (CZ)

I Dykova  
*Brno Acta Univ Agr Fac Vet* 36(2):251-253  
1967 SF604.B7  
Diagnosis, Epizootic diseases, Livestock diseases, Nematode infestation, Trichinosis. English, Russian, and German summaries.

**15209-69**  
LOCALIZATION OF TRICHINELLA SPIRALIS LARVAE. (CZ)

I Dykova  
*Brno Acta Univ Agr Fac Vet* 36(1):119-122 REF  
1967 SF604.B7  
Cats, Larvae, Muscles, Nematode infestation, Tongue, *Trichinella spiralis*, Trichinosis. Russian and English summaries.

**15210-69**  
LARVAL LOCATION OF THE TRICHINELLA SPIRALIS. (CZ)

I Dykova  
*Brno Acta Univ Agr Fac Vet* 36(1):111-117 REF  
1967 SF604.B7  
Cats, Muscles, Nematode infestation, Parasitism, Tongue, *Trichinella spiralis*, Trichinosis. Russian and English summaries.

## LIVESTOCK PROTECTION

15211-69

15211-69

THE INVASION-ABILITY OF TRICHIINELLA LARVAE FROM PUTREFYING MUSCLES OF FELIS SILVESTRIS AND ARTIFICIALLY INVADED FELIS DOMESTICA. (CZ)

I Dykova  
*Brno Acta Univ Agr Fac Vet* 36(2):255-258  
1967 SF604.B7

Cats, Livestock diseases, Muscles, Nematode infestation, Trichinella. English, Russian, and German summaries

15212-69

WILD HOGS AS A SOURCE OF TRICHIINELLOSIS EPIDEMIC IN VOJVODINA. (SE)

R Golosin A Kosovae Z Skocajic  
*Vet Glas* 22(9):787-791 REF  
1968 41.8 J93

Animal diseases, Epidemiology, Human diseases, Nematode infestation, Sausages, Swine, Trichinella spiralis, Trichinosis. English and Russian summaries.

15213-69

EFFECTS OF COLD STORAGE ON THE INFECTIVITY OF THIRD-STAGE LARVAE OF THE INTESTINAL WORM, TRICHOSTRONGYLUS COLUBRIFORMIS (GILES, 1892) RAN-SOM, 1911.

H Herlich  
*Helminthol Soc Wash Proc* 33(1):101-102  
Jan 1966 436.9 H36

Cold storage, Guinea pigs, Larvae, Nematode infestation, Nematodiasis, Trichostrongylus colubriformis.

When guinea pigs were used as experimental hosts to test the effects of cold storage on the infectivity of third-stage larvae of Trichostrongylus colubriformis, there was no apparent effect on larvae stored as long as 12 months at 4 C; whereas, the viability and infectivity of larvae stored for 15 and 18 months were affected detrimentally.

15214-69

STUDIES ON MEMBRANE TRANSPORT--VI. ABSORPTION OF AMINO ACIDS BY FASCIOLIID TREMATODES.

H Isseroff C P Read  
*Compar Biochem Physiol* 30(6):1153-1159  
15 Sep 1969 444.8 C73

Amino acids, Fasciola hepatica, Membranes, Metabolism.

15215-69

STUDIES OF PARASITE METABOLISM. I. IN VITRO EXAMINATION OF THE VITAMIN A METABOLISM OF ASCARIS SUUM.

S Juhasz S Babos  
*Acta Vet (budapest)* 19(3):239-251  
1969 41.8 AC83

Ascaris lumbricoides suum, Metabolism, Parasitology, Vitamin A.

15216-69

ACTIVITY OF THREE ANTHELMINTICS AGAINST MIXED INFECTIONS OF TWO TRICHOSTRONGYLUS SPECIES IN GERBILS, SHEEP, AND GOATS.

K C Kates D E Thompson  
*Helminthol Soc Wash Proc* 34(2):228-236 REF  
Jul 1967 436.9 H36

Anthelmintics, Drug therapy, Goats, Phenothiazine, Ruclene, Sheep, Thiabendazole, Trichostrongylus.

15217-69

THE DYNAMISM OF CYSTICERCUS BOVIS REGRESSION IN SPONTANEOUSLY INVADED CATTLE.

K Koudela  
*Brno Acta Univ Agr Fac Vet* 36(1):81-85 REF  
1967 SF604.B7

Cattle, Cysticercus bovis, Nematode infestation. Russian and Czechoslovakian summaries.

The incidence of the regressively changed cysticercus markedly went up with the increasing age group of the intermediary host.

## BIBLIOGRAPHY

15218-69

TREATMENT OF SCHISTOSOMA MATTHEEI INFESTATION IN SHEEP.

J A Lawrence  
*S Afr Vet Med Ass J* 39(4):47-S1 REF  
Dec 1968 41.8 S08

Drug therapy, Helminths, Human diseases, Livestock diseases, Parasitism, Sheep.

15219-69

INFECTION BY BRACHYLAEAMA FUSCATA (RUDOLPHI, 1819) IN THE DOMESTIC PIGEON. (IT)

G Macchioni  
*Pisa Univ Stud Fac Med Vet Ann* 20:28-39 REF  
1967 41.9 P67

Brachylaimidae, Helminths, Parasitism, Pigeons, Symptomatology. English and French summaries.

15220-69

ON ADULTS OF THE SUBULURID INFECTIVE LARVA FROM TENEBRIONID BEETLE WITH REMARKS ON THE VALIDITY OF SUBULURA MINETTI BHALERAO.

S C Mathur B P Pande  
*Cur Sci* 36(16):422-424  
20 Aug 1967 475 SCI23  
Chickens, Larvae, Nematodes, Parasitism, Subulura, Taxonomy, Tenebrionidae.

15221-69

SOME PATHOLOGICAL ASPECTS OF ANIMAL SCHISTOSOMIASIS IN THE SUDAN.

I E Mustafa M F Hussein  
*Brno Acta Univ Agr Fac Vet* 36(1):107-110  
1967 SF604.B7

Cattle, Nematode infestation, Parasitism, Schistosomiasis, Symptomatology. Czechoslovakian summary.

15222-69

TREATMENT OF INTESTINAL STRONGYLOIDS OF THE HORSE USING THIABENDAZOLE (2-(4'-THIAZOLYL)-BENZIMIDAZOLE). (IT)

G Palma  
*Acta Med Vet* 14(1/2 JAN-APR):125-129 REF  
1968 41.8 AC84

Anthelmintics, Horses, Intestines, Nematode infestation, Strongyloides, Thiazolyl-benzimidazole, 2-(4-).

15223-69

VIABILITY OF EGGS OF ECHINOCCOCUS GRANULOSUS AND MULTICEPS MULTICEPS IN ENSILAGED FODDER. (BU)

P Pavlov G Dimitrov V Bratanov  
*Vet Med Nauk* 5(8):67-73 REF  
1968 41.8 V6468

Echinococcus granulosus, Eggs, Feed, Multiceps multiceps, Nematode infestation, Parasitism, Silage. English and Russian summaries.

15224-69

A KILL OF BROOK TROUT (SALVELINUS FONTINALIS) INVOLVING THE ACANTHOCEPHALAN ECHINORHYNCHUS LATERALIS.

J H C Pippy I M Sandeman  
*Can Fish Res Board J* 24(7):1627-1628  
Jul 1967 442.9 C16J

Acanthocephala, Bacterial diseases (animals), Epizootic diseases, Intestines, Trout.

15225-69

A COMPARATIVE STUDY OF HAEMONCHUS CONTORTUS OF SHEEP AND GOATS.

N S K Rao N Sundararaj S A Rahman  
*Mysore J Agr Sci* 2(2):128-132  
1968 S19.M9

Goats, Haemonchus contortus, Nematodes, Sheep, Statistical analysis.

15226-69

STUDIES ON MEMBRANE TRANSPORT--VII. TRANSPORT OF HISTIDINE THROUGH TWO DISTINCT SYSTEMS IN THE TAPEWORM HYMENOLEPIS DIMINUTA.

C K Woodward C P Read

*Compar Biochem Physiol* 30(6):1161-1177 REF  
Sep 1969 444.8 C73  
Histidine, Hymenolepis diminuta, Metabolism.

## COMMODITY PROTECTION

15227-69

HYGROSCOPICAL QUALITIES OF HOPS ON CEMENT FLOORS. (CZ)

V Fric K Makovec O Drexler  
*Praze Sb Vysoke Sk Zemed (SER A):431-440 REF*  
1966 S13.P72

Hops, Humidity, Storage, Warehouses. German and Russian summaries.

## STORAGE DISEASES

15228-69

GRAIN STORAGE FUNGI ASSOCIATED WITH MITES.

M Anwarullah B A Khan A Hasan S S Husain  
*Pakistan J Sci Indus Res* 11(3):294-296 REF  
Jul 1968 475 P174

Fungi, Fungus diseases (plants), Grain, Insect vectors, Mites, Stored products, Surveys.

Mites were collected from stored grain in Pakistan and examined for fungi. Eighteen species of fungi representing seven genera were isolated from the feces, digestive tracts and exterior of the mites.

## ARTHROPODS

15229-69

CAMPAIGN AGAINST STORED GRAIN PESTS IN VILLAGES OF IADP DISTRICT LUDHIANA.

H N Batra  
*Plant Protect Bull* 19(3):21-25  
1967 421 P69

Aluminum phosphide, Chemical control (pests), DDT, Grain, Insecticide application, Malathion, Methoxyethyl, Stored products.

15230-69

HOUSEHOLD PESTS IN HAMBURG THROUGH THREE IMPORTED BEETLES. (GE)

H Weidner  
*Prakt Schadlingsbekamper* 20(10):133-135  
Oct 1968 421 P882  
Household pests, Insect behavior, Insect nutrition, Oryzaephilus, Tribolium.

15231-69

HOUSEHOLD PESTS.

C G Wright R L Robertson  
*N C Pesticide Manual* 00(00):79-81  
1967 79.8 N81

Chemical control (insects), Chlorinated hydrocarbons, Household pests.

## RODENTS AND OTHER PESTS

15232-69

RODENT TRAPPING.

W D Fitzwater  
*Nat Pest Cont Ass Tech Release* (5):8P  
20 Feb 1969 423.9 N213T

Animal cages, Animal traps, Attractants, Baits, Methodology, Rodents.

15233-69

EXPERIMENTAL DESTRUCTION OF RATS, EITHER TEMPORARY OR UNINTERRUPTED, USING GRAIN POISONED WITH COUMAFENE (WARFARIN). (FR)

J. Giban  
*Ann Epiphyt* 19(4):629-658 REF  
1968 464.9 F84AN

Chemical control (pests), Grain, Rats, Rodenticides, Warfarin. English abstract.

## RESIDUES

15234-69

## HERBICIDE RESIDUES IN PLANTS AND SOILS.

R S Adams et al.

*N Cent Weed Contr Conf Res Rep 24:1-6*

1967 79.9 N81R

Grain, Herbicides, Pesticide residues, Soil contamination. Includes summary by R. S. Adams, followed by brief reports of various authors.

15235-69

## EFFECT OF SIMULATED ATRAZINE RESIDUES ON OAT YIELDS.

R S Adams S E Nelson

*N Cent Weed Contr Conf Res Rep 24:4*

1967 79.9 N81R

Atrazine, Chemical control (weeds), Crop yields, Dosage, Herbicide residues, Oats.

15236-69

## POSSIBILITIES OF APPLICATION OF THE RING-OVEN TECHNIQUE IN THE DETERMINATION OF PESTICIDES RESIDUES.

S Alwin W Kaniewski S J Kunbacki

*Poznan Inst Ochrony Roslin Biul (41):135-139*

1968 464.9 P87

Chemical analysis, Copper, Pesticide residues, Plant tissues, Zinc. English and Russian abstracts.

15237-69

## DDT IN ADIPOSE TISSUE OF ANIMALS AND BIRDS. (PO)

H Bronisz J Ochynski W Latkowskii

*Poznan Inst Ochrony Roslin Biul (41):103-107*

REF

1968 464.9 P87

Adipose tissue (animals), Birds, Chemical analysis, Chlorinated hydrocarbons, Colorimetry, DDT, Insecticide residues. English and Russian abstracts.

15238-69

## DDT AND DDE IN HUMAN MILK. (PO)

H Bronisz J Ochynski

*Poznan Inst Ochrony Roslin Biul (41):99-102*

1968 464.9 P87

Chemical analysis, Chlorinated hydrocarbons, Colorimetry, Dichloro-2,2-bis(p-chlorophenyl) ethylene, 1,1-, DDT, Insecticides, Milk, Pesticide residues. English and Russian abstracts.

15239-69

## THE DETERMINATION OF DDT AND ITS METABOLITES RESIDUES IN EGG PRODUCTS FOR EXPORT BY MEANS OF GAS CHROMATOGRAPHY. (PO)

A Ciesliczak W Martinek J Zerbe

*Poznan Inst Ochrony Roslin Biul (41):85-90*

1968 464.9 P87

Chromatography, DDT, Eggs, Insecticide residues, Metabolites, Methodology. English and Russian abstracts.

15240-69

## BIRD MORTALITY BY CHLORINATED HYDROCARBON PESTICIDES. (DU)

*Landbouwkundig Tijdschr 80(5):206-214 REF*

May 1968 105.2 OR3

Aldrin, Birds, Chlorinated hydrocarbons, Dieldrin, Heptachlor, Mortality, Pesticide residues, Seed dressing.

15241-69

## SOME PHARMACOLOGICAL ACTIONS OF 2-(BETA-METHOXYETHYL) PYRIDINE (ACTIVE PRODUCT OF THE ANTHELMINTIC FOR RUMINANTS PROMINTIC (ICI)). (SP)

J A R Garcia J A Benenati

*Montevideo Univ Fac Vet Urug An 11(9):7-16*

Feb 1968 41.9 M764

Anthelmintics, Methoxyethylpyridine, 2-beta-, Pharmacology, Ruminants. English summary. the anthelmintics effects on ruminants are discussed.

15242-69

## THE HERBICIDES FROM AN UREA DERIVATIVES GROUP, PROBLEMS OF METABOLISM

## AND RESIDUES OF THOSE COMPOUNDS AND THEIR TOXICOLOGICAL IMPORTANCE. (PO)

H Geisshuhler

*Poznan Inst Ochrony Roslin Biul (41):33-44*

1968 464.9 P87

Biological assay, Chemical analysis, Chromatography, Herbicide residues, Metabolism, Toxicology, Urea herbicides. English and Russian abstracts.

15243-69

## RESULTS OF HERBICIDE APPLICATION TO CORIANDRUM SATIVUM L. CULTURES AND ANALYSIS OF HERBICIDAL RESIDUES IN THE FRUIT. (POL)

L Golecz H Garszczyńska W Kasinski E

Papathanasyju R Zalecki

*Poznan Inst Przemyslu Zielarskiego Biul**13(4):211-219 REF*

1967 451 P87

Chemical control (weeds), Coriandrum sativum, Drug plants, Herbicide residues, Nexoval, Pesticide application, Prometryne. English and Russian summaries.

15244-69

## RESIDUES OF CHLORTETRACYCLINE IN EGGS AFTER ADDITIONAL FEEDING WITH THIS ANTIBIOTIC SUBSTANCE.

J Holec I Kadlec

*Brno Acta Univ Agr Fac Vet 36(2):219-224*

1967 SF604.B7

Animal nutrition, Antibiotics, Chlortetracycline, Dosage, Eggs, Feed additives, Residues, Tissue culture. Czech summary.

15245-69

## RESIDUES OF CHLORTETRACYCLINE IN THE TISSUES OF POULTRY AFTER ADDITIVE FEEDING WITH THIS ANTIBIOTIC SUBSTANCE.

J Holec C Holicky

*Brno Acta Univ Agr Fac Vet 36(2):211-218 REF*

1967 SF604.B7

Antibiotics, Chlortetracycline, Dosage, Feed additives, Poultry, Residues, Surveys, Tissue culture. Czech summary

15246-69

## DETERMINATION OF CHLORINATED HYDROCARBONS IN FATS OF MEN NOT PROFESSIONALLY IN CONTACT WITH PESTICIDES. (PO)

H Jencyzk A Bojanowska

*Poznan Inst Ochrony Roslin Biul (41):51-58 REF*

1968 464.9 P87

Adipose tissue (animals), Chemical analysis, Chlorinated hydrocarbons, Chromatography, DDT, Insecticide residues, Pesticides. English and Russian abstracts.

15247-69

## PESTICIDES RESIDUES CONTROL. (PO)

T Juszkiewicz

*Poznan Inst Ochrony Roslin Biul (41):21-31*

1968 464.9 P87

Adipose tissue (animals), Eggs, Milk, Pesticide monitoring program, Pesticide residues, Poultry, Surveys, Swine, Toxicology. English and Russian abstracts.

15248-69

## A NEW METHOD FOR CLEAN-UP OF CHLORINATED PESTICIDE RESIDUES IN MEAT, MEAT PRODUCTS, FATS AND OILS. (PO)

P Krasnodebski S J Kubacki

*Poznan Inst Ochrony Roslin Biul (41):59-64*

1968 464.9 P87

Adipose tissue (animals), Chemical analysis, Chlorinated hydrocarbons, Meat, Methodology, Oils, Pesticide residues. English and Russian abstracts.

15249-69

## STUDIES ON SOME CHLORINATED HYDROCARBON RESIDUES IN POTATO TUBERS HARVESTED IN 1965-1966. (PO)

J Kroczyński M Drygas

*Poznan Inst Ochrony Roslin Biul (41):65-73 REF*

1968 464.9 P87

Benzene hexachloride, Chemical analysis, Chlorinated hydrocarbons, DDT, Methoxychlor, Pesticide residues, Potatoes. English and Russian abstracts.

15250-69

## FROM STUDIES ON RESIDUES OF DDT, LINDANE AND DDMT IN SOIL. (PO)

J Kroczyński

*Poznan Inst Ochrony Roslin Biul (41):75-83 REF*

1968 464.9 P87

Chemical analysis, Chlorinated hydrocarbons, DDT, Insecticide residues, Lindane, Methoxychlor, Soil contamination. English and Russian abstracts.

15251-69

## SPEED DISAPPEARANCE OF DDVP/DICHLOROVOS/ IN DEPENDENCE FROM THE PESTICIDE FORMULATION. (PO)

S Lakota A Nalepa

*Poznan Inst Ochrony Roslin Biul (41):129-133*

1968 464.9 P87

Aerosols, Chemical analysis, Chlorinated hydrocarbons, Dichlorvos, Pesticide residues, Pesticides, Spraying. English and Russian abstracts.

15252-69

## DEGRADATION OF DDT AND DDE BY CHEESE MICROORGANISMS.

R A Ledford J H Chen

*J Food Sci 34(4,JUL-AUG):386-388 REF*

Aug 1969 389.8 F7322

Chemical analysis, Chromatography, Degradation, Dichloro-2,2-bis(p-chlorophenyl) ethylene, 1,1-, DDT, Electron capture, Insecticides, Micrococaceae, Streptococcus, Yeasts.

15253-69

## THE SIGNIFICANCE OF PESTICIDE RESIDUES ON HUMAN LIFE. (PO)

W Rusiecki

*Poznan Inst Ochrony Roslin Biul (41):9-20*

1968 464.9 P87

Adipose tissue (animals), Air pollution, Food contamination, Milk, Pesticide residues, Soil contamination, Toxicology, Water pollution. English and Russian abstracts.

15254-69

## RESIDUES ON THE SUGAR BEET LEAVES OF DDT APPLIED TO CONTROL THE LEAF-EATING PESTS.

T Stachyra T Stobiecki

*Poznan Inst Ochrony Roslin Biul (41):109*

1968 464.9 P87

Chlorinated hydrocarbons, DDT, Insecticide residues, Leaves, Sugar beets. English, Russian and Polish abstracts.

15255-69

## PRACTICAL REMARKS ON THE METHODS OF EXTRACTION AND DETERMINATION OF DDT, BHC AND METHOXYCHLOR RESIDUES IN BIOLOGICAL MATERIAL. (PO)

J Stec

*Poznan Inst Ochrony Roslin Biul (41):117-120*

1968 464.9 P87

Benzene hexachloride, Chemical analysis, Chlorinated hydrocarbons, Chromatography, DDT, Methoxychlor, Pesticide residues. English and Russian abstracts.

15256-69

## ELECTRON CAPTURE DETECTOR WITH THE USE OF 90 SR INTENDED FOR THE DETERMINATION OF SOME PESTICIDES IN GAS-LIQUID CHROMATOGRAPHY. (PO)

B Szucki W Demidziuk

*Poznan Inst Ochrony Roslin Biul (41):111-115*

1968 464.9 P87

Benzene hexachloride, Chemical analysis, Chlorinated hydrocarbons, Chromatography, Dichloro-2,2-bis(p-chlorophenyl) ethylene, 1,1-, DDT, Electron capture, Insecticides, Nitrogen, Pesticide residues. English and Russian abstracts

## RESIDUES

15257-69

15257-69

### INFLUENCE OF RELATIVE SOIL MOISTURE UPON EVOLUTION OF CHEMICAL SOIL FUMIGANTS. (GE)

C Van Assche H Van Den Broeck A Vanaechter  
*Berlin Biol Bundesanst Land-forstwirtschaft Mitt* 132(37):50-60

Jan 1969 410.9 G31M

Chemicals, Pesticide residues, Soil fumigation, Soil moisture. English abstract

15258-69

### RESULTS OF DETERMINATIONS OF CHLORINATED HYDROCARBONS RESIDUES IN APPLES. (PO)

W Zaborowska B Szucki

*Poznan Inst Ochrony Roslin Biul* (41):91-97

1968 464.9 P87

Apples, Chemical analysis, Chlorinated hydrocarbons, Colorimetry, Pesticide residues. English and Russian abstracts.

15259-69

### STUDIES UPON THE RESIDUES OF DISYSTONE IN POTATO TUBERS AND SOME VEGETABLES. (PO)

Z Zwolinska-Sniatalowa

*Poznan Inst Ochrony Roslin Biul* (41):120-128

1968 464.9 P87

Chemical analysis, Disyston, Organophosphorus compounds, Pesticide residues, Potatoes, Spectrophotometry, Vegetables. English and Russian abstracts.

## TOXICOLOGY

15260-69

### MODIFICATION OF PARATHION TOXICITY TO WAX MOTH LARVAE BY CHLORCYCLIZINE, AMINOPYRINE OR PHENOBARBITAL.

N Ahmad W A Brindley

*Toxicol Appl Pharmacol* 15(2):433-440 REF

Sep 1969 391.8 T662

Aminopyrine, Drug therapy, Larvae, Parathion, Toxicology.

15261-69

### STRUCTURAL AND BIOCHEMICAL CHANGES IN TISSUES ISOLATED FROM THE CANTHARIDIN-POISONED RAT WITH SPECIAL EMPHASIS UPON HEPATIC SUBCELLULAR PARTICLES.

F K Bagatell K Dugan G F Wilgram

*Toxicol Appl Pharmacol* 15(2):249-261 REF

Sep 1969 391.8 T662

Cantharidin, Electron microscopy, Liver, Rats, Tissues, Toxicology.

15262-69

### GLOMERULAR LESIONS INDUCED IN PEKIN DUCKS BY DIETARY ADMINISTRATION OF DIMETHYLNITROSAMINE.

W W Carlton J R Welser

*Toxicol Appl Pharmacol* 13(3):404-411 REF

Nov 1968 391.8 T662

Diets, Drugs, Glomerulitis, Histocchemistry, Nitrosodimethylamine, N-, Pekin ducks, Tissue culture.

15263-69

### ADSORPTION OF DRUGS AND POISONS BY ACTIVATED CHARCOAL.

W J Decker H F Combs D G Corby

*Toxicol Appl Pharmacol* 13(3):454-460

Nov 1968 391.8 T662

Adsorption, Charcoal, Drugs, Poisons, Testing. 27 drugs were tested for their adsorption ability.

15264-69

### THE REDISTRIBUTION OF STORED DDT IN COCKERELS UNDER THE INFLUENCE OF FOOD DEPRIVATION.

D J Eobichon P W Saschenbrecker

*Toxicol Appl Pharmacol* 15(2):420-432 REF

## BIBLIOGRAPHY

Sep 1969 391.8 T662

Chickens, DDT, Fat body, Nervous system, Toxicology.

15265-69

### DEGRADATION OF ORGANOPHOSPHATES BY FISH LIVER PHOSPHATASES.

J W Hogan C O Knowles

*Can Fish Res Board J* 25(8):1571-1579 REF

Aug 1968 442.9 C16J

Biochemistry, Dichlorvos, Ictalurus, Lepomis, Liver, Metabolism, Organophosphorus compounds, Pesticides, Phosphatases.

15266-69

### IN VITRO RESEARCH ON INDOL-3-ACETIC ACID, 5-HYDROXY-INDOLEACETIC ACID, O-AMINOPHENOL AND XANTHURENIC ACID IN THE CONTENT OF CAECUM FROM EQUINE AFTER ADDITION OF L-TRYPTOPHAN. (IT)

A P Mariani T L Fratreschi

*Pisa Univ Stud Fac Med Vet Ann* 20:221-228

1967 41.9 P67

Biochemistry, Cecum, Drug therapy, Horses, Indoleacetic acid, Rumcn, Tryptophan, Xanthurenic acid. English and French summaries.

15267-69

### RESEARCH ON O-AMINOPHENOL IN THE RUMEN LIQUOR FROM CATTLE WITH AND WITHOUT INCUBATION WITH L-TRYPTOPHAN. (IT)

A P Mariani

*Pisa Univ Stud Fac Med Vet Ann* 20:215-220

1967 41.9 P67

Amino acids, Animal metabolism, Biochemistry, Cattle, Drug therapy, Metabolites, Rumen, Tryptophan. English and French summaries.

15268-69

### ON THE CHRONIC ACTION OF TETRAMETHYLTHIURAMIDESULPHIDE (TMTD) IN HENS AND THE QUALITY OF THE EGGS PRODUCED BY THEM. (BU)

N Naidenov

*Vet Med Nauk* 5(8):87-94 REF

1968 41.8 V6468

Chickens, Eggs, Lethal dose, Quality control, Symptomatology, Thiram. English and Russian summaries.

15269-69

### CONSIDERATIONS OF THE PHARMACOLOGY AND TOXICOLOGY OF THE POISON OF BUFO PARACNEMIS LUTZ. (SP)

F Riet

*Montevideo Univ Fac Vet Urug An* 11(9):17-25

Feb 1968 41.9 M764

Cats, Dogs, Glands (animals), Mice, Pharmacology, Toxicology, Venoms. English summary. the effects of poison were discussed.

15270-69

### FORAGE NITRATE POISONING.

*S Dak State Univ Ext Ext Mimeogr Circ* (420):4P 275.29 SO85FS

Animal nutrition, Feed, Fertilizers, Forage plants, Nitrates, Poisoning, Silage, Symptomatology, Therapeutics, Vitamin a, Water.

15271-69

### RESEARCH ON THE EFFECTS OF GRADUAL DOSES OF PYRIDOXINE ON XANTHURENIC ACID CAUSED BY MASSIVE DOSES OF NICOTINAMIDE. (IT)

D Spisni A P Mariani

*Pisa Univ Stud Fac Med Vet Ann* 20:201-209

1967 41.9 P67

Drug therapy, Nicotinamide, Rabbits, Vitamin b6, Xanthurenic acid. English and French summaries.

15272-69

### TOXICITY OF SIX ORGANOPHOSPHORUS INSECTICIDES TO FISHL.

A Sreenivasan G K Swaminathan

*Cur Sci* 36(15):397-398 REF

05 Aug 1967 475 SC123

Fish, Insecticides, Malathion, Organophosphorus compounds, Parathion, Phosphamidon, Toxicology.

Six organophosphorus insecticides, parathion, malathion, ethyl parathion, methyl dimecron, phosphamidon and DDVP were bioassayed for toxicity to 10 species of fish. A differential toxicity was observed and recorded for each species.

15273-69

### THE TOXICOLOGY AND PHARMACODYNAMICS OF DIELDRIN (HEOD): TWO-YEAR ORAL EXPOSURES OF RATS AND DOGS.

A I T Walker D E Stevenson J Robinson E

Thorpe M Roberts

*Toxicol Appl Pharmacol* 15(2):345-373 REF

Sep 1969 391.8 T662

Alkaline phosphatase, Dieldrin, Dogs, Neoplasms, Rats, Toxicology.

## PLANT PHYSIOLOGY & BIOCHEMISTRY

15274-69

### THE ACTION OF GIBBERELIC ACID ON GRAPE FRUCTIFICATION. (IT)

G Borzini

*Agricoltura* 17(6):54-56

Jun 1968 16 AG8226

Gibberellic acid, Grapes, Plant physiology, Plant regulators. English and French summaries.

15275-69

### BOTANICAL, ECOLOGICAL AND PHYSIOLOGICAL STUDIES.

A C Carder et. al.

*N Cent Weed Contr Conf Res Rep* 24:10-14

1967 79.9 N81R

Chemical control (weeds), Herbicides, Plant ecology, Plant physiology, Weeds. Includes summary by A. C. Carder, followed by brief reports of various authors.

15276-69

### UTILIZATION OF POLYETHYLENE FILM TO CONTROL EVAPORATION IN THE LOSS IN WEIGHT METHOD FOR TRANSPIRATION.

J G Dosland

*N Cent Weed Contr Conf Res Rep* 24:7

1967 79.9 N81R

Evaporation, Plant physiology, Plant transpiration, Polyethylene, Seedlings.

15277-69

### PLANT RESISTANCE DEPENDING ON PROTECTIVE SURFACE LAYERS OCCURRING NATURALLY. (GE)

E Heidenreich

*Berlin Biol Bundesanst Land-forstwirtschaft Mitt* 132(37):158-159

Jan 1969 410.9 G31M

Phytotoxicity, Plant disease resistance, Plant insect resistance, Plant morphology, Plant physiology, Weather. English abstract.

15278-69

### UTILIZATION OF CARBOHYDRATE COMPOUNDS BY THE PECAN SCAB FUNGUS, FUSICLADIUM EFFUSUM WINT..

A D Hopp G L Barnes

*Okla Acad Sci Proc* 48:210-215

1969 500 OK42

Carbohydrates, Fungus diseases (plants), Fusieladium effusum, Pecans, Plant metabolism.

15279-69

### STUDIES ON THE EFFECT OF PLANT GROWTH REGULATORS ON THE ROOTING OF AIR LAYERS OF DARCAENA ROSEA-FERRELLA.

N C Hulamani G S Sulikeri H V Pattanashetty S

D Kololgi

*Mysore J Agr Sci* 2(2):147-150

1968 S19.M9

D, 2,4-, IBA, Naphthalencacetic acid, Phenoxy acid compounds, Plant layering, Plant physiology, Plant regulators, Roots, T, 2,4,5-

15280-69

STAMINAL AND FUNCTIONAL MALE STERILITY INDUCED BY CHEMICAL TREATMENT IN PAPILIONACEOUS PLANTS.

C L Kaul S P Singh

*Indian J Agr Sci* 37(4):264-269

Aug 1967 22 AG831

Dalapon, Leguminosae, Maleic hydrazide, Papilionoideae, Plant abnormalities, Plant growth inhibitors, Plant morphology, Plant physiology, Pollen, Stamens, Sterility.

15281-69

EFFECTS OF SOME GROWTH-REGULATORS WITH GAMETOCIDAL PROPERTIES ON CAJANUS CAJAN (L.) MILLSP..

C L Kaul S P Singh

*Indian J Agr Sci* 37(1):69-76 REF

Feb 1967 22 AG831

Coumarin, Gametocides, Maleic hydrazide, Pigeonpeas, Plant growth inhibitors, Plant physiology, Sterility.

15282-69

EFFECT OF DIFFERENT FORMS AND LEVELS OF PHOSPHORUS IN PRESENCE AND ABSENCE OF MOLYBDENUM ON GROWTH AND YIELD OF BERSEEM.

S K Kaushik

*Alahabad Farmer* 42(5):297-302 REF

Sep 1968 22 AL5

Clover, Fertilizers, Molybdenum, Phosphorus, Plant biochemistry, Plant regulators.

15283-69

THE INFLUENCE OF DIKOTEX ON THE CONTENT OF SOME FREE AMINO ACIDS AND ALL OF THE NITROGEN IN SUMMER BARLEY PLANTS. (CZ)

V Kohout

*Praze Sb Vysoke Sk Zemed (SER A):283-291 REF*

1966 S13.P72

Amino acids, Barley, Methyl-4-chlorophenoxyacetic acid, 2-, Nitrogen, Phenoxy acid compounds, Plant metabolism. German and Russian summaries.

15284-69

GROWTH PROMOTING EFFECT OF CERTAIN AMINO ACIDS ON THE AGARICUS FRUIT BODY.

M Konishi

*Mushroom Sci* 6:121-134

1965 80 M972

Amino acids, Fungus cultures, Growth factors, Mushrooms, Nitrogen compounds, Plant biochemistry, Plant extracts, Plant hormones, Plant regulators. French and German summaries.

15285-69

INDUCTION OF DORMANCY IN GROUNDNUT BY PRE-HARVEST FOLIAR APPLICATION OF MALEIC HYDRAZIDE.

K Krishnamurthy

*Indian J Agr Sci* 37(1):33-36

Feb 1967 22 AG831

Maleic hydrazide, Peanuts, Plant dormancy, Plant growth inhibitors, Plant physiology.

15286-69

EFFECTS OF EXTREME S-TRIAZINE CONCENTRATIONS ON CORN, SORGHUM, AND FOXTAIL.

T L Lavy

*N Cent Weed Contr Conf Res Rep* 24:101

1967 79.9 N81R

Alopecurus, Atrazine, Chemical control (weeds), Corn, Herbicides, Plant physiology, Propazine, Simazine, Sorghum.

15287-69

SIMPLE CARBOLINE ALKALOIDS III. CHROMATOGRAPHIC INVESTIGATIONS OF HARMAN ALKALOIDS IN THE PLANTS: AMSONIA TABERNAEMONTANA WALT., APOCYNUM

CANNABINUM L. AND HIPPOPHAE RHAMNOIDES L.. (POL)

J Lutomski B Nowicka M Adamska

*Poznan Inst Przemyslu Zielarskiego Biul*

13(4):171-176

1967 451 P87

Alkaloids, Apocynum cannabinum, Chromatography, Plant biochemistry, Plant extracts. English and Russian summaries.

15288-69

CUCUMBER SEX EXPRESSION MODIFIED BY 2-CHLOROETHANEPHOSPHONIC ACID.

A L McMurray C H Miller

*Science* 162(3860):1397-1398

20 Dec 1968 470 SC12

Crop yields, Cucumbers, Phosphonic acids, Plant biochemistry, Plant budding, Plant regulators.

15289-69

GROWTH OF ONIONS AND WEEDS WITH HERBICIDES AND A MULCH.

R M Menges J L Hubbard

*Rio Grande Val Hort Soc J* 21:103-107 REF

1967 81 L95

Chlorinated hydrocarbons, Chloroallyl diethylthiocarbamate, 2-, Crop yields, Dimethyl 2,3,5,6-tetrachloroterephthalate, Herbicides, Mulches, Onions, Plant physiology, Weeds.

15290-69

SOME EFFECTS OF THE GROWTH REGULATORS CCC AND ALAR (B-995) ON THE TOMATO (LYCOPERSICON ESCULENTUM, MILL.). I. EFFECTS ON LEAF AREA, PLANT SPREAD, DRY WEIGHT, HEIGHT AND LEAF NUMBERS.

J V Morgan M J Hennerty

*Roy Dublin Soc Sci Proc Ser B (SER*

*B)2(14):121-140 REF*

24 Jun 1968 501 D855C

Chloroethyltrimethylammonium chloride, (2-, Dosage, Leaves, Light, Plant injuries, Plant physiology, Plant regulators, Succinic acid, 2,2-dimethylhydrazide, Tomatoes.

15291-69

THE EFFECT OF ZNSO<sub>4</sub> ON THE CHEMICAL COMPOSITION OF MAIZE LEAVES. (BU)

N Peneva N Patarinski

*Pochvozn Agrokhim* 3(2):61-65

1968 S590.P6

Corn, Leaves, Micronutrients, Nitrogen, Phosphorus, Plant nutrition, Plant physiology, Potassium, Zinc sulfate. English and Russian summaries.

15292-69

SOME EXAMPLES OF CHLORCHOLINECHLORIDE (CCC) ACTION ON PHYSIOLOGICAL PROCESSES IN PLANTS. (SE)

Z Popovic N Markovic

*Agrohemija* (3/4):81-90 REF

1968 385 AG87

Chloroethyltrimethylammonium chloride, (2-, Gibberellins, Plant metabolism, Plant physiology, Toxicology. English summary.

15293-69

THE EFFECT OF MOLYBDENUM ON THE AMINO ACID CONTENT IN BEANS. (BU)

P Radomirov I Ermolaev G Konstantinov

*Pochvozn Agrokhim* 2(6):79-82

1967 S590.P6

Amino acids, Beans, Micronutrients, Molybdenum, Plant biochemistry, Plant nutrition. English and Russian summaries.

15294-69

TRITHION SPOTTING OF GRAPEFRUIT.

R B Reinking

*Rio Grande Val Hort Soc J* 21:46-48

1967 81 L95

Carbophenothion, Chemical control (insects), Grapefruit, Insecticides, Organophosphorus compounds, Plant injuries, Spraying.

15295-69

EMERGENCE OF VELVETLEAF (ABUTILON THEOPHRASTI) AND OF WILD CANE (SORGHUM BICOLOR) FROM DIFFERENT SEED DEPTHS AND SITE OF UPTAKE OF VARIOUS CHEMICALS.

O G Russ J L Condry

*N Cent Weed Contr Conf Res Rep* 24:27

1967 79.9 N81R

Abutilon theophrasti, Chemical control (weeds), Chloranil, Emergence, Ethyl N,N-dipropylthiocarbamate, Herbicides, Plant biochemistry, Seeds, Simazine, Sorghum vulgare bicolor, Trifluralin, Vernolate.

15296-69

CONTROL OF ANNUAL AND BIENNIAL WEEDS.

O G Russ et. al.

*N Cent Weed Contr Conf Res Rep* 24:26-30

1967 79.9 N81R

Annual plants, Chemical control (weeds), Herbicides, Plant physiology. Includes summary by O. G. Russ, followed by brief reports of various authors.

15297-69

EFFECT OF THIAMINE ON GROWTH OF ROOTS OF DOLICHOS BIFLORUS AND ELEUSINE CORACANA.

K S K Sastry K M Appaiah

*Mysore J Agr Sci* 2(2):106-110

1968 S19.M9

Nodules (plants), Plant physiology, Ragimillet, Roots, Thiamine, Twinflower dolichos.

15298-69

UPTAKE OF PICLORAM IN SMOOTH BROMEGRASS.

C J Scifres M K McCarty

*N Cent Weed Contr Conf Res Rep* 24:10

1967 79.9 N81R

Bromus inermis, Chemical control (weeds), Foliar application, Herbicides, Picloram, Plant physiology.

15299-69

RESPONSE OF WARM- AND COOL-SEASON GRASSES TO SEVERAL HERBICIDES UNDER GREENHOUSE CONDITIONS.

C J Scifres M K McCarty L C Newell

*N Cent Weed Contr Conf Res Rep* 24:84-85

1967 79.9 N81R

Atrazine, Chemical control (weeds), Dimethyl tetrachloroterephthalate, Diuron, Grasses, Greenhouse culture, Herbicides, Plant physiology, Prometryne, Siduron.

## CHEMISTRY

15300-69

PYRETHROID-LIKE BIOLOGICAL ACTIVITY OF COMPOUNDS LACKING CYCLOPROPANE AND ESTER GROUPINGS.

P E Berteau J E Casida T Narahashi

*Science* 161(3846):1151-1153 REF

13 Sep 1968 470 SC12

Allethrin, Carbamic acid, Cyclopropanecarboxylic acid, Esters, Insecticide synergists, Piperonyl butoxide, Pyrethrum.

15301-69

QUANTITATIVE EVALUATION OF THE EFFECTIVENESS OF SOME ANTIOXIDANTS USED FOR FAT STABILIZATION. (POL)

F Modrzejewski M Galczyńska

*Poznan Inst Przemyslu Zielarskiego Biul*

13(4):184-188 REF

1967 451 P87

Antioxidants, Butylated hydroxyanisole, Butylated hydroxytoluene, Caffeic acid, Fats, NDGA, Oils, Quantitative analysis. English and Russian summaries.

## ENGINEERING

15302-69

## MAJOR STEP TOWARD ZERO CHEMICAL DRIFT.

Anonymous

*Nations Agr* 44(2):16-17

Feb 1969 280.82 B89

Accident prevention, Aerial spraying, Helicopters, Pesticide application, Spraying equipment.

15303-69

## AN AUTOMATIC OUTPUT REGULATOR FOR EXACT DELIVERIES OF PLANT PROTECTIVE AGENTS. (GE)

E G Brachmann

*Berlin Biol Bundesanst Land-forstwirtschaft Mitt*

132(37):190-193

Jan 1969 410.9 G31M

Mechanization, Spraying equipment. English abstract.

15304-69

## SPRAYER CALIBRATION AND NOZZLE SELECTION CHARTS.

J W Glover

*N C Pesticide Manual 00(00):153-158*

1967 79.8 N81

Pesticide application, Spraying, Tables (data).

15305-69

## RESULTS OF SERIAL TESTS WITH SPRAYING MACHINES USED IN FIELD. (GE)

E Grutte

*Berlin Biol Bundesanst Land-forstwirtschaft Mitt*

132(37):184-185

Jan 1969 410.9 G31M

Mechanization, Methodology, Spraying equipment. English abstract.

15306-69

## PRESENT SITUATION AND TENDENCIES OF DEVELOPMENT IN THE TECHNIQUE OF PLANT PROTECTION. (GE)

F Kersting

*Berlin Biol Bundesanst Land-forstwirtschaft Mitt*

132(37):164-179 REF

Jan 1969 410.9 G31M

Mechanization, Pesticide application, Plant protection, Reviews. English abstract.

## INDUSTRY

## EDUCATION

15307-69

## POSSIBILITIES OF CHECKING JETS OF FIELD SPRAY LINES. (GE)

A Dufraine

*Berlin Biol Bundesanst Land-forstwirtschaft Mitt*

132(37):186-189

Jan 1969 410.9 G31M

Agricultural education, Mechanization, Methodology, Spraying equipment English abstract

15308-69

## CRITICAL CONSIDERATIONS CONCERNING THE PRESENT STATUS OF THE ADVISORY SERVICE FOR MACHINERY IN AGRICULTURE. (GE)

R Jacob-Haupt

*Berlin Biol Bundesanst Land-forstwirtschaft Mitt*

132(37):180-183

Jan 1969 410.9 G31M

Agricultural education, Mechanization, Methodology.



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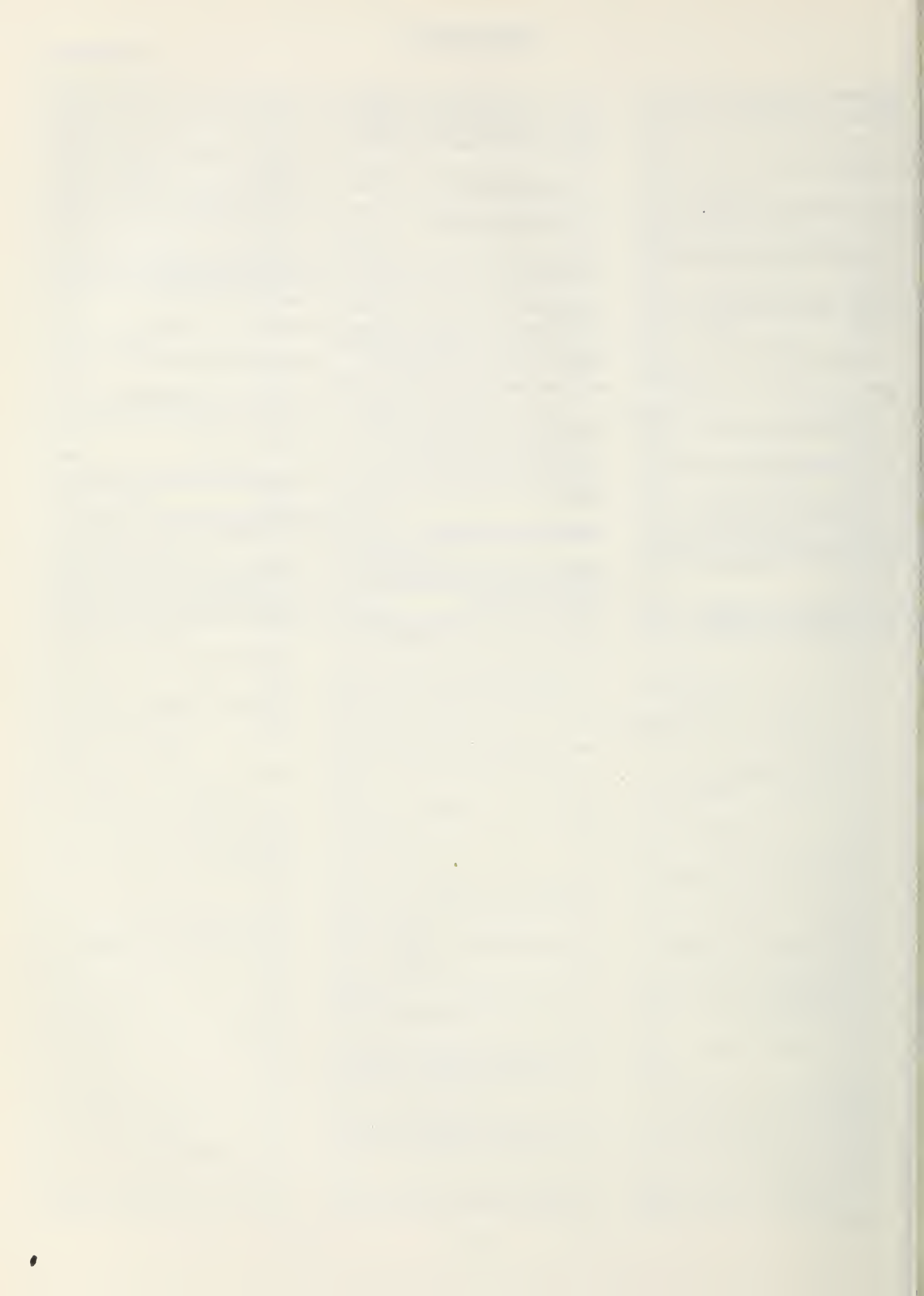
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