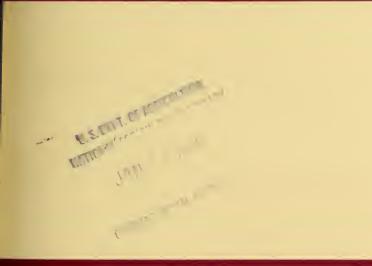
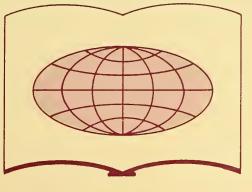
Pesticides Documentation BULLETIN





Volume 3 Number 26 DECEMBER 22, 1967

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

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10 ENTOMOLOGY

Systematics

1992-67 A NEW DISTRIBUTION RECORD FOR THE BALSAM TWIG APHID. G D Amman J Econ Entom 56(I):II3 Feb 1963 42I J822 Insect ecology, Mindarus abietinus. 1993-67 NOTES ON THE ECOLOGY AND HOST SPECIFITY OF MICROLARINUS LAREYNII AND M. LYPYRIFORMIS (CULEOPTERA: CURCULIONIDAE) AND THE BIOLOGICAL CONTROL OF PUNCTURE VINE, TRIBULUS LERRESTRIS. L A Andres G W Angalet J Econ Entom S6(3):333-340 Jun 1963 421 JB22 Insect ecology, Plant hosts, Puncture vine, Tribulus terrestris L.. 1994-67 ECOLOGICAL STUDIES ON THE OLIVE SCALE, PARLATORIA OLEAE, IN ISRAEL. J Econ Entom S7(6):847-BS0 Dec 1964 421 JB22 Insect ecology, Israel, Parlatoria oleae. 1995-67 COMPARING VARIOUS METHODS OF PREDICTING DEVELOPMENT OF COMPARING VARIOUS METHODS OF PREDICTING DEVELOPMENT D SPROCE BUDWORM, CHORISTONEURA FUMIFERANA, IN NORTHERN MINNESOTA. J L Bean L F Wilson J Econ Entom S7(6):92S-928, TABS. Dec 1964 42I J822 Choristoneura fumlferana, Insect outbreak forecasting, Minnesota. 1996-67 INVESTIGATIONS OF THE FACE FLY IN MISSOURI. D L Benson C W Wingo J Econ Entom S6(3):2SI-2S8 Jun 1963 421 JB22 Missouri, Musca autumnalis. 1997-67 EGG PARASITES OF THE ELM SPANWORM IN THE SOUTHERN APPALA-CHIAN MOUNTAINS. W M Ciesla J Econ Entom S7(6):B37-838 Dec 1964 42I J822 Appalachian mountains, Ennomos subsignarlus, Parasitic insects. 1998-67 COLLECTION OF PREDACEOUS LADY BEETLE, HYPERASPIS TRILIN-EATA, IN BARBADOS, AND SHIPMENT TO HAWAII. Coles J Econ Entom S7(5):76B-769 Det 1964 421 J822 Barbados, Coccinellidae, Hawaii, Insect collection, Predaceous insects. 1999-67 199-67 THE TRICHOPTERA OF ST. HELEN S ISLAND, MONTREAL I.THE SPECIES PRESENT AND THEIR RELATIVE ABUNDANCE AT LIGHT. P S Corbet F Schmid C L Augustin Can Entom 96(12):I284-I298,BIBL. I298, TABS. Dec 1966 421 C16 Quebec. 2000-67 MORPHOLOGY AND HISTOLOGY OF THE NEUROENDOCRINE SYSTEM OF BOMBUS FERVIDUS FABRICUS (HYMENOPTERA:APIDAE). C D Crosswhite J T Medier Can Entous 96(12):1329-1337, TABS. 1336-1337 Dec 1966 421 Cl6 Insect histology, Insect morphology.

2001-67 001-67 NATURAL CONTROL FACTORS ASSOCIATED WITH THE JACK-PINE BUDWORM, CHORISTONEURA PINUS. J C Dixon D M Benjamin J Econ Entom S6(3):266-270 Jun 1963 42I JB22 Choristoneura pinus, Naturai control (insects), Parastitic insects. Parasitic insects. 2002-67 SOGATODES BRAZILIENSIS (MUIR), A NEW SYNONYM OF S. ORIZICOLA (MUIR) (FULGOROIDEA, DELPHACIDAE). R G Fennah Bull Entomol R S6(2):21S-217 Dec 1965 421 887 2003-67 PREDATION BY PARASITIC HYMENOPTERA, THE BASIS OF ANT-INDUCED OUTBREAKS OF A HOST SPECIES. S E Fianders J Econ Entom S6(I):II6 Feb I963 421 JB22 Formicidae, Parasitic insects. 2004-67 ON THE ORIGIN OF FLIGHT IN INSECTS. J W Flower J Insect Physi 10(1):81-88, BI8L. 88 Feb 1964 421 J82S Insect evolution, Insect flight. 200S-67 THE SPATIAL PATTERN OF THE PEA APHID IN ALFALFA FIELDS. H Y Forsythe Jr G G Gyrisco J Econ Entom S6(I):I04-I07 Feb 1963 42I J822 Acyrthosiphon plsum, Alfalfa. 2006-67 JUG-67 A STUDY OF THE AGE COMPOSITION OF ANOPHELES GAMBIAE GILES AND A. FUNESTUS GILES IN NORTH-EASTERN TANZANIA. M T Gillies T J Wilkes Bull Entomol R S6(2):237-262, 818L. 260-262, TABS. Dec 1965 421 887 Culicidae, Population statistics, Tanzania. 2007-67 THE ROLE OF THE PALM WEEVIL, RHYNOCHOPPHORUS PALMARUM, A VECTOR OF RED RING DISEASE OF COCONUTS. I. RESULTS OF PRELIMINARY INVESTIGATIONS. AS E A C Hagley J Econ Entom 56(3):375-380 Jun 1963 421 J822 Coconuts, Insect vectors, Palm weevii, Red ring (coconuts). 2008-67 SEASONAL ABUNDANCE AND DIURNAL VARIATIONS IN ACTIVITY OF SOME STOMOXYS AND TABINIDAE IN UGANDA. J M B Harley Bull Entomol R S6(2):319-332, BIBL. 331-332, TA85. Dec 1965 421 B87 Insect behavior, Population statistics, Uganda. 2009-67 THE NATURAL ENEMIES OF SOME BANANA INSECT PESTS IN COSTA RICA. O Harrison J Econ Entom 56(3):282-285 Jun 1963 421 JB22 Benanas, Costa Rica, Naturai control (insects), Predaceous insects 2010-67 010-67 SYNOPSIS OF NEARCTIC ICHNEUMONINAE STENOPNEUSTICAE WITH PARTICULAR REFERENCE TO THE NORTHEASTERN REGION (HYMENOP-TERA) VI. SYNOPSIS OF THE ICHNEUMONINI (GENUS PLAGIOTRY-PES), ACANTHOJOPPINI, LISTRODROMINI AND PLATYLABINI. G H Heinrich Can Entom SUPPL. 27 I962 421 CI6 Arctic regions. 2011-67 SYNOPSIS OF NEARCTIC ICHNEUMONINAE STENOPNEUSTICAE WITH PARTICULAR REFERENCE TO THE NORTHEASTERN REGION (HYMENOPTER VII. SYNOPSIS OF THE TROGINI ADDENDA AND CORRIGENDA. G H Heinrich Can Entom SUPPL. 29 1962 421 CI6

Arctic regions.

PAGE 1

10 2011-67

BISLIDGRAPHY

10 2012-67 2012-67 SEXING LARGE NUMBERS OF DROSOPHILA MELANDGASTER ADULTS BY A SEXING LARGE NUMBERS OF DRUSUPHILA MELANUGASTER AL SIZE DIFFERENTIAL. T J Henneberry W L McGovern A H Yeomans H C Mason J Econ Entom 57(5):769-770 Dct 1964 421 JB22 Insect identification, Sex determination. 2013-67 DESERVATIONS ON THE LOOPER COMPLEX OF THE NUCTUID SUBFAMILY PLUSIINAE. S D Hensiey L D Newsom J Chapin J Econ Entom 57(6):1006 Dec 1964 421 J822 Geometridae. 20I4 - 67PITHANUS MAERKELI (HERRICH-SCHAFFER) AND ACTITOCORIS SIGNATUS REUTER IN NORTH AMERICA (HEMIPTERA: MIRIDAE). L A Keiton Can Entom 9B(12):I305-1307 Dec 1966 421 Cl6 North America. 2015-67 REVIEW OF THE SPECIES OF TETRATOCORIS FIE8ER, WITH DESCRIPTION OF A NEW SPECIES FROM THE NEARARCTIC REGION (HEMIPTERA: MIRIDAE). L A Kelton Can Entom 9B(I2):I265-I271 Dec 1966 421 C16 Subarctic regions. 2016-67 SEASONAL ACTIVITY AND CONTROL OF THE MONTEREY PINE TIP MOTH. C S Kochier M Tauber J Econ Entom 57(6):B25-829, TA8S. Dec 1964 421 J822 Monterey pine tip moth. 2017-67 ENZYMES OF THE BOLL WEEVIL-II. INORGANIC PYROPHOSPHATASE. E N Lambremont R M Schrader J Insect Physi 10(I):37-52, 818L. 51-52, TA8S. Feb I964 421 J825 Enzymes, Inorganic pyrophosphatase. 2018-67 118-67 HOST-RANGE STUDIES WITH THE SWEETCLOVER WEEVIL AND THE SWEETCLOVER APHID. G R Mangiitz H J Gorz J Econ Entom 57(5):683-687, TA8S. Oct 1964 421 J822 Piant hosts, Sitona cylindricollis, Therioaphis riehmi. 2019-67 ORIGIN OF POPULATIONS OF THE SIX-SPOTTED LEAFHOPPER, MACRO-STELES FASCIFRONS, IN ANDKA COUNTY, MINNESOTA. A 8 Meade A G Peterson J Econ Entom 57(6):885-888, TABS. J Econ Entom 57(6):885-888, TABS. Dec 1964 421 J822 Anoka county, Insect ecology, Macrosteles fascifrons, Minnesota, Population. 2020 - 67J20-67 THREE NEW TRICHOSUROLAELAPS (ACARINA:LAELAPTIDAE) WITH A KEY TO THE SPECIES. C J Mitcheii R W Strandtmann J Med Entom 1(2):119-128 Ol Jul 1964 421 J828 Insect taxonomy, Mites. 2021-67 121-67 A COLOR PREFERENCE OF THE WESTERN FLOWER THRIPS, FRANK-LINIELLA DCCIDENTALIS. H R Moffitt J Econ Entom 57(4):604-605 Aug 1964 42I J822 Coior, Western flower thrips. 2022-67 WILD HOST PLANTS OF THE CORN EARWORM AND THE TOBACCO BUDWORM IN EASTERN NORTH CAROLINA. H H Neurzig J Econ Entom 56(2):135-139 Apr 1963 421 J822 Heliothis virescens, Heliothis zea, North Carolina, Plant hosts. PAGE 2

2023-67 D23-67 AN ECOLOGICAL STUDY OF ARTHRUPOD POPULATIONS ON APPLE IN NORTHEASTERN WISCONSIN: INSECT SPECIES PRESENT. E R Datman E F Legner R F Brooks J Econ Entom 57(6):978-983 Dec 1964 421 JB22 Appies, Insect ecology, Insect populations, Wisconsin. 2024-67 . WINTER SURVIVAL OF THE SOLLWORM IN CENTRAL TEXAS. C R Parencia Jr J Econ Entom 57(5):757-75B Oct 1964 42I JB22 Heliothis zea, Hibernation, Texas. 2025-67 A CATALOGUE OF THE NEARCTIC CHALCIDOIDEA (INSECTA: HYMEN-OPTERA). O Peck Can Entom SUPPL. 30 1963 421 C16 Arctic regions, Insect ecology, Insect taxonomy. 2026-67 POPULATIONS OF CERTAIN INSECTS AND SPIDERS ON COTTON PLANTS FOLLOWING INSECTICIDE APPLICATIONS. T R Pfrimmer J Econ Entom 57(5):640-644 Oct 1964 421 J822 Cotton, Insecticide application, Insecticide resistant insects, Insecticides, Insects, Spiders. 2027-67 THE FAUNA OF POLYPORUS BETULINUS (SULLIARD) FRIES (BASIDIOMYCETES: POLYPORACEA) IN GATINEAU PARK, QUESEC. D P Pieiou Der Friefon 9B(12):I233-1237 Dec I966 42I CI6 Bracket fungus, Host indexing (plants), Polyporus betulinus. 2028-67 FLIGHT STUDY OF THE CLOVER ROOT CURCULIO. H W Prescott R C Newton J Econ Entom 56(3):368-370 Jun 1963 421 J822 Insect flight, Sitona hispiduia. 2029-67 A FALL FLIGHT PERIOD OF THE ALFALFA WEEVIL IN NEW YORK. A FALL FLIGHT PERIOD OF THE ALFALFA WEEV R J Prokopy G G Gyrisco J Econ Entom 56(2):24I Apr 1963 42I J822 Hypera postica, Insect flight, New York. 2030-67 030-67 EFFECT OF CERTAIN CULTURAL PRACTICES ON THE A8UNDANCE OF TOBACCO HORNWORMS, TOBACCO BUDWORMS, AND CORN EARWORMS ON TOBACCO AFTER HARVEST. R L Rabb H H Neurzig H V Marshall Jr J Econ Entom 57(5):791-792 Oct 1964 421 J822 Cultural control (insects), Harvesting, Heliothis virescens, Heliothis zea, Manduca quinquemaculata, Tobacco. 2031 - 67REVIEW OF THE FERN APHIDS OF NORTH AMERICA WITH DESCRIPTIONS OF A NEW SPECIES AND A NEW GENUS. A G Robinson Can Entom 9B(I2):1252-1259, 8IBL. 1258-59 Dec 1966 421 CI6 Aphididae, North America, Pteridophyta, Pteridophyta. 2032-67 FLUORESCENT MARKING AND MIGRATION OF GRASSHOPPERS FROM SPRAYED PLOTS. D S Smith N D Hoimes G E Swailes S McDonaid J Econ Entom 57(6):990-992 Dec 1964 42I J822 Fiuorescent dyes, Grasshoppers, Insect migration, Labeiing. 2033-67 SEASONAL OCCURRENCE OF TOBACCO SUDWORM ON COTTON IN GEORGIA. J W Snow J Econ Entom 57(5):787-788 Oct I964 421 J822 Cotton, Georgia, Heiiothis virescens.

2034-67 RELATIVE SEASONAL ABUNDANCE OF TWO SPECIES OF HELIOTHIS ON COTTON IN AN AREA OF BRAZOS COUNTY, TEXAS. J A Sundman R L Hanna J Econ Entom 56(2):235-236 Apr 1963 421 J822 Cotton, Insect population, Texas. 2035-67 SEASONAL VARIATIONS IN ACTIVITY OF THE SOUTHERN PINE BEETLE IN EAST TEXAS. R C Thatcher L S Pickard J Econ Entom 57(6):840-842 Dec 1964 421 J822 Dendroctonus frontalis, Insect behavior, Insect ecology, Texas. 2036-67 INSECT SURVEY OF FORAGE CROP5 IN PRINCE EDWARD ISLAND. L 5 Thompson J Econ Entom 57(6):961-962 Dec 1964 421 J822 Forage plants, Prince edward Island, Surveys. 2037-67 137-67 SITONA SCISSIFRONS (COLEOPTERA: CIRCULIONIDAE), A POTEN-TIAL HAZARD TO ALFALFA PRODUCTION IN ALASKA. R H Washburn L J Kiebesadel J Econ Entom 57(6):995 Dec 1964 421 J822 Aiaska, Alfalfa. 2038-67 LOCOMOTOR ACTIVITY OF THE HAIRY SPIDER BEETLE AT THE SURFACE OF STORED WHEAT. Watters J Econ Entom 57(6):889-891 Dec 1964 42I J822 Locomotion, Pilnus villiger (Reiter), Ptinus vliliger, Storage, Wheat. 2039-67 IXODES LAYSANENSIS, A NEW SPECIES OF TICK FROM BIRDS ON LAYSAN ISLAND (METASTIGMATA:IXODIDAE). N Wilson J Med Entom 1(2):165-168 OI Jul 1964 421 J828 Blrds, Hawaii, Ixodldes.

2040-67 APPLE MAGGOT EMERGENCE AND SEASONAL ACTIVITY IN WISCONSIN. E R Datman J Econ Entom 57(5):676-679 Oct 1964 421 J822 Insect emergence, Rhagoietls pomoneila, Wisconsin.

Physiology & Biochemistry

2041-67 ADDITIONAL BIOLOGICAL AND ECOLOGICAL CHARACTERISTICS OF ACERIA TULIPAE (ACARINA: ERIOPHYIDAE). M 5 E del Rosario W H Sili Jr J Econ Entom 57(6):893-896 Dec 1964 421 J822 Insect bloiogy, Insect ecology. 2042-67 A STUDY OF HOUSEFLY ESTERASES BY MEANS OF A SENSITIVE COLORUTORY OF TAUC MEANS OF A SENSITIVE

A STUDY OF HOUSEFLY ESTERASES 8Y MEANS OF A SENSITIVE COLORIMETRIC METHOD. K van Asperen J Insect Physi 8(4):401-416, TA8S. Jul 1962 42I J825 2043-67 PARTIAL CHARACTERIZATION OF THE IN VIVO METABOLITES OF DDT-Cl4 IN TRIATOPA INFESTANS. M Agosin A Moreiio N Scaramelil J Econ Entom 57(6):974-977, TABS. Dec 1964 421 J822 Carbon-I4, DDT , Metaboiltes. 2044-67 ANTIMETASOLITES IN THE NUTRITION OF AEDES AEGYPTI L. LARVAE. THE SUBSTITUTION OF CHOLINE BY RELATED SUBSTANCES AND THE EFFECT OF CHOLINE INHIBITORS. 5 Akov J Insect Physi 8(3):337-348, 818L. 347-348, TA8S. May 1962 421 J825 Antimetabolites, Choilne. 2045-67 A QUALITATIVE AND QUANTITATIVE STUDY OF THE NUTRITIONAL REQUIREMENTS OF AEDES AEGYPTI L LARVAE. S Akov J Insect Physi 8(3):319-335, 8I8L. 334-335, TA85. May 1962 421 J825 Insect nutrition. 2046-67 RESPONSE OF TWENTY-ONE TERMITE SPECIES TO AQUEOUS EXTRACTS OF WOOD INVADED BY THE FUNGUS LENZITES TRABEA PERS. EX rK. T C Ailen R V 5mythe H C Coppel J Econ Entom 57(6):1009-1011 Dec 1964 421 J822 Aqueous wood extracts, Termites, Wood destroying fungi. 2047~67 THE RESPIRATORY SYSTEM OF THE EGG-SHELL OF CALLIPHORA ERYTHROCEPHALA. ERTTHRUCEPHALA. D 5 Anderson J Insect Physi 5(2):120-I28, TA85. Nov 1960 421 J825 Incubation (insects), Insect eggs, Insect physiology, Insect respiration. 2048-67 THE ACTION PATTERN AND PHYSIOLOGIC ROLE OF TENEBRIG LARVAL AMYLASE. S W Appiebaum J Insect Physi 10(6):897-906, 8I8L. 905-906 Dec 1964 421 J825 Amylases, Larvae. 2049-67 JA9-67
PHYSIOLOGICAL ASPECTS OF HOST SPECIFICITY IN THE 8RUCHIDAE
-1. GENERAL CONSIDERATIONS OF DEVELOPMENTAL COMPATIBILITY.
5 W Applebaum
J Insect Physi 10(5):783-788, 818L. 787-788
Oct 1964 421 J825
Insect ecology, Insect morphology. 2050-67 RESISTANCE TO ACARICIDES IN THE EUROPEAN RED MITE. D Asquith J Econ Entom 57(6):905-907 Dec 1964 421 J822 Acaricides, Insecticide resistant Insects, Panonychus uimi. 2051-67 EFFECT OF MACROCHELIDAE (ACARINA: MESOSTIGMATA) ON HOUSE FLY PRODUCTION FROM DAIRY CATTLE MANURE. R C Axteii 56(3):317-321 Jun 1963 Dairy cattie, Manures, Musca domestica. 2052-67 INFLUENCE OF CHLORAMPHENICOL ON SOME ASPECTS OF THE METABO-LISM OF THE PARASITOID ENCARSIA FORMO5A GAHAN. E R Saiboni J Insect Physi 10(6):887-896, 8I8L. 896 Dec 1964 421 J825 Chloramphenicoi, Insect metabolism, Parasitology. 2053-67 EFFECTS OF GAMMA RADIATION OF VARIOUS STAGES OF THREE FRUIT FLY SPECIES. J W 8aiock A K Burditt Jr L D Christenson J Econ Entom 56(1):42-46 Feb 1963 42I J822

Colorimetry, Esterases, Musca domestica.

PAGE 3

10 2053-67

10 2054-67 Gamma rays. Tephritidae. 2054-67 FOOD-PLANT TESTS WITH THE DIFFERENTIAL GRASSHOPPER. O L Barnes J Econ Entom S6(3)396-399, TABS. Jun 1963 421 JB22 Food plants, Grasshoppers. 2055-67 THE RELATIONSHIP BETWEEN OVIPOSITION IN THE BLOWFLY LUCILIA. L Sarton Srowne J Insect Physi B(4):3B3-390 Jui 1962 421 JB2S Ovipositors. 2056-67 POSSIBLE INFLUENCE OF NEOTENINE AND ECDYSON ON THE SIGN OF PHOTOTAXIS IN THE EYED HAWK CATEPILLAR (SMERITHUS OCELLATA L.). L.). J Beetsma L de Ruiter J de Wiide J Insect Physi 8(3):2S1-2S7 May 1962 421 J82S Ecdysone, Neoteinine, Phototropism. 2057-67 ACTIVE CONTROL OF THE MECHANICAL PROPERTIES OF INSECT ENDOCUTICLE. H C 8ennet-clark J Insect Physi B(6):627-633 Nov 1962 421 JB2S Cuticle, Haemolymph. 2058-67 EFFECT OF GAMMA RAYS ON IMMATURE STAGES OF THE MEXICAN FRUIT FLY. C A Senschoter J Teiich C. J Econ Entom S7(S):690-691 Oct 1964 421 JB22 Anastrepha iudens, Anastrepha iudens (Loew), Gamma rays. 2059-67 CORN ROOTWORM RESISTANCE TO CHLORINATED HYDROCAR8ON INSECTICIDES IN ILLINOIS. INSECTICIDES IN ILLINDIS. J H 8igger J Econ Entom S6(1):118-119 Feb 1963 421 J822 Diabrotica, Hydrocarbons, Illinois, Insecticide resistant insects, Insecticides. 2060-67 STUDIES ON THE PROTEOLYTIC ACTIVITY OF THE SEETLES TENESRIO AND TRIBOLIUM. Y 8irk I Harpaz I Ishaaya A 8ondi J Insect Physi 8(4):417-429, 818L. 429, TA8S. Jui 1962 421 J82S Proteinases. 2061-67 A BRIEF SURVEY OF THE EFFECTS OF POTENTIAL ANTIMETABOLITES AND ENZYMES ON THE DEVELOPMENT OF GIANT SILKWORMS. M P Biaustein H A Schneiderman J Insect Physi S(2):143-159, BIBL.,1SS-159 Nov 1960 421 J82S Antimetabolites, Diapause, Enzymes, Giant siikworms, Insect morphology. Insect morphology. 2062-67 APPARENT LOSS OF SEX ATTRACTIVENESS BY THE FEMALE OF THE VIRGINIA-PINE SAWFLY, NEODIPRION PRATTI PRATTI. M L Bobb M L BOOD J Econ Entom S7(6):B29-B30 Dec 1964 421 JB22 Attractants, Sex attractants, Sex behavior, Virginia-pine sawfly. 2063-67 EFFECT OF PH ON STERILIZING ACTIVITY OF TEPA AND METEPA IN MALE HOUSE FLIES. A 8 8orkovec S C Chang A M Limburg J Econ Entom 57(6):815-817 Dec 1964 421 J822 Chemosteriiants, Hydrogen-ion concentration, Metepa, Musca domestica, Tepa. 2064-67 THE INFLUENCE OF THE QUEEN ON BROOD REARING IN ANTS OF THE M V 8rian C A H Carr J Insect Physi S(2):81-94, TABS. PAGE - 4

Nov 1960 421 J825 Insect physiology, Insect rearing, Queen ant. 206S-67 STUDIES ON THE DERMESTED SEETLE TROGODERMA GRANARIUM STUDIES ON THE DERMESTED SEETLE TROGODERMA GRANARIUM EVERTS - IV. FEEDING, GROWTH, AND RESPIRATION WITH PARTICULAR REFERENCE TO DIAPAUSE LARVAE. D Burges n D Burges J Insect Physi S(3):317-3J4, 8I8L. 333-334, TA8S. Dec 1967 421 J82S Coleoptera, Diapause, Insect growth, Insect nutrition, Insect respiration, Larvae. 2066-67 THE POTENTIAL PROFILE OF THE INSECT COMPOUND EYE AND OPTIC LOSE. LUGL. E T Burtt W T Catton J Insect Physi 10(S):689-710, 8IBL. 709-710 Oct 1964 421 J82S Blo-electric potential, Brain, Eyes, Optic nerve. 2067-67 POTENTIAL CHANGES IN THE EYE AND OPTIC LOBE OF CERTAIN INSECTS DURING LIGHT- AND DARK-ADAPTATION. E T Burtt W T Catton J Insect Physi 10(6):86S-886, BIBL. B8S-B86 Dec 1964 421 J82S Bio-electric potentiai, 8rain, Eyes, Insect adaptation, Light. 2068-67 AN ELECTROPHYSIOLOGICAL INVESTIGATION OF THE DIVIDED EYE OF AN ELECTROPHYSIOLOGICAL INVE: GYRINUS BICOLOR F. J D Carthy L J Goodman J Insect Physi 10(3):431-436 Jun 1964 421 J82S Coleoptera, Electrophysiology, Eyes. 2069-67 LABORATORY COLONIZATION OF RODENT BOT FLIES (DIPTERA, CUTEREBRIDAE). E P Catts J Med Entom 1(2):195-196 01 Jui 1964 421 JB28 Oestridae. 2070-67 DEFENCE MECHANISMS OF ARTHROPODS-VII. CITRONELLAL AND DEFENCE RECHARISMS OF ARTHROPODS-VII. CITRUNELLAL A CITRAL IN THE MANDIBULAR SGAND SECRETION OF THE ANT ACANTHOMYOPS CLAVIGER (ROGER). M S Chadha T Eisner A Monro J Melnwaid J Insect Physi B(2):175-179, TA8S. Mar 1962 421 JE2S Citrai, Citronelial, Formicidae. 2071-67 INHIBITION OF FLY-HEAD CHOLINESTERASE IN VITRO 8Y PILOCAR-INFIGURE ATROPINE. L E Chadwick J Insect Physi 10(4):S73-S8S, 8IBL. S8S, TABS. Aug 1964 421 J825 Atropine, Choiinesterases, Pilocarpine. 2072-67 772-67 A&SORPTION, EXCRETION, AND META&OLISM OF P32-LA&ELED METEPA 8Y SCREW-WORM AND STABLE FLIES. ₩ F Chamberiain E W Hamiiton J Econ Entom 57(6):800-803, TA85. Dec 1964 421 JB22 Absorption, Cochlio4yia homlnivorax, Excreta, Metabolism, Metepa, Radioactive tracers, Stomoxys calcitrans. 2073-67 ENZYMATIC PATHWAYS IN THE FORMATION OF SORBITOL AND GLYCEROL IN THE DIAPAUSING EGG OF THE SILKWORM, BOMBYX MORI - I. ON THE POLYOL DEHYDROGENASES. J Insect Physi 5(1):1-15, TABS, 8IBL.,1S Oct 1960 421 J825 Giucitoi, Giyceroi, Insect eggs, Poiyoi dehydrogenases, Siikworms. 2074-67 STUDIES ON THE RELATIONSHIPS BETWEEN AIR TEMPERATURE AND THE INTERNAL BODY TEMPERATURE OF LOCUSTA MIGRATORIA. K L Clarke J Insect Physi 5(1):23-36, TABS. Oct 1960 421 J825 Air temperature, Insect physiology, Insect temperature.

10 2097-67

2075-67 NATURAL SEX ATTRACTANT OF THE LESSER PEACH TREE BORER. Corpora cardiaca, Heart rate. M L Cieveiand L L Murdock J Econ Entom 57(5):761-762 Oct 1964 421 JB22 20B7-67 THE RELEASE BY FEEDING OF A PHARMACOLOGICALLY ACTIVE FACTOR FROM THE CORPUS CARDIACUM OF PERIPLANETA AMERICANA. K G Davey J Insect Physi B(2):205-20B Attractants, Sex attractants, Synanthedon pictipes. Mar 1962 421 JB25 Corpora allata, Corpora cardiaca. 2076-67 NOTES ON THE BIOLOGY OF HESPEROTETTIX VIRIDIS. R V Connin J Econ Entom 57(4):606 Aug 1964 421 JB22 Insect biology. 20BB-67 SOME EFFECTS OF CHEMOSTERILANTS ON THE LITTLE HOUSE FLY. H G Davis G W Eddy J Econ Entom 59(4):993-996, TABS. Aug 1966 421 J822 Chemosterilants, Fannia canicularis. 2077-67)77-67 DIEL PATTERNS OF MOSQUITO ACTIVITY IN A HIGH ARCTIC LOCALITY: HA2EN CAMP, ELLESMERE ISLAND, N. W. T. P S Corbet Can Entom 9B(12):123B-1252, BIBL. 1251-1252 Dec 1966 421 C16 2089-67 Arctic regions, Culicidae, Diel, Insect behavior. M Dearden RESPONSE OF CITRUS RED MITE TO CHEMICAL STERILANTS. A W Creasman J Econ Entom 56(1):111-112 Feb 1963 421 JB22 Chemosterilants, Panonychus citri. 2090-67 ADULTS. 2079-67 79-67
CHEMOSTERILANT EFFICIENCY OF BIS(1-A2IRIDINYL)PHOSPHINYL CARBAMATES IN SCREW WORM FLIES.
M M Crystai
J Econ Entom 57(5):726-731, TABS.
Oct 1964 421 JB22
Carbamates, Chemosterilants, Cochliomyla hominivorax. 2091-67 2080-67 ANTIFERTILITY EFFECTS OF ANTHELMINTHICS IN INSECTS. M M Crystai J Econ Entom 57(4):606-607 Aug 1964 421 JB22 Anthelmintics, Fertility. 20B1-67 THE NUTRITIONAL REQUIREMENTS OF LOCUSTS. - III. CARBOHY-DRATE REQUIREMENTS AND UTILIZATION. DRAIE REQUIREMENTS AND DILLZATION. R H Dadd J Insect Physi 5(3):301-316, BIBL. 315-316, TABS. Dec 1960 421 J825 Acrididae, Carbohydrates, Insect morphology, Insect nutrition. 2093-67 2082-67 THE NUTRITIONAL REQUIRMENTS OF LOCUSTS. - II. UTILIZATION OF STEROLS. R H Dadd J Insect Physi 5(3):161-168, TABS Dec 1960 421 JB25 2094-67 Acrididae, Insect nutrition, Insect physiology, Sterois. 2083-67 NG-67 STUDIES ON FEEDING BEHAVIOR OF HOUSE FLIES. D A Dame R L Fye J Econ Entom 57(5):776-777 Oct 1964 421 J822 Feeding, Insect behavior, Musca domestica. 2095-67 20B4-67 D32-LABELED SEMEN FOR MOSQUITO MATING STUDIES. D A Dame C H Schmidt J Econ Entom 57(5):669-672 Oct 1964 421 JB22 Culicidae, Radioactive tracers, Semen, Sex behavior. 2096-67 2085-67 PARTIAL PURIFICATION AND PROPERTIES OF FLYHEAD PARTIAL PURITURITURIAN AND FAULTILE STATES CHOLINESTERASE. W C Dauterman A Talens K van Asperen J Insect Physi B(1):1-14, BIBL. 13-14, TABS. Jan 1962 421 JB25 Choiinesterases, Insect biochemistry, Musca domestica. 2097-67 2086-67 THE NERVOUS PATHWAY INVOLVED IN THE RELEASE BY FEEDING OF A PHARMACOLOGICALLY ACTIVE FACTOR FROM THE CORPUS CARDIACUM OF PERIPLANETA. K G Davey J Insect Physi 8(5):579-583 Sep 1962 421 J825 Carbohydrases, Gastrointestinai system.

EXPERIMENTS ON THE EFFECT OF FARNESOL ON THE DEVELOPMENT OF NORMAL AND BAR-EYED DROSOPHILA. J Insect Physi 10(2):195-210, BIBL. 209-210, TABS. Apr 1964 421 JB25 Farnesoi, Insect morphology. FEEDING STIMULANT FOR WESTERN AND NORTHERN CORN ROOTWORM ADULIS. R F Derr D D Randall R W Kieckhefer J Econ Entom 57(6):963-965, TABS. Dec 1964 421 J822 Diabrotica iongicornis, Diabrotica virgifera, Feeding, Insect adults. MASS REARING OF DAPHNIA MAGNA FOR INSECTICIDE BIOASSAY. D E Devey B L Parker J E Coney B L Parker J Econ Entom 57(6):821-825, BIBL. B25, TABS. Dec 1964 421 J822 Biological assay, Insect rearing. 2092-67 THE EFFECT OF STANDARD COLD STORAGE AND CONTROLLED ATMOSPHERE STORAGE ON SURVIVAL OF LARVAE OF THE ORIENTAL FRUIT MOTH, GRAPHOLITA MOLESTA. FRUIT MUTH, GRAPHULIN HULLIN. G G Dustan J Econ Entom 56(2):167-169 Apr 1963 421 J822 Cold storage, Controlled atmosphere storage, Grapholitha molesta, Larvae. 93-67 INITIATION OF DIAPAUSE IN THE BOLL WEEVIL. N W Earle L D Newsom J Insect Physi 10(1):131-139, TABS. Feb 1964 421 J825 Diapause, Insect behavior. 194-67 TEMPERATURE AND THE ACTION OF DDT ON THE NERVOUS SYSTEM OF PERIPLANETA AMERICANA (L.). J L Eaton J Sternburg J Insect Physi 10(3):471-485, BIBL. 484-485 Jun 1964 421 JB25 Insect temperature, DDT , Nervous system. 195-67 THE BOBY TEMPERATURE OF THE TSETSE FLY, GLOSSINA MORSITANS WESTWOOD (DIPTERA, MUSCIDAE). E B Edney R Barrass J Insect Physi 8(4):469-481, TABS. Jui 1962 421 J825 Insect temperature, Spiracies. J95-67 A NOTE ON WATER UPTAKE AND GUSTATORY DISCRMINATION IN A PREDATORY REDUVIID (HEMIPTERA). J S Edwards J Insect Physi 8(1):113-115 Jan 1962 421 J825 Insect water use, Taste testing. CARBOHYDRASES OF THE ALIMENTARY TRACT OF THE DESERT LOCUST. SCHISTOCERCA GREGARIA FORSK. W A L Evans D W Payne J Insect Physi 10(5):657-674, BIBL. 673-674, TABS. Oct 1964 421 J825

10 2098-67 2098-67 BOLL WEEVIL OVIPOSITION RESPONSES IN COTTON SQUARES AND VARIOUS OTHER SUSSTRATES. T R Everett N W Earle J Econ Entom 57(5):651-656, TA8S. Oct 1966 421 J822 Anthonomus grandis, Cotton, Oviposition, Substrates. 2099-67 AN INHERITED 8EHAVIORAL VARIANT IN THE 80LL WEEVIL. T R Everett J Econ Entom 57(5):760-761 Anthonomus grandis, Insect behavior. 2100-67 REARING AND ISOTOPIC LABELING OF FANNIA CANICULARIS. R W Fay J W Kiipatrick J T Baker J Econ Entom 56(1):69-71 Feb 1963 421 J822 Insect rearing, Radioactive tracers. 2101-67 THE REARING OF THE VARIEGATED CUTWORM, PERIDROMA SAUCIA, IN THE LABORATORY. G L Finney J Econ Entom 57(5):788-790 Oct 1964 42I J822 Insect rearing, Peridroma saucia. 2102-67 THE EFFECT OF PHOTOPERIOD, LIGHT INTENSITY, AND TEMPERATURE ON COPULATION, OVIPOSITION, AND FERTILITY OF THE MEXICAN FRUIT FLY. N E Fiitters J Econ Entom J Econ Entom 57(6):811-813 Dec 1964 421 J822 Anastrepha iudens, Fertility, Light, Oviposition, Photoperiodism, Sex behavior, Temperature. 2103-67 103-67 SOME ASPECTS OF THE MATING AND OVIPOSITION 8EHAVIOR OF THE CODLING MOTH, CARPOCAPSA POMONELLA. R D Genring H F Madsen J Econ Entom 56(2):140-143 Apr 1963 421 J822 Carpocapsa pomoneila, Oviposition, Sex behavior. 2104-67 SOME EFFECTS OF GAMMA IRRADIATION ON THE GYPSY MOTH, POR-SUME EFFECTS OF GAMMA IRRADIATION ON THE GY THETRIA DISPAR. P A Godwin H D Ruie W E Waters J Econ Entom 57(6):986-990, TA8S. Dec 1964 421 J822 Gamma rays, Irradiation, Porthetria dispar. 2105-67 CHEMICALS AFFECTING FERTILITY IN ADULT HOUSE FLIES. H K Gouck G C La8recque J Econ Entom 57(5):663-664 Oct 1964 421 J822 Chemosteriiants, Fertility. 2106-67 THE CONTROL OF SPONTANEOUS LOCOMOTOR ACTIVITY IN PHORMIA REGINA MEIGEN-I. LOCOMOTOR ACTIVITY PATTERNS OF INTACT FLIES. FLIES. G W Green J Insect Physi 10(5):711-726, 818L. 725-726, PL. Oct 1964 421 J825 insect flight, Locomotion. 2107-67 INTERGRANULAR SPACE AS A LIMITING FACTOR FOR THE GROWTH OF INTERGRANULAR SPACE AS A LIMITING FACTOR PULSE 8EETLES. H R Gundurao S K Majumder J Econ Entom 57(6):1013-1014 Dec 1964 421 J822 Grain, Insect morphology, Puise beeties, Stored-product insects. 2108-67 REGENERATIVE GROWTH IN INSECT NERVE AXONS. J M Guthrie J Insect Physi 8(1):79-92, TA8S. Jan 1962 421 J825 insect physiology, Nerves, Regeneration.

2109-67 109-67 COMPOSITION OF THE OOTHECAE OF THREE ORTHOPTERA. R H Hackmann M Goldberg J Insect Physi 5(1):73-78, Bi8L. 77-78 Oct 1960 421 J825 Insect physiology, Oothecae. 2110-67 ANALYSIS OF SONGS OF JAPANESE CIÇADAS. J Insect Physi 5(3):259-263 Dec 1960 421 J825 Cicadas, Japan, Stridulation. 2111-67 STERILIZATION OF THE FACE FLY, MUSCA AUTUMNALIS, WITH STERILIZATION OF THE FACE FLY, MUSCA AUTOMNALIS, APHOLATE AND TEPA. J A Hair T R Adkins Jr J Econ Entom 57(4):586-589, TA8S. Aug I964 421 J822 Apholate, Musca autumnalis, Sterilization, Tepa. 2112-67 UCID HARDINESS IN THE EUROPEAN CORN BORER, PYRAUSTA NUBILALIS (HUBN.). W Hanec S_D Beck J Insect Physi 5(3):169-180, 818L., 179-180, TA8S. Dec 1960 421 J825 European corn borers, Insect hardiness, Larvae. 2113-67 OSSERVATION ON THE GROSS INNERVATION OF THE FIREFLY LIGHT ORGAN. Jr., F E Hanson J Insect Physi 8(1):105-111 Jan 1962 421 J825 Lampyridae, Nerves. 2114-67 114-67 EFFECT OF LINDANE ON THE INTRACELLULAR MICROORGANISMS OF THE AMERICAN COCKROACH, PERIPLANETA AMERICANA. J C Harshbarger A J Forgash J Econ Entom 57(6):994-995, 81±L. 994-995 Dec 1964 421 J822 Lindane, Microorganisms, Periplaneta americana. 2115-67 EFFECT OF LINDANE ON INTESTINAL MICROORGANISMS OF THE AMER-ICAN COCKROACH, PERIPLANETA AMERICANA. J C Harshbarger A J Forgash J Con arshoarger A J rorgash J Con Entom 57(5):779-780 Oct 1964 421 J822 Lindane, Microorganisms, Peripianeta americana. 2116-67 FEEDING, DIGESTION, GLYCOGEN AND THE ENVIRONMENTAL CONDIT-IONS OF THE DIGESTIVE SYSTEM IN ONISCUS ASELLUS. R Hartenstein J Insect Physi 10(4):611-621, 818L. 620-621 Aug 1964 421 J825 Environment, Feeding, Gastrointestinai system, Giycogen. 2117-67 HISTOCHEMICAL AND SPECTROPHOTOMETRICAL STUDIES ON SEVERAL DEHYDROGENASES OF CARBOHYDRATE METABOLISM IN ONISCUS ASELLUS. ASELLUS. R Hartenstein J Insect Physi 10(4):623-631 Aug 1964 421 J825 Carbohydrates, Dehydrogenases, Histochemistry, Insect metabolism, Spectrophotometry. 2118-67 LI8-67 LABORATORY OBSERVATIONS ON FACTORS AFFECTING THE MOVEMENTS OF HOPPERS OF THE DESERT LOCUST. P T Haskeil M ₩ J Paskin J E Moorhouse J Insect Physi 8(1):53-78, 818L. 76-78, TA8S Jan 1962 421 J825 Insect tropism, Schistocerca gregaria, Wind tunneis. 2119-67 EFFECTS OF GAMMA RADIATION ON THE FERTILITY OF THE TWO-SPOTTED SPIDER MITE AND ITS PROGENY. T J Henneberry J Econ Entom 57(5):672-674 Oct 1964 421 J822

Fertility, Gamma rays, Irradiation, Tetranychus urticae.

10 2141-67

2120-67 SOME EFFECTS OF GAMMA RADIATION AND A CHEMOSTERILANT ON THE 2I31-67 THE HAEMOCYTES OF THE ACARID MITE CALOGLYPHUS BERLESEI THE MARMUCTLES OF THE ACARLE FILE (MICH. 1903). K Kanungo J A Naegeie J Insect Physi 10(4):651-65S, PLS. Aug 1964 42I JB2S Acarid mite, Mites. MEXICAN BEAN BEETLE. T J Henneberry F F Smith W L McGovern J Econ Entom 57(6):BI3-BI5, TABS. Dec 1964 421 JB22 Chemosteriiants, Epilachna varivestis, Gamma rays, Irradiation. 2132-67 132-67 NUTRITIONALLY ESSENTIAL AND NON-ESSENTIAL AMINO ACIDS FUR THE PRAIRIE GRAIN WIREWORM, CTENICERA DESTRUCTOR BROWN, DETERMINED WITH GLUCOSE-U-C14. R Kasting G R F Davis A J McGinnis J Insect Physi B(6):SB9-596, BIBL. 595-596, TABS. Nov 1962 421 JB25 Amino acids, Insect nutrition. 2121-67 ADAPTATION OF THE ABUTILON WHITEFLY FOR LABORATORY USE. E M Hiidebrand Piant Dis R 49(S):429-432 15 May 1965 I.9 P69P Abutiion whitefiy, Insect vectors. 2122-67 122-67 CRYPTOBIOSIS IN THE LARVA OF POLYPEDILUM VANDERPLANKI (HINT.) (CHIRONOMIDAE). H E Hinton J Insect Physi 5(3):286-300, TABS. Dec 1960 42I JB2S Crytobiosis, Dehydration (physiologicai), Insect morphology, Larvee 2133-67 TYROSINASE IN THE SILKWORM DURING THE PUPATION PERIOD. S Kawase J Insect Physi 5(3):335-340, PL., TABS. Dec 1960 421 JB25 Haemocytes, Insect physiology, Phenoiases, Pupae, Siikworms. Larvae. 2134-67 134-67 A SEX ATTRACTACTANT FOR FEMALE BOLL WEEVILS FROM MALES. J C Keiier E B Mitcheil G McKibben T B Davich J Econ Entom S7(4):609-610 Aug 1964 421 JB22 2123-67 THE NUTRITION OF CHOLINE, CARNITINE, AND RELATED COMPOUNDS IN THE BLOWFLY, PHORMA REGINA MEIGEN. E Hodgson W C Dauterman J Insect Physi 10(6):100S-I00B Dec 1964 421 JB2S Anthonomus grandis, Attractants, Sex attractants. 2135-67 A BOLL WEEVIL ATTRACTANT FROM COTTON. J C Keller F G Maxweii J N Jenkins T B Davich J Econ Entom 56(1):110-111 Feb 1963 421 JB22 Carnitine, Choiine, Insect nutrition. 2124-67 L24-67 EFFECTS ON THE PARASITOID AGRIA AFFINIS (FALL.) (DIPTERA: SARCOPHAGIDAE) OF SMALL MOLECULES IN DIETS. H L House J S Bariow J Insect Physi 10(2):255-260, BIBL. 259-260 Anthonomus grandis, Attractants, Cotton. Apr 1964 421 JB25 Insect nutrition, Parasitic insects, Sarcophagidae. 2136-67 STUDIES ON DIGESTIVE ENZYME PRODUCTIONS AND ITS RELATIONSHIP TO THE CYTOLOGY OF THE MIDGUT EDITAL THELIUM IN DYSDERCUS FASCIATUS SIGN. (HEMIPTERA, PYRRHOCORIDAE). M R Khan J B Ford J Insect Physi B(6):S97-60B, BIBL. 607-60B, TABS. Nov 1962 421 JB25 2125-67 AN INVESTIGATION INTO THE MODE OF ACTION OF THE SUBGENUAL ORGAN IN THE TERMITE, ZODTERMOPSIS ANGUSTICOLLIS EMERSON, AND IN THE COCKROACH, PERIPLANETA AMERICANA L. Cytology, Insect digestion. P E Howse J Insect Physi 10(3):409-424, BIBL. 423-424, TRACINGS Jun 1964 421 JB25 2137-67 A GROWTH FACTOR IN ROMAINE LETTUCE FOR THE GRASSHOPPERS MELANOPLUS SAGUINIPES (F.) AND M. BIVITTATUS (SAY). Subgenuai organ, Termites. J B Kreasky J Insect Physi B(5):493-504, BIBL. 503-504, TABS. Sep 1962 421 JB2S Growth factors, Insect nutrition. 2126-67 VISUAL RESPONSE PATTERNS OF SINGLE GANGLION CELLS IN THE OPTIC LOBE OF THE SILKWORM MOTH, BOMBYX MORI L. S Ishikawa J Insect Physi B(5):485-491, PL. Sep I962 421 JB25 Gangiion cells, Optic nerve. 2138-67 139-67 EFFECT OF TEMPERATURE ON THE PERIODIC HEARTBEAT REVEKSAL AND HEART RATE IN CORETRA PLUMICORNIS (DIPTERA). K Lagerspetz V Perttunen J Insect Physi B(6):621-625 Nov I962 421 JB2S Heart rate, Insect temperature. 2127-67 EFFECT OF SUGARS ON FEEDING OF LARVAE OF THE SILKWORM. BOMBYX MORI. J Insect Physi 5(2):95-107, BIBL. 106-107 Nov I960 42I JE25 Insect nutrition, Insect physiology, Larvae, Siikworms, 2139-67 ENZYMES IN THE BOLL WEEVIL-I. DEHYDROGENASES OF THE BRAIN AND RELATED STRUCTURES. E N Lambremont Mar 1962 421 JB2S 2128-67 128-67 NUTRITION OF THE SILKWORM, BOMBYX MORI-VII. AN ASEPTIC CULTURE OF LARVAE ON SEMI-SYNTHETIC DIETS. T Ito Y Horie J Insect Physi B(5):569-57B, BIBL. 577-57B, TABS. Sep 1962 42I JE2S Antisepsis, Synthetic diets. Anthonomus grandis, Dehydrogenases. 2140-67 THE FIRE STRUCTURE OF THE LABELLAR CHEMOSENSORY HAIRS OF THE BLOWFLY, PHORMIA REGINA MEIG. J R Larsen J Insect Physi B(6):683-691, BIBL. 690-691, PL. Nov I962 42I JB25 Chemoreceptors, Hair. 2129-67 EFFECTS OF STEROLS ON FEEDING AND NUTRITION OF THE SILKWORM, BOMBYX MORI L. T Ito K Kawashima M Nakahara K Nakanishi A Terahara J Insect Physi IO(2):225-23B, BIBL. 237-23B, TABS. Apr 1964 421 JB25 214I-67 AUTOGENY IN AEDES (FINLAYA) TOGOI THEOBALD (DIPTERA, CULICIDAE). B R Laurence Feeding, Insect nutrition, Sterols. J Insect Physi 10(2):319-331, BIBL. 330-331 Apr 1964 421 JB2S Autogeny, Reproduction. 2130-67 PFFECT OF ORGANIC CONTENT IN THE LARVAL MEDIUM ON THE PRODUCTION OF TWO SPECIES OF HIPPELATES. E G Jay Jr J Econ Entom S6(2):127-129 Apr 1963 42I JB22 Cuiture media, Insect rearing, Larvae.

2142-67 TOLERANCE TO FREEZING OF HYDRATED AND PARTIALLY HYDRATED LARVAE OF POLYPEDILUM (CHIRONOMIDAE). J P Leader J Insect Physi B(2):1SS-I63, BiBL. I62~I63, TABS. Mar 1962 42I JB25 Hydrates, Insect acciimatization. 2143-67 PHOSPHORYLETHANOLAMINE AND PHOSPHORYLCHOLINE IN THE HAEMO~ LYMPH OF LARVAE OF GALLERIA MELLONELLA L. DURING STARVA~ TION. E Lenartowicz S Niemierko J Insect Physi IO(5):B31-B37 Oct 1964 421 JB2S Blood chemistry, Larvae, Phosphorylcholine, Phosphorylethanoiamlne, Starvation. 2144-67 DISTRIBUTION OF NON-HYDROLYSABLE PHOSPHORUS COMPOUNDS IN THE BODY OF GALLERIA MELLONELLA L. LARVAE. E Lenartowicz B Rudzisz S Niemierko J Insect Physi IO(1):B9-96, BIBL. 96 Feb 1964 421 JB2S Hydrolysis, Larvae, Phosphorus compounds. 214S - 67THE DISTRIBUTION OF FREE ÅMINO ACIDS, GLUTAMINE, AND GLUTAMATE IN THE SOUTHERN ARMYWORM, PRODENIA ERIDANIA. L Levenbook J Insect Physi B(S):SS9-S67, BIBL. S66-567 Sep I962 421 JB2S Giutamate, Giutaminc. 2146-67 THE FUNCTION OF DIETARY STEROLS IN PHYTOPHAGOUS INSECTS. Z H Levinson 2 n Levinson J Insect Physi B(2):I91-I9B, BIBL. 197-I9B, TABS. Mar 1962 421 JB2S Phytophagous insects. 2147~67 LABORATORY STUDIES ON STERILIZATION OF THE BOLL WEEVIL WITH APHOLATE. Arnolaist L J Gorzyci M S Mayer A L Scales T B Davich J Econ Entom 57(S):745-750, TABS. Oct 1964 42I JB22 Anthonomus grandis, Apholate, Sterilization. 2148-67 NOTES ON EPINOTIA NANANA TREITSCHKE (LEPIDOPŤERA: OLETHEREUTIDAE), AND KEYS TO THE IMMATURE STAGES OF FOUR NEEDLE MINERS OF SPRUCE IN ONTARIO. O H Lindquist A A Harnden Can Entom 9B(12):1313-1315 Dec 1966 421 C16 Needie miners, Ontario, Picea, Picea. 2149 - 6749-67 PROGRAMMED CELL DEATH- I. ENDOCRINE POTENTIATION OF THE BREAKDOWN OF THE INTERSEGMENTAL MUSCLES OF SILKMOTHS. R A Lockshin C M Wiliiams J Insect Physi IO(4):643-649 Aug 1964 42I JB2S Celis, Death, Hormones, Muscles, Potentiation, Silkmoths. 2150-67 THE ACCEPTABILITY OF SOME FATS AND OILS AS FOOD TO IMPORTED FIRE ANTS. C S Lofgren F J Bartiett C E Stringer J Econ Entom 57(4):601-602, TABS. Aug 1964 421 JB22 Attractants, Fats, Dils, Solenopsis saevissima richteri. 21SI~67 MEASUREMENTS OF THE INCUBATION PERIOD OF CORN EARWORM EGGS. ∀ H Luckmann J Econ Entom 56(1):60-62 Feb 1963 421 J822 Heliothis zea, Incubation, Insect eggs. 2152-67 RELATION OF SEMEN VOLUME TO SUCCESS IN ARTIFICIAL INSEMI-NATION OF QUEEN HONEY BEES. 0 Mackensen J Econ Entom 57(4):581-583 Aug 1964 421 J822 Apis meilifera (L.), Artificial insemination, Queen bees, Semen.

2153-67 PROLONGED RESISTANCE IN THE HOUSE FLY AND BED BUG. PROLUNGED RESISTANCE IN THE HOUSE FLY AND BED BUG A Mailis A C Milier J Econ Entom 57(4):608-609 Aug 1964 421 JB22 Cimex lectularius, Insecticide resistant insects, Musca domestica. 2154-67 54-67 FREE AMINO ACID AND AMIDE COMPOSITION OF PEA LEAF JUICE, PEA APHID HAEMOLYMPH, AND HONEYDEW, FOLLOWING THE REARING OF APHIDS ON SINGLE PEA LEAVES TREATED WITH AMINO COMPOUNDS. J B Maitais J L Auciair J Insect Physi B(4):391-399 Jui 1962 421 JB25 Amides, Amino acids, Honeydew. 2155-67 FOOD PREFERENCE STUDIES WITH TROGODERMA INCLUSUM, A PEST OF THE DRY MILK INDUSTRY. F O Marzke J Econ Entom S6(I):109 Feb 1963 421 JB22 Dried milk, Food preferences (insects), Insect nutrition. 2156-67 NUTRITION AND FEEDING BEHAVIOR OF THE ADULT ONION MAGGOT. HYLEMYA ANTIQUA. D G R McLeod J Econ Entom S7(6):B45-B47 Dec 1964 421 JB22 Feeding, Hyiemya antiqua, Insect behavior, Insect nutrition. 2157-67 DEVELOPMENT OF THE CHOLINERGIC SYSTEM IN INSECT EGGS. K N Mehrotra J Insect Physi S(2):129-142 Nov 1960 421 JB2S Acetyicholine, Acetyicholinesterases, Cholinergic system, Insect eggs, Insect physiology. 21SB-67 THE EFFECTS OF CHOLINERGIC SUBSTANCES UPON THE ISOLATED HEART OF PERIPLANETA AMERICANA. R L Metcaif M Y Winton T R Fukuto J Insect Physi 10(2):353-361, BIBL. 360-361 Apr 1964 421 JB2S Acetyichoiine, Choiinergic substances, Dorsai vessei. 2159-67 STUDIES ON THE SALIVARY PHYSIOLOGY OF PLANT BUGS: THE CHEM-ISTRY OF FORMATION OF THE SHEATH MATERIAL. ISTRY OF FURNELLY OF THE SHEATH MATERIAL. P W Miles J Insect Physi 10(1):147-I60, BIBL. I59-I60, TABS. Feb 1964 42I JB2S Salivary glands (insects). 2160-67 160-67 THE EFFECT OF BARLEY YELLOW DWARF VIRUS ON THE BIOLOGY OF ITS VECTOR THE ENGLISH GRAIN APHID, MACROSIPHUM GRANARIUM. J W Milier B F Coon J Econ Entom 57(6):970-974, TABS. Dec 1964 421 JB22 Insect biology, Insect vectors, Macrosiphum avenae, Yellow dwarf (barley). 2161-67 POPULATION STRUCTURE AND DYNAMICS OF LAELAPS NUTTALLI ~ HIRST AND LAELAPS ECHIDNINUS-BERLESE (ACARINA: LAELAPTIDAE) ON RATTUS AND RATTUS EXULANS IN HAWAII. C J Mitcheii J Med Entom I(2):ISI-IS3 OI Jui 1964 421 JB28 Hawaii, Insect population. 2162~67 62-67 END PRODUCTS OF METABOLISM IN THE BOLL WEEVIL, ANTHONOMUS GRANDIS BOHEMAN: NON-PROTEIN AMINO ACIDS IN THE FAECES. N Mitlin D H Vickers P A Hedin J Insect Physi IO(2):393-397 Apr 1964 42I JB25 Amino acids, Feces. 2163-67 163-67 EFFECT ON BOLL WEEVIL PROGENY OF CHOLESTEROL ADDED TO THE ADULT DIET AS A POWDER OR AN ETHER SOLUTION. R F Moore Jr H M Taft F F Whismant J Econ Entom S7(6):1005 Dec 1964 42I JB22

10 2142-67

10 2185-67

Anthonomus grandis, Choiesterol, Ethyi ether, Insect diets. Amino acids. Hematology. 2164-67 2175-67 RHODANESE IN THE BLOW-FLY, CALLIPHORA VOMITOHIA L. J Parsons M Rothschild VOLATILE TERPENES FROM NASUTITERMES SOLDIERS (ISOPTERA, TERMITIDAE). 8 P Moore J Insect Physi 10(2):371-375 Apr 1964 421 J825 Terpenes, Volatile substances. J Insect Physi B (3):285-286 May 1962 421 J825 Cailiphoridae, Thiosulfate sulfurtransferase. 2176-67 TRANSGLYCOSYLATION IN THE DESERT LOCUST, SCHISTOCERCA GREGARIA FORSK. D W Payne W A L Evans J Insect Physi 10(5):675-68B, 818L. 487-48B, TA8S. Oct 1964 421 JB25 2165-67 EFFECT OF TEPA AND METEPA ON OVARIAN DEVELOPMENT OF HOUSE FILES. P B Morgan G C LaBrecque J Econ Entom 57(6):896-B99 Dec 1964 421 J822 Metepa, Musca domestica, Ovaries, Tepa. Biochemistry, Enzymology, Transglycosylation. 2177-67 177-67 A MECHANISM DF RESISTANCE TO ISOLAN IN THE HUUSE FLY. F W Plapp Jr G A Chapman W S Bigley J Econ Entom 57(j):692-695, TABS. Oct 1964 421 J822 Insecticide resistant Insects, Isolan, Musca domestica. 2166-67 FEEDING ON FILTER PAPER BY LARVAE OF THE SILKWORM BOMBYX. Mori L. M Nimura T Ito Mori L. M Nimura T Ito J Insect Physi 1D(3):425-430, 8IBL. 429-43D, TA8S. Jun 1964 421 JB2S Feeding, Filter paper, Insect nutrition, Larvae. 2178-67 STUDIES ON THE DIGESTIVE PROTEINASE OF CLOTHES MOTH LARVAE (TINEOLA BISSELLIELLA)-I. PARTIAL PURIFICATION OF THE 2167-67 AMYLASE OF DIGESTIVE JUICE AND UTILIZATION OF DEXTRIN AND AMYLASE OF DIGESTIVE JUICE AND UTILIZATION OF DEXTI STARCH IN THE SILKWORM, BOMBYX MORI L. F Mukaiyama H Yasuhiro T Ito J Insect Physi 10(2):247-254, BIBL. 253-254, TABS. Apr 1964 421 JB25 Amylases, Dextrins, Digestion, Starches. PROTEINASE. R F Powning H Irzykiewicz J Insect Physi 8(3):267-274, TA85 May 1962 421 J825 Insect nutrition, Proteinases. 2168-67 2179-67 168-67 A HISTOLOGICAL AND HISTOCHEMICAL STUDY OF THE LARVAL FAT BODY OF ANTHRENUS VORAX WATERHOUSE (DERMESTIDAE, COLEOPTERA). K S S Nair J C George J Insect Physi 10(3):559-517, BIBL. 516-517, PLS. Jun 1964 421 JB25 Fat body, Histochemistry, Insect histology, Larvae. LONGEVITY AND FECUNDITY OF THE ARMY CUTWORM. K P Pruess A F Fruess J Econ Entom S6(2):219-221 Apr 1963 421 JB22 Chorizagrotis auxillaris, Fertility, Food, Longevity, Oviposition, Temperature. 2169-67 2180-67 THE CHEMICAL BASIS OF HOSTPLANT SELECTION IN THE SILKWORM. RESISTANCE OF TOBACCO HORNWORMS TO CERTAIN INSECTICIDES IN NORTH CAROLINA. R L Rabb F E Guthrie J Econ Entom S7(6):995-996 Dec 1964 421 J822 BOMBYX MORI (L.). J K Nayar G Fraenkel J Insect Physi 8(5):505-525, BIBL. S23-525, TA8S. Sep 1962 421 J825 Attractants, Chromatography, Hostplant. Insecticide resistant insects, Insecticides, North carolina, 2170-67 21B1-67 (70-67) ARTIFICIAL DIETS FOR THE APPLE MAGGOT, RHAGOLETIS POMONELLA II. REPRODUCTIVE POTENTIAL. W T A Nelison J W McAlian J Econ Entom 57(6):9D4-905 Dec 1964 421 J822 Insect dlets, Reproduction, Rhagoletis pomonelia. 181-67 THE EFFECT OF TEMPERATURE ON THE OXYGEN CONSUMPTION OF TSETSE PUPAE. P K Rajagopai E Burseli Buli Entomoi R 56(2):219-225 Dec 1965 421 887 Glossina, Insect metabolism. 2182-67 RESPIRATORY METABOLISH DURING EMBRYOGENESIS OF A DIAPAUSE 2171-67 (71-67) THE INFLUENCE OF JUVENILE HORMONE ON THE OXYGEN CONSUMPTION OF THE LAST LARVAL INSTAR OF PYRRHOCORIS APTERUS L. V J A Novak K Siama J Insect Physi 8(2):145-153, 818L. 152-153 Mar 1962 421 J825 Corpora aliata, Juvenile hormone. SPECIES OF FIELD CRICKET, GRYLLUS PENNSYLVANICUS BURMEISTER (ORTHOPTERA, GRYLLIDAE). R Rakshpal J Insect Physi 8(3):217-221 May 1962 421 JB2S Diapause, Insect metabolism, Insect respiration. 2172-67 THE INFLUENCE OF NUTRITIONAL AND HORMUNAL FACTORS ON THE CHEMISTRY OF:THE FAT BODY, BLOOD, AND OVARIES OF THE BLOWFLY PHORMA REGINA MEIG. 2183-67 HEART ACCELERATORS AND DECELERATORS IN THE NERVOUS SYSTEM OF PERIPLANETA AMERICANA (L.). PHORMA REGIME ACLOS C W OT J Insect Physi 1D(1):1D3-119, 8I6L. 11B-119, TABS. Feb 1964 421 J82S Blood chemistry, Fat body, Insect hormones, Insect nutrition, Ovaries. C L Ralph J Insect Physi B(4):431-439, 8IBL. 439 Jul 1962 421 JB25 Heart rate, Hormones. 2184-67 THE FREE AMINO ACID POOL OF THE COCKROACH (PERIPLANETA AME-RICANA) CENTRAL NERVOUS SYSTEM AND THE EFFECT OF INSECTICIDES. 2173-67 THE INFLUENCE OF NUTRITIONAL AND HORMONAL FACTORS ON EGG DEVELOPMENT IN THE BLOWFLY PHORMA REGINA (MEIG.). C W M Orr J Insect Physi 10(1):S3-64, 8IBL. 63-64, TA8S., PLS. Feb 1964 421 JB2S Insect eggs, Insect hormones, Insect morphology, Insect nutrition. J W Ray J Insect Physi 1D(4):SB7-597, BI8L. 596-S97, TABS. Aug 1964 421 J825 Amino acids, Central nervous system, Insecticides. 21BS-67 CONCENTRATE MEDIA FOR REARING RED-BANDED LEAF ROLLER. 2174-67 (Y=5)/ FREE AMINO ACIDS OF THE HAEMOLYMPH OF SOME INSECTS. R Pant H C Agrowal J Insect Physi 10(3):443-446 Jun 1964 421 J825 R E Redfern J Econ Entom S6(2):240-241 Apr 1963 421 JB22 Argyrotaenia velutinana, Culture media, Insect rearing.

2186-67 REARING THE FALL ARHYWORH UNDER GREENHOUSE CONDITIONS. REARING THE FALL ARHYWORH UNDER GREENHOUSE CONDITIONS. M A Reveio E S Raun J Econ Entom 57(6):1000 Dec 1964 421 JB22 Greenhouse culture, Insect rearing, Spodoptera frugiperda. 2187-67 A NOTE ON THE NOCTURNAL RESTING SITES OF GLOSSINA MORSITANS WESTW. IN THE REPUBLIC OF ZAMBIA. G G Robinson Buii Entomol R S6(2):3S1-3SS, TABS. Dec 196S 421 BB7 Glossina, Insect behavlor, Zambia. 21BB-67 ASPECTS OF THE NOCTUID TYHPANIC NERVE RESPONSE HAVING SIGNI-FICANCE IN THE AVOIDANCE OF BATS. FIGANCE IN THE AVOIDANCE OF BAIS. K D Roeder J Insect Physi 10(4):S29-546, PLS. Aug 1964 421 JB25 Bais, Insect protective devices, Hoths, Nervous system. 2189-67 A SEX PHEROHONE IN THE HOUSEFLY, HUSCA DOHESTICA L. W H Rogoff A D Beitz J O Johnson F W Piapp J Insect Physi 10(2):239-246, BIBL. 245-246, TABS. Apr 1964 421 JB2S Attractants, Sex attractants. 2190-67 CONTROL OF REPRODUCTION IN FEMALE COCKROACHES WITH SPECIAL REFERENCE TO NAUPHOETA CINEREA-I. FIRST PRE-OVIPOSITION PERIOD. L H Roth J Insect Physi 10(6):915-945, BIBL. 944-945, TABS. Dec 1964 421 JB2S Insect physiciogy, Reproduction. 2191-67 THE EFFECT OF THE AGE OF FEHALE NASONIA VITRIPENNIS (WALKER) (HYHENOPTERA, PTEROHALIDAE) UPON THE INCIDENCE OF LARVAL DIAPAUSE. D S Saunders J Insect Physi B(3):309-31B, BIBL. 317-31B, TABS. Hay 1962 421 JB2S Diapause. 2192-67 RADIOSTERILATION VS. CHEHOSTERILIZATION IN HOUSE FLIES AND HOSQUITOES. C H Schmidt D A Dame D E Weidhaas J Econ Entom 57(5):783-756, TABS. Oct 1964 421 JB22 Chemosteriiants, Culicidae, Husca domestica, Radiation, Steriiization. 2193-67 ELECTROPHYSIOLOGICAL INVESTIGATION ON THE OLFACTORY SPECIFICITY OF SEXUAL ATTRACTING SUBSTANCES IN DIFFERENT SPECIES OF HOTHS. D Schneider J Insect Physi B(1):1S-30, BIBL. 29-30, TABS. Jan 1962 421 JB2S Electrophysiology, Insect physiology, Hoths, Sex attractants. 2194 - 67THE FATE OF THE BLOOD CELLS DURING THE LIFE HISTORY OF SIALIS LUTARIA L. B J Selman J Insect Physi B(2):209-214, TABS., PL. Mar 1962 421 JB2S Blood cells, Life cycie. 2195-67 EFFECT OF TEHPERATURE ON FECUNDITY OF TWO STRAINS OF THE GREENBUG. S R Singh E A Wood Jr J Econ Entom 56(1):109-110 Feb 1963 421 JB22 Fertility, Schizaphis graminum, Temperature. 2196-67 HORMONAL CONTROL OF RESPIRATORY METABOLISM DURING GROWTH, REPRODUCTION, AND DIAPAUSE IN FEHALE ADULTS OF PYRROCORIS APTERIS L. (HEHIPTERA). н Галар J Insect Physi 10(2):283-303, BIBL. 301-303 Арг 1964 421 JB2S PAGE TO

10 2186-67

Diapause, Hormones, Insect morphology, Insect respiration, Reproduction. 2197-67 PHYSIOLOGY OF SAWFLY HETAMORPHOSIS. - I. CONTINUOUS RE-SPIRATION IN DIAPAUSING PREPUPAE AND PUPAE. K Siama J Insect Physi S(3):341-34B Dec 1960 421 JB25 Argidae, Diapause, Insect physiology, Insect respiration, Hetamorphosis, Pupae. 2198-67 URIC ACID AND URATE STORAGE IN THE LARVA OF CHRYSOPA CARWEA STEPHENS (NEUROPTERA, CHRYSOPIDAE). P E Spiegier P L Spiegier
J Insect Physi B(2):127-132
Har 1962 421 J82S
Uric acid. 2199-67 BIOLOGY OF THE HARLEQUIN BUG, MURGANTIA HISTRIUNICA. F A Sreams D Plmentei J Econ Entom S6(1):10B-109 Feb 1963 421 JB22 Insect biology, Murgantia histrionica. 2200-67 CHARACTERISTICS OF INVERTASE FROM THE ALIHENTARY CANAL OF THE PEA APHID, ACYRTHOSIPHON PISUH (HARR.) (HOMOPTERA, APHIDIDAE). APRIDIDAL). P N Srivastava J L Auciair J Insect Physi B(5):S27-S3S, BIBL. S34-S3S, TABS. Sep 1962 421 JB2S Biokinetics, GastroIntestinai system, Invertase. 2201-67 PHYSIOLOGY OF EXCRETION IN THE LARVA OF CORCYRA CEPHALUNICA FILSTOLDST OF EXCRETION IN THE EARLY OF CONCINN CEPHALISSTAINTON (LEPIDDFERA, PYRALIDAE). P N Srivastava J Insect Physi B(3):223-232, BIBL. 231-232, TABS., PL. Hay 1962 421 JB25 Excreta. 2202-67 502-67 INSECT TOLERANCE TO INCREASED ATHOSPHERIC PRESSURES. R J Starkweather W N Sullivan J Econ Entom S7(S):766-76B Oct 1964 421 JB22 Barometric pressure. 2203-67 RESPIRATORY CHAIN HETABOLISH IN THE COLORADO POTATO BEETLE -II. RESPIRATION AND OXIDATIVE PHOSPHORYLATION IN SARCO-SOHES FROM DIAPAUSING BEETLES. D Stegwee J Insect Physi IO(1):97-102, BIBL. 101-102 Feb 1964 421 JB2S Diapause, Insect respiration, Phosphorylation, Sarcosomes. 2204-67 UN-67 RESPIRATORY CHAIN HETABOLISH IN THE COLORADO POTATO BEETLES-I. RESPIRATION AND OXIDATIVE PHOSPHORYLATION IN SARCOSOMES FROH ACTIVE BEETLES. D Stegwee A R van Kammen-Wertheim J Insect Physi B(2):117-126, BIBL. 125-126, TABS Har 1962 421 JB25 Leptinotarsa decemlineata, Phosphoryiation. 220S-67 OVIPOSITION AND ESTABLISHMENT OF THE SOUTHWESTERN CORN BORER ON CORN. K W Stewart R R Walton J Econ Entom 57(5):62B-631, TABS. Oct 1964 421 JB22 Corn, Oviposition. 2206-67 THE EFFECTS OF NITROGEN STARVATION ON THE CONCENTRATION OF FREE AHINO ACIDS IN HYZUS PERSICAE (SULZER) (HOMOPTERA, APHIDAE). F E Strong J Insect Physi 10(3):S19-S23 Jun 1964 421 JB2S Amino acids, Insect nutrition, Nitrogen. 2207-67 THE NATURE OF THE ELECTRORETINOGRAH OF A TROPICAL BUTTERFLY. S L Swihart J Insect Physi IO(4):S47-S62, BIBL. S61-S62, PLS.

Aug 1964 421 J82S 2219-67 utterfiles, Electroretinograms. OVIPOSITION BY VIRGIN OVERWINTERED BOLL WEEVILS. J K Waiker L A Barioia J Econ Entom 57(S):781-782 Oct I964 421 J822 2208-67 DIFFERENCES IN REPRODUCTIVE POTENTIAL, FEEDING RATE, AND LONGEVITY OF BOLL WEEVILS MATED IN THE FALL AND IN THE FALL Anthonomus grandis, Hibernation, Oviposition. AND SPRING. H M Taft A R Hopkins W James 2220-67 J Econ Entom S6(2):180-181 Apr 1963 421 J822 THE SENSE ORGANS OF THE OVIPOSITOR OF THE BLOWFLY, PHORMIA REGINA MEIGEN. Anthonomus grandis, Feeding, Longevity, Mating, Reproduction. REGIMA ALIGNA D I Wallis J Insect Physi 8(4):453-467, 818L. 466-467, TA8S., PL. Jui 1962 421 J825 Cailiphoridae, Ovipositors, Sense organs. 2209-67 SELECTION OF A FLUOROACETATE RESISTANT STRAIN OF HOUSE FLIES AND INVESTIGATION OF ITS RESISTANCE PATTERN. 2221-67 221-67 RESPUNSE UF RETICULITERMES FLAVIPES TO FHACTIONS FROM FUNGUS-INFECTED WOOD AND SYNTHETIC CHEMICALS. T Watanabe J E Casida J Econ Entom S6(3):300-307 Jun 1963 421 J822 Attractants, Wood destroying fungi. A S Tahdri J Econ Entom S6(1):67-69 Feb 1963 421 J822 Fluoroacetate, Insecticide resistant insects, Musca domestica. 2210-67 210-67 FEEDING HABITS OF ONE ANOPHELINE AND THREE CULICINE MOSQUITOES 8Y THE PRECIPITIN TEST. C H Tempeiis W C Reeves J Med Entom 1(2):148-151 01 Jui 1964 421 J828 Cuiicidae, Cuiicidae, Feeding habits, Precipitin test. 2222-67 THE FINE STRUCTURE OF THE MOSAIC MIDGUT EPITHELIUM OF D F Waterhouse M Wright J Insect Physi S(3):230-239, 818L. 238-239, PL. Dec 1960 421 J825 Caliiphoridae, Insect anatomy, Larvae. 2211-67 THE FREE AMINO ACIDS OF THE AGEING FEMALE AEDES AEGYPTI 2223-67 MOSQUITO. D W Thayer L A Terzian J Insect Physi 8(2):133-143, TA8S. Mar 1962 421 J825 223-67 THE ADULT SCENT GLANDS AND SCENT OF NINE 8UGS OF THE SUPER-FAMILY COREDIDEA. D F Waterhouse A R Gilby J Insect Physi 10(6):977-987 Dec 1964 421 J82S 8iochemistry, Insect anatomy, Scent giands. Amino acids, Chromatography, Cuiicidae. 2212-67 EFFECTS OF A HIGH VACUUM ON INSECT MORTALITY. 8 C Thornton W N Suiiivan J Econ Entom S7(6):852-854 Dec 1964 421 J822 2224-67 224-07 MOULTING AND REPRODUCTION IN THE ADULT FIREBRAT, THERMOBIA DOMESTICA (PACKARD) (THYSANURA, LEPISMATIDAE)-I. THE MOULTING CYCLE AND ITS CONTROL. Sarometric pressure, Insect mortality, Vacuum. J A L Watson J Insect Physi 10(2):30S-317, 8IBL. 316-317, TA8S. Apr 1964 421 J825 2213-67 NITROFURANS AS CHEMOSTERILANTS OF STORED-GRAIN INSECTS. D R Thorpe G W Ware J Econ Entom S6(3):404-407, TA8S. Jun 1963 421 J822 Molting (insects), Reproduction. 2225-67 MOULTING AND REPRODUCTION IN THE ADULT FIREGRAT, THERMOBIA DOMESTICA (PACKARD) (THYSANURA, LEPISMATIDAE.-II. THE REPRODUCTIVE CYCLES. Chemosterilants, Nitrofurans, Stored-product insects. 2214-67 J A L Watson MASS REARING OF THE GARDEN SYMPHYLAN, SCUTIGERELLA IMMACU-LATA IN LABORATORY CULTURES. J Insect Physi 10(2):399-408, 8I8L. 407-408 Apr 1964 421 J82S Apr 1964 421 J825 Moiting (insects), Reproduction. N V Tonks T L Theaker J Econ Entom S7(S):777-778 Oct 1964 421 J822 2226-67 226-67 OVIPOSITION AND EGG DISPERSION OF THE APPLE APHID WITH OM-SERVATIONS ON RELATED MORTALITY FACTORS. P H Westigard H F Madsen J Econ Entom S7(4):S97-600, TABS. Aug 1964 421 J822 Insect rearing, Scutigereila immaculata. 221S = 67115-67 THE NATURE OF SLOW AND FAST CONTRACTIONS IN THE COXAL MUSCLES OF THE COCKROACH. P N R Usherwood J Insect Physi 8(1):31-52, TA8S. Jan 1962 421 J225 Biattidae, Insect physiology, Kymography. Aphis pomi, Mortality, Dviposition. 2227-67 HAEMOCYTES AND THE METAMORPHOSING TISSUES IN SARCOPHAGA BULLATA, DROSOPHILA MELANOGASTER, AND OTHER CYCLORRHAPHOUS. 2216-67 DIPTERA. NUTRITION OF THE BOLL WEEVIL LARVA. J M Whitten E S Vanderzant J Econ Entom S6(3):387-362 Jun 1963 421 J822 J Insect Physi 10(3):447-469, 818L. 468-469, PHOTOMICROGRAPHS Jun 1964 421 J825 Siood ceiis, Insect histology, Metamorphosis. Anthonomus grandis, Insect diets, Insect nutrition, Larvae. 2217-67 2228-67 NUTRITION OF THE ADULT BOLL WEEVIL: LIPID REQUIREMENTS. E S Vanderzant C D Richardson J Insect Physi 10(2):267-272 THE AEROSCOPIC CHORION OF THE EGG OF CALLIPHORA ERYTHRO-CEPHALA MEIG. (DIPTERA) STUDIED WITH THE ELECTRON MICRO-SCOPE. V 8 Wiggiesworth M M Salpeter J Insect Physi 8(6):635-641, PL. Nov 1962 421 J82S Apr 1964 421 J82S Insect nutrition, Lipids. Electron microscopy, Fetal membranes, Fetal membranes, 2218-67 THE ROLE OF ASCORBIC ACID IN THE NUTRITION OF THREE COTTON Insect eggs. E S Vanderzant M C Pooi C D Richardson 2229-67 229-07 HISTOLOGY OF THE MALPIGHIAN TUBULES IN RHODNIUS PROLIXUS STAL (HEMIPTERA). V 8 Wigglesworth M M Salpeter J Insect Physi 8(3):299-307, 818L. 306-307, PL. J Insect Physi 8(3):287-297, TA8S. May 1962 421 J82S Ascorbic acid.

IO 2229-67

SIBLINGRAPHY

10 2230-67 May 1962 421 J825 Insect histology, Maipighian tubes. 2230-67 HOST PREFERENCE FOR OVIPOSITION BY THE SPRUCE BUDWORM IN THE LAKE STATES. L F Wilson J Econ Entom S6(3):285-28d Jun 1963 421 J822 Choristoneura fumiferana, Oviposition, Piant hosts. 2231-67 RECORDS OF HIPPOBOSCIDAE (DIPTERA) FROM INDIANA. N Wiison J Med Entom 1(2):12B-130 Ol Jui 1964 421 J82B Indiana. 2232-67 COLLECTION OF THE SEX ATTRACTANT FROM FEMALE AMERICAN COCKROACHES. R Yamoto J Econ Entom 56(1):119-210 Feb 1963 421 JB22 Periplaneta americana, Sex attractants. 2233-67 23-67 FUNCTION OF THE PERITROPHIC MEMBRANE IN MUSCA DOMESTICA L. AND CALLIPHORA ERYTHROCEPHALA MEIG. D P Zhuzhikov J Insect Physi 10(2):273-27B, TA8S. Apr 1964 421 J82S Peritrophic membrane.

Genetics

2234-67 A RECESSIVE FACTOR FOR ORGANOPHOSPHATE-RESISTANCE IN POPULATIONS OF THE TWO-SPOTTED SPIDER MITE, TETRANYCHUS TELARIUS. V Dittrich J Econ Entom S6(2):182-184 Apr 1963 421 J822 Insect genetics, Insecticide resistant insects, Tetranychus urticae.

2235-67 EFFECTS OF DIETARY GLUCOSE ON HAEMOLYMPH CARGOHYDRATES OF EFFECTS OF DIETARY GLUCOSE (AGRIA AFFINIS (FALL). J S 8arion H L House J Insect Physi 5(3):181-189 Dec 1960 421 JB2S Glucose, Haemolymph carbohydrates, Insect nutrition. 2236-67 ADAPTATION OF TOBACCO HORNWORMS TO THE INGESTION OF ADAPTAILUN UF TUGACCO HUMANDARY CONTRACTORY NICOTINE. L S Self F E Guthrie E Hodgson J Insect Physi 10(6):907-914, 818L. 914, TA8S. Dec 1964 421 J82S Insect adaptation, Nicotine.

20 CROP PROTECTION

2237-67 NEMATODES ASSOCIATED WITH CITRUS TREES INFECTED 8Y FOUR VI-RUSES AND COMMENTS A80UT NEMATODE DISTRIBUTION IN FLORIDA. CITRUS GROVES. CITRUS GROVES. M W Brezeski Piant Dis R 49(6):610-614, 818L. 614 Jul 1965 1.9 P69P Citrus, Fiorida, Nematodes, Plant nematodes, Virus diseases (plants). EVALUATION OF TREATMENTS FOR THE CONTROL OF SOIL-BORNE PESTS OF TOMATO. 223B-67 J F Darby Plant Dis R 4S(1):58-61 15 Jan 1961 1.9 P69P Pesticides, Soil-borne pests, Tomatoes. 2239-67 SEROLOGICAL COMPARISON OF CRONARTIUM FUSIFORME, C. CERE-8RUM, AND C. RIBICOLA. G V Gioding Jr H R Powers Jr 9 volgaling of n n rowers of Phytopatholo S4(6):622-623 Jun 1964 464.8 PS6 Cronartium cerebrum, Cronartium fusiforme, Cronartium ribicola, Serologicai tests. 2240-67 CONTROL OF DISEASES AND INSECT PESTS OF CROP PLANTS IN THE SOVIET UNION. R R Herr Piant Dis R 45(6):399-410, 818L. 410 15 Jun 1961 1.9 P69P Insect control, Piant disease control, Soviet union. 2241-67 THE COEFFICIENT OF EXPANSION OF WOOD IN RELATION TO FROST CRACKS. CHACKS. L Herrington J Parker E 8 Cowiing Phytopatholo 54(2):128 Feb 1964 464.8 P56 Expansion coefficient, Frost, Plant injuries. 2242-67 SUN SCALD OF CORN IN WISCONSIN IN 1961. P E Hoppe Piant Dis R 45(10):787 IS Oct 1961 1-9 P69P Corn, Plant injuries, Sun scaid (corn), Wisconsin. 2243-67 AD-OV IMPROVING GROWTH OF FRUIT TREES BY TREATMENT WITH NEMATO-CIDES AND FUNGICIDES AT TIME OF PLANTING. P M Miller Finitier Plant Dis R 45(1):42-44 15 Jan 1961 1.9 P69P Fruit, Fungicides, Nematocides, Plant physiology. 2244-67 249-07 EAR REMOVAL AND CELL DEATH RATE IN CORN STALK TISSUE. A J Pappelis Katsanos R A Phytopatholo 54(6):626 Jun 1964 464.8 PS6 Corn, Corn ear, Corn staik, Piant cytology. 2245-67 NEMATODES ASSOCIATED WITH MELTING-OUT OF TURFGRASS. E H Peper Plant Dis R 49(6):S19-S21 IS Jun 1965 1.9 P69P Helminthosporum vagans, Melting out (poa), Nematodes, Panagrolaimus, Turf. 2246-67 46-67 VINAS DISEASE OF COFFEE (COFFEA ARA8ICA) IN GUATEMALA. E Schleber G A Zentmyer Phytopathoio 54(S):500 May 1964 464.8 P56 Coffea arabica, Guatemala, Vinas disease (coffee).

20 2267-67

2247-67 247-67 EFFECT OF ORGANIC AMENDMENTS AND PCNB UPON INOCULUM POTEN-TIAL OF RHIZOCTONIA SOLANI IN FIELD SOIL. L R Smith L J Ashworth Jr Phytopatholo S4(6):626 Jun 1964 464.8 PS6 Organic amendments, Pentachioronitrobenzene, Rhizoctonia soiani. 2248-67 CERCOSPORA LEAFSPOT OF CLERODENDRON. CERCUSPURA LEARSPOI OF CLERODENDRON EK Sobers A P Martinez Phytopathoio S4(S):500-S01 May 1964 464.8 P56 Cercospora, Clerodendron, Leafspot. 249-67 LIGHT AND LIGHT QUALITY AS FACTORS IN THE GROWTH AND DEVEL-OPMENT OF TWO SPECIES OF LEPTOSPHAERULINA PATHOGENIC ON WHITE CLOVER. C E Thomas J E Halpin Phytopatholo S4(6):627 Jun 1964 464.8 PS6 Leptosphaerulina, Light, White clover. Diseases 2250-67 SYMPOSIUM ON CANKERS OF FOREST TREES: INVITATIONAL PAPERS PRESENTED AUGUST 28, 1963, AT THE FIFTY-FIFTH ANNUAL MEETING OF THE AMERICAN PHYTOPATHOLOGICAL SOCIETY AT AMERST, MASSACHUSETTS. Phytopatholo S4(3):250-278 Mar 1964 464.8 PS6 Canker (trees), Conferences, Forests, Phytopathology. 2251-67 PROCEEDINGS OF THE THIRD CONFERENCE OF THE INTERNATIONAL ORGANIZATION OF CITRUS VIROLOGISTS. Int Organ Citrus Virol Pr 3RD:1-319 1963 464.06 IN82 67 papers, with preface by W. C. Price REPORT AND ABSTRACTS OF THE 1963 ANNUAL MEETING OF THE SOUTHERN DIVISION OF THE AMERICAN PHYTOPATHOLOGICAL SOCIETY. Phytopatholo S4(6):621-627 Jun 1964 464.8 PS6 Abstracts, Phytopathology. 22\$3-67 ISJ-67 ABSTRACTS OF PAPERS ACCEPTED FOR PRESENTATION AT THE FIFTY-THIRD ANNUAL MEETING OF THE AMERICAN PHYTOPATHOLOGICAL SOCIETY, 81LOXI, MISS., DECEMBER 10, 11, 12, 13, 1961. Phytopatholo S2(1):1-34 Jan 1962 464.8 PS6 Abstracts, Phytopathology.

2254-67

VIRUS DISEASES OF CITRUS IN THE PHILIPPINES. M S del Rosario C Alaban Int Organ Citrus Virol Pr 3RD:223-224 I963 464.06 IN82 Citrus, Phlilppines, Virus diseases (plants). 2255-67 IN VITRO REACTION OF TOBACCO RINGSPOT VIRUS ON BLACK COWPEA LEAVES. D J deZeeus Phytopatholo 52(1):7 Jan 1962 464-8 PS6 Cowpeas, Immunization, Ring spot (tobacco). 22 \$6-67 EFFECT OF ORCHARD SANITATION ON DEVELOPMENT OF ANGULAR LEAF

SPOT OF TUNG. T van der Zwet W W Kilby W A Lewis Phytopatholo S4(6):627 Jun 1964 464.8 PS6 Angular leafspot (tung tree), Orchard sanitation,

Tung oii tree. 2257-67 SEPARATION OF AN ANTIGENIC PLANT PROTEIN FROM PREPARATIONS OF PLANT VIRUSES. M H V van Regenmortel Phytopatholo 54(3):282-289, BIBL, 288-289, TABS. Mar 1964 464.8 P56 Antigens, Plants, Proteins, Viruses. 2258-67 A PRACTICAL METHOD FOR EVALUATING LOW VOLUME SPRAY OIL DE-POSITS IN THE CONTROL OF SIGATOKA DISEASE OF BANANAS. A V Adam Phytopathoio S4(S):498 May 1964 464.8 PS6 Drying oils, Sigatoka (bananas), Spraying. 2259-67 MICROORGANISMS IN SOIL FROM FOMES ANNOSUS INFECTED PINE STANDS. J T Adams Jr W Witcher C L Lane Plant Dis R 48(2):II4-II8 IS Feb I964 1.9 P69P Fomes annosus, Pinus, Soii microorganisms. 2260-67 560-67 SHORT STEM VIROSIS OF SWEET CHERRIES. M M Afanaslev R I Hamllton Plant Dis R 49(3):253-25S IS Mar 1965 1.9 P69P Mazzard cherries, Short stem (mazzard cherries), Virus diseases (plants). 2261-67 OCCURRENCE OF LATE BLIGHT DISEASE OF POTATOES IN MONTANA. M Afanaslev Plant Dls R 45(4):314 IS Apr 1961 1.9 P69P Late blight (potatoes), Nontana, Phytophthora infestans, Potatoes. 2262-67 562-67 APPLE SCAB .EFFECT OF ONE APPLICATION OF FUNGICIDES ON LEAF LESIONS ON PREVIOUSLY UNSPRAYED TREES. J J Albert J W Heuberger Piant Dla R 45(10):759-763, TA8S. 15 Oct 1961 1.9 P69P Apples, Dodine, Fungicides, Scab (apples), Spraying. 2263-67 A STUDY OF SQUASH MOSAIC VIRUS DISEASE. A STUDI OF SQUART HOUSE C. E K Ailam Plant Dis R 49(3):218-221, TA8S. 15 Mar 1965 1.9 P69P Mosaic (squash). 2264-67 STRIPE RUST RESISTANCE OF SUWON 92 AND ITS RELATIONSHIP TO SEVERAL MORPHOLOGICAL CHARACTERISTICS IN WHEAT. R E Allan O A Vogel Plant Dis R 45(I0):778-779 IS Oct 1961 1.9 P69P Plant genetics, Plant morphology, Puccinia striiformis, Stripe rust (wheat), Suwon 92, Wheat. 2265-67 RICE BLAST IN EL SALVADOR. O Ancaimo A A Lopez Plant Dls R 4S(7):576 IS Jul I96I 1.9 P69P Blast (rice), El Salvador, Epiphytotic, Piricularia oryzae Cav.. 2266-67 OCCURRENCE OF CERCOSPORA BOUGAINVILLEAE IN EL SALVADOR. OCCURRENCE of CERCORONN ESSENTION O Ancaimo Plant Dis R 45(8):666 15 Aug 1961 1.9 P69P Bougainvillea glabra Cholsy, Cercospora bougainvilleae, El Salvador. 2267-67 HOJA 8LANCA IN EL SALVADOR. O Ancalmo G R Slilezar Plant Dls R 45(11):900 IS Nov 1961 1.9 P69P El Salvador, Hoja blanca (rice), Rice.

20 2268-67 2268-67 THE DISTRIBUTION OF EASTERN AND WESTERN GALL RUSTS IN THE LAKE STATES. G W Anderson o w Anderson Plant Dis R 49(6):S27-52B 15 Jun 1965 I.9 P69P Eastern gall rust (pinus), Lake States, Western gall rust (pinus). 2269-67 65-67 HYPOXYLON CANKER ON EUROPEAN ASPEN. R L Anderson P N Joranson D W Elnspahr Plant Dls R 44(2):132 15 Feb 1660 1.9 P69P Canker (aspen), European aspen, Hypoxylon canker. 2270-67 HYPOXYLON CANKER IMPACT ON ASPEN. R. L. Anderson Phytopatholo 54(3):253-257 Mar 1964 464.8 P56 Canker (populus), Hypoxylon, Populus, Populus. 2271-67 INFLUENCE OF RESISTANT VARIETIES ON VIRULENCE LEVEL WITHIN NATURAL POPULATIONS OF PHYTOPHTHORA PARASITICA VAR. NICO-TIANAE. J L Apple Plant Dis R 45(12):96B-971, TABS. 15 Dec 1961 1.9 P69P Phytophthora parasitica var. nicotianae, Virulence. 2272-67 272-67 FUNGICIDAL CONTROL OF MANGO ANTHRACNOSE. M Aragakl M Ishl Plant Dis R 44(5):31B-323 15 May 1960 1.9 P69P Anthracnose (mangoes), Fungicides, Mangoes, Plant disease control. 2273-67 RELATION OF RADIATION AND TEMPERATURE TO THE SPORULATION OF ALTERNARIA TOMATO AND OTHER FUNGI. M Aradaki Phytopatholo S4(S):S6S-569 May 1964 464-B P56 Alternaria tomato, Fungi, Radlation, Sporulation, Temperature. 2274-67 SOME CHEMICAL REQUIREMENTS FOR THE GROWTH AND SPORULATION OF ALTERNARIA TOMATO. M Aragaki Phytopatholo 54(5):562-564 May 1964 464.B P56 Alternaría tomato, Chemical nutrients, Plant physiology. 2275-67 ADDITIONAL HOSTS FOR TOMATO CANKER ORGANISM, CORYNEBACTER-IUM MICHIGANESE. P A Ark J P Thompson Plant Dis R 44(2):98-99 15 Feb 1960 1.9 P69P Canker (tomatoes), Tomatoes, Weeds. 2276-67 EXPERIMENTAL GREENHOUSE CONTROL OF CROWN GALL AND OLIVE KNOT WITH ANTIBIOTIC DRENCHES. P A Ark J P Thompson Plant Dis R 44(3):197 15 Mar 1960 1.9 P69P Antibiotics, Crown galls (fruits), Drenches, Greenhouses, Ollve knots. 2277-67 277-67 SUSCEPTIBILITY OF ARTEMISIA VULGARIS AND HELIANTHUS TUBER-OSUS TO CROWN GALL, AGROBACTERIUM TUMEFACIENS. P A Ark J P Thompson Plant Dis R 44(2):102-103 15 Feb 1960 1.9 P69P Agrobacterlum tumefaciens, Artemisia vulgaris, Crown galls, Jerusalem artichokes. 227B-67 WILT OF CHRYSANTHEMUM CAUSED BY RACE 1 OF THE COWPEA FUSAR-IUM. G M Armstrong J K Armstrong G H Armstrong J K Armstrong Plant Dis R 49(B):673-676 Aug 1965 1.9 P69P Cowpeas, Fusarium oxysporum f. tracheaphilum, PAGE 14

Wilt (chrysanthemum), Wilt (cowpeas). 2279-67 279-67 FURTHER STUDIES ON THE PATHOGENICITY OF THREE FORMS OF FU-SARIUM OXYSPORUM CAUSING WILT OF ALFALFA. G M Armstrong J K Armstrong Plant Dis R 49(S):412-416, BIBL. 416, TABS. 15 May 1965 1.9 P69P Alfalfa, Fusarlum oxysporum, Pathogenicity, Wilt (alfalfa). 2280-67 INTRA- AND INTER-REGIONAL MOVEMENT OF UREDOSPORES OF BLACK STEM RUST IN THE UPPER MISSISSIPPI VALLEY. G N Asal Phytopatholo 50(7):535-541, TABS. Jul 1960 464.B P56 Black stem (wheat), Mississipi valley, Uredospores, Wheat. 22B1-67 SEED-BORNE CERCOSPORA ON SAFFLOWER. A Ashri Plant Dis R 45(2):153 15 Feb 1961 1.9 P69P Cercospora carthaml, Safflower, Seed-borne plant diseases, Thiram. 22B2-67 THE SUSCEPTIBILITY OF SAFFLOWER VARIETIES AND SPECIES TO SEVERAL FOLIAGE DISEASES IN ISRAEL. A Ashri Plant Dis R 45(2):146-150 15 Feb 1966 1.9 P69P Carthamus, Israel, Powdery mildew (safflower), Safflower, White spots. 2283-67 SOURCES, TRANSMISSION, SYMPTOMATOLOGY, AND DISTRIBUTION OF WHEAT STREAK MOSAIC VIRUS IN TEXAS. L Ashworth Jr M C Futrell Plant Dis R 45(3):220-224 15 Mar 1961 1.9 P69P Plant disease transmission, Streak mosaic (wheat), Texas. 2284-67 SOURCES OF INOCULUM FOR ASPERGILLUS NIGER DISEASE OF SPAN-L J Ashworth Jr B C Langley Phytopatholo S4(6):621 Jun 1964 464.B P56 Aspergiilus niger, Inoculum, Spanlsh peanuts. 2285-67 285-67 OCCURENCE OF HOJA BLANCA AND ITS INSECT VECTOR, SOGATA ORIZICOLA MUIR, ON RICE IN LOUISIANA. J G Atkins L D Newsom W T Spink G D Lindberg R N Dopson T D Persons C H Lauffer R C Carlton Plant Dis R 44(6):390 15 Jun 1960 1.9 P69P Hoja blanca (rice), Insect vectors, Rice, Sogata orizicola Muir. 2286-67 286-67 HEAT CURING TREATMENTS OF GLADIOLUS CORMS COMPARED WITH FUN-GICIDAL DIPS IN CONTROLLING FUSARIUM DISEASE. R Aycock R D Milholland Plant Dis R 49(5):435-43B 15 May 1965 1.9 P69P Dipplng, Fungicides, Fusarium oxysporum, Gladiolus corms, Heat treatment, Storage diseases. 22B7-67 TESTS OF PHASEOLUS SPECIES FOR RESISTANCE TO FUSARIUM ROOT ROT. J R Baggett W A Frazler E K Vaughan Plant Dis R 49(7):630-633, BIBL, 633 Jul 1965 1.9 P69P Beans, Fusarium solani f. phaseoll, Plant disease resistance, Root rot (Phaseolus). 22BB-67 CERCOSPORA LEAF SPOT OF TUNG IN MISSISSIPPI. D C Bain D C Bain Plant Dis R 44(3):190-191 15 Mar 1960 1.9 P69P Cercospora, Leaf spot (tung), Tung oil tree. 2289-67 CONTROL OF FUSARIUM YELLOWS OF CELERY BY MEANS OF SOIL FUM-IGATION. R Baker D J Phillps C Martinson

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Piant Dis R 45(1):76-77 I5 Jan 1961 I.9 P69P Chloropicrin, Fusarium oxysporum f. apii, Nemex, Soli fumigation, Yelio⊎s (celery). 2301-67 MUI-67 LIFE CYCLE AND HOST RANGE OF HYPOXYLON PRUINATUM AND ITS PATHOGENESIS ON POPLARS. J G Berbee J D Rogers Phytopatholo 54(3):257-261, BIBL. 261 Mar 1964 464.8 P56 2290-67 TOBACCO MOSAIC VIRUS IN NICOTIANA GLAUCA. Canker (populus), Host range, Hypoxylon pruinatum, Populus, Populus. J G Baid D J Goodchild Phytopathoio 50(7):497-499 Jul 1960 464.8 P56 2302-67 302-67 TRANSMISSION, MOVEMENT, AND VECTOR RELATIONSHIPS OF TOBACCO RINGSPOT VIRUS IN SOYBEAN. G B Bergeson K L Athow F A Laviolette S M Thomasine Phytopatholo 54(6):723-728, TABS. Jun 1964 464.8 PS6 Mosalc (tobacco), Nicotiana glauca, Plant hosts, Tobacco. 2291-67 TRANSMISSION OF THE ASTER YELLOWS VIRUS TO BARLEY. TRANSMISSION OF THE ASTER YELLOWS VIRUS TO BARLEY. E E Banttari M B Moore Plant Dis R 44(3):IS4 IS Mar 1960 1.9 P69P Aster yellows (barley), Barley, Plant disease transmission. Plant disease transmission, Ring spot (tobacco), Soybeans. 2303-67 EXTENSION OF RANGE AND A NEW HOST FOR CRISTULARIELLA PYRAM-2292-67 IDALIS. IDALIS. C R Berry G E Thompson Plant Dis R 45(2):152 15 Feb 1961 1.9 P69P Acer, Cristulariella pyramidalis, Tree diseases. EFFECTIVENESS OF CERTAIN PROTECTANT FUNGICIDES FOR CONTROL-LING PECAN SCAB IN OKLAHOMA DURING 1959. G L Barnes Plant Dis R 45(2):142-144 15 Feb 1961 1.9 P69P Fungicides, Oklahoma, Scab (pecans), 21 neb. 2304-67 THE RELATIONSHIP OF SOME BARK FACTORS TO CANKER SUSCEPTI-2293-67 BILITY. DIE Bler Phytopatholo 54(3):250-253, BIBL. 253 Mar 1964 464.8 P56 Bark, Canker (trees), Forests, Trees. AN INDUCED MECHANISM OF TISSUE RESISTANCE TO POLYGALACTURON-ASE IN RHI2OCTONIA-INFECTED HYPOCOTYLS OF BEAN. D F Bateman Phytopatholo 54(4):438-445, BIBL. 445, PL. Apr 1964 464.B PS6 Beans, Hypocotyls (beans), Pectinase, Pectinase, 230S-67 905-67 FACTORS AFFECTING CONTROL OF ONION BLOAT BY FUMIGANTS CON-TAINING 1,3-DICHLOROPROPENE IN ORGANIC SOILS IN SOUTHERN NEW YORK. G W BIrd H A Smith Rhizoctonia, Tissues. 2294-67 PEAR DECLINE TRENDS IN WASHINGTON ORCHARDS. L P Batjer E S Degman N R Benson Plant Dis R 45(4):255-257 IS Apr 1961 1.9 P69P Decline (pears), Pears, Washington. G W BIRD H A Smith Plant Dis R 49(1):33 15 Jan 1965 1.9 P69P Bloat, Fumlgants, New York, Onion bioat, Organic soils, 1,3-dichloropropene. 2295-67 NEW TYPE OF SYMPTOMS ON VERTICILLIUM WILT OF COTTON. 2306-67 THE INFLUENCE OF IN-COVERING SOIL FUNGICIDES ON THE COVERING SOIL MICROFLORA IN RELATION TO COTTON SEEDLING DISEASE OCCURRENCE. NEW TYPE UP SYMPTUMS UN VERTICILLIUM C Bazan de Segura Plant Dis R 44(4):256 15 Apr 1960 1.9 P69P Cotton, Verticillium, Wilt (cotton). L S Bird Phytopathoio 54(6):621 Jun 1964 464.8 P56 Cotton, Fungleides, Solls. 2296-67 A SEVERE EPIDEMIC OF HELMINTHOSPORIUM BROWN SPOT DISEASE ON CULTIVATED WILD RICE IN NORTHERN MINNESOTA. G A Bean R Schwartz 2307-67 FUSARIUM WILT OF COTTON IN ARIZONA. L M Blank Plant Dis R 49(2):179 15 Feb 1965 1.9 P69P Piant Dis R 4S(11):901 15 Nov 1961 1.9 P69P Brown spot (rice), Helminthosporium oryzae, Minnesota, Wildrice. Arizona, Cotton, Fusarium oxysporum, Wilt (cotton). 2297-67 2308-67 THE USE OF DIMETHYL SULFOXIDE (DMSO) WITH CERTAIN FUNGI-CIDES FOR CONTROLLING HELMINTHOSPORIUM DISEASES OF KENTUC-PRELIMINARY STUDIES ON CONTROL OF SOUTHWESTERN COTTON RUST. L M Blank Plant Dls R 45(4):241-243 15 Apr 1961 1.9 P69P Puccinia stakmanii, Rust (cotton), 2ineb. KY BLUEGRASS. RI DECEMBE G A Bean Plant Dis R 49(10):810-811 Dott 1965 1.9 P69P Dimethyi sulfoxide, Fungicides, Heiminthosporlum, 2309-67 309-67 A SPUR TYPE GROWTH OF BING CHERRY CAUSED BY VIKUS. E C Blodgett P Jenkins M D Aicheie Plant Dis R 49(I1):910 Nov 1965 1.9 P69P Poa pratensis. 2298-67 FUNGICIDAL CONTROL OF SCLEROTINIA WILT IN GREEN BEANS. FUNDICIDAL CUNINCL OF SCLENDINAR WILL IN GREEN BEANS. K M Beckman J E Parsons Plant D1s R 49(4):357-358 15 Apr 1965 1.9 P69P Fungleides, Sclerotinia sclerotlorum, Wilt (green beans). Mazzard cherrles, Virus diseases (plants). 2310-67 STEM CAVITY RUSSET OF APPLES. E C Blodgett Plant Dis R 49(3):225-227 15 Mar 1965 1.9 P69P 2299-67 THE CITRUS BUDWOOD PROGRAM IN CONCORDIA, ARGENTINA. H N Benatena A R Pujol Int Organ Citrus Virol Pr 3RD:241-243 Appies, Stem cavity russet (apples). 1963 464.06 INB2 Argentina, Budwood, Cltrus. 2311-67 311-67 GREENHOUSE TESTS ON FIRE BLIGHT SUSCEPTIBILITY OF STEWART BARTLETT COMPARED WITH THREE OTHER BARLETT PEAR CLONES. E C Blodgett M D Alchele E L Murray Plant Dis R 49(9):769-770 Sep 1965 1.9 P69P Erwinia anyiovora, Fire blight (pears), Pears, Plant disease resistance. 2300-67 PARTIAL OR COMPLETE RESTRICTION OF TWO MOSAIC VIRUSES TO PA-RENCHYMA TISSUE. C W Bennett Plant Dis R 49(5):375-377 15 May 1965 1.9 P69P Mosalc (beets), Mosalc (cucumbers), Parenchyma tissue.

20 2312-67 2312-67 SYMPTOMS AND TRANSMISSION OF A STAR CRACKING TYPE DISEASE SYMPIONS AND IRANSHISSION OF A STAR CRACKING TYPE DISE OF APPLE IN WASHINGTON. E C Blodgett M D Aichele Plant D1s R 45(1):45 iS Jan 1961 J.9 P69P Apples, Dwarf fruit, Star cracking (apples), Washington. 2313-67 913-67 THE BLISTER BARK DISEASE OF RED DELICIOUS APPLE TREES. E C Blodgett M D Alchele Plant D1s R 49(9):765-768 Sep 1965 1.9 P69P Apples, Blister bark (apples). 2314-67 INFLUENCE OF ENVIRONMENT ON DISEASE OF TURFGRASSES. 1. EFFECT OF NUTRITION, PH, AND SOIL MOISTURE ON RH12OCTONIA EFFECT OF NUTRITION, FR, AND SERVIN PATCH. J R Bloom H B Couch Phytopatholo SO(7):532-S3S Jul 1960 464.B PS6 Agrostis palustris, Agrostis palustris, Grasses, Rhizoctania solani, Turf. 2315-67 STEWART S DISEASE: EXPECTED DEVELOPMENT ON CORN IN ILLINOIS IN 1961. G H Boewe Plant Dis R 4S(S):393 IS May 1961 1.9 P69P Corn, Illinois, Plant temperature, Stewart s disease, Wilt (corn). 2316-67 GENETICS OF RESISTANCE TO POWDERY MILDEW RACE 2 IN MUSKMEL-ON. G W Bohn T W Whitaker Phytopatholo S4(S):SB7-S91, BIBL. S90-S91 May 1964 464.8 PS6 Genetics, Muskmelons, Plant disease resistance, Powdery mildew (muskmelons). 2317-67 A NEW HOST FOR THE CUCURBIT POWDERY MILDEW FUNGUS. G W Bohn T W Whitaker Plant Dls R 45(3)232-234, BIBL. 234 15 Mar 1961 1.9 P69P Cucumis melo, Eremocarpus setigerus, Powdery mlldew (cantaloupes), Turkey mullein. 2318-67 EFFECT OF ELEVATION, RAINFALL AND TEMPERATURE UPON THE INCI-DENCE OF CORN DISEASES IN COSTA RICA. C W Boothroyd Phytopatholo S4(2):127 Feb 1964 464.8 PS6 Climate, Corn, Costa rica, Environment, Plant diseases, Rainfall. 2319-67 SYMPTOMS IN RELATION TO INFECTION PATTERN IN WHITE OAK. J S Boyce Jr Plant Dis R 45(S):386-387 18 May 1961 1.9 P69P Ceratocystis fagacearum, Dieback (oak), Quercus alba, Wilt (white oak). 2320-67 VARIETAL DIFFERENCES IN PEPPER TO VIRUS INDUCED BREAKDOWN OF FRUIT. J S Boyle Phytopatholo S4(2):127 Feb 1964 464.8 PS6 Piper nigrum, Virus diseases (plants). 2321-67 CONTROL OF LEAF MOLD IN A HEAVILY INFECTED TOMATO CROP WITH A POLYBUTENE EMULSION. J F Bradbury R W Fisher Plant Dis R 48(2):104-10S 1S Feb 1964 1.9 P69P Leaf mold disease (tomatoes), Maneb, Plant disease control, Polybutene, Tomatoes. 2322-67 RETENTION OF PATHOGENICITY OF THE OAK WILT FUNGUS IN CUL-TURE. T W Bretz F H Berry Phytopatholo S4(6):742 PAGE 16

Jun 1964 464.B PS6 Cuiture, Fungi, Plant diseases, Quercus, Wiit (quercus). EFFECTS OF FOUR VIRUSES ON YIELD AND QUALITY OF KING CAR-DINAL CARNATIONS. P Brierley Plant Dis R 4B(1):5-7 15 Jan 1964 1.9 P69P Crop yields, Diathus caryophyllus; King Cardinal carnations, Viruses. 2324-67 RESISTANCE IN TRITICUM VULGARE TO INFECTION BY EKYSIPHE GRAMINS F. SP. TRITICI AS INFLUENCED BY THE STAGE OF DEVEL-OPMENT OF THE HOST PLANT. UPPENT OF THE HUST PLANT. L W Briggle A L Scharen Plant Dis R 4S(11):B46-BS0, TABS. 15 Nov 1961 1.9 P69P Erysiphe graminis, Plant disease resistance, Plant hosts, Powdery mildew (wheat), Triticum vulgare. 2325-67 FREQUENCY OF COTTON PLANTS RESISTANT TO FUSARIUM WILT IN SOME LINES OF COTTON RESISTANT OR SUSCEPTIBLE TO BACTERIAL BLIGHT. DILGHI. L A Brinkerhoff R E Hunter Plant Dis R 4S(2):126-127 15 Feb 1961 1-9 P69P Angular leafspot (cotton), Cotton, Fusarium oxysporum f. vasinfectum, Plant disease resistance, Wilt (cotton). 2326-67 326-67 CEREAL RUST EPIDEMIOLOGY IN KANSAS IN 1959. L E Browder C O Johnston S M Pady Plant Dis R 45(11):B94-B98 IS Nov 1961 1.9 P69P Epidemiology, Kansas, Leaf rust (wheat). 2327-67 PYTHIUM PRE-EMERGENCE DAMPING-OFF OF SOYBEAN IN MINNESOTA. G E Brown B W Kennedy Plant Dls R 49(B):646-647 riant Dis R 49(B):646-647 Aug 1965 1.9 P69P Damping-off (soybeans), Minnesota, Plant decay, Pythium aphanidermatum, Pythium debaryanum, Pythium ultimum, Soybeans. 2328-67 PHYTOPHTHORA ROOT ROT OF SOYBEAN IN MINNESOTA. C E Brown B W Kennedy Plant Dls R 49(6):490-491 15 Jun 1965 1.9 P69P Minnesota, Phytophthora, Root rot (soybeans), Soybeans. 2329-67 SYSTEMIC SPREAD OF TRISTEZA IN ONE VALENCIA ORANGE TREE. H C Burnett Plant Dis R 45(9):697 15 Sep 1961 1.9 P69P Insect vectors, Oranges, Tristeza (citrus). 2330-67 THE CONTROL OF FIREBLIGHT OF APPLE AND BACTERIAL SPOT OF PEACH. PEACH. J W Bushong D Powell Plant Dis R 45(2):100-101 15 Feb 1961 1.9 P69P Acrizane chloride, Apples, Bacterial spot (peaches), Fire blight (apples), Peaches. 2331-67 TAXONOMY AND PHYSIOLOGICAL PROPERTIES OF FUNGUS CAUSING SOUR ROT OF CITRUS FRUIT. E E Butler J W Eckert Phytopatholo S2(1):S Phytopatholo Sc(2). Jan 1962 464.8 P56 Citrus, Fungi, Fungus physiology, Fungus taxonomy, Geotrichum candidum, Sour rot (citrus). 2332-67 FILAMENTOUS VIRUSES INFECTING FRUIT TREES AND RASPBERRY AND THEIR POSSIBLE MODE OF SPREAD. INELR FUSSIBLE HULE of Structure C H Cadman Plant Dis R 49(3):230-232 IS Mar 1965 1.9 P69P Frult, Malus spp., Raspberries, Virus diseases (plants).

2333-67 SCREENING OF POTATO FUNGICIDES IN 1959. L C Cailbeck Plant Dis R 44(1):6B 1S Jan 1960 1.9 P69P Fungicides, Late blight (potatoes), Potatoes, Statistics. 2334-67 IMPORTANCE OF SOURCE OF SPRAY OILS FOR SIGATOKA DISEASE CON-TROL AND PHYTOTOXICITY TO BANANA LEAVES. Lalpouzos C Colberg Phytopatholo S4(2):235-236 Feb 1964 464-8 PS6 Dils, Phytotoxicity, Sigatoka (bananas), Sigatoka (bananas), Spraying. 2335-67 SYMPTOMS AND DISTRIBUTION OF CORN STUNT DISEASE IN MISSOURI IN 1964. D H Caivert M L Fairchild A J Keaster Plant Dls R 49(3):213-214 18 Mar 1965 1.9 P69P Corn, Missouri, Stunt (corn). 2336-67 DEATH OF DORMANT BUDS IN SWEET CHERRY. H R Cameron Plant Dis R 44(2):139-143 15 Feb 1960 1.9 P69P Cherries, Plant budding, Plant dormancy. 2337-67 DEFINITIVE PATTERNS OF WHITE PINE NEEDLE BLIGHT. R J Campana Phytopatholo S2(1):S Jan 1962 464.8 PS6 Biight (plnus), Names of white pines. 2338-67 STUDIES ON THE TRANSMISSION OF THE VIRUS CAUSING BIG VEIN OF LETTUCE. R N Campbeil R G Grogan D E Purcifuli Phytopatholo S2(1):S Jan 1962 464.B PS6 Big vein (iettuce), Lettuce, Plant disease transmission, Viruses. 2339-67 PHYTOPHTHORA HEVEAE FROM EASTERN TENNESSEE AND WESTERN Philurainuka neveke rkun eksieka ieanessee and wesieka W A Campbeli M E Gallegiy Piant Dis R 49(3):233-234 15 Mar 1965 1.9 P69P Fungi, North Carolina, Phytophthora heveae, Tennessee. 2340-67 VERTICILLIUM WILT OF SMOKE BUSH. NE Caroscili Piant Dis R 45(1):24-25 IS Jan 1961 1.9 P69P Fungus diseases (plants), Verticiliium aibo-atrum, Wiit (smoke bush). 2341-67 041-67 OCCURRENCE OF EXCESSIVE SEED ABORTION IN CITRUS FRUITS AF-FECTED WITH STUBBORN DISEASE. J 8 Carpenter E C Calavan D W Christiansen Plant Dis R 49(8):66B-672 Aug 1965 1.9 P69P Citrus, Seed abortion, Stubborn disease (citrus). 2342-67 342-67 MACROSIPHUM ROSAE, ACYRTHOSIPHON POROSUM, AND APHIS GOS-SYPII AS VECTORS OF STRAWBERRY VIRUSES IN LOUISIANA. R G Carver N L Horn H B Boudreaux Plant Dis R 49(6):495-499, TABS. IS Jun 1965 1.9 P69P Insect vectors, Louisiana, Strawberrles, Virus diseases (plants). 2343-67 EFFECT OF MOTTLE VIRUS ON THE RUNNER PRODUCTION AND FRUIT YIELD OF TWO LOUISIANA STRAWBERRY SEEDLINGS. R G Carver N L Horn Phytopatholo S2(1):S-6 Jan 1962 464.8 PS6

Agricultural productivity, Louisiana, Mottie (strawberry), Strawberries. 2344-67 RESEARCH ON STU88ORN DISEASE IN MOROCCO. J Cassin Int Organ Citrus Viroi Pr 3RD:204-206 1963 464.06 INB2 Morocco, Stubborn disease (citrus). 2345-67 345-67 GUMMOSIS OF IMPERIAL GRASS. J J Castano H D Thurston Phytopatholo S4(S):498 May 1964 464.B P56 Gummosis (imperial grass), Imperiai grass. 2346~67 TESTING CRUCIFERS FOR RESISTANCE TO CLUBROOT IN NEW HAMP-SHIRE. Catovic-Catani A E Rich Plant Dis R 40(1):47-50 15 Jan 1964 1.9 P69P Clubroot (cruciferae), Cruciferae, New hampshire, Plasmodlophora brassicae Wor.. 2347-67 347-67 THE TOLUCA VALLEY, AN OUTSTANDING AREA FOR TESTING FUNGI-CIDES ON POTATOES UNDER NATURAL CONDITIONS AGAINST LATE BLIGHT (PHYTOPHTHORA INFESTANS). J Cervantes R Rubio C Ortuno Phytopatholo S4(S):498 May 1964 464.B PS6 Fungicides, Late blight (potatoes), Mexico, Phytophthora infestans, Toluca vailey. 2348-67 FUNGICIDAL CONTROL OF ANTHRACNOSE AND WHITE SPOT OF TURNIP GREENS. W A Chandler W A Chandler Plant Dis R 49(S):419-422, TA8S. IS May 1965 1.9 P69P Anthracnose (turnips), Fungicides, Turnips, White spot (turnips). 2349-67 SPORULATION BY CERCOSPORELLA HERPOTRICHOIDES ON ARTIFICIAL MEDIA. E P Chang L J Tyler Phytopatholo S4(6):729-73S Jun 1964 464.8 PS6 Cerocosporella herpotrichoides, Cuiture media, Sporulation. 2350-67 RELATION OF NITROGEN TO DISEASE DEVELOPMENT IN RICE SEED-LINGS INFECTED WITH HELMINTHOSPORIUM ORYZAE. S B Chattopadhyay J G Dickson Phytopatholo S0(6):434-438, PL. Jun 1960 464.8 PS6 Heiminthosporlum oryzae, Nitrogen, Rice, Seedlings. 2351-67 A TECHNIQUE FOR THE SELECTION AND DISINFESTATION OF INDIVI-DUAL NEMATODES. T Chen Phytopathoio S4(2):127 Feb 1964 464.8 PS6 Chemical control (nematodes). 2352-67 552-67 PENETRATION AND SUBSEQUENT DEVELOPMENT OF THREE FUSARIUM SPECIES IN ALFALFA AND RED CLOVER. C C Chi W R Childers E W Hanson Phytopatholo S4(4):434-437, PL. Apr 1964 464.B PS6 Alfalfa, Fusarium, Red clover. 2353-67 VIRULENCE OF RHIZOCTONIA SOLANI ON ALFALFA AND RED CLOVER. C C Chi W R Chiiders Plant Dis R 49(6):S12-S1S 1S Jun 196S 1.9 P69P Aifaifa, Epidemiology, Red clover, Rhizoctonia solani. 2354-67 MECHANISM OF WILTING INCITED BY FUSARIUM IN RED CLOVER. C C Chi E W Hason Phytopatholo S4(6):646-653, BIBL, 652-653 Jun 1964 464.8 PS6 Fusarlum, Red clover, Wiiting.

PAGE 17

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20 2355-67 2355-67 INHERENT GERMINABILITY AND SURVIVAL OF SPORES OF COCHLIG-80LUS SATIVU5. S H F Chinn R D Tinline Phytopethoio 54(3):349-352, TABS. Mer 1964 464.8 P56 Cochlioboius setivus, Solis, Spore germinetion, Spore survival. 2356-67 PHYSIOLOGIC RACES OF PUCCINIA GRAMINIS TRITICI IN SOUTHERN KORFA. NURCH. H S Chung 8 K Chung Pient Dis R 45(9):680 15 Sep 1961 1.9 P69P Koree, Puccinie greminis tritici, Stem rust (wheat). 2357-67 MYROTHECIUM RORIDUM TODE AS A COTTON PATHOGEN. M Cognee L 5 Bird Phytopetholo 54(6):621 May 1964 464.8 P56 Cotton, Microorgenisms, Myrothecium roridum Tode. 2358-67 DODINE, AN OUTSTANDING FUNGICIDE FOR PECAN 5CA8 CONTROL. J Cole Pient Dis R 44(4):251-252 15 Apr 1960 1.9 P69P Dodine, Fungicides, Pecens, Sceb (pecens). 2359-67 LIVER SPOT DISEASE OF PECAN EXTENDS ITS RANGE INTO GEORGIA. J R Cole Pient Dis R 49(2):148 15 Feb 1965 1.9 P69P Georgie, Liver spot (pecen), Pecens. 2360 - 671964 5PRAY TESTS TO CONTROL PECAN SCAB. J R Cole Pient Dis R 49(8):703-707, TA8S Aug 1965 1.9 P69P Fusicledium effusum (Wint.), 5ceb (pecen), 5praying. 2361 - 67SCA8 IS NOW AFFECTING THE STUART VARIETY OF PECAN IN GEOR-GIA A5 WELL AS IN OTHER SOUTHEASTERN STATES. GIA AS WELL AS IN UIRER SUUIHEASIERN SIAIES. JR Cole Plent Dis R 45(12):911 IS Dec 1961 1.9 P69P Fusicledium effusum Wint., Georgie, Pecens, Sceb (pecens). 2362-67 THE NORTH AMERICAN 1961 SET OF SUPPLEMENTAL DIFFERENTIAL WHEAT VARIETIES FOR LEAF RUST RACE IDENTIFICATION. Committee Of North American Wheet Leaf Rust Research Workers Plent Dis R 45(6):444-446 15 Jun 1961 1.9 P69P Leef rust (wheet), Nomencleture, Plent diseese resistence, Puccinie recondite. 2363-67 REFERENCE TO MELILOTUS ITALICA, A NEW HOST FOR UROMYCES STRIATUS . I L Conners Plant Dis R 44(5):373 15 May 1960 1.9 P69P Melilotus itelice, Plant diseeses, Plent hosts, Uromyces striatus. VIRUS DISFASES OF THE PAPAYA IN FLORIDA. R A Conover Phytopetholo 52(1):6 Jen 1962 464.8 P56 Fioride, Pepeyes, Virus diseeses (plents). 2365-67 OCCURRENCE OF VIRUSES CAUSING RASPBERRY MOSAIC IN SOME COM-MERCIAL STOCKS OF RED RASPBERRY IN EASTERN UNITED STATES. R H Converse Pient Dis R 45(11):882-883 15 Nov 1961 1.9 P69P Moseic (respherries), Rubus. 2366-67 CORRELATION BETWEEN FUSARIUM WILT INDICES OF COTTON VARIE-TIE5 WITH ROOT-KNOT AND WITH STING NEMATODES A5 PREDISPOS-ING AGENTS.

W E Cooper B 8 Brodie Phytopatholo 52(1):6 Jen 1962 464.8 P56 Belonoleimus longicaudetus, Cotton, Fusarium oxysporum, Meloidogyne incognite, Nemetodes, Root knot (cotton), Wilt (cotton). 2367-67 367-67 A NEW HOST FOR FOMES ANNOSUS, POLYPORUS SCHWEINITZII AND FOMES PINI. C E Cordeii J 5 Astin Jr Plent Dis R 49(4):360 15 Apr 1965 I.9 P69P Fomes ennosus, Fomes pinl, Pient hosts, Polyporus schweinitzli. 2368-67 HISTOLOGICAL AND CONTROL STUDIES OF THE LOPHODERMIUM WEEDLE CAST DISEASE OF EASTERN WHITE PINE. A C Costonis W M Banfield Phytopatholo 54(2):127 Feb 1964 464.8 P56 Lophodermium. Needle cest (pinus), Pinus strobus. 2369-67 369-67 FIELD SUSCEPTIBILITY OF PEPPER VARIETIES AND SELECTIONS TO FRUIT ROT CAUSED BY ALTERNARIA TENUIS. J W Courter M C Shurtleff F C Quebrel A E Thompson Plant Dis R 49(11):886-890 Nov 1965 1.9 P69P Alternaria tenuis, Black spot (peppers), Peppers, Plent diseese resistance. 2370-67 FIELD RE515TANCE OF FLAX TO PA5MO. R P Covey Jr Phytopetholo 52(1):6 Jen 1962 464.8 P56 Flax, Pesmo (flex), Plant disease resistence. 2371-67 NIEV MATERIALS FOR THE CONTROL OF APPLE POWDERY MILDEW. R P Covey Jr P Figaro Plent Dis R 49(10):876-877 Oct 1865 1.9 P69P Appies, Fungicides, Powdery mildew (eppies). 2372-67 INFLUENCE OF TEMPERATURE ON GROWTH OF FOMES ANNOSUS ISO-LATES. LAIES. E 8 Cowling A Kelmen Phytopetholo 54(4):373-378, 818L., 378, TA85. Apr 1964 464.8 P56 Fomes ennosus, Fungus cultures, Isoletes, Tempereture. 2373-67 CHARACTERISTICS OF ROSE POWDERY MILDEW FUNGI IN WISCONSIN. D L Çoyier A C Hildebrandt Phytopethoio 52(1):6-7 Jen 1962 464.8 P56 Mildew (plents), Wisconsin. 2374-67 CONTROL OF PEPPER SACTERIAL SPOT SY FERTILIZER AND SY FOLIAR SPRAY5. D F Crossen D J Fieldhouse P P Surbutis W W Townsley Jr Plent Dis R 45(2):120-123, TAB5. 15 Feb 1961 1.9 P69P Becteriei spot (redpeppers), Fertilizers, Folier epplication, Xenthomones vesicatoria. 2375-67 ISOLATION OF XANTHOMONAS VESICATORIA FROM TISSUES OF CAP-ISOLATION OF XANIHUDUNAS V SICUM ANNUUM. D F Crossan A L Morehert Phytopetholo 54(3):358-359 Mer 1964 464.8 P56 Sush redpeppers (vegeteble), Phytopethology, Tissues, Xanthomonas vesicetorie. 2376-67 RUST ON SUNFLOWERS IN THE MISSISSIPPI DELTA. T W Cuip M L Kinmen Plent Dis R 49(5):433-434 15 Mey 1965 1.9 P69P Mississippi, Puccinie helienthi 5chw., Rust (sunflowers), Sunflowers.

2377-67 RUSTY SPOT OF PEACH AND ITS CONTROL IN NEW JERSEY. R H Daines C M Haenseier E Brennan I Leone Piant Dis R 44(1):20-22 IS Jan 1960 1.9 P69P Fungus diseases (piants), Peaches, Piant disease controi, Rusty spot (peaches). 2388-67 INFLUENCE OF TEMPERATURE ON INIATION OF CROWN GALL IN WOODY I W Deep H Hussin Piant Dis R 49(9):734-735, TABS. Sep 1965 1.9 P69P Agrobacterium tumefaciens, Crown galis (herbs), Herbs, Piant hosts, Soil temperature. 237B-67 ADDITIONAL DATA ON CORN VIRUS IN ARKANSAS. 2389-67 J L Dale Plant Dis R 49(3):202-203 18 Mar 1965 1.9 P69P Arkansas, Corn, Plant disease transmission, Plant hosts. EFFECT OF FRUIT SHAPE ON THE OCCURRENCE OF INTERNAL MOLD IN CANNERY PIMIENTOS. A H Dempsey H L Cochran Piant Dis R 49(2):1S7-1S8 15 Feb 196S 1.9 P69P Bush redpeppers (vegetable), Frult shape, Moids, Pimlentos. 2379-67 INFECTION OF SUGARCANE WITH MECHANICALLY TRANSMISSIBLE CORN 2390-67 VIRUS. VIRUS. J L Daie L Anzalone Jr Piant Dis R 49(9):7S7-7S9 Sep 1965 I.9 P69P Corn, Plant disease transmission, Sugarcane, Virus diseases piants. LEAF BLIGHT OF DRACAENA INCITED BY PHYLLOSTICTA DRACONIS. M V Desai K P Patei Piant Dis R 4S(3):203 1S Mar 1961 1.9 P69P Leaf spot (dracaena), Phyliosticta draconis. 2380-67 2391-67 INHERITANCE OF RESISTANCE IN BARLEY TO BARLEY YELLOW DWARF. V D Damsteegt G W Bruchi CHEMICAL CONTROL OF PEACH TREE CHLOROSIS. LE Dickens W J Henderson J Altman Piant Dis R 44(S):317 IS May 1960 1.9 P69P Chemicai controi (piant diseases), Chemicais, Chlorosis (peaches), Peaches. Phytopathoio S4(2):219-224, TA8S. Feb 1964 464.8 PS6 Bariey, Heredity (piants), Plant dlsease resistance, Piant genetics, Yeilow dwarf (barley). 2381-67 2392-67 SOIL AND FOLIAR TREATMENTS FOR THE CONTROL OF SCLEROTINIOSE PATHOGENICITY AND POPULATION TRENDS OF PRATYLENCHUS PENE-TRANS ON POTATO AND CORN. O J Dickerson H M Dariing G D Griffin OF LETTUCE. UF LETTUCE. J F Darby Piant Dis R 45(7):SS2-SS6, TABS. 1S Jui 1961 1.9 P69P Foliar application, Lettuce, Lettuce drop, Scierotiniose, Soli treatment. Phytopatholo 54(3):317-322, 81BL, 322 TABS. Mar 1964 464.8 PS6 Corn, Pathogenicity, Population statistics, Potatoes, Pratylenchus penetrans. 2382-67 2393-67 582-67 A STEMPHYLIUM LEAF SPOT DISEASE OF GRAM. G N Das P K Sen Gupta Plant Dis R 45(12):979 15 Dec 1961 1.9 P69P DODINE-CAPTAN COMBINATION CONTROLS BACTERIAL SPOT OF PEACH. U L Diener C C Cariton Piant Dis R 44(2):136-13B 15 Feb 1960 1.9 P69P Chickpeas, Gram, Leaf spot (gram), Stemphylium. Bacteriai spot (peaches), Captan, Dodine, Peaches. 2383-67 2394-67 394-57 INVASION OF PEANUT PODS IN THE SOIL BY ASPERGILLUS FLAVUS. U L Diener C R Jackson ₩ E Cooper R J Stipes N D Davis Piant Dis R 49(11):931-935, TABS. Nov 1965 1.9 P69P EXPERIMENTS ON MECHANICAL TRANSMISSION OF CITRUS VIRUSES. D Dauthy J M Bove Int Organ Citrus Viroi Pr 3RD:2S0-2S3 1963 464.06 IN82 Citrus, Piant disease transmission, Virus diseases (piants). Aspergllius flavus, Peanuts, Soli contamination. 23B4-67 2395 - 67995-67 THE PREVALENCE OF LATENT VIRUSES IN GREGON APPLE TREES. G G Dimalia J A Milbrath Piant D1s R 49(1):15-17, TABS. 15 Jan 1965 1.9 P69P Apples, Oregon, Virus diseases (piants). PAXILLUS ATROTOMENTOSUS CAUSES BROWN ROOT ROT IN DEAD JACK PINE IN PLANTATIONS IN WISCONSIN. PINE IN PLANTATIONS IN WISCUNSIN. R W Davidson R F Patton Piant Dis R 45(11):836-83B IS Nov 1961 1.9 P69P Brown root root (pinus banksiana), Fungi, Paxiiius atrotomentosus, Pinus banksiana, Plantations, 2396-67 EFFECTS OF NUTRITION ON THE CHLOROTIC DWARF DISEASE ON EASTERN WHITE PINE. Wisconsin. LASILERN WHITE PIRE. L S Dochinger Plant Dis R 4B(2):107-109 IS Feb 1964 I.9 P69P Chiorotic dwarf (pinus strobus), Pinus strobus, Piant nutrition. 238S-67 RACES OF UREDIOSPORE CONCENTRATION ON DETERMINATION OF RACES OF UROMYCES PHASEOLI VAR, PHASEOLI. A D Davison E K Vaughan Phytopathoio S4(3):336-338, PL. Mar 1964 464.B PS6 Biologicai races, Inoculum, Pustules, Spore concentration, Urediospore, Uromyces phaseoii var. phaseoii. 2397-67 OAK WILT IDENTIFIED IN TEXAS. O J Dooling Plant Dis R 4S(9):749 2386-67 ANTHRACNOSE INOCULATION OF SORGO WITH A TRACTOR-MOUNTED 15 Sep 1961 1.9 PG9P Ceratocystis fagacaerum, Quercus, Texas, Wiit (quercus). SPRAYER. J L Dean Phytopatholo S4(6):621-622 Jun 1964 464.B PS6 Anthracnose (sorgho), Immunization, Sorgho, Sprayer. 2398-67 998-67 THE ERADICATION OF CITRUS CANKER. R N Dopson Jr Piant Dis R 4B(1):30-31 IS Jan 1964 1-9 P69P Canker (citrus), Citrus. 2387-67 COMPARISON OF STANDARD FUNGICIDES RECOMMENDED FOR CONTROL OF PUNDERY MILDEW OF ROSES. I W Deep A Bartlett Plant Dis R 45(8):528-631 IS Aug 1961 1.9 P69P Fungicldes, Phytotoxicity, Powdery mildew (rosa), Rosa. 2399-67 OBSERVATIONS ON FOMES ANNOSUS ROOT-ROT IN NATURAL STANDS OF LOBLOLLY AND SHORTLEAF PINE. C H Driver T R Dell Plant Dis R 45(S):332-353

PAGE 19

20 2399-67

15 May 1961 1.9 P69P Fomes annosus, Pinus echlnata, Plnus taeda, Root rot (pinus echinata), Root rot (pinus taeda). HOST RELATIONSHIPS OF BEET WESTERN YELLOWS VIRUS STRAINS. J E Duffus Phytopatholo 54(6):736-73B, TABS. Jun 1964 464.8 P56 Beets, Host range, Western yellows (sugar beets). 2401-67 BACTERIAL WILT OF TAGETES MINUTA. P D Dukes D J Morton S F Jenkins Jr Plant Dis R 49(10):847-B48 Oct 1965 1.9 P69P 8acterial wilt (Tagetes minuta), Tagetes minuta. 2402-67 THE IDENTIFICATION AND PERSISTENCE OF AN INDIGENOUS RACE OF THE IDENTIFICATION AND PERSISTENCE OF AN INDIGENOUS RACE PSEUDOMONAS SOLANACEARUM IN SOIL IN GEORGIA. P D Dukes S F Jenkins Jr C A Jaworski D J Morton Piant Dis R 49(7):S86-S90 Jul 1965 1.9 P69P Georgia, Pseudomonas solanacearum, Soil microorganisms. 2403-67 003-67 INFLUENCE OF HOST PASSAGE ON VIRULENCE OF PHYTOPHTHORA PARASITICA VAR. NICOTIANAE. P D Dukes J L Apple Plant Dis R 45(S):362-365 15 May 1961 1.9 P69P Black shank (tobacco), Phytophthora parasitica var.nlcotianae, Piant disease resistance. 2404-67 STUNT DISEASE OF SOYBEANS CAUSED BY CORYNEBACTERIUM SP. J Dunieavy Phytopatholo S2(1):B Jan 1962 464-B P56 Corynebacterlum spp., Soybeans, Stunt (soybeans). 2405-67 SCLEROTIUM DISEASE OF COFFEE INCITED 8Y SCLEROTIUM COFFEI-COLUM. E Echandl A Salas Phytopatholo 54(5):498 May 1964 464.8 PS6 Coffee, Sclerotium coffeicolum, Scierotium disease (coffee). 2406-67 COMBINED RELATION OF PLANT MATURITY, TEMPERATURE, AND SOIL MOISTURE TO CHARCOAL STALK ROT DEVELOPMENT IN GRAIN SORGHUM. L K Edmunds Phytopatholo 54(5):514-517, TABS. May 1964 464.B PS6 Charcoal rot (sorghum), Plant physiology, Soll moisture, Sorghum, Temperature. 2407-67 WI/-O/ MAIZE DWARF MOSAIC IN OHIO IN 1964. C W Ellett B F Janson L E Williams Plant Dis R 49(7):615-616 Jul 1965 1.9 P69P Corn, Dwarf mosalc (malze), Ohlo. 2408-67 DETECTION OF PSOROSIS VIRUS IN LEAVES OF SOUR ORANGE BY THE DDINE TEST. H M Elsald J B Sinclair Phytopatholo 54(6):622 Jun 1964 464.8 PS6 Iodine, Psorosis (oranges), Sour oranges. 09-67 DETECTION OF PSOROSIS VIRUS INFECTION IN LEAVES OF SOUR ORANGE BY THE IODINE TEST. H M Elsald J & Sinclair Piant Dis R 49(1):18-20 15 Jan 1965 1.9 P69P Iodine test, Leaves, Psorosis (oranges), Sour oranges. 2410-67 PENETRATION AND DEVELOPMENT OF HETERODERA GLYCINES IN SOY-BEAN ROOTS AND RELATED ANATOMICAL CHANGES. Y Endo Phytopatholo 54(1):79-BB Jan 1964 464.8 P56 Heterodera glycines, Heterodera glycines, PAGE 20

20 2400-67

Nematode morphology. Soybeans. 2411-67 TURFGRASS DISEASES IN SOUTHERN CALIFORNIA. R M Endo Plant Dis R 4S(11):869-873, BIBL. 873 Tallfornia, Fungus diseases (plants), Heiminthosporlum, Root rot (turf), Turf. 2412-67 U2-67 QUANTITATIVE DETERMINATION OF THE FREE AMINO ACIDS AND AMIDES IN ROOTS AND LEAVES OF HEALTHY AND EXOCORTIS-INFECTED CITRUS SINENSIS OSBECK ON PONCIRUS TRIFOLIATA RAF. A W Feldman R W Hanks Int Organ Cltrus VIroi Pr 3RD:285-290 1963 464.06 INB2 Amides, Amino acids, Citrus, Citrus sinensis Osbeck, Exocortis (citrus), Leaves, Poncirus trifoilata Raf., Quantitative analysis, Roots. 2413-67 Al3-67 CROWN-GALL DISEASE ON RHODODENDRON. L M Fenner Plant Dis R 49(4):360 15 Apr 1965 1.9 P69P Crown gall (rhododendron), Rhododendron. 2414-67 114-67 A GENERALIZED LIFE CYCLE OF PATHOGENS OF TREES. C L Fergus W J Stambaugh Plant Dis R 45(12):916-917 15 Dec 1961 1.9 F69P Fungus diseases (plants), Life cycle, Tree diseases. 2415-67 ND-67 THE EFFECT OF CONIDIAL CONCENTRATION ON PERITHECIAL FORMATION BY THE OAK WILT FUNGUS. C L Fergus W J Stambaugh F W Cobb Jr R A Schmidt Plant Dis R 45(9):736-73B 1S Sep 1961 1.9 P69P Ceratocystls fagacearum, Perithecla, Quercus, Will (concerne). Wilt (quercus). 2416-67 A BARLEY LOOSE SMUT EPIDEMIC IN MINNESOTA IN 1959. K D Fezer H G Johnson Piant Dis R 44(1):71 IS Jan 1960 1.9 P69P Barley, Loose smut (barley). 2417-67 INOCULUM SUPPLY AS A VARIABLE IN THE EPIPHYTOLOGY OF LOOSE SMUT OF BARLEY AND WHEAT. K D Fezer Phytopatholo S2(1):9-10 Jan 1962 464.B PS6 Barley, Loose smut (barley), Loose smut (wheat), Wheat. ISOLATIONS FROM MYCORRHIZAL ROOTS OF SWEETGUM. TH Filer Jr E R Toole Plant DIs R 49(10):869-870 Oct 1965 1.9 P69P Liquidambar styracifiua, Mycorrhiza, Roots. 2419-67 DAMAGE TO TURFGRASSES CAUSED 8Y CYANOGENIC COMPOUNDS PRO-DUCED BY MARASMIUS OREADES, A FAIRY RING FUNGUS. T H Filer Jr Plant Dis R 49(7):S71-574 Jul 1965 1.9 P69P Agrostis tenuls, Cyanogenic compounds, Fairy rings (grasses), Festuca rubra, Marasmlus oreades, Poa pratensis, Turf. 2420-67 \$20-67 EFFECT OF BARLEY STRIPE MOSAIC ON WHEAT. P J Fitzgerald R G Timlan Plant D1s R 44(S):359-361 15 May 1960 1.9 P69P Bariey, Stripe mosalc (barley), Wheat. 2421-67 VARIABILITY IN THE PHYSIOLOGIC RACE POPULATIONS OF OAT CROWN RUST ISOLATED FROM AECIA AND UREDIA. G Flelschmann Plant Dis R 49(2):132-133 15 Feb 1965 1.9 P69P Aecia, Crown rust (oats), Uredia.

7472-67 2433-67 A BARK DISORDER OF GRAPEFRUIT. J L Foguet Int Organ Citrus Viroi Pr 3RD:199-203 1963 464.06 IN82 Bark diseases, Grapefruit. 2423-67 D STALK DETERIORATION OF PLANTS SUSCEPTIBLE TO CORN STALK ROT. D C Foley 2434-67 Phytopatholo 52(1):10 Jan 1962 464.8 P56 Deterloration, Stalk rot (corn). 2424-67 124-67 A SECOND INDEPENDENT GENE IN OLUE LUPINE CONDITIONING RESISTANCE TO STEMPHYLIUM SOLANI. I Forbes H D Wells J R Edwardson Phytopatholo 54(1):54-55 Jan 1964 464.8 P56 Junipe, Lupineus accustificius. Piant disease resistance. 2435-67 Lupine, Lupinus angustlfolius, Plant disease resistance, Plant genetics, Stemphylium solani. 2436-67 2425-67 PHRAGMIDIUM ROSE RUST EPIDEMIC IN LOUISIANA STATE UNIVER-SITY GARDENS. I L Forbes T P Pirone Piant Dis R 45(4):274-275 IS Apr 1966 1.9 P69P Gardens, Louisiana, Phragmidium, Rust (roses). 7437-67 2426-67 STUDIES ON THE DISEASE CYCLE OF RED ROT OF SUGARCANE IN LOUISIANA. I L Forbes F Sancheznavarrete Phytopatholo 52(1):10 Jan 1962 464.8 P56 Louisiana, Red rot (sugarcane), Sugarcane. 2438-67 2427-67 227-67 RELATIVE SEVERITY OF LEGUME VIRUSES IN PEAS MEASURED 8Y PLANT GROWTH REDUCTION. R E Ford J R 8aggett Plant Dis R 49(7):627-629 Jul 1965 1.9 P69P Legumes, Peas, Plant physiology, Virus diseases (plants). 2439-67 2428-67 A28-67 REACTIONS OF PLANT INTRODUCTION LINES OF PISUM SATIVUM TO ALFALFA MOSAIC, CLOVER YELLOW MOSAIC, AND PEA STREAK VIRUS-ES, AND TO POWDERY MILDEW. R E Ford J R 8aggett Piant Dis R 49(9):787-789 Sep 1965 1.9 P69P Mosaic (alfalfa), Peas, Pisum sativum, Piant introduction, Powdery mildew, Streak (peas), Yellow mosaic (clover). 2440-67 ENATION SYMPTOMS IN TOBACCO INDUCED BY ALFALFA MOSAIC VIRUS. Plant Dis R 49(8):684-686 Aug 1965 1.9 P69P Enation mosaic (tobacco), Mosaic (alfalfa), Tobacco. EVIDENCE OF A TOXIC SUBSTANCE PRODUCED BY FUNGI INVOLVED IN SEED-PIECB ROT OF SUGARCANE. W D Forrest R J Stelb Phytopatholo 5Z(1):10 Jan 1962 464.8 P56 Fungi, Rot (sugarcane), Sugarcane, Toxins. 2442-67 2431-67 31-67 YELLOW 8UD VIRUS ENDEMIC ALONG CALIFORNIA COAST. N W Frazler C E Yarwood A H Goid Piant Dis R 45(8):649-651, 818L. 650-651 15 Aug 1961 1.9 P69P California, Yeliow bud mosalc (peaches). 2443-67 2432-67 DIFFERENTIAL TRANSMISSION OF NINETEEN VARIATIONS OF STRAW-BERRY MOTTLE VIRUS BY APHIS GOSSYPII GLOVER. N W Frazler Plant Dis R 44(1):12 15 Jan 1960 1.9 P69P Aphis gossypll Glover, Mottie (strawberrles), Plant disease transmission, Strawberrles.

CORN NATURALLY INFECTED BY SUGARCANE MOSAIC VIRUS IN CALI-FORNIA. N W Fraziez J H Freitag A H Goid Plant Dis R 49(3):204-206 IS Mar 1965 1.9 P69P California, Corn, Mosalc (sugarcane). ASTER YELLOWS OF FLAX. R A Frederiksen Phytopathoio 54(1):44-48, TA8S. Jan 1964 464.8 PS6 Aster yeliows (flax), Flax. 335-67 RUST OF 20YSIA SPP. IN FLORIDA. T E Freeman Piant Dis R 49(S):382 15 May 1965 1.9 P69P Fiorida, Zoysia japonica, Zoysia matrelia, Zoysia pungentis. LEUCOPTERA SPARTIFOLIELLA, AN INTRODUCED ENEMY OF SCOTCH 8ROOM IN THE WESTERN UNITED STATES. K E Frick J Econ Entom 57(4):889-591 Aug 1964 421 J822 Cytlsus scoparius, Western United States. N37-67 RELEASE OF VIRUS-INDEXED PRUNUS BUDWOOD FROM THE INTERREG-IONAL REPOSITORY. P R Fridiund Piant Dis R 49(3):187-188 15 Mar 1965 1.9 P69P Piant repositories, Prunus budwood, Virus Indexing (piants). THE IMPORTANCE OF GREEN RING MOTTLE VIRUS DETECTION IN A PRUNUS VIRUS INDEXING PROGRAM. P R Fridlund Plant Dis R 45(9):687-689 15 Sep 1961 1.9 P69P Green ring mottle (prunus), Indexing, Prunus. A METHOD FOR SCREENING ALFALFA PLANTS FOR RESISTANCE TO PSEUDOPEZIZA MEDICAGINIS. PSEUDUPEZIZA MEDICAGINIS. F I Frosheiser Phytopathoio SO(7):S68 Jui 1960 464.8 PS6 Alfalfa, Leaf spot (alfalfa), Medicago sativa L., Pseudopeziza medicaginis. CLAVICEPS GIGANTEA, A NEW PATHOGEN OF MAIZE IN MEXICO. CLAVIEPS GLOANIER, A NEW PAILOEN OF MALE I SF Fuentes M Lourdes de la Isia A J Ulistrup Phytopatholo 54(4):379–381, PL. Apr 1964 464.8 P56 Claviceps glgantea, Corn, Corn, Mexico. 2441-67 FACTORS RELATED TO SOIL TRANSMISSION OF TOBACCO RINGSPOT VIRUS. J P Fulton Phytopatholo SZ(1):10 Jan 1962 464.8 PS6 Ring spot (tobacco), Solls. VARIETAL RESISTANCE TO SEEDLING DISEASE IN COTTON. VARIETAL RESISTANCE TO SEEDLING DISEASE IN CUT N D Fulton 8 A Waddle K Bollenbacher Phytopathoio SZ(1):10 Jan 1962 464.8 P56 Cotton, Plant diseases, Plant pest resistance. HISTORY OF BLACK SHANK IN GEORGIA FLUE-CURED TOBACCO IN-CLUDING SPREAD OF THE DISEASE IN 1959. J G Galnes Plant DIS R 44(3):1SS-1S8 15 Mar 1960 I.9 P69P Black shank (tobacco), Flue-cured tobacco, Plant disease transmission. MATING TYPES IN PHYTOPHTHORA CINNAMOMI. J Galindo A. G A Zentmyer Phytopatholo 54(5):499

PAGE 21

20 2444-67

20 2445-67 May 1964 464.B PS6 Mating, Phytophthora cinnamomi. 2445-67 HOST RANGE AND INSECT TRANSMISSION OF THE HOJA BLANCA DI-HUSI KANGE AND INSELT KANOMISSIUM U SEASE OF RICE. G E Galvez H D Thurston P R Jennings Plant Dis R 45(12):949-953, TABS. 15 Dec 1961 1.9 P69P Echinochioa, Grasses, Hoja blanca (rice). 2446-67 TRANSMISSION OF HOJA BLANCA OF RICE BY THE PLANTHOPPER, SUGATA CUBANA. SUGATA CUBANA. G E Gaivez H D Thorston P R Jennings Plant Dis R 44(6):394 1S Jun 1960 1.9 P69P Hoja blanca (rice), Plant disease transmission, Planthoppers, Sogata cubana, Virus diseases (plants). 2447-67 INOCULUM POTENTIAL AND DIFFERENCES AMONG PEANUTS IN SUSCEP-TIBILITY TO SCLEROTIUM ROLFSII. TIBLITY TO SCLENUTION RULFSII. K H Garren Phytopatholo S4(3):279-281 Mar 1964 464.8 PS6 Inoculum, Peanuts, Plant disease resistance, Sclerotium rolfsii. 2448-67 VARIETAL RESISTANCE TO FLAG SMUT IN KENTUCKY BLUEGRASS. T A Gaskin Plant Dis R 49(12):1017 Dec 1965 1.9 P69P Dec 1965 1.9 PO9P Flag smut (Poa pratensis), Plant disease resistance, Poa pratensis, Urocystis agropyri. 2449-67 VARIETAL REACTION OF KENTUCKY BLUEGRASS TO SEPTORIA LEAF VARILIAL REACTION OF REMIDENT BLOCKASS TO SPOT (SEPTORIA MACROPODA). T A Gaskin Plant Dis R 49(9):802 Sep 1965 1.9 P69P Leaf spot (Poa pratensis), Poa pratensis, Septoria macropoda. 2450-67 NSU-67 EFFECT OF CHEMICAL SEED TREATMENTS ON THREE DIFFERENT LOTS OF THE SAME VARIETY OF COTTON. J D Gay J H Owen Plant Dis R 49(B):720-722 Aug 1965 1.9 P69P Cotton, Seed treatment. 2451-67 *31-67 NATURAL OCCURRENCE OF HOJA 8LANCA ON WHEAT AND OATS. J W Gibler P R Jennings C F Krull Plant Dis R 4S(5):334 1S May 1961 1.9 P69P Hoja blanca (rice), Insect vectors, Oats, Wheat. 2452-67 VARIATION IN ISOLATES FROM ARMILLARIA ROOT DISEASE IN NYASALAND. I A S Gibson D C M Corbett Phytopatholo S4(1):122-123 Jan 1964 464-B PS6 Armillaria tabescens, Nyasaland, Root rot (ciitocybe). 2453-67 SILVER NITRATE INCREASES INFECTION BY TOBACCO MOSAIC VIRUS. C C GII C E Yarwood Plant Dis R 48(1):21-25 IS Jan 1964 1.9 P69P Mosaic (tobacco), Silver nitrate. 2454-67 IS4-67 OAK WILT SURVEYS IN WEST VIRGINIA. W H Gillespie Plant Dis R 49(2):173-177 IS Feb 1965 1.9 P69P Aerial surveys, Ground surveys, West Virginia, Wilt (quercus). 2455-67 CHERRY ROSETTE: ITS NONIDENTITY WITH PFEFFINGERKRANKHEIT AND ITS POSSIBLE AFFINITY WITH STECKLINBURGER DISEASE. R M Gimer Plant Dis R 4S(3):22B-231, BIBL. 230-231 15 Mar 1961 1.9 P69P PAGE 22

Necrotic ringspot virus, Pfeffingerkrankheit, Rosette (cherries), Steckiinburger. 2456-67 A BLIGHT OF GROUND CHERRY AND RUSSIAN ALMOND SEEDLINGS CAUSED BY GLOEOSPORIUM FRUCTIGENUM BERK. R M Gilmer Plant Dis R 44(6):395 15 Jun 1960 I.9 P69P Aimonds, Biight (ground cherry), Glocosporium fructigenum Serk, Russian aimonds, Seediings. 2457-67 THE FREQUENCY OF NECROTIC RING SPOT, SOUR CHERRY YELLOWS, AND GREEN RING MOTTLE VIRUSES IN NATURALLY INFECTED SWELT AND SOUR CHERRY ORCHARD TREES. AND SUDE CHEEKE URCHARD TREES. R M Gilmer Plant Dis R 45(8):612-615, TABS. 15 Aug 1961 1.9 P69P Green ring mottie (cherries), Mazzard cherries, Sour cherry necrotic ring spot (cherries), Sour cherry yellows (cherries). 2458-67 THE RAPID DETERMINATION OF NECROTIC RING SPOT AND SOUR CHER-RY YELLOWS VIRUSES OF STONE FRUITS. R M Glimer Plant Dis R 45(B):608-611 Plant Dis K 45(b):00B-011 18 Aug 1961 1.9 P69P Fruit, Ring spot (fruit), Ring spot (prunus), Sour cherry yellows (cherries). 2459-67 159-67 THE POTENTIAL OF MAGDALIS SPP. IN THE TRANSMISSION OF CERATOCYSTIS ULMI (BUIS.) MOREAU. R D Goeden D M Norris J Econ Entom 56(2):23B-239 Apr 1963 421 JB22 Ceratocystis ulmi (Buis.) Moreau, Insect vectors, Plant disease transmission. 2460-67 60-67 A NEW RACE OF BEAN RUST IN ARKANSAS. M J Goode Piant Dis R 45(9):690-691 IS Sep 1961 1.9 P69P Arkansas, Beans, Kidney beans, Rust (beans), Uromyces phaseoli. 2461-67 SOIL-BORNE INFECTION OF BULBOUS IRIS BY SCLEROTINIA BULBOR-SUL-SURME INFECTION OF BULBOUS INTS BY SCLERUTINIA BU UM CONTROLLED BY BULB AND SOIL TREATMENTS WITH PCNB. . C J Gould T S Russell Plant Dis R 49(S):443-446 1S May 1965 1.9 P69P Bulb treatment, Iris, Pentachloronitrobenzene, Sclerotinia bulborum, Soil treatment, Soil-borne plant diseases. 2462-67 462-67 NEW EXPERIMENTAL AND COMMERCIAL FUNCICIDES FOR CONTROL OF FUSARIUM PATCH DISEASE OF BENTGRASS TURF. C J Gould V L Miiler R L Goss Plant Dis R 49(11):923-927 Nov 1965 1.9 P69P Agrostis tenuis, Fungleides, Fusarium nivaie, Fusarium patch (Agrostis tenuis), Turf. 2463-67 EFFICIENCY OF VARIOUS METHODS OF APPLYING PCNB FOR PREVENT-ING SOIL-BORNE INFESTATION OF BULBOUS IRIS BY SCLEROTIUM ROLFSII. C J Gould T S Russeli Plant Dis R 49(2):149-153, TABS. 15 Feb 1965 I.9 P69P Iris, Pentachloronitrobenzene, Sclerotium roifsii, Soil-borne plant diseases. 2464-67 FUNGICIDAL TESTS FOR CONTROL OF FUSARIUM PATCH DISEASE OF TURF C J Gould R L Goss V L Miller Plant Dis R 45(2):112-11B, TABS. 15 Feb 1961 1.9 P69P Fungicides, Fusarium patch disease, Turf. 2465-67 ODPHIO80LUS PATCH DISEASE OF TURF IN WESTERN WASHINGTON. C J Gould R L Goss M Eglitis Plant Dis R 45(4):296-297

15 Apr 1966 1.9 P69P Ophiobolus patch, Turf, Washington. 2466-67 INTERNAL BREAKDOWN IN CROWN OF RED CLOVER. J H Graham C L Rhykerd R C Newton Piant Dis R 44(1):59-61 15 Jan 1960 1.9 P69P Crown rot (red ciover), Fungus diseases (piants), Necrosis, Red clover. 2467-67 167-67 CITRUS VARIETY REACTION TO TRISTEZA VIRUS IN BRAZIL WHEN USED IN VARIOUS ROOTSTOCKS AND SCION COMBINATIONS. T J Grant S Moreira A A Salibe Piant Dis R 45(6):416-421 15 Jun 1961 1.9 P69P Brazil, Rootstocks, Scion, Tristeza (citrus). 2468-67 PROGRESS IN CITRUS VIROLOGY: MECHANICAL TRANSMISSION. T J Grant M K Corbett Int Organ Citrus Viroi Pr 3RD:244-249 1963 464.06 IN82 Citrus, Plant disease transmission, Virology. 2469-67 AERIAL APPLICATION OF FUNGICIDES FOR PECAN SCA8 CONTROL. C H Graves Jr Phytopathoio 52(1):11 Jan 1962 464.8 P56 Aerial spraying, Fungicides, Pecans, Scab (pecans). 2470-67 CONTACT FUNGICIDES FOR PEACH SCAB CONTROL. C H Graves Jr B C Hurt Jr Piant Dis R 44(2):129 15 Feb 1360 1.9 P69P Fungicides, Peaches, Scab (peaches). 2471-67 CONTACT FUNGICIDES FOR PEACH SCAB CONTROL. C H Graves Jr B C Hurt Jr Phytopathoio 52(1):11-12 Jan 1962 464.8 PS6 Fungicides, Fusiciadium carpophillum, Pecans, Scab (pecans), Spraying. 2472-67 BLACKSTEM OF COTTONWOOD. L E Gray J J Jokeia H B Wycoff Plant Dis R 49(10):B67-B6B Oct 1965 1.9 P69P Black stem (Populus deitoides), Populus deitoides. 2473-67 V73-67 VERTICILLIUM WILT OF POTATO IN NORTHERN INDIANA. R J Green Jr. R W Samson C Fordyce Piant Dis R 45(1):30 15 Jan 1961 1.9 P69P Indiana, Verticiiium aibo-atrum Reinke and Berth, Wiit (potatoes). 2474-67 CROWN ROT OF BOXED BANANAS. G L Greene R D Goos Phytopatholo 52(1):12 Jan 1962 464.8 P56 Bananas, Crown rot (bananas). 2475-67 475-67 ASSOCIATION OF DAGGER NEMATODE, XIPHINEMA AMERICANUM, WITH STUMTING AND WINTERKILL OF ORNAMENTAL SPRUCE. G D Griffin A H Epstein Phytopatholo 54(2):177-180, TABS. Feb 1964 464.B P56 Dagger nematode, Picca, Picca, Stunting (trees), Winterkiii (spruce), Xiphenema americanum. 2476-67 OVERGROWTH IN MALAYAN CROP PLANTS FOLLOWING INFECTION 8Y FUSARIUM SOLANI AND F. DECEMCELLULARE. D A Griffiths W C Lim Plant Dis R 49(12):979-980 Dec 1965 1.9 P69P

Crops, Fusarium decemcelluiare, Fusarium soiani, Maiaya, Plant physiology.

2477-67 THE RELATIONSHIP OF SEVERE BEAN MOSAIC VIRUS FROM MEXICO TO SOUTHERN BEAN MOSAIC VIRUS AND ITS RELATED STRAIN IN COWPEA. R G Grogan K A Kimbie Phytopatholo 54(1):75-78 Jan 1964 464.8 PS6 Cowpeas, Mosaic (beans), Mosaic (cowpeas), Virus diseases (piants). 2478-67 THE RELATIONSHIP OF SEVERE BEAN MOSAIC VIRUS FROM MEXICO TO SOUTHERN BEAN MOSAIC VIRUS. R G Grogan K A Kimbie Phytopatholo 52(1):12 Jan 1962 464.B P56 Beans, Mexico, Mosaic (beans), Viruses. 2479-67 EFFECT OF SOME FUNGICIDES ON PECTOLYTIC ENZYME ACTIVITY OF SCLEROTINIA SCLEROTIORUM AND BOTRYTIS ALLII. R K Grover Phytopathoio S4(2):130-133 Peb 1964 464.B P56 Botrytis allii, Fungicides, Fungus diseases (piants), Peptidases, Scierotinia scierotiorum. 2480-67 CAVITY SPOT DISEASE OF CARROT AND PARSNIP ROOTS. E F Guba R E Young T Ui Plant Dis R 45(2):102–10S 15 Feb 1961 1.9 P69P Cavity spot (carrots), Parsnips, Rainfall. 2481-67 OUTBREAK OF ZONATE LEAFSPOT OF SORGHUM-SUDAN HYBRIDS IN ALABAMA. ALABAMA. R T Gudauskas C S Hoveiand Plant Dis R 49(1):91 15 Jan 196S 1.9 P69P Alabama, Giococercospora sorghi, Sorghum, Sorghum vuigare sudanense, Zonate leafspot. 2482-67 ROOT GRAFTING, A POTENTIAL SOURCE OF ERROR IN APPLE INDEX-ING. H W Guengerich D F Millikan Plant Dis R 49(1):39-41 15 Jan 1965 1.9 P69P Appies, Plant grafting, Virus indexing (plants). 2483-67 A83-67 AACTERIAL BLIGHT OF PEAS INCITED BY PSEUDOMONAS PHASEOLICO-LA (BURK) DOWS. J W Guthrie D M Huber H S Fenwick Piant Dis R 49(10):B54 Oct 1965 1.9 P69P Bacteriai blight (peas), Peas, Pseudomonas phaseolicoia. 24B4-67 CONTROL OF POTATO MOSAIC DISEASES BY EXCLUSION. J W Guthrie Plant Dis R 44(5):340-341 1S May 1960 1.9 P69P Exclusion, Mosaic (potatoes), Potatoes. 2485-67 ATTEMPTS TO CONTROL DISSEMINATION OF INTERNAL CORK VIRUS OF ATTEMPTS TO CONTROL DISSEMINATION OF INTERNAL CORR VIRUS OF SWEETPOTATOES WITH INSECTICIDES. D H Habeck L W Nieisen C H Brett Plant Dis R 45(S):330-333 15 May 1961 1.9 F69P Insecticides, Internai cork (sweetpotatoes), Sweetpotatoes. 24B6-67 486-67 CERATOCYSTIS ULMI AND ZINC CHLORIDE EXPERIMENT. G E Hafsted V C Lueschow Piant Dis R 45(2):152 15 Feb 1961 1.9 F69P Ceratocystis ulml, Dieback (uimus), Zinc chioride. 24B7-67 HALO BLIGHT AND BACTERIAL BROWN SPOT OF BEAN IN WISCONSIN IN 1964. IN 1969. D J Hagedorn P N Patei Plant Dis R 49(7):591-595, TA8S. Jui 1965 1.9 P69P Bacteriai brown spot (beans), Beans, Haio biight (beans), Wisconsin.

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20 24BB-67 248B-67 GREENHOUSE EVALUATIONS OF SOIL FUNGICIDES FOR THE CONTROL OF PEA ROOT ROT. W A Hagiund Plant Dis R 49(9):793-796 5ep 1965 1.9 P69P Fungicides, koot rot (peas), Soil treatment. 2489-67 NUTHITIONAL REQUIREMENTS OF APHANOMYCES EUTEICHES AND ITS RELATIONSHIP TO COMMON ROOT ROT TOLERANCE OF PEAS. W A Haglund T H King Phytopathoio S2(1):12 Jan 1962 464.B P56 Aphanomyces euteiches, Peas, Plant nutrition, Poot met forea. Root rot (peas). 2490-67 90-67 ALFALFA MOSAIC VIRUS IN WHITE CLOVER AND POTATOES. P M Halisky 8 R Houston A R Magle Plant Dis R 44(2):120-125 IS Feb 1960 1.9 P69P Alfaifa, Mosaic (alfalfa), Potatoes, Virus diseases (plants), White clover. 2491-67 991-67 FUNGI ASSOCIATED WITH WHITE CLOVER STOLONS IN SELECTED AREAS OF THE SOUTHEAST DURING MID-SUMMER, 1959. J E Haipin 5 M McCarter Plant Dis R 45(4):298-299 15 Apr 1961 1.9 P69P Fungl, Stolons, White clover. 2492-67 SEASONAL PREVALENCE OF STOLON-ROTTING FUNGI IN 24 LINES OF WHITE CLOVER. J E Haipln P B Gibson Phytopatholo 54(6):623 Jun 1964 464.8 PS6 Fungi, Plant genetics, Stolons, White clover. 2493-67 493-67 PRELIMINARY TRIALS ON THE CONTROL OF VERTICILLIUM WILT OF EGGPLANTS 8Y SOIL FUMIGATION. Y Hameiri J Palti Piant Dis R 4B(1):62 15 Jan 1964 1.9 P69P Eggplant, Soil fumigation, Verticiiiium aibo-atrum. 2494-67 WHEAT STRIATE MOSAIC OBSERVED IN MONTANA. R I Hamiiton Plant Dis R 4B(1):68 15 Jan 1964 1.9 P69P Montana, Strlate mosaic (wheat), Wheat. 2495-67 PEA DISEASES IN WASHINGTON AND OREGON, 1964. R O Hampton R E Ford Piant Dis R 49(3):235-23B 15 Mar 1965 1.9 P69P Oregon, Peas, Plant diseases, Washington. 2496-67 THE PATHOGENESIS OF BOTRYTIS CINERA, 8. SQUAMOSA, AND 8. ALLII ON ONION LEAVES. ALLII UN UNIUN LEAVES. J G Hancock J ¥ Lorbeer Phytopatholo S2(1):12 Jan 1962 464.B PS6 Botrytis allii, Botrytis cinera, Botrytis squamosa, Microorganlams, Onions. 2497-67 497-67 AN IMPROVED METHOD FOR DETERMINING RESISTANCE TO FUSARIUM STEM ROT OF SWEETPOTATOES. G C Hanna A G Gentile K A Kimble Plant Dis R 45(7):562-563 15 Jul 1961 1.9 P69P Fusarium, Plant disease resistance, Stem rot (sweetpotatoes), Sweetpotatoes. 249B-67 W W Hare ₩ ₩ Hare Phytopatholo 54(6):623 Jun 1964 464.B PS6 Biologicai races, Cowpeas, Fusarium oxysporum f. tracheiphilum. Tests with Fusarium wilt of cowpea suggest that compara-tive rates of disease production could account for preva-PAGE 24

lence of races in the order they were numbered. 2499-67 BIOLUGICAL RACES FROM WITHIN THE SAME PLANT. W W Hare Phytopatholo S4(6):623 Jun 1964 464.8 P56 Siological races, Fungi, Fusarium oxysporum f. tracheiphilum. 2500-67 500-67 OCCURRENCE OF 8ARLEY YELLOW DWARF VIRUS (8YDV) IN ISRAEL. I Harpaz M Klein Plant Dis R 49(1):34-35 IS Jan 1965 1.9 P69P Israei, Dats, Yeilow dwarf (barley). 2501-67 501-67 AN IMPROVED SYSTEM FOR CONTROLLING SOIL TEMPERATURES IN THE STUDY OF SOIL-BORNE PLANT PATHOGENS. M D Harrison C H Llvingston N Oshima Plant D1s R 49(5):452-454 15 May 1965 1.9 P69P Plant disease control, Soll temperature, Soil-borne plant diseases. 2502-67 WILLOW BLIGHT IN MICHIGAN. VILLUW BLIGHT IN MICHIGAN. J H Hart Plant Dis R 49(12):1016 Dec 1965 1.9 P69P Blight (salix), Michigan, Salix. 2503-67 503-67 ALTERNARIA LEAF SPOT OF PIERIS JAPONICA. G C Hartmann Plant Dis R 45(12):93B-939 15 Dec 1961 1.9 F69P Alternaria teuius, Andromeda, Leaf spot (pieris japonica), Pieris japonica. 2S04-67 LEAF SCALD OF RICE, RHYNCHOSPORIUM ORYZAE, IN COSTA RICA. Hastings de Gutierrez Piant Dis R 44(4):294-295 15 Apr 1960 1.9 P69P Leaf scald (rice), Rhynchosporium oryzae, Rice. 2505-67 505-67 STRIPE SMUT DAMAGE ON PENNLU CREEPING BENTGRA55. M J Healey M P Britton J D &utler Plant Dis R 49(8):710 Aug 1965 1.9 P69P Agrostis palustris, Stripe smut (bentgrass), Ustilago striiformis (West.). 2506-67 NONSPECIFIC ACQUIRED RESISTANCE TO PATHOGENS RESULTING FROM LOCALIZED INFECTIONS BY THIELAVIOPSIS BASICOLA OR VIRUSES IN TOBACCO LEAVES. IN TOBACCO LEAVES. E I Hecht D F Bateman Phytopatholo 54(5):S23-530, BIBL. 529-S30, TABS. May 1964 464.8 P56 Microorganisms, Plant disease resistance, Thielaviopis basicola, Tobacco. 2507-67 CHEMOTHERAPEUTIC ACTION OF DIMETHOATE AGAINST A ROOT-KNOT NEMATODE IN GREENHOUSE TOMATO PLANTS. A W Helton Plant Dls R 49(4):352-357 15 Apr 1965 1.9 P69P Dimethoate, Greenhouse culture, Immunization, Plant nematodes, Root-knot nematode, Tomatoes. 250B-67 FIRST YEAR EFFECTS OF 10 SELECTED CYTOSPORA ISOLATES ON 20 FRUIT AND FOREST TREE SPECIES AND VARIETIES. A W Helton Plant Dis R 45(7):500-504, BI8L. 503-S04 IS Jul 1961 1.9 P69P Cytospora, Peaches, Plums, Tree diseases. 2509-67 INFLUENCE OF LOCATION ON INVASION OF DRY-ICE-KILLED TISSUES ON ITALIAN PRUNE TREES 8Y NATURALLY DISSEMINATED CYTOSPORA FUNGI. A W Helton Plant Dis R 45(12):918-920 1S Dec 1961 1.9 P69P

Cytospora, Dry Ice, Freeze killing, Italian prune trees, Prunus domestica. 2510-67 510-57 LOW TEMPERATURE INJURY AS A CONTRIBUTING FACTOR IN CYTO-SPORA INVASION OF PLUM TREES. A W Heiton Plant Dis R 45(6):591-597, TA8S. 15 Aug 1961 1.9 P69P Cytospora, Plant Injurles, Plant temperature, Plums, Temperature. 2511-67 511-67 REACTION OF TOMATO VARIETIES AND &REEDING LINES TO FUSARIUM OXYSPORUM F. LYCOPERSICI RACE 1. W R Henderson N N Winstead Plant Dis R 45(4):272-273 15 Apr 1961 1.9 P69P Fusarium g. Vysporum f. lycopersici. Plant disease resistence Fusarium oxysporum f. lycopersici, Plant disease resistance, Piant genetics, Wilt (tomatoes). 2512-67 PINUS RADIATA SUSCEPTIBLE TO PITCH CANKER. Plaus Andran Social Soc 2513-67 ETIOLOGY OF SUMMER BUNCH ROT OF GRAPES IN CALIFORNIA. W 8 Hewitt G V Gooding Jr L Chlarappa E E Butler Phytopatholo 52(1):13 Caiifornla, Grapes, Summer bunch rot (grapes). 2514-67 PACE 33 OF UROMYCES PHASEOLI VAR. TYPICA ARTH., A DISTINCT PHYSIOLOGIC RACE OF BEAN RUST FROM OREGON. H R Hikida Plant Dis R 45(5):386 15 May 1961 1.9 P69P Oregon, Rust (beans), Uromyces phaseoll var. typica Arth.. 2515-67 ARBUTIN-HYDROQUINONE COMPLEX IN PEAR AS A FACTOR IN FIRE ARBUILN-HTDRUQUINUNE COMPLEX IN PEAK AS A FAG BLIGHT DEVELOPMENT. D C Hildebrand M N Schroth Phytopatholo 54(6):640-645, BIBL. 645, TABS. Jun 1964 464.8 F56 Arbutin-hydroquinone, Fire blight (pears), Pears. 2516-67 HEAT TREATMENTS FOR ELIMINATING VIRUS FROM SWEET POTATO PLANTS. E M Hildebrand Phytopatholo 52(1):13 Jan 1962 464.8 P56 Heat, Sweetpotatoes, Viruses. 2517-67 SUSCEPTIBILITY OF SWEETPOTATO VARIETIES TO YELLOW DWARF. SUSCEPTIBILITOR SELECTORING CONTENTS E M Hildebrand Plant Dis R 49(5):425-428 15 May 1965 1.9 P69P Plant disease resistance, Sweetpotatoes, Yellow dwarf (sweetpotatoes). 2518-67 VECTOR ANOMALIES AFFECTING EFFICIENCY IN PLANT VIRUS TRANSMISSION. E M Hildebrand Phytopatholo 52(1):13 Jan 1962 464.8 P56 Insect vectors, Plant disease transmission, Viruses. 2519-67 519-67 HOST-PATHOGEN RELATIONSHIP OF HELMINTHOSPORIUM TURCICUM IN RESISTANT AND SUSCEPTIBLE CORN SEEDLINGS. H M Hilu A L Hooker Phytopatholo 54(5):570-575 May 1964 464.8 P56 Corn, Helminthosporium turcicum, Parasitism, Plant disease resistance, Seedlings. 2520-67 OSSERVATION ON TOBACCO BLUE MOLD IN ISRAEL. E Hindi I Dishon D Nevo Plant Dis R 49(2):154-156 15 Feb 1965 1.9 P69P

Downy mildew (tobacco), Israel. 2521-67 521-67 CYTOSPORA CANKER RECURRENCE ON DOUGLAS-FIR IN COLORADO. T E Hinds J L Stewart Piant Dis R 49(6):481-482 15 Jun 1965 1.9 P69P Colorado, Cytospora, Pseudotsuga menziesli. 2522-67 HYPOXYLON CANKER OF ASPEN IN ARIZONA. T E Hinds J R Jones Piant Dis R 49(6):480 15 Jun 1965 1.9 P69P Arizona, Canker (populus tremuioldes), Hypoxylon pruinatum (Klotzsch), Populus, Populus tremuloides. 2523-67 THE ROLE OF FUNGI IN THE PEACH REPLANT PROBLEM. R 8 Hine Plant Dis R 45(6):462-465, TA8S. 15 Jun 1961 1.9 P69P Fusarium, Peaches, Pythlum, Rhizoctonia, Soii fungi. 2524-67 LARGE INCLUSION BODIES ASSOCIATED WITH VIRUS DISEASES OF RICE. T Hiral N Suzuki I Kimura Nakazawa Y Kashiwagi Phytopatholo 54(3):367-368, PL. Mar 1964 464.8 P56 Inclusion bodies, Rice, Virus diseases (plants). 2525-67 PHYSIOLOGY OF SEXUAL REPRODUCTION IN HYPOMYCES SOLANI F. CUCURBITAE. I. INFLUENCE OF CARBON AND NITROGEN. SM Hix R Baker Phytopatholo 54(5):584-586 May 1964 464.8 P56 Carbon, Hypomyces solani f. cucurbitae, Nitrogen, Physiology, Reproduction. 2526-67 THE EFFECT OF COMPETITION BY PENIOPHORA GIGANTEA ON THE GROWTH OF FOMES ANNOSUS IN STUMPS AND ROOTS. C S Hodges Phytopatholo 54(6):623 Jun 1964 464.8 P56 Fomes annosus, Penlophora gigantea, Roots, Stumps. 2527-67 NEW HOSTS FOR CERCOSPORA THUJINA PLAKIDAS. C S Hodges Plant Dis R 45(9):745 15 Sep 1961 1.9 P69P Cercospora thujina Plakidas, Tree diseases. 2528-67 THE INCIDENCE OF DWARF BUNT IN THE PACIFIC NORTHWEST AND THE INCIDENCE OF DWARF SUMI IN THE PACIFIC NURTHWEST AND ITS OCCURRENCE ON GAINES WHEAT. J A Hoffman E L Kendrick C S Holton Plant Dis R 49(5):401-402 15 May 1965 1.9 P69P Dwarf bunt (wheat), Pacific Northwest, Tilletia controversa, Wheat. 2529-67 VIRULENCE IN CERATOCYSTIS ULMI. F W Holmes Phytopatholo 54(2):128 Feb 1964 464.8 P56 Ceratocystls ulml, Virulence. 2530-67 MODE OF INHERITANCE OF PATHOGENICITY IN SOME RACE HYBRIDS OF USTILAGO AVENAE. C S Holton Phytopatholo 54(6):660-662, TA8S. Jun 1964 464.8 P56 Ethnology, Heredity, Ustilago avenae. 2531-67 LOCAL EPIDEMIC OUTBREAKS OF FUNGUS LEAF SPOTS ON GAINES WHEAT IN 1964. WHEAT IN 1964. C S Holton Plant Dis R 49(3):242-243 15 Mar 1965 1.9 P69P Leaf spot (wheat), Wheat.

PAGE 25

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20 2532-67 2532-67 OCCURRENCE OF PUCCINIA POLYSORA IN ILLINOIS. DECOMMENCE OF POCCASIA POLISORA IN ILLIND. A L Hooker Piant Dis R 45(3):236 15 Mar 1961 1.9 P69P Corn, Iilinois, Puccinia poiysora Underw., Puccinia sorghl Schw.. A NEW TYPE OF RESISTANCE IN CORN TO HELMINTHOSPORIUM TUR-CICUM. 2533-67 A L Hooker A L HOOKEF Plant Dis R 45(10):780-781 15 Oct 1961 1.9 P69P Corn, Helminthosporium turcicum, Plant breeding, Plant disease resistance, Plant genetics. 2534-67 DEVELOPMENT OF NEARLY ISOGENIC RUST-RESISTANT LINES OF CORN. A L Hooker W A Russell Phytopatholo 52(1):14 Jan 1962 464.8 P56 Corn. Microorganisms, Plant disease resistance, Rust (corn). 2535-67 A NEW KERNEL ROT DISEASE OF CORN IN WISCONSIN. P E Hoppe Plant Dis R 45(2):99 15 Feb 1961 1.9 P69P Corn, Kernei rot (corn), Wisconsin. 2536-67 VERTICILLIUM WILT OF HOP5 IN DREGON. C E Horner Piant Dis R 49(6):53B-539 15 Jun 1965 1.9 P69P Hops, Oregon, Verticillium dahliae Kleb, Wilt (hops). 2537-67 SOME FACTORS AFFECTING THE TRANSMISSION AND STABILITY OF PO-TATO SPINDLE TUBER VIRUS. J E HUNGER A R Rich Phytopatholo 54(2):128 Feb 1964 464-B P56 Fungus diseases (plants), Spindle tuber (potatoes), Viruses. 2538-67 LONGEVITY OF XANTHOMONAS MALVACEARUM ON AND IN COTTON SEED. R E Hunter L A Brinkerhoff Phytopatholo 54(5):617 May 1964 464.B P56 Anguiar leafspot (cotton), Cottonseed, Xanthomonas malvacearum. 2539-67 339-67 PARTIAL RESISTANCE TO GREENPOINT CUSHION GALL IN CACAO CLONES COMPLETELY RESISTANT TO FLOWERY GALL. L M Hutchins J Soria L R Siller Phytopatholo S4(S):499 May 1964 464.B P56 Cacao, Flowery gall, Greenpoint cushion gall, Plant disease resistance. 2540-67 LOSS OF GALL-INDUCING CAPACITY ON CACAO, WHEN CALONECTRIA RIGIDIUSCULA PASSES FROM THE CONIDIAL (FUSARIUM) STAGE THROUGH THE PERFECT (ASCOSPORE) STAGE. L M Hutchins Plant Dis R 49(7):564-565 Jul 1965 1.9 P69P Cacao, Colonectria rigidiuscula, Fusarlum decemceliulare, Green point gall (cacao), Plant galls. 2541-67 PREDISPOSITION TO CACAO KNOB GALL IN WOUNDS WHERE FLOWERY GALL HAS BEEN EXCISED. L M Hutchins Phytopatholo 54(5):499 May 1964 464.B P56 Cacao, Plant galls. 2542-67 HIGH TEMPERATURE FOLLOWING INFECTION CHECK5 DOWNY MILDEW OF LIMA BEAN. R A Hyre Phytopatholo 54(2):181-184, TAB5. Feb 1964 464.8 P56 Downy mildew (lima beans), Temperature, Weather.

2543-67 GLIOCLADIUM ROSEUM (LINK) BAINER ON DECLINING AND DEAD STEMS OF PSILOTUM NUDUM. SIERS ur PSiluium Nubun. V I Iliman Piant Dis R 4B(1):6B 15 Jan 1964 1.9 P69P Gliocladium roseum (Link) Bainier, Psilotum nudum. 2544-67 ESTIMATING GERMINABILITY OF SCLEROTIA. VI Iliman Piant Dis R 44(4):297 15 Apr 1960 1.9 P69P Fungi, Germination control, Scierotia, Seed germination. 2545-67 PLANT DISEASES THREATENING THEOBROMA CACAO IN THE WESTERN HEMISPHERE. E P lmle Phytopatholo 54(5):499 May 1964 464.B P56 Cacao, Plant dlseases, Western hemisphere. 2546-67 LABORATORY EVALUATION OF FUNGICIDES FOR CONTROL OF SOME FUN-GI FOUND ON PEANUTS. C R Jackson Plant Dis R 49(11):928-931 Nov 1965 1.9 P69P Fungi, Fungicides, Peanuts. 2547-67 OKRA SEED INFECTION AND SEEDLING ROOT ROT CAUSED BY FUSARIUM SOLANI. C R Jackson Phytopatholo 54(6):624 Jun 1964 464.B PS6 Fusarlum solanl, Okra, Root rot (okra). 2548-67 A FLOWER ROT SYMPTOM ASSUCIATED WITH STEMPHYLIUM RAY SPECK OF CHRYSANTHEMUM. R Jackson Plant Dis R 45(10):798 15 Oct 1961 1.9 P69P Chrysanthemum morlfolium, Flower rot, Ray speck (chrysanthemum), Stemphylium fiorldanum. 2549-67 ALTERNARIA RAY SPECK OF GERBERA JAMESONII. C R Jackson Phytopatholo Gerbera jamesonli, Ray speck (Gerbera jamesonii). 2550-67 SWEET CORN SUSCEPTIBILITY TO MAIZE DWARF MOSAIC. B F Janson N H Deema Plant Dis R 49(6):478-479 15 Jun 1965 1.9 P69P Dwarf mosalc (maize), Plant disease resistance, Sweetcorn. 2551-67 50-67 SOME MORPHOLOGICAL AND PHYSIOLOGICAL FEATURES OF CLEMENTINE MANDARIN TREES AFFECTED BY CACHEXEA. A Jardeny S P Monselise M Chorin Int Organ Citrus Viroi Pr 3RD:291-294 1963 464.06 INB2 Cachexia (llmes), Clementine mandarines, Plant morphology, Plant physiology. 2552-67 MORPHOLOGY, TAXONOMY, AND SEXUALITY OF THE ASCOGENOUS STAGES OF TWO COLLETOTRICHUM SPP. THAT ATTACK CUCURBITS. S F Jenkins Jr N Winstead Phytopatholo 52(1):15 Jan 1962 464.B PS6 Collectotrichum, Cucurbits, Plant morphology, Plant taxonomy, Sex. 2553-67 53-57 SEPTOCYLINDRIUM AROMATICUM ON SWEET FLAG. A E Jenkins A P Vlegas Plant Dis R 45(2):145 15 Feb 1961 1.9 F69P Acorus calamus, Septocylindrium aromaticum, Sweet flag. 2554-67 THE EFFECT OF TEMPERATURE, RELATIVE HUMIDITY AND PRECIPI-TATION ON PEANUT LEAFSPOT. R E Jensen L W Boyle

Plant Dis R 49(12):975-978 Dec 1965 I.9 P69P Humldity, Leaf spot (peanuts), Peanuts, Precipitation, Temperature. 2555-67 255-67 ZINNIA ELEGANS A NEW HOST OF SPHAEROTHECA FULIGINEA. J S Jhooty Plant D1s R 49(9):756 Sep 1965 1.9 P69P Sphaerotheca fullginea, Zinnia elegans. 2556-67 ON THE ANTIGENICITY OF VIRUS CAUSING TUNGRO DISEASE OF RICE. V T John Plant Dls R 49(4):305-306 I5 Apr 1965 1.9 P69P Antiserum, Rice, Tungro disease, Virus diseases (plants). 2557-67 DOCOURRENCE OF CERTAIN PLANT DISEASES IN KENTUCKY IN 1964. E M Johnson L Henson W D Valieau R A Chapman Plant D1s R 49(5):450-451 IS May 1965 1.9 P69P Epidemiology, Kentucky, Plant diseases. 2558-67 58-67 OCCURRENCE OF CERTAIN PLANT DISEASES IN KENTUCKY IN 1963. E M Johnson C C Litton R A Reinert Piant Dis R 48(2):111-113 15 Feb 1964 I.9 P69P Kentucky, Plant diseases. 2559-67 SOUTHERN BLIGHT OF ANNUAL RYEGRASS AND WINTER DATS. SUDIMEAN OLIGHI UF ANNUAL REGRASS AND WINIER DATS H W Johnson P G Rothman D H Bowman Plant D1s R 49(S):408-411 IS May 1965 1.9 P69P Lollum multiflorum, Oats, Sclerotlum rolfsll, Southern blight (lollum), Southern blight (oats). 2560-67 SOU-57 SOUTHERN &LIGHT OF ANNUAL RYEGRASS AND WINTER DAT. H W Johnson P G Rothman D H Bowman Phytopatholo 54(6):624 Jun 1964 464.8 PS6 Lollum, Dats, Southern blight. 2561-67 Sol-o/ RICE DISEASES IN THE DELTA AREA OF MISSISSIPPI IN 1959. H W Johnson H R Caffey Plant Dis R 44(1):19 15 Jan 1960 I.9 P69P Kernels, Leaves, Rice, Smut (rice). 2562-67 PHYTOPHTHORA ROOT AND CROWN ROT OF ALFALFA IN THE YA-PHYTOPHTHORA ROOT AND CROWN ROT OF ALFALFA IN TH ZOO-MISSISSIPPI DELTA. H W Johnson F L Morgan Plant Dis R 49(9):753-755 Sep 1965 I.9 P69P Alfalfa, Crown rot (alfalfa), Misslasippi, Phytophthora cryptogea, Phytophthora megasperma, Root rot (alfalfa). 2563-67 63-67 IDENTIFICATION OF WHEAT LEAF RUST RESISTANCE COMBINATIONS 8Y DIFFERENTIAL TEMPERATURE EFFECTS. L 8 Johnson J F Schafer Plant D1s R 49(3):222-224 15 Mar 1965 1.9 P69P Leaf rust (wheat), Plant disease resistance, Temperature, Wheat. 2564-67 RELATIVE PREVALENCE OF NA61 RACES OF PUCCINIA RECONDITA IN 1960 IN KANSAS AND OKLAHOMA. C O Johnston H C Young Jr Plant D1s R 45(6):446-447 IS Jun 1961 1.9 P69P Kansas, Leaf rust (wheat), Oklahoma, Puccinia recondita. 2565-67 565-67 SYSTEMIC CONTROL OF POWDERY MILDEW OF ROSES (SPHAEROTHECA PANNOSA) WITH THE SEMICARBAZONE DERIVATIVE OF ACTI-DIONE. B M Jones H G Swartwout Plant Dis R 45(S):366-367 IS May 1961 1.9 P69P Act1-dione semicarbazone, Powdery mildew (rosa), Rosa,

Sphaeroteca pannosa. 2566-67 SYSTEMIC CONTROL OF POWDERY NILDEW OF ROSES, CAUSED BY THE FUNGUS SPHAEROTHECA PANNOSA, WITH DERIVATIVES OF CYCLOHEX-IMIDE. M Jones H G Swartwout Plant Dis R 45(10):794-795 I5 Oct 196I I.9 P69P Cycloheximide, Powdery mlidew (rosa), Rosa, Sphaerotheca pannosa. 2567-67 ANOTHER APPEARANCE IN FLORIDA OF A WILT FUSARIUM PATHOGEN-IC TO RACE 1-RESISTANT TOMATO VARIETIES. JC TO RACE L*RESISIANT TOTATO VARIETTES. J P Jones R H Littrell Plant Dis R 49(6):536-537 IS Jun 1965 1.9 P69P Fiorida, Fusarium oxysporum, Plant disease resistance, Tomatoes, Wilt (tomatoes). 256B-67 COMPARATIVE EFFECTS OF SOIL FUNGICIDE TREATMENTS ON SOIL ROT AND DAMPING-OFF OF CUCUMBER. J P Jones Plant Dis R 45(5):376-379 IS May 1961 1.9 P69P Damping-off (cucumbers), Fungleides, Soll rot. 2569 - 67CONTROL OF ANTHRACNOSE, SCAB, AND SOIL ROT OF CUCUMBERS IN FLORIDA. FLORIDA. J P Jones P H Everett Plant D1s R 49(1):29-32, TABS. I5 Jan 1965 1.9 P69P Anthraenose (cucumbers), Cucumbers, Florida, Rot (cucumbers), Scab (cucumbers). 2570-67 IMPORTANCE OF ROOT GRAFTS IN OAK WILT SPREAD IN MIS-THE SOUR1. T W Jones A D Partridge Plant Dis R 45(7):S06-S07 1S Jul 1961 1.9 P69P Ceratocystis fagacearum, Missouri, Plant grafting, Quercus, Wilt (quercus). 2571-67 FIRST REPORT OF PINE MORTALITY CAUSED BY FOMES ANNOSUS ROOT ROT IN OHIO. T W Jones Plant Dis R 45(12):980 15 Dec 1961 1.9 P69P Fones annosus, Ohio, Pinus echinata, Pinus virginiana, Root rot (plnus). 2572-67 INGRESS OF PRATYLENCHUS PENETRANS INTO ALFALFA ROOTS IN INGRESS OF PRATYLENCHUS PENETRANS INTO ALFALFA RUOTS IN RELATION TO SOLL MOISTURE CONTENT. P F Kable W F Mai Phytopatholo 54(2):128 Feb 1964 464.8 P56 Alfalfa, Plant nematodes, Pratylenchus penetrans, Roots, Soli molsture. 2573-67 573-67 A RE-EVALUATION OF THE QUARANTINE SIGNIFICANCE OF CRYPTO-SPORA LONGISPORA SERVAZZI ON IMPORTED SEED OF THE NORFOLK ISLAND PINE, ARAUCARIA EXCELSA. R Y Kahn W H Wheeler R L Monroe A Watson Plant Dis R 49(B):656-659 Araucarla excelsa, Cryptospora longispora Servazzi, Norfolk Island nipe. Quarantine (planta). Seed analysis. Norfolk Island plne, Quarantine (plants), Seed analysis. 2574-67 SEROLOGICAL RELATIONSHIP OF CUCUMBER MOSAIC VIRUS AND CER TAIN VIRUS ISOLATES THAT INCITE AMARYLLIS MOSAIC SYMPTOMS. R P Kahn H A Scott Phytopatholo 54(3):360-362, PL. Mar 1964 464.B PS6 Amaryllls mosalc, Cucumbers, Mosalc (cucumbers). 2575-67 775-57 A NEW FRUIT ROT OF CHERRIES FROM INDIA. I K Kalanl Plant DIs R 48(2):100-101 15 Feb 1964 1.9 P69P Alternaria, Cherries, Fruit rot, India.

PAGE 27

20 2575-67

20 2576-67 2576-67 RESPONSE OF ZINNIA VARIETIES TO TOBACCO RINGSPOT VIRUS. J G Karas D J deZeeuw C L Hammer Plant Dis R 45(8):605-607 15 Aug 1961 1.9 P69P Ring spot (tobacco), Zinnia elegans Jacq.. 2577+67 STUDIES ON YELLOW BUD MOSAIC VIRUS. H P Karle Phytopatholo 50(6):466-472, PL. Jun 1960 464.B P56 Yellow bud mosaic. 2578-67 MODIFICATION AND ADAPTATION OF POPP S TECHNIQUE TO ROUTINE DETECTION OF USTILAGO NUDA (JENS) ROSTR. IN BARLEY EMBRYOS. T Kavanagh D L Mumford Plant Dis R 44(7):591-593, PL. 15 Jui 1960 1.9 P69P Barley, Loose smut (barley), Plant embryos, Popp s technique, Ustilago nuda (Jens) Rostr.. 2579-67 579-67 EVALUATION OF FUNGICIDES FOR CONTROL OF POWDERY MILDEW, AS WELL AS OTHER DISEASES, OF APPLE. H L Keil R A Wilson Plant Dis R 44(4):253-255 15 Apr 1960 1.9 P69P Apples, Fungicides, Powdery mildew (apples). 25B0-67 POWDERY MILDEW ON PEACH. H L Keil R A Wilson Plant Dis R 45(1):10-11 15 Jan 1961 1.9 P69P Peaches, Podosphaera oxyacanthae, Powdery mildew (peaches). 25B1-67 A ROOT AND STEM ROT OF YELLOW-POPLAR CAUSED BY CYLINDROCLA-DIUM SCOPARIUM. Dion Scorarion. A Keiman G V Gooding Jr Plant Dis R 49(9):797-801 Sep 1965 1.9 P69P Cylindrocladium scoparium, Lirlodendron tulipifera, Root rot (liriodendron tulipifera), Stem rot (liriodendron tulipifera). 2582-67 THE REACTION OF VARIETIES AND HYBRID SELECTIONS OF SPRING WHEATS TO PATHOGENIC RACES OF TILLETIA CARIES AND T. FOE-TIDA. E L Kendrick Plant Dis R 49(10):839-B43, TABS. Oct 1965 1.9 P69P Plant disease resistance, Tilletia caries, Tilletia foetida, Wheat. 25B3-67 TWO NEW PATHOGENIC RACES OF TILLETIA CARIES. E L Kendrick Plant Dis R 48(1):16-17 15 Jan 1964 1.9 P69P Tilletia caries. 2584-67 THE OCCURRENCE OF POWDERY MILDEW OF WHEAT IN THE PACIFIC NORTHWEST. E L Kendrick Plant Dis R 49(10):B37-B3B Oct 1965 1.9 P69P Pacific Northwest, Powdery mildew (wheat), Wheat. 2585-67 INFECTION OF POTENTILLA BY XANTHOMONAS FRAGARIAE. 8 W Kennedy Plant DIs R 49(6):491-492 15 Jun 1965 1.9 P69P Potentilla, Xanthomonas fragarlae. 2586-67 TAXONOMY OF THE BACTERIUM CAUSING ANGULAR LEAF SPOT ON STRAWBERRY. SIANWOLANI. 6 W Kennedy T H King Phytopatholo 52(1):16 Jan 1962 464.8 P56 Bacteria, Leaf spot (strawberry), Strawberries, Taxonomy.

2587-67 NOTES ON GYMNOSPORANGIUM GRACILE PAT. F D Kern Plant DIs R 4B(2):93-94 15 Feb 1964 1.9 P69P Gymnosporangium gracile Pat.. 258B-67 DIEBACK OF MANAGED, OLD-GROWTH NORTHERN HARDWOODS IN UPPER MICHIGAN, 1954-1964 --- A CASE HISTORY. K J Kesseler Jr Plant Dis R 49(6):483-486 15 Jun 1965 1.9 P69P Dieback (hardwoods), Michigan. 2589-67 EFFECT OF TEMPERATURE AND POINT OF INOCULATION ON THE SYMP-TOMATOLOGY OF BARLEY COVERED SMUT. R L Kiesling Phytopatholo 52(1):16-17 Jan 1962 464.8 P56 Barley, Immunization, Smut (barley), Temperature. 2590-67 FLORAL INFECTION OF LADINO WHITE CLOVER, INCITED BY CUR-VULARIA TRIFOLII. R A Kilpatrick Plant D1s R 45(4):286-287 15 Apr 1961 1.9 P69P Curvularia trifolii, Ladino clover, Leaf spot (clover), White clover. 2591-67 DISEASES OF FORAGE GRASSES AND LEGUMES PREVIOUSLY UNREPORTED FROM NEW HAMPSHIRE. R A Kilpatrick R A Kilpatrick Plant Dis R 45(12):926-927 15 Dec 1961 1.9 P69P Forage plants, Grasses, Host Indexing (plants), Legumes, New Hampshire. 2592-67 GREEN TOHATO FRUITS-A MEDIUM FOR INDUCING FRUIT ROT AND ASEXUAL SPORULATION WITH FUNGI ISOLATED FROM CLOVERS. K A Klipatrick Plant Dis R 45(5):341-343 15 May 1961 1.9 P69P Asexual reproduction, Fungi, Red clover, Rot (tomatoes), White clover. 2593-67 993-67 JUNCUS EFFUSUS, A NEW HOST FOR EPICHLOE TYPHINA. R A Kilpatrick A E Rich J G Conklin Plant Dis R 45(11):B99 15 Nov 1961 1.9 P69P Bog rush, Cat-tail disease, Epichloe typhina, Juncus effusus. 2594-67 A HECHANICALLY TRANSMISSIBLE VIRUS LATENT IN APPLE. H C KIrkpatrick R C Lindner Phytopatholo 54(2):229-232, TABS. Feb 1964 464.B P56 Apples, Plant disease transmission. 2595-67 LEMON BUD UNION OVERGROWTH DISORDER AND ITS RELATION TO ROOTSTOCK AND TREE AGE. J D Kirkpatrick W P 8itters Plant Dis R 49(1):7-11 15 Jan 1965 1.9 P69P Lemon bud union, Overgrowth, Rootstock, Tree age. CONTROL OF CERCOSPORA LEAF SPOT OF BANANAS WITH APPLICATION OF OIL SPRAYS BASED ON THE DISEASE CYCLE. H H Klein 2596-67 Phytopatholo 50(7):4BB-490, Jul 1960 464.B P56 Oils, Sigatoka (bananas), Spraying. 2597-67 HYPERSENSITIVE REACTION INDUCED BY PHYTOPATHOGENIC BACTERIA IN THE TOBACCO LEAF. Z Klement G L Farkas L Lovrekovich Phytopatholo 54(4):474-477, PL. Apr 1964 464.8 P56 Bacterla, Leaves, Phytopathology, Pseudomonads, Tobacco.

2598-67 PINK ROOT DISEASE OF ONIONS IN MENDOZA, ARGENTINA. A Klingner R E Pontls-Videia Plant Dis R 45(3):235 15 Mar 1961 1.9 P69P ArgentIna, Onlons, Pink root (onions), Pyrenochaeta terrestris. 2609-67 2599-67 IDENTITY OF VIRUSES FROM SAFFLOWER AFFECTED WITH NECROSIS. J M Klislewicz Plant Dis R 49(6):541-545, BIBL. 544-545 15 Jun 1965 1.9 P69P Mosalc (alfalfa), Mosalc (lettuce), Necrosls, Safflower. 2600-67 500-67 LIMITATIONS OF THE HOT WATER IMMERSION TREATMENT FOR THE CUNTROL OF PHYTOPHTHORA 8ROWN ROT OF LEMONS. L J Klotz T A DeWolfe Plant Dls R 45(4):264-267 15 Apr 1961 1.9 P69P Brown rot (citrus), Hot water treatment (plants), Lemons, Phytophtops Phytophthora. 2601-67 DUT-OF TETRAZQLIUM, AN INDICATOR OF EXTENT OF INFECTION IN PHYT-OPHTHORA ROOT ROT OF CITRUS. L J Klotz T A DeWolfe Plant Dis R 49(5):423-424 15 May 1965 1.9 P69P Cltrus, Indicators (disease), Phytophthora, Root rot (citrus), Tetrazolium. 2602-67 THE RESISTANCE OF SPECIES OF PELARGONIUM TO XANTHOMONAS PELARGONII. J F Knauss J Tammen J F Khauss J Tammen Phytopatholo 54(2):12B Feb 1964 464.8 P56 Bacteria, Bacterial diseases (piants), Herbs, Pelargonlum, Plant disease resistance, Xanthomonas peiargonii. 2603-67 THE STATUS OF CORN STUNT DISEASE IN GEORGIA IN 1964. C M Kozeinicky Plant Dis R 49(3):207-209 15 Mar 1965 1.9 P69P Georgla, Stunt (corn). 2604-67 DUTCH ELM DISEASE IN KANSAS IN 1960. C L Kramer H E Thompson Plant Dis R 45(4):309 15 Apr 1961 1.9 P69P Dieback (ulmus), Kansas. 2605-67 505-57 INFECTION OF ALFALFA SEEDLINGS BY INOCULATING WOUNDED COTYLEDONS WITH WILT BACTERIA. K W Kreitlow Phytopatholo 52(1):17 Jan 1962 464.8 P56 Alfalfa, Wiit (alfaifa). 2606-67 A RUST ON ZOYSIA JAPONICA NEW TO NORTH AMERICA. K W Krelthow F V Juska R T Haard Plant Dis R 49(3):185-186 15 Mar 1965 1.9 P69P Rust (zoysla japonica), Zoysia japonica. 2607-67 INFECTION, GROWTH RATE, AND COMPETITIVE A&ILITY OF FOMES ANNOSUS IN INOCULATED PINUS ECHINATA STUMPS. E G Kuhiman F F Hendrix Jr Phytopatholo 54(5):556-561, TABS. May 1964 464.B P56 Fomes annosus, Pinus echinata, Plant physiology. 2608-67 JUG-GY IMMUNITY TO BEAN YELLOW MOSAIC VIRUS IN COWPEA. C W Kuhn B B Brantiey G Soweil Jr Plant Dis R 49(10):879-881 Oct 1965 1.9 P69P Cowpeas, Immunization, Piant disease resistance, Yeilow mosalc (beans).

MECHANICAL TRANSMISSION OF A VIRUS CAUSING LEAF MOTTLING OF PEANUTS. C ₩ Kuhn Phytopatholo 54(6):624 Jun 1964 464.8 P56 Leaf mottie (peanuts), Peanuts, Plant disease transmission. 2610~67 SEPARATION OF COWPEA VIRUS MIXTURES. C W Kuhn Phytopatholo 54(6):739-740 Jun 1964 464.B P56 Cowpeas. 2611-67 511-67 SCREENING OF FUNGICIDES AND CHEMOTHERAPEUTANTS FOR CONTROL OF PINK ROOT OF ONIONS AND SHALLOTS. M M Kulik E C Tims Piant Dis R 44(6):379-382 15 Jun 1960 1.9 P69P Chemotherapeutants, Fungicides, Pink root (onions), Pink root (scholota) Pink root (shaliots). 2612-67 NITROGEN NUTRITION OF COLLETOTRICHUM COCCODES. E 8 Kurtz C L Fergus Phytopatholo 54(6):691-692 Jun 1964 464.8 P56 Colletotrichum coccodes, Nitrogen, Nutrition. 2613-67 POREWEED CRINKLE LEAF, CAUSED BY A VIRUS TRANSMITTED BY DOD-DER FROM DESERT SHRUBS IN SOUTHERN CALIFORNIA. DEA THUM DESERT SHOULD IN SUCHEAN CALIFURNIA. CF Lackey Plant Dis R 49(12):1002-1005 Dec 1965 1.9 P69P California, Crinkie ieaf (pokeweed), Cuscuta californica, Phytolacca americana, Plant disease transmission, Xerophytes. 2614-67 CERTAIN BIOLOGICAL PROPERTIES OF A VIRUS FROM RANUNCULUS ASIATICUS. ASIAILUS. E F Laird Jr R C Dickson Plant Dis R 49(5):449 15 May 1965 1.9 P69P Mosaic (anemone), Mosaic (ranunculus), Ranunculus aslaticus. 2615-67 515-67 A CORN DISEASE IN IOWA. R C Lambe J M Dunieavy Plant Dis R 49(4):339-341 15 Apr 1965 1.9 P69P Corn, Iowa, Virus diseases (plants). 2616-67 HOST RANGES OF THE HOJA &LANCA VIRUS AND ITS INSECT VECTORS. H A Lamey W W McMillian R D Hendrick Phytopatholo 54(5):536-541, BI8L. 541, TABS. May 1964 464.B P56 Hoja blanca (rice), Host indexing (plants), Insect vectors. 2617-67 A TECHNIQUE FOR LABORATORY EVALUATION OF SEED TREATMENTS TO A LECHNIQUE FUR LABORATURT EVALUATION OF SEED TREA CONTROL RICE SEED ROT. H A Lamey Plant Dis R 49(9):736-738 See 1965 1.9 P69P Fungicides, Rice, Seed rot (rice), Seed treatment. 2618-67 LABORATORY TESTS OF RICE SEED TREATMENTS IN 1964 FOR CONTROL OF SEED ROT. H A Lamey C D 8rister Plant Dis R 49(9):738-740 Sep 1965 1.9 P69P Fungleides, Rice, Seed rot (rice), Seed treatment. 2619-67 RELATIVE RESISTANCE OR SUSCEPTIBILITY OF SEVERAL CLONES OF HEVEA BRASILIENSIS AND H. BRASLIENSIS X H. BENTHAMIANA TO TWO RACES OF DOTHIDELLA ULEI. K R Langdon Plant Dis R 49(1):12-14 15 Jan 1965 1.9 P69P Dothidella uiel, Fungl, Hevea brasiliensis, Hevea brasiliensis X H. benthamiana, Plant disease resistance.

PAGE 29

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20 2620-67 2620-67 OBSERVATIONS ON CUCUMBER BEETLES AS VECTORS OF CUCURBIT VILT. J G Leach Phytopatholo 54(5):606-607 May 1964 464.B P56 Cucurbit wiit, Insect vectors. 2621-67 CONTROL OF SNOW MOLD BY REGULATING WINTER SOIL TEMPERATURE. J B Lebeau Phytopatholo 54(6):693-696 Jun 1964 464.B P56 Snow mold (grasses), Soll temperature, Turfgrass. 2622-67 INFLUENCE OF BACTERIA ISOLATED FROM HEALTHY CUCUMBER LEAVES ON TWO LEAF DISEASES OF CUMCUMBER. C Leben Phytopatholo 54(4):405-40B Apr 1964 464.B P56 Bacteria, Cucumbers. 2623-67 MELILOTUS ITALICA, A NEW HOST FOR UROMYCES STRIATUS. E E Leppik Plant Dis R 44(3):IB4-1B5 IS Mar 1960 1.9 P69P Italian sweetclover, Malliotus Italica, Plant host, Rust (Italian sweetclover), Uromyces striatus. 2624-67 PLASMOPARA HALSTEDII AND OTHER DISEASES ON DIMORPHOTHECA. E E Leppik Plant Dis R 49(11):940-942 Nov 1965 I.9 P69P Dimorphotheca, Plant diseases, Plasmopara halstedii. 2625-67 SOME EPIPHYTOTIC ASPECTS OF SQUASH MOSAIC. E E Leppik Plant Dis R 4B(1):41-42 15 Jan 1964 I.9 P69P Cucurbita maxima, Epiphytes, Mosaic (squash), Squash. 2626-67 :26-67 NEW HOSTS FOR BROOM-CAUSING FUNGI IN THE SOUTHWEST. P C Lightle F G Hawksworth Plant Dis R 49(5):417-41B IS May 1965 1.9 F69P Broom (juglans major), Microstoma juglandis, Plant hosts, Southwast Southwest. 2627-67 REDUCTION IN PATHOGENICITY AND TOXIN PRODUCTION IN DISEASED HELMINTHOSPORIUM VICTORIAE. G D Lindberg Phytopatholo 50(6):457-460, TAB5. Jun I960 464.B P56 Halminthosporium victoriae, Pathogenicity, Toxicology, Toxins. 262B-67 CANKER OF TULIP POPLAR CAUSED BY FUSARIUM SOLANI. CANKER OF TULIP POPLAR CAUSED BY FUSARIUM SULANI. H A Lipscomb W Witcher Piant Dis R 49(6):507-508 15 Jun 1965 1.9 P69P Canker (tulip poplar), Fusarium solani, Liriodendron tulipifera, Liriodendron tulipifera. 2629-67 25-57 STANDARDIZATION OF A PROCEDURE FOR ARTIFICIAL INOCULATION OF CUCUMBERS WITH COLLETOTRICHUM LAGENARIUM. R H Littrell W M Epps Plant D1s R 49(B):649-653 Aug 1965 1.9 P69P Colletotrichum Lagenarium, Cucumbers, Immunization. 2630-67 PUCCINIASTRUM EPILOBII ON FUCHSIA IN OREGON. L B Loring L F Roth Plant Dis R 4B(2):99 IS Feb 1964 I.9 P69P Fuchsia, Leaf rust (Fuchsia), Oregon, Pucciniastrum apliobii. 2631-67 PATHOGENESIS IN CANKERS CAUSED BY NECTRIA GALLIGENA. M Lorti Phytopatholo 54(3):261-263, BIBL, 263 PAGE 30

Mar 1964 464.8 P56 Canker (trees), Nectria galligena, Pathogenesis. 2632-67 THE HOST RANGE OF THE VIRUS OF LAMBERT MOTTLE OF CHERRY, A PROGRESS REPORT. PROGRESS REPORT. T B Lott F W L Keane Plant Dis R 45(3):204-207 I5 Mar 196I I.9 P69P Lambert mottle (cherries), Prunus. 2633-67 SOME SEEDLINGS OF THE VAN CHERRY FOUND TO BE SUPERIOR TO BING AS INDICATORS FOR THE TWISTED LEAF VIRUS. T B Lott F W L Keane Plant Dis R 44(5):331 IS May 1960 I.9 P69P Cherries, Seedlings, Twisted leaf (cherries). 2634-67 34-67 THE ASSOCIATION OF THE VIRUS DISEASES TWISTED LEAF OF CHERRY AND RING POX OF APRICOT. T B Lott F w L Keane Plant Dis R 44(4):2243-245 IS Apr 1960 1.9 P69P Planc Dis (conject), Tulated lost (cherries), Viruses Ring pox (apricots), Twisted leaf (cherries), Viruses. 2635-67 PELLICULARIA FILAMENTOSA A COMMON 5APROPHYTE ON MATURE COT-TON STEMS IN LOUISIANA. Phytopatholo 54(6):626 Jun 1964 464.8 P56 Cotton, Louisiana, Pellicularia filamentosa, Saprophytes. 2636-67 CONTROL OF TOBACCO BROWN SPOT BY FIELD SPRAYING WITH DYRENE. CURINGL OF TORGES SHERE SHERE G B Lucas Plant Dis R 45(3):159 15 Mar 1961 I.9 P69P Brown spot (tobacco), Dyrena, Spraying. 2637-67 THE DEVELOPMENT OF MYCOSPHAERELLA BLACK ROT AND PELLICU-LARIA ROLFSII ROT OF WATERMELONS AT VARIOUS TEMPERATURES. N 5 Luepschen Plant Dis R 45(7):557-559 15 Jui 1961 I.9 P69P Black rot (watermelons), Mycosphaerella melonis, Pellicularia rolfsii, Rot (watarmalons), Temperature. 263B-67 THE OCCURRENCE OF PEAR BARK MEASLES IN COLORADO BARTLETT ORCHARDS. N 5 Luepschen Plant Dis R 49(5):392 15 May 1965 1.9 P69P Bark measles (pears), Colorado, Pears. 2639-67 UREA, AN EFFECTIVE TREATMENT FOR STRIPE SMUT ON POA PRATEN-SIS. R J Lukens Plant Dis R 49(4):3öl IS Apr 1965 I.9 P69P Poa pratensis, Stripe smut (poa pratensis), Urea, Ustilago striiformis. 2640-67 540-67 EFFECT OF LODSE KERNEL SMUT ON VEGETATIVE GROWTH OF JOHNSON GRASS AND SORGHUM. E 5 Luttreli J P Craigmiles H B Harris Phytopatholo 54(5):612 May 1964 464.8 PS6 Loose kernel smut (sorghum), Plant physiology, Sorghum, Sorghum halepense. 264I-67 THE EFFECT OF PESTICIDES ON TURFGRASS DISEASE INCIDENCE. J H Madison Plant Dis R 45(11):B92-B93 TS Nov 1961 1-9 P69P Fungicides, Harbicides, Insecticides, Nematocides, Rhizoctonia solani Kuehn, Turf. 2642-67 BLACK ROOT-ROT DEVELOPMENT ON PINTO BEANS, INCITED BY SELEC-TED THIELAVIOPSIS BASICOLA ISOLATES, AS INFLUENCED BY DIF-FERRENT SOIL TEMPERATURES. C R Maler Plant Dis R 45(I0):B04-B07

20 2663-67

15 Oct 1961 1.9 P69P 2653-67 Black root rot (beans), Isolates, Kldney beans, Soil temperature, Thielavlopsis basicola. SEPTORIA ERIOBOTRYAE MAFFEI: A FIRST REPORT FOR THE UNITED STATES. L A McClain H L Rubin Plant Dis R 49(12):1016 Dec 1965 1.9 P69P 2643-67 IN-THE-FURROW APPLICATION OF SOIL FUNGICIDES FOR CONTROL OF COTTON SEEDLING DISEASES. Fungi, Septoria erlobotryae Maffei. COTION SEEDLING DISEASES. C R Maier Plant Dis R 45(4):276-280 15 Apr 1961 1.9 P69P Funglelde application, Fungicides, Seadling disease (cotton), Soli fumigation. 2654-67 CHANGES IN SUGARS AND AMINO ACIDS OF CUCUMBER FRUITS IN-FECTED WITH PHYTHIUM APHANIDERMATUM. C L McCombs N N Winstead Phytopatholo 54(2):233-234 Feb 1964 464.8 P56 2644-67 EFFECTS OF SOIL TEMPERATURE AND SELECTED CROP RESIDUES ON THE DEVELOPMENT AND SEVERITY OF FUSARIUM ROOT-ROT OF BEAN. Amino acids, Cucumbers, Phythium aphanidermatum, Sugars. THE DEVELOPMENT AND SEVENTE OF FORMATION HERE, HERE PLANE C.R. Maler Plant Dis R. 45(12):960-964, TABS. 15 Dec 1961 1.9 P69P Fusarium solani f. phaseoll, Kidney beans, Plant residues, Root rot (beans), Soll temperature. 2655-67 SPREAD OF APPLE CHLOROTIC LEAF SPOT VIRUS FROM TREE TO TREE. R C McCrum Plant Dis R 49(12):958-959 Dec 1965 1.9 P69P Apples, Chlorotic leafspot (apples), Plant disease transmission. 2645-67 STUDIES ON PETRI S VARIEGATION OF SOUR ORANGE LEAVES. G Majorana G Slaramuzzl Int Organ Citrus Virol Pr 3RD:254-259 1963 464.06 INB2 2656-67 PHOMA BLACK STEM OF SUNFLOWERS. PHOMA BLACK STEM OF SUNFLUMENS. W C McDonald Phytopatholo 54(4):492 Apr 1964 464.8 P56 Biack stem (sunflowers), Phoma oleracea var. helianthituberosi, Sunflowers. Leaf varlegation, Sour oranges. 2646-67 A GALL DISEASE OF CACAD AND MANGO IN VENEZUELA CAUSED BY A GALL DISEASE OF CACAO AND MANGO IN VENEZUELA CAUSED CALONECTRIA RIGIDUSCULA. G Malaguti L C de Reyes Phytopatholo 54(5):499 May 1964 464.B P56 Cacao, Calonectria rigidluscula, Mangoes, Plant galls, Venezuela 2657-67 A BACTERIAL LEAF ST THEMUM MORIFOLIUM. BACTERIAL LEAF SPOT OF FLORISTS CHRYSANTHEMUMS, CHYRSAN-THEMUM MORIFOLIUM. L A McFadden Plant Dis R 45(1):16-19 15 Jan 1961 1.9 P69P Bacterlal leaf spot (chyrsanthemums), Chyrsanthemum morifolium, Pseudomonas cichorli (5wingle) Stapp. Venezueia. 2647-67 STIMULATION AND DEPRESSION OF CELL-FREE CARBOXYLATING SYS-TEMS IN RELATION TO DEVELOPMENT OF THE HELMINTHOSPORIUM LEAF SPOT DISEASE OF MAIZE. I Malca R C Huffaker F P Zscheile Jr Phytopatholo 54(6):663-669, BIBL. 66B-669, TABS. Jun 1564 464.8 F55 2658-67 538-67 THE INFECTION OF PEAR ROOTLETS BY PHYTOPHTHORA CACTORUM. D L McIntosh Plant Dis R 44(4):262-264 15 Apr 1960 1-9 P69P Helminthosporium, Leaf spot (malze), Metabolism. 2648-67 Nursery stock (forestry), Pears, Phtophthora cactorum. OBSERVATIONS ON COTTON BOLL ROT AT FLORENCE, SOUTH CARO-DB5EKVAILUNS UN COTION DOLD KONNEN AU LINA IN 1964. P B Marsh M E Simpson B M Waddle D C Harrell Plant Dis R 49(2):138-142, BIBL. 142 15 Feb 1965 1.9 P69P Boll rot (cotton), Cotton, South Carolina. 2659-67 LEAF SYMPTOMS OF TOBACCO RINGSPOT VIRUS INFECTIONS AFTER MECHANICAL INOCULATION ON DIFFERENT PLANT STRUCTURES. M McLean Piant Dis R 49(1):54-57 15 Jan 1965 1.9 P69P Immunization, Plant disease transmission, 2649-67 UNCOLLAPSED FIBERS ASSOCIATED WITH BOLL ROT IN COTTON. Ring spot (tobacco). P B Marsh T Kerr Plant Dis R 45(7):550-551 15 Jui 1961 1.9 P69P 2660-67 560-67 A SURVEY OF CUCURBIT VIRUSES IN THE LOWER RID GRANDE VALLEY OF TEXAS: PRELIMINARY REPORT. D M McLean H M Meyer Plant Dis R 45(2):137-139 15 Feb 1961 1-9 F69P Mosaic (cucumbers), Mosaic (squash), Mosaic (watermelons), Ring spot (tobacco), Texas. Boli rot (cotton), Cotton, Fibers, Fungl. 2650-67 SPHAEROPHRAGMIUM RUST DISCOVERED IN FLORIDA OF ALBIZIA LEBBECK (L.) BENTH. A P Martinez Plant Dis R 45(7):560-561 15 Jul 1961 1.9 P69P Alblzia Iebbeck (L.) Benth., Florida, Rust (aiblzla), 2661-67 561-57 MYROTHECIUM RIND ROT OF CANTALOUP. D M McLean B Sleeth Plant Dis R 45(9):728-729 15 Sep 1961 1.9 F69P Cucumis, Myrotheclum, Rot (cantaloup). Sphaerophragmium acaclae. 2651-67 A55ES5MENT OF LOSS DUE TO GRAIN SMUT OF JOWAR MILLET (SORG-HUM VULGARE) IN INDIA. R S Mathur J 5 Jain G K Bajpai Plant Dis R 49(2):164-166 15 Feb 1965 1.9 P69P 2662-67 INOCULATION AND DEVELOPMENT OF RUST ON PEANUTS GROWN IN THE GREENHOUSE. D V McVey Plant Dis R 49(3):191-192 15 Mar 1965 1.9 P69P Crop losses, Durra, Indla, Smut (sorghum), Sorghum. 2652-67 52-67 THE EFFECT OF VECTOR CONTROL ON YELLO⊍ MOSAIC INCIDENCE ON MOONG (MUNG BEAN) IN INDIA. R S Mathur A K Banersee G K Bajpai Plant Dis R 45(2):166-167 15 Feb 1965 1.9 P69P Greenhouse culture, Immunization, Peanuts, Rust (peanuts). 2663-67 DECAY OF WOOD BY SPECIES OF THE XYLARIACEAE. W Merrili D W French F A Wood India, Insect vectors, Moong, Yellow mosalc (moong). Phytopatholo 54(1):56-5B Jan 1964 464-B P56 Populus tremuloides, Quercus rubra, Weight loss (wood), Wood decay, Wood destroying fungi, Xylariaceae.

20 2664-67 2664-67 TOMATO RING SPOT VIRUS ISOLATED FROM EOLA RASP LEAF OF TOMATO RING SPOT VIRUS IS CHERRY IN OREGON. J A Milbrath J E Reynolds Piant Dis R 45(7):S20-521 15 Jul 1961 1.9 P69P Chenopodium amaranticoior, Oregon, Rasp leaf (cherries), Ring spot (tomatoes). 266S-67 THE EPINASTY VIRUS REACTION OF KWANZAN AND SHIRO-FUGEN FLOWERING CHERRY. J A Milbrath Phytopatholo 50(7):495-497 Jul 1960 464.B PS6 Green ring mottie (cherries), Kwanzan flowering cherry, Prunus serrulata, Ring spot (fruit), Shiro-fugen flowering cherry, Viruses. 2666-67 DWARFMISTLETOE FOUND ON FOXTAIL PINE IN CALIFORNIA. D R Miller H H Bynum Plant Dis R 49(B):647-64B Aug 1965 1.9 P69P Arceuthobium campylopodum Engelm, California, Pinus balfouriana. 2667-67 REACTION OF WHEAT SEEDLINGS TO NEW ISOLATES OF WHEAT STEM RENGIION OF WHENT SUBJECTS J D Miller D M Stewart Piant Dis R 45(B):657-65B 15 Aug 1961 1.9 P69P Isolates, Puccinia graminis, Seedlings, Stem rust (wheat). 266B-67 NEW TECHNIQUES FOR PLANT DISEASE SURVEYS AND FOR APPRAISAL OF LOSSES. P R Miller Plant Dis R 44(1):5-11 15 Jan 1960 1.9 P69P Crop losses, Plant diseases, Surveys. 2669-67 NON-TRANSMISSION OF CERTAIN STRAWBERRY VIRUSES BY NEMATODES. P W Milier H J Jensen Plant Dis R 49(6):509-511 15 Jun 1965 1.9 P69P Nematodes, Plant disease transmission, Strawberries, Virus diseases (plants). 2670-67 THE ETIOLOGY OF BLACKLINE 1N GRAFTED PERSIAN WALNUTS. P W Miiler Plant Dis R 49(11):954 Nov 1965 1.9 P69P Blackline (Juglans regia), Juglans hindsii, Juglans regia. 2671-67 JUGLANS REGIA APPARENTLY NOT SUSCEPTIBLE TO ELM AND CHERRY ISOLATES OF VERTICILLIUM ALBO-ATRUM. P W Miller Plant Dis R 4B(1):69 15 Jan 1964 1.9 P69P Cherries, Juglans regia, Uimus, Verticiliium albo-atrum. 2672-67 RAPID SPREAD OF MOTTLE AND MILD YELLOW-EDGE VIRUSES INTO HYBRID STRAWBERRY SELECTIONS. P W Miller Plant Dis R 49(4):284 15 Apr 1965 1.9 P69P Mottle (strauberries), Plant disease transmission, Strawberries, Yellow edge (strawberries). 2673-67 GUMMOSIS AND LEAF SPOTTING OF SWEET CHERRY, SYMPTONS ASSOCI-ATED WITH BACTERIAL INFECTION. D F Miilikan H W Guengerich R N Goodman Plant Dis R 49(5):380-381 15 May 1965 1.9 P69P Gummosis (cherries), Leaf spot (cherries), Mazzard cherries, Pseudocose and Yathomasa spor Pseudomonas spp., Xanthomonas spp.. 2674-67 FURTHER OBSERVATIONS ON THE SCAR SKIN DISEASES OF APPLE. D F Milikan H W Guengerich Plant Dis R 44(4):260-261 15 Apr 1960 1.9 P69P Apples, Scar skin (apples).

2675-67 575-67 RHIZOCTONIA SEED AND ROOT ROT OF AVOCADO. S M Mircetich G A Zentmyer Phytopatholo S4(2):211-213 Feb 1964 464.8 PS6 Avocados, Rhizoctonia, Root rot (avocados), Seeds. 2676-67 CHITIN AND THE BIOLOGICAL CONTROL OF FUSARIUM DISEASES. R Mitchell M Alexander Plant Dis R 4S(7):487-490, TABS. 15 Jul 1961 1.9 P69P Chitin, Fusarium, Root rot (beans), Wiit (radishes). 2677-67 SUSCEPTIBILITY OF VARIOUS APPLE CLONAL ROOTSTOCKS TO CEDAR APPLE RUST. L A Mitterling Plant Dis R 49(7):57B-5B0 Jui 1965 1.9 P69P Apples, Plant disease resistance, Rootstock, Rust (apples). 2678-67 NIGROSPORA COB ROT OF CORN IN THE UNITED ARAB REPUBLIC. H A Mohamed S M Fathi Piant Dis R 49(3):244-246 15 Mar 1965 1.9 P69P Cob rot (corn), Corn, Nigrospora oryzae, United Arab Republic. 2679-67 CROP ROTATION STUDIES: I. FUNGI ISOLATED FROM COTTON SEED-LINGS FROM THE PERMANENT FERTILIZER EXPERIMENT AT BAHTIM. H A Mohamed Plant Dis R 49(12):1013-1014 Dec 1965 1.9 P69P Dec 1965 1.9 P69P Cotton, Crop rotation, Egypt, Fertilizers, Fungi, Seedlings. 26B0-67 SOME PHYSIOLOGICAL PROPERTIES OF LEAVES AND BARK OF PSOROSIS -INFECTED VALENCIA DRANGE TREES. S P Monselise R Goren Int Organ Citrus Virol Pr 3RD:295-29B 1963 464.06 INB2 Bark, Leaves, Plant physiology, Psorosis (citrus), Valencia oranges. 26BI-67 PATHOGENICITY OF PHYTOPHTHORA FRAGARIAE TO CERTAIN POTEN-PAILOGENICITY OF PHYTOPHIHOKA FRAGARIAE TO CENTAIN TILLA SPECIES. J N Moore D H Scott R H Converse Phytopatholo 54(2):173-176, PL. Feb 1964 464.B P56 Pathogenicity, Phytophthora fragariae, Potentilia, Pod atole (ataputkaralog) Red stele (strawberries). 2682-67 BEHAVIOUR OF 77 TRISTEZA TOLERANT ROOTSTOCKS WITH OLD AND NUCELLAR CLONES OF BARAO ORANGE SCIONS. S Moreira C Roessing Int Organ Citrus Virol Pr 3RD:299-301 1963 464.06 INB2 Barao oranges, Ciones, Rootstock, Tristeza (citrus). 2683-67 NUCELLAR LINES IN THE STATE OF SAO PAULO, BRAZIL. S Moreira A A Salibe Int Organ Citrus Virol Pr 3RD:309-313 1963 464.06 1NB2 Brazil, Nucellar clones. 2684-67 DA→O/ LEAF SYMPTOMS OF SOYBEAN ANTHRACNOSE. F L Morgan H ¥ Johnson Phytopatholo S4(6):62S Jun 1964 464.8 PS6 Anthracnose (soybeans), Leaves. 2685-67 A SPECIES OF CLITOCYBE ASSOCIATED WITH DECLINING OAK AND SYCAMORE IN CALIFORNIA. SYLAMORE IN CALIFORNIA. R H Morrison Plant Dis R 49(10):B70-B71 Oct 1965 1.9 P69P California, Clitocybe oleari, Platanus racemosa, Quercus agrifolia, Wood destroying fungi.

8I8LIOGRAPHY

20 2707-67

2686-67 2697-67 386-67 A RECENTLY DISCOVERED UNIDENTIFIED FOLIAR DISEASE OF PEPPER SEEDLINGS IN GEORGIA. D J Morton T J Ratcliffe Plant Dis R 48(2):89 IS Feb 1964 1.9 P69P Constant Distant Constant Constan 697-67 GROWTH INHIBITION AND MORTALITY IN PAPAYA SEEDLINGS RESULT-ING FROM PAPAYA TISSUE INCORPORATED IN THE SOIL. T Murashige M Aragaki J Kunisaki Plant Dis R 48(1):8-11, TABS. 15 Jan 1964 I-9 P69P Georgia, Redpeppers (vegetable), Seedlings. Papayas, Papayas, Plant growth inhibitors. 26B7-67 2698-67 A NEW LEAF SPOT OF CARDAMON FROM INDIA. B N Muthappa Plant Dis R 49(11):917 Nov 1965 1.9 P69P AN INVERSE RELATIONSHIP BET₩EEN THE SEVERITIES OF HELMINTH-OSPORIUM LEAF-BLADE AND SEPTORIA LEAF-SHEATH SYMPTOMS ON BARLEY. DANLI: D J Morton G A Peterson Plant Dis R 44(1):23-24 15 Jan 1960 I.9 P69P Barley, Helminthosporium, Leaf blade, Leaf sheath, Septoria. Elettaria cardamomum, india, Leaf spot (Elettaria cardamomum), Zingiberaceae. 2699-67 STRUCTURE OF RICE LEAVES IN RELATION TO VARIETAL SUSCEPTI-BILITY TO RICE BLAST, PIRICULARIA ORYZAE. 2688-67 A MICROAGGLUTINATION TEST FOR IDENTIFYING XANTHOMONAS VESI-CATORIA IN PEPPER LEAF LESION. D J Morton OILIT ID RICE DLASI, PIRICULARIA DRIZAL. G A Nagdy M T Mahdy Plant Dis R 49(2):170-172 15 Feb 1965 1.9 P69P Blast (rice), Leaves, Piricularia oryzae, Rice. Phytopatholo 54(6):62S Jun 1964 464.8 PS6 Agglutination test, Leaf lesions (pepper), Pepper, Xanthomonas vesicatoria. 2700-67 ROOT INOCULATION OF OIL PALM SEEDLINGS WITH GANODERMA SP. S J Navaratnam C K Leong Plant Dis R 49(12):1011-1013 NBY-67 NEW PATHOGENIC STRAINS OF PUCCINIA HORDEI AMONG PHYSIOLOGIC RACES IDENTIFIED IN UNITED STATES FROM 1959 THROUGH 1964. J G Moseman L W Greeley Plant Dis R 49(7):575-578 Jul 1965 1.9 P69P Leaf rust (barlow) Petersetette D 2689-67 Dec 1965 I.9 P69P African olipalm, Ganoderma, Immunization, Roots, Seedlings. Leaf rust (bariey), Pathogenicity, Puccinia hordel, United States. 2701-67 01-67 SPECIES OF ELM ON THE UNIVERSITY OF ILLINOIS CAMPUS RESIS-TANT TO DUTCH ELM DISEASE. D Neeley J C Carter Plant Dis R 49(6):S52 15 Jun 1965 1.9 P69P 2690-67 PREDISPOSITION OF WHEAT BY ERYSIPHE GRAMMIS F. SP. TRITICI TO INFECTION WITH ERYSIPHE GRAMMIS F. SP. HORDEI. Ceratocystis ulmi, Dieback (uimus), Plant disease resistance, Uimus, University of illinois. J G Moseman L W Greeley Phytopatholo S4(5):618 May 1964 464.8 PS6 Erysiphe grammis f. sp. hordel, Erysiphe grammis f. sp. tritici, Wheat. 2702-67 EFFECTIVENESS OF VAPAM IN PREVENTING ROOT GRAFT TRANSMISS-ION OF THE DUTCH ELM DISEASE FUNGUS. D Neeley E B Himelick Piant Dis R 49(2):106-108 15 Feb 1965 I.9 P69P 2691-67 VIRUSES OF LEGUMINOUS FORAGE CROPS IN RHODE ISLAND. W C Mueller Plant Dis R 49(9):750-752 Sep 1965 1.9 P69P Ceratocystis ulmi, Dieback (ulmus), Insect vectors, Plant disease transmission, Plant grafting, Vapam. Forage plants, Legumes, Mosaic (alfalfa), Mosaic (white clover), Rhode Island, Yellow mosaic (beans). 2703-67 DETECTION OF CAULIFLOWER MOSAIC VIRUS BY IMMUNE ADHERENCE. D S Nelson M F Day Phytopatholo S4(4):395-39B Apr 1964 464.8 PS6 2692-67 92-67 A NEW DISEASE OF MANGIFERA INDICA IN INDIA, CAUSED BY AL-TERNARIA TENUISSIMA. S K Mukherji S K Bhattacharya Plant Dis R 49(5):405-407, TABS. IS May 1965 1.9 P69P Cauliflower, Immune adherence, Mosaic (caulifiower), Virus serology. 2704-67 SOME PROBABLE RELATIONSHIPS OF SOIL FUNGI AND ZONE LINES TO SURVIVAL OF PORIA WEIRII IN BURIED WOOD BLOCKS. Alternaria tenuissima, India, Mangoes. 2693-67 E E Nelson RUST ON TOBACCO DISCOVERED 1N HONDURAS. A S Muller H A Asegueda Phytopatholo 54(S):499 May 1964 464.B P56 Phytopatholo 54(1):120-121 Jan 1964 464.B P56 Poria weiril, Soli fungi, Soli sampling, Zone lines (wood). Honduras, Rust (tobacco). 2705-67 AN ANTAGONISTIC VARIANT OF CORYNEBACTERIUM INSIDIOSUM AND SOME PROPERTIES OF THE INHIBITOR. 2694-67 AND SOME PROPERTIES UP INE INTERIORS G A Nelson G Semenluk Phytopatholo 54(3):330-335, PL. Mar 1964 464.8 P56 Alfalfa, Corynebacterium insidiosum, Plant growth inhibitors, Wiit (alfalfa). COMPARATIVE INCIDENCE OF GRAYWALL AND INTERNAL BROWNING OF TOMATO AND SOURCES OF RESISTANCE. H H Murakishi H H Murakishi Phytopatholo 50(6):408-412, BIBL. 412, TABS. Jun 1960 464.B P56 Graywaii (tomatocs), Internal browning (tomatocs), Mosaic (tobacco), Tomatocs. 2706-67 METHODS FOR ESTIMATING NUMBERS OF RESTING SPORANGIA OF SYNCHYTRIUM ENDOBIOTICUM IN SOIL. 2695-67 A NECROTIC POD STREAK OF PEPPER CAUSED BY TOBACCO MOSAIC VIRUS. G A Neison O A Neison Phytopatholo 54(2):185-186 H H Murakishi Feb 1964 464.8 P56 Phytopatholo 50(6):464-466, PL. Jun 1960 464.8 PS6 Soli analysis, Sporangia, Synchytrium endobioticum. Mosalc (tobacco), Necrotic pod streak (pepper), Pepper. 2707-67 THE RELATIONSHIP OF MOSAIC VIRUS DISEASE TO CROWN BLIGHT OF 2696-67 CANTALOUP. AN APPARENTLY NEW ROOT NECROSIS DISEASE OF RHU8ARB. H M Murakishi Piant Dis R 44(3):186-188 IS Mar 1960 1.9 P69P M R Neison Phytopatholo 54(4):460-465, 818L. 464-46S Apr 1964 464.8 P56 Cantaloupes, Crown blight (cantaloupes), Mosaic (cantaloupes). Necrosis, Rhubarb, Roots.

20 270B-67 270B-67 CARNATION AS A SYMPTOMLESS CARRIER OF FUSARIUM OXYSPORUM F. DIANTHI. P E Nelson Nelson Phytopatholo 54(3):323-329, TABS. Mar 1964 466.B PS6 Dianthus caryophyilus, Dianthus caryophyilus, Fusarium oxysporium f. dianthi. 2709-67 09-67 THE PATHOGENICITY OF CERTAIN SPECIES OF HELMINTHOSPORIUM TO SPECIES OF THE GRAMINEAE. R R Nelson D M Kline Plant DIs R 45(B):664-64B 15 Aug 1961 I.9 P69P Grasses, Helminthosporium, Pathogenesis. 2710-67 ONION SMUT CONTROL EXPERIMENTS WITH GRANULE FORMULATIONS IN GREENHOUSE AND FIELD. A G Newhall J L Brann Plant Dis R 44(4):269-272 IS Apr 1960 I.9 P69P Fleld crops, Granules, Greenhouses, Smut (onions). 2711-67 711-67 BLOSSOM BLIGHT AND GREEN FRUIT ROT OF ALMOND, APRICOT AND PLUM CAUSED BY BOTRYTIS CINEREA. A G Newhali J L Brann Plant Dis R 44(4):265-26B IS Apr 1960 1.9 P69P Almonds, Apricots, Biossom bilght (almonds), Biossom bilght (apricots), Blossom bilght (plums), Botrytis cinerea, Green fruit rot (apricots), Green fruit rot (plums), Plums. 2712-67 CONTROL OF BACTERIAL SCAB AND FUSARIUM CORM ROT OF GLADIO-LUS. L P Nichols Plant Dls R 45(S):344-346 I5 May 196I I.9 P69P Bacteriai scab (gladiolus), Corm rot (gladiolus), Fusarlum oxysporum f. gladioll, Pseudomonas marginata. 2713-67 13-507 2-N-ALKYLMERCAPTO-I,4,S,6-TETRAHYDROPYRIMIDINES, CHEMOTHERA-PEUTIC AGENTS FOR PLANT RUSTS. L G Nickell P N Gordon A Goenaga Plant Dis R 45(10):756-75B, TABS. IS Oct 1961 I.9 P69P Drug therapy, Rust (beans), Rust (canna), Rust (snapdragon), Rust (wheat), 2-n-alky[mercapto-I,4,S,6-tetrahydropyrlmidine. 2714-67 RESISTANCE IN SWEETPOTATO TO THE INTERNAL CORK VIRUS. L W Nieisen D T Pope Piant Dls R 44(S):342-347 15 May 1960 I.9 P69P Internal cork (sweetpotatoes), Plant disease resistance, Sweetpotatoes, Virus diseases (plants). 2715-67 DLISTER, A NEW DISEASE OF SWEETPOTATO. L W Nielsen Plant Dis R 49(2):97-101 15 Feb 196S 1.9 P69P Blister, Sweetpotatoes. 2716-67 EVALUATION OF TWO SYSTEMIC INSECTICIDES APPLIED AS SEED TREATMENT FOR THE CONTROL OF MELOIDOGYNE INCOGNITA ACRITA ATTACKING COTTON-E Nigh Jr Piant Dis R 44(4):2BB-2B9 IS Apr 1960 1.9 P69P Cotton, Insecticides, Meloidogyne incognita acrita, Seeds. 2717-67 NATURAL HOSTS OF CUCUMBER MOSAIC VIRUS IN ISRAEL. F E Nitzany Plant Dls R 44(2):144 15 Feb 1960 I.9 P69P Cucumbers, Host plants, Mosaic (cucumbers). 271B-67 DISTRIBUTION AND MOVEMENT OF PSOROSIS AND TRISTEZA VIRUSES IN CITRUS TREES. F Nour-Eldin M T Ei-Banna

Int Organ Citrus Virol Pr 3RD:272-275 1963 464.06 INB2 Citrus, Psorosis (citrus), Tristeza (citrus). 2719-67 RING CALLUS AS A PATH FOR NON-GRAFT TRANSMITTED AEGLOPSIS CHEVALIEKI VEIN-CLEARING VIRUS. F Nour-Eldin M A Tolba M T El-Banna S El-Attar Int Organ Citrus Viroi Pr 3RD:280-284 1963 464.06 INB2 Aeglopsis chevalieri, Ring callus, Vein-clearing (citrus). 2720-67 THE INCIDENCE OF STEM ROTS IN TOBACCU TRANSPLANTS IN RELA-TION TO WIREWORM INJURY. C J Nusbaum F E Guthrie R L Rabb Plant DIs R 4S(3):225-226 1S Mar 1961 1.9 P69P Elateridae, Pythlum spp., Sclerotium rolfsli, Stem rot (tobacco), Tobacco. 2721-67 HETEROGENEITY IN THE NORKA DIFFERENTIAL WHEAT VARIETY TO A NEW RACE OF ERYSIPHE GRAMINIS TRITICI. W E Nyquist Plant Dis R 44(2):126-12B IS Feb I960 1.9 P69P Erysiphe graminis tritici, Norka wheat, Powdery mildew (wheat), Wheat. 2722-67 CREENING DISEASE OF SWEET ORANGE IN SOUTH AFRICA. P C J Oberholzer D F A von Standen W J Basson Int Organ Citrus Virol Pr 3RD:213-219 1963 464.06 INB2 Greening disease, Sweet oranges. 2723-67 SOME FACTORS INFLUENCING INFECTION AND DISEASE DEVELOPMENT OF PHYTOPHTHORA PARASITICA DAST. ON TOMATO. F C Obrero M Aragaki Plant Dis R 49(4):327-331, TABS. IS Apr 1965 1.9 P69P Pathogenicity, Phytophthora parasitica Dast., Tomatoes. 2724-67 /24-67 23,6-DICHLORO-4-NITROANILINE EFFECTIVE AGAINST RHIZOPUS FRUIT ROT OF SWEET CHERRIES. J M Ogawa S D Lyda D J Weber Plant D1s R 4S(B):636-638 IS Aug 1961 I.9 P69P Mazzard cherries, Rhizopus stolonifer, Rot (mazzard cherries), 2,6-dichloro-4-nitroaniiine. 2725-67 RELATIVE PATHOGENICITY OF TWO BROWN ROT FUNGI, SCLEROTINIA LAXA AND SCLEROTINIA FRUCTICOLA, ON TWIGS AND BLOSSOMS. J M Ogawa H English Phytopatholo SO(7):SSO-SSB, BIBL. 557-SSB, TABS. Jul 1960 464.B P56 Brown rot (apricots), Brown rot (cherries), Scierotinia fructicola, Scierotinia laxa. 2726-67 APHIDS AND THE EPIDEMIOLOGY OF BARLEY YELLOW DWARF VIRUS IN NEW BRUNSWICK. G B Oriob Plant Dis R 4S(6):466-469, BIBL. 469 15 Jun 1961 1.9 P69P Aphididae, Insect vectors, New Brunswick, Yeilow dwarf (barley). 2727-67 INFLUENCE OF SOME ENVIRONMENTAL FACTORS AND GROWTH SUBSTAN-CES ON THE DEVELOPMENT OF BARLEY YELLOW DWARF. G B Oriob D C Arny Plant Dis R 45(3):192-195 15 Mar 1961 I.9 P69P Environment, Plant disease resistance, Yeilow dwarf (barley). 272B-67 A PHOMOPSIS STEM BLIGHT OF YELLOW LUPINE (LUPINUS LUTEUS L.). S A Ostazeski H D Weiis Plant Dis R 44(1):66-67 IS Jan 1960 1.9 P69P Fungus diseases (piants), Lupinus iuteus L., Phomopsis, Stem blight (yeiiow iupine).

8I8LIOGRAPHY

20 2750-67

2729-67 VIRUS NATURE OF PENYAKIT MERAH DISEASE OF RICE IN MAYLAY-SIA. SIA. S H Du C T Rivera S J Navaratnam K G Goh Plant Dis R 49(9):778-782 Sep 1965 1.9 P69P penyaklt merah (rice), Maylasla, Rice, Virus diseases (plants). 2730-67 TESTS OF SOIL FUNGICIDES UNDER UNIFORM CONDITIONS FOR CON-TROL OF COTTON DAMPING-OFF CAUSED BY RHIZOCTONIA SOLANI. J H Owen J n Owen Phytopatholo S4(6):62S-626 Jun 1964 464-8 P56 Chemical control (plant diseases), Damping-off (cotton), Rhizoctonia solani, Soll fungicides. 2731-67 OCCURRENCE OF PEACH TREE DECLINE IN GEORGIA IN 1965. J H Dwen W M Poweli F F Hendrix Jr Plant Dis R 49(10):859-860 Oct 1965 1.9 P69P Decline (peaches), Georgia, Peaches. 2732-67 TWO NEW DISEASES OF SOAP-NUT TREE (SAPINDUS SPECIES) FROM INDIA. H S Pal H S Pal Plant Dis R 49(3):263-264 IS Mar 1965 I.9 P69P India, Sapindus emarginatus, Sapindus trifoliatus, Soap-nut tree. 2733-67 APPEARANCE OF TOBACCO BLUE MOLD IN ISRAEL. J Paltl H Younls Plant Dis R 48(2):106 15 Feb 1964 1.9 P69P Downy mildew (tobacco), Israel, Peronospora tabacina Adam, Tobacco. 2734-67 PROBLEMS OF PLANT DISEASE FORECASTING IN AN ARID CLIMATE. J Paltl Plant Dis R 4S(1):31-37 15 Jan 1961 1.9 P69P Arld regions, Plant disease forecasting. 2735-67 THE PRESENT STATUS OF IMPLETRATURA, A CITRUS DISEASE, IN CYPRUS. Papasolomontos Plant Dis R 49(2):111-113 15 Feb 1965 1.9 P69P Citrus, Cyprus, Impletratura (oranges). 2736-67 THE OCCURRENCE OF PITS AND PROTUBERANCES IN THE XYLEM OF CITRUS VARIETIES IN ISRAEL. J Patt W Hiller Plant Dis R 49(11):936-939 Nov 1965 1.9 P69P Cltrus, Israel, Pltting disease (citrus), Xylem. 2737-67 HOST-PARASITE RELATIONSHIPS IN SUNFLOWER WILT INCITED 8Y SCLEROTINIA SCLEROTIORUM AS DETERMINED BY THE TWIN TECHNIQUE. S H Pawlowski E J Hawn Phytopatholo S4(1):33-3S Jan 1964 464.8 P56 Host indexing (plants), Scierotinia scierotiorum, Sunflowers, Wilt disease (sunflower). Host 2738-67 THE RELATIONSHIPS OF ENGLISH AND AMERICAN RACES OF PHYTO-PHTHORA FRAGARIAE. H S Pepin H A Daubeny Phytopatholo 54(2):241 Feb 1964 464.B PS6 America, Blological races, England, Phytophthora fragariae. 2739-67 SACTERIAL SCAS OF TOMATO IN PUERTO RICO. J E Perez Plant Dls R 4S(6):481 1S Jun 1961 1.9 P69P Bacterial scab (tomatoes), Puerto Rico, Xanthomonas vesicatoria.

2740-67 BACTERIAL CANKER OF STONE FRUITS IN THE SOUTHEASTERN STATES. D H Petersen W M Dowler Plant Dis R 49(8):701-702 Aug 1965 i.9 P69P Bacterlal canker (fruit), Fruit, Pseudomonas syringae, Southeast. 2741-67 POLYPORUS SPP. ASSOCIATED WITH WOOD DECAY OF LIVING PEACH TREES IN SOUTH CAROLINA. INCLES IN SUDITICARULINA. D H Petersen Piant Dis R 45(3):186-189, 818L. 188-189 IS Mar 1961 1.9 P69P Peaches, Polyporus, South Carolina, Wood decay. 2742-67 DECAY RESISTANCE OF EXTRACTIVE-FREE CONIFEROUS WOODS TO WHITE-ROT FUNGI. C A Peterson E B Cowling Phytopatholo S4(5):S42-S47 May 1964 464.8 P56 White-rot, Wood destroying fungi, Wood durability. 2743-67 CONTROL OF PHOMOPSIS BLIGHT OF EASTERN REDCEDAR SEEDLINGS. G W Peterson D R Sumner C Norman 9 w Feterson D A Samer C Homan Plant Dis R 49(6):S29-S31 IS Jun 1965 1.9 P69P Bilght (eastern redcedar), Juniperus virginiana, Juniperus virginiana, Phomopsis juniperova Hahn. 2744-67 FUSARIUM CANKER OF SOPHORA JAPONICA. Α J L Peterson S H Davis Jr Piant Dis R 49(10):B35-B36 Oct 196S 1.9 P69P Canker (Sophora japonica), Fusarium lateritium Nees, Sophora japonlca. 274S-67 STUDIES ON THE PREVALENCE AND COMPARATIVE PATHOGENICITY OF FUNGI ASSOCIATED WITH CORN STALK ROT. J L Peterson Piant Dis R 45(3):20B-210 15 Mar 1961 1.9 P69P Fusarlum, Microorganisms, Stalk rot (corn). 2746-67 746-67 THE EFFECT OF VARIANTS OF DIAPORTHE PHASEOLORUM ON SOYƏEAN GERMINATION AND GROWTH IN NEW JERSEY. J L Peterson R F Strelecki Plant Dis R 49(3):228-229 IS Mar 1965 1.9 P69P Diaporthe phaseolorum, New Jersey, Seed germination, Souhane Soybeans. 2747-67 INFLUENCE OF NECROTIC RINGSPOT VIRUS ON GROWTH AND YIELD OF PEACH TREES. T S Pine Phytopatholo 54(5):604-605 May 1964 464.8 PS6 Crop ylelds, Necrotlc ring spot (peaches), Peaches, Trees, Viruses. 2748-67 PLUM RUSTY BLOTCH IN CALIFORNIA. T S Pine Piant Dis R 49(2):109-110 15 Feb 1965 1.9 P69P California, Plums, Rusty biotch (plums). 2749-67 749-67 RIO OSO GEM PEACH SEEDLINGS AS INDICATOR HOSTS FOR THE PRUNUS RING SPOT VIRUS. T S Pine H E Williams Plant Dis R 44(5):324-32S IS May 1960 1.9 P69P Cherries, Indicator hosts, Peaches, Ring spot (prunus), Seedlings. 2750-67 ASSOCIATION OF PHYTOPHTHORA CINNAMOMI WITH A DISEASE OF EUCALYPTUS MARGINATA FOREST IN WESTERN AUSTRALIA. F D Podger R F Doepel G A Zentmyer Plant Dis R 49(11):943-947 Nov 1965 1.9 P69P

Austraila, Dleback (jarrah), Eucalyptus marginata,

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20 2751-67
   Phytophthora cinnamoni.
2751-67
   THE INHIBITORY EFFECTS OF CERTAIN FUNGICIDE FORMULATIONS TO
   APPLE SCAB CONIDIA.
     Powell
   Plant Dis R 44(3):176-178
   15 Mar 1960 1.9 P69P
Appies, Fungicides, 5cab (apples).
2752-67
   A55UCIATION OF PHYCOMYCETOUS FUNGI WITH PEACH TREE DECLINE
   IN GEORGIA.
W M Poweli J H Gwen W A Campheil
   Plant Dis R 49(4)279
15 Apr 1965 1.9 P69P
   Fungi, Georgia, Peaches, Phytophthora spp., Pythium spp..
2753-67
   INITIATION OF STRAWBERRY FRUIT ROT CAUSED BY BOTRYTIS
   CINEREA.
R L Poweison
   Phytopathoio 50(7):491-494
   Jul 1960 464.8 P56
Botrytis cinerea, Rot (strawberries), 5trawberries.
2754-67
GENETIC CONTROL OF THE HOST-PARASITE RELATIONSHIP IN WHEAT
   POWDERY MILDEW.
H R Powers Jr W J Sando
Phytopathoio 50(6):454-457, TABS.
Jun 1960 464.8 P56
   Parasitism, Plant genetics, Powdery mildew (wheat).
2755-67
   FOMES ANNOSUS ON SLASH PINE IN THE SOUTHEAST.
H R Powers Jr J 5 Boyce Jr
   Plant Dis R 45(4):306-307
15 Apr 1961 1.9 P69P
   Fomes annosus, Pinus elliottii, Root rot (pinus elliottii),
Thinning (trees).
2756-67
  ADDODY
AN EVALUATION OF CYCLOHEXIMIDE (ACTI-DIONE) FOR CONTROL OF
WHITE PINE BLISTER RUST IN THE SOUTHEAST.
H R Powers Jr W A Stegall Jr
Plant Dis R 49(4):342-346, TABS.
15 Apr 1965 1.9 P69P
   Bilster rust (pinus monticola), Cycloheximide, Southeast.
2757-67
  A VIRUS-LIN
ROOTSTOCK.
     VIRUS-LIKE DISORDER OF MALVASIO TANGERINE ON ROUGH LEMON
   A R Pujol
Int Organ Citrus Virol Pr 3RD:210-212
1963 464.06 IN82
   Malvasio tangerine, Rough lemon.
2758-67
   STRIPE-RUST HEAD INFECTION IN FIVE PACIFIC NORTHWEST
   WHEAT5.
   L H Purdy R E Allan
   Plant Dis R 49(4):335-338
15 Apr 1965 1.9 P69P
Pacific Northwest, Puccinia striiformis,
Stripe rust (wheat), Wheat.
2759-67
   COMMON AND DWARF BUNTS, THEIR CHEMICAL CONTROL IN THE PACI-
   FIC NORTHWEST.
   FIC NORTHWEST.
L H Purdy
Plant Dis R 49(1):42-46
15 Jan 1965 1.9 P69P
Chemical control (plant diseases), Common bunt, Dwarf bunt,
Pacific Northwest.
2760-67
   cu-c/
A DODDER ON 5T. JOHNSWORT AND IVY.
R D Raabe H E Thomas
Piant Dis R 49(12):1015
Dec 1965 1.9 P69P
   Cuscuta approximata, Hedera helix, Hypericum calycinum.
2761-67
   50ME PREVIOUSLY UNREPORTED HOSTS OF ARMILLARIA MELLEA IN
   CALIFORNIA.
   CALIFORNIA.
R D Rabe
Piant Dis R 49(10):812
Oct 1965 1.9 P69P
Armiliaria melica, California, Plant hosts.
PAGE 36
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2762-67 (62-67) FUNGICIDE TOLERANCE IN RHIZOCTONIA SULANI INFLUENCED BY TEMPERATURE AND SERIAL TRANSFER IN FUNGICIDE-TREATED SOIL. J B Raffray J B Sinclair Plant Dis R 49(6);500-503 15 Jun 1965 1.9 P69P Fungicides, Rhizoctonia soiani, Serial transfer, Tota transfer, Soll treatment, Temperature. 2763-67 763-67 WHITE ROT DISEASE OF ONION IN RELATION TO METHODS AND DATES OF INOCULATION, AND ITS INCIDENCE IN THE SEEDBED. M M Ragab W A Warld A A El-Shehedi A A Ahmed Plant Dis R 49(9):760-763, TABS. Sep 1965 1.9 P69P Immunization, Onions, Scierotium cepivorum, Seedbeds, White rot (onions). 2764-67 A NEW 5MUT OF LEMON GRA5S FROM INDIA. T Raghunath Plant Dis R 49(11):916 Nov 1965 1.9 P69P Cymbopogon citratus, India, Smut (Cymbopogon citratus). 2765-67 OBSERVATIONS ON NEW OR UNUSUAL DISEASES OF HIGHBUSH BLUEBER-RY. L C Raniere Plant Dis R 45(11):B44 15 Nov 1961 1.9 P69P Blueberries, Crown rot (blueberries), Phytophthora, Piant injuries, Rainfali, Root rot (blueberries), 2766-67 CONDITIONS FAVORABLE FOR ADSORPTION AND ELUTION OF TOBACCO MOSAIC VIRUS IN AN ECTEOLA-CELLULOSE COLUMN. T E Rawlins Plant Dis R 45(8):598
15 Aug 1961 1.9 P69P
Celluiose, Columns (process), Ecteoia, Ion exchange, Mosaic (tobacco). 2767-67 CITRUS DECLINE IN SOUTH INDIA. G 5 Reddy Int Organ Citrus Viroi Pr 3RD:225 1963 464.06 IN82 Citrus, India. 2768-67 OBSERVATIONS ON DECLINING SOUR ORANGE SEEDLING TREES IN SPAIN. I Reichert O Ginsburg Plant Dis R 45(12):945-94B 15 Dec 1961 1.9 P69P Decline (sour oranges), Seedlings, Sour oranges, Spain. 2769-67 TRANSLOCATION AND TITER INCREASE STUDIES OF THREE PEA VIRUS TRANSLUCATION one -ISOLATES. T P Reiling T H King Plant Dis R 49(1):24-28 15 Jan 1965 1.9 P69P Mosaic (peas), Pcas, Plant translocation, Streak (peas), Titer Increase. 2770-67 YELLOW MOTTLE DECLINE OF COCONUTS IN THE TERRITORY OF GUAM. The conversion of the second 2771-67 SEED TRANSMISSION OF COFFEE RING SPOT BY EXCELSA COFFEE (COFFEE EXCELSA). (CUFFE EXCLESS). T T Reyes Piant Dis R 45(3):185 15 Mar 1961 1.9 P69P Coffea excelsa, Piant discase transmission, Ring spot (coffee), Seed-borne plant diseases. 2772-67 INHERITANCE OF POWDERY MILDEW RESISTANCE IN THE GENUS CU-CURBITA. A M Rhodes Plant Dis R 48(1):54-59 15 Jan 1964 1.9 P69P

818LIOGRAPHY

2D 2/94-67

Cucurbita, Powdery mildew (plants). 2784-67 2773-67 INFECTIVITY DIFFERENCES BETWEEN OLPIDIUM FROM ROOTS OF SPINACH AND LETTUCE. 5 Rich Piant Dis R 44(S):353 15 May 196D 1.9 P69P Lettuce, Oipidium, Splnach. 2785-67 2774-67 EFFECT OF INSECTICIDE-FUNGICIDE COMBINATIONS ON EMERGENCE OF PEAS AND GROWTH OF DAMPING-OFF FUNGI. L T Richardson Piant Dis R 44(2):1D4-1D8
15 Feb 1960 1.9 P69P
Damping-off (peas), Fungicides, Insectleides, Peas. 2786-67 2775-67 (75-67) LEAFHOPPER TRANSMISSION OF TUNGRO DISEASE OF RICE. C T Rivera S H Ou Plant Dis R 49(2):127-131 15 Feb 1965 1.9 P69P Insect vectors, Plant disease transmission, Rice, Rice green leafhopper, Tungro. 2776-67 REACTION OF SESAME TO FUSARIUM WILT IN SOUTH CAROLINA. G W Rivers J A Martin M L Kinman Plant Dis R 49(S):383-385 1S May 1965 1.9 P69P Sesame, South Carolina, Wilt (fusarium). 2788-67 2777-67 THE OCCURRENCE AND TRANSMISSION OF MAIZE DWARF MOSAIC IN VIRGINIA. VIRGINIA. C W Roane J L Troutman Plant Dis R 49(8):665-667 Aug 1965 1.9 P69P Corn, Dwarf mosaic (maize), Plant disease transmission, Plant hosts, Virginia. 2778-67 POSSIBLE SHIFT IN PREDOMINATING STRAINS OF BARLEY YELLOW DWARF VIRUS IN NEW YORK. W F Rochow Piant Dis R 49(8):687-691, TA8S. Aug 1965 1.9 P69P Aphidiae, Sariey, New York, Yeilow dwarf (barley). 2779-67 //9-67 VARIATION IN 8ARLEY YELLOW DWARF OF OATS IN NATURE. W F Rochow H Jediinski 8 F Coon H C Murphy Plant Dis R 49(8):692-695 Aug 1965 1.9 P69P Dats, Yellow dwarf (barley). 2791-67 278D-67 78D-67 NUCELLAR BAIANINHA ORANGE AS TOP IN A ROOTSTOCK-FERTILIZA-TION-SPACING EXPERIMENT. O Rodriguez S Moriera Int Organ Citrus Virol Fr 3RD:3D5-3D8 1963 464.06 INB2 Palanioha susci openass. Planting. Poststock Balaninha sweet oranges, Planting, Rootstock. 2792-67 2781-67 OUTBREAK OF CURLY TOP IN COSTA RICA. Plant Dis R 45(12):98D 15 Dec 1961 1.5 P69P Costa Rica, Curly top (tomatoes). 2782-67 DEVELOPMENTAL MORPHOLOGY OF HYPOXYLON PRUINATUM IN SARK OF QUAKING ASPEN. J D Rogers J G Berbee Phytopatholo 54(2):154-162, BIBL. 162, PL. Feb 1964 464.8 P56 Bark, Hypoxylon pruinatum, Morphology, Populus tremuioides, Populus tremuioides. 2794-67 2783-67 FACTORS AFFECTING THE SPREAD OF HOP DOWNY MILDEW IN AN ARID CLIMATE. R R Romanko Piant Dis R 49(3):247-25D, TABS. 15 Mar 1965 1.9 P69P Climate, Downy mlldew (hops).

784-67 SPORULATION AND COMPATIBILITY TYPES OF PHYTOPHTHORA FALMi-VORA ISOLATED FROM COCOA IN MEXICO. M Romero C. Phytopatholo 54(5):SDD May 1964 464.8 PS6 Concer Mexico. Distochthory polytopathory Cocoa, Mexico, Phytophthora palmivora. 785-67 THE CITRUS 8UDWOOD CERTIFICATION PROGRAM IN THE STATE OF SAO PAULO. V Rosetti A A Salibe A F Cintra S Bonilha D Armbruster Int Organ Citrus Virol Pr 3RD:23S-24D 1963 464-D6 iNB2 Budwood certification program, Cltrus, Sao Paulo. EXPERIMENTS ON HEATING BUDWOOD TO ELIMINATE EXOCORTIS VIRUS. V Rossetti J T Nakadaira C Roessing Int Organ Citrus Virol Pr 3RD:268-271 1963 464.D6 INB2 Budwood, Exocortis (cltrus), Heat treatment, Hot water heating. 2787-67 THE EFFECT OF WEATHER ON DISPERSAL OF ALTERNARIA SPORES IN A SEMI-ARID REGION OF ISRAEL. J Rotem Phytopatholo S4(6):628-632 Jun 196j 464-8 P56 Alternaria, Arid regions, Israel, Spore dispersal, Weather. NUCLEI IN SPORES AND MYCELIUM OF VERTICILLIUM. NUCLEI IN SPUNES AND INCLEIGN G. CONCOLLEN J N Roth W H Brandt Phytopatholo S4(3):363-364, PL. Mar 1964 464.8 PS6 Cell nucleus, Hypha, Mycellium, Spores, Verticillium. 2789-67 DOWNY MILDEW ON SMALL GRAINS AND TWO OTHER GRA55E5 IN MI55IS5IPPI, 1961. P G Rothman D H Bowman Plant Dls R 45(1D):764-765 15 Oct 1961 1.9 P69P Downy mildew (common ryegrass); Downy mlidew (barley), Downy mildew (common ryegrass), Downy mildew (rye), Mlssissippi, Sclerophthora macrospora. 279D-67 CERCOSPORA PLUMERIAE CHUPP- A NEW REPORT FOR THE UNITED STATE5. H L Rubin Plant Dis R 49(8):729 Aug 1965 1.9 P69P Cercospora piumeriae Chupp, Plumeria acutifoila. PIIOS POINSETTIA SCA8-A NEW REPORT FOR PUERTO RICO. H L Rubin Piant Dis R 45(5):37S 15 May 1961 1.9 P69P Euphorbia puicherrima, Puerto Rico, Scab (poinsettia), Sphaceioma poinsettlae. 792-67 SUSCEPTIBILITY OF NATIVE PIPER SPECIES TO THE COLLAR-ROT PATHOGEN OF BLACK PEPPER IN PUERTO RICO. E G Ruppel N Almeydai Plant Dis R 49(6):SSD-SS1 15 Jun 1965 1.9 P69P Coilar rot (Piper nigrum), Pepper (spice), Piper, Puerto Rico. 2793-67 DUTCH ELM DISEASE IN ATLANTA, GEORGIA. P L Rusden Plant Dis R 49(9):8D1 5ep 1965 1.9 P69P Ceratogytis ulmi, Dleback (ulmus), Georgia. 794-67 CITRUS VIRUS DISEASES OF TRINIDAD, JAMAICA, AND &RITISH. honduras. I Hosein Int Organ Citrus VIrol Pr 3RD:228-231 1963 464-06 IN82 &ritish honduras, Citrus, Trinldad, Virus diseases (plants).

8IBL IOGRAPMY

20 2795-67 795-67 APPLARANCE OF ZONAL LEAF SPOT OF COFFEE CAUSED BY CEPMALO-SPORIUM ZONATUM IN COSTA RICA. A Salas E Echandi Phytopatholo S4(5):500 May 1964 464.8 P56 2795-67 Cephaiosporium zonatum, Costa Rica, Zonai ieaf spot (coffee). 2796-67 90-67 VARIOLA - A PROBABLE VIRUS DISEASE OF CITRUS. A A Salibe S Moreira Int Organ Citrus Viroi Pr 3RD:207-209 1963 464.06 INB2 Citrus, Varioia (citrus), Virus diseases (piants). 2797-67 DISTRIBUTION AND MOVEMENT OF EXOCORTIS VIRUS IN CITRUS TREES. A A Saiibe Int Organ Citrus Viroi Pr 3RD:276-279 1963 464.06 IN82 Citrus, Exocortis (citrus). 2798-67 TESTING CITRUS TREES FOR VIRUSES. A A Saiibe C Roessing Int Organ Citrus Viroi Pr 3RD:232-234 1963 464.06 IN82 Citrus, Virus diseases (plants). 2799-67 A DELAYED HARVEST TEST OF FUNGICIDE SPRAYS ON TOMATOES RESISTANT AND SUSCEPTIBLE TO FRUIT CRACKING. R W Samson Plant Dis R 4S(7):S39-S41 IS Jul 1961 1.9 P69P Anthracnose (tomatoes), Early blight (tomatoes), Fungicides, Gray leafspot (tomatoes), Plant disease resistance. 2800-67 000-67 STEM RUST RESISTANCE OF TME UKRAINE OAT AND DERIVATIVES. JF Schafer R M Caldweli L E Compton F L Patterson Piant Dis R 49(S):403-404 IS May 1965 1.9 P69P Oats, Piant disease resistance, Puccinia graminis, Stem rust (oats). 2801-67 TOXIN PRODUCTION AND PATHOGENICITY IN HELMINTHOSPORIUM VIC-TORIAE. R P Scheffer R R Nelson R B Pringie Phytopatholo S4(S):602-603 May 1964 464.8 PS6 Melminthosporium victoriae, Plant diseases, Toxins. 2802-67 THREE UNCOMMON WATERMELON FRUIT ROTS IN FLORIDA. N C Schenck Piant Dis R 45(11):841-843 IS Nov 1961 1.9 P69P Cylindrociadium scoparium, Fiorida, Macrophomina, Peliicularia rolfsil, Rot (watermeion), Watermeions. 2803-67 FUSARIAL HEAD BLIGMT , SERIOUS DISEASE OF WHEAT IN GUATE-MALA. Schieber A Fumagalil Plant Dis R 44(3):220 15 Mar 1960 1.9 P69P Fusarium, Head blight (wheat), Scab (wheat), Wheat. 2B04-67 SEPTORIA LEAF BLOTCH, IMPORTANT DISEASE OF WHEAT IN GUATE-MALA. MALA. E Schieber A Fumagaiii Piant Dis R 45(10):788 IS Oct 1961 I.9 P69P Guatemaia, Leaf biotch (wheat), Septoria tritici, Triticum vulgare, Wheat. 2805-67 A FUNGAL COMPLEX ASSOCIATED WITH THE SUDDEN WILT SYNDROME IN CALIFORNIA COTTON. W C Schnathorst W C Schnathorst Plant Dis R 48(2):90-92 IS Feb 1964 1.9 P69P California, Cotton, Thieaviopsis basicoia, Verticilium albo-atrum, Wilt (cotton).

2B06-67 RELATION OF MICROCLIMATES TO THE DEVELOPEMENT OF POWDERY MILDEW OF LETTUCE. W C Schnathorst Phytopathoio S0(6):450-454, BIBL. 453-454, TABS. Jun 1960 464.8 PS6 Lettuce, Microciimate, Powdery mildew (lettuce). 2807-67 907-67 PATHOGENICITY AND GROWTH RATES OF PMYTOPMTHORA DRECMSLERI ISOLATES FROM SAFFLOWER AND SUGARBEET. C L Schneider D E Zimmer Plant Dis R 49(4):233-296 15 Apr 1965 1.9 P69P Pathogenicity, Phytophthora drechsleri, Safflower, Sugar beets. 2808-67 DIFFERENCE IN THE TRANSLOCATABILITY OF TOBACCO RINGSPOT AND SOUTMERN BEAN MOSAIC VIRUSES IN BEAN. I R Schneider Phytopatholo 54(6):701-705, TABS. Jun 1964 464.8 P56 Plant translocation, Ring spot (tobacco), Southern mosaic (beans) 2809-67 FUSICOCCUM CANKER OF MOUNTAIN ASM IN ILLINOIS. D F Schoeneweiss Plant Dis R 49(3):251-252 IS Mar 1965 1.9 P69p Canker (sorbus aucuparia), Fusicoccum, Iiiinois, Sorbus aucuparia. 2810-67 910-67 VERTICILLIUM WILT OF SAUCER MAGNOLIA, MAGNOLIA SOULANGEANA. L R Schreiber C Fordyce Jr. R J Green Jr. Plant Dis R 45(2):106 15 Feb 1961 1.9 P69P IS reo 1961 1.5 rosr Magnolia soulangeana, Saucer magnolia, Verticillium albo-atrum, Wilt (saucer magnolia). 2B11-67 RHIZOCTONIA FRUIT ROT OF PROCESSING TOMATOES. W T Schroeder R Provvidenti Piant Dis R 45(3):160-163 18 Mar 1961 1.9 P69P Food processing, Rhizoctonia, Rot (tomatoes), Tomatoes. 2812-67 SEED EXUDATION AND ITS INFLUENCE ON PRE-EMERGENCE DAMPING-OFF OF BEAN. M N Schroth R J Cook Phytopatholo S4(6):670-673 Jun 1964 464.8 PS6 Beans, Damping-off (beans), Seeds. 2B13-67 CORYNESPORA CASSIICOLA ON SOY8EAN IN ONTARIO. W L Seaman R A Shoemaker Plant Dis R 48(1):69 15 Jan 1964 1.9 P69P Corynespora cassilcola, Ontario, Soybeans. 2B14-67 THE PROBABLE COIDENTITY OF THE MORIA DISEASE OF PEAR TREES IN ITALY AND PEAR DECLINE IN NORTH AMERICA. T A Shaila L Chiarappa E C Biodgett E Refatti E Baldacci Piant Dis R 4S(12):912-91S 15 Dec 1961 1.9 P69P Decline (pears), Italy, Moria (pears), North America, Pears. 2B15-67 INMERITANCE AND LINKAGE OF STEM RUST AND LOOSE SMUT RESIS-TANCES AND STARCH TYPE IN BARLEY. R G Shands Phytopathoio S4(3):308-316, BIBL., 316, TA8S. Mar 1964 464.8 PS6 Sariey, Loose smut (barley), Starches, Stem rust (barley). 2816-67 EFFECT OF PCN8 ON ISOLATES OF RMIZOCTONIA SOLANI UNDER FIELD CONDITIONS. M N Shatia J 8 Sinclair Phytopatholo 54(6):626 Jun 1964 464.8 PS6 Land, Pentachioronitrobenzene, Rhizoctonia solani.

PAGE 3B

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2817-67 2828-67 EFFECT OF PENTACHLORONITROBENZENE ON RHIZOCTONIA SOLANI UNDER FIELD CONDITIONS. M N Shatia J B Sinclair Piant Dis R 49(1):21-23 IS Jan 1965 1.9 P69P Pentachloronitrobenzene, Rhizoctonia solani. 2818-67 RHIZOCTONIA SOLANI: PHYSIOLOGIC SPECIALIZATION AMONG ISO-LATES FROM COTTON. M N Shatia J B Sinclair Plant Dis R 49(8):711-714 Aug 1965 1.9 P69P Cotton, Piant disease resistance, Rhizoctonia solani. 2830-67 2819-67 SEED TRANSMISSION OF THE JOHNSON GRASS STRAIN OF THE SUGAR-CANE MOSAIC VIRUS IN CORN. CANE MOSAIC VIRUS IN CORN. R J Shepherd Q L Holdeman Piant Dis R 49(6):468-469 15 Jun 1965 1.9 P69P Corn, Mosaic (sugarcane), Piant disease transmission, Seed-borne piant diseases, Sorghum haiepense. 2820-67 PROPERTIES OF A MOSAIC VIRUS OF COWPEA AND ITS RELATIONSHIP TO THE BEAN POD MOTTLE VIRUS. R J Shepherd Phytopatholo S4(4):466-473, 818L. 473, PL. Apr 1964 464.8 PS6 Bean pod mottle, Cowpeas, Mosaic (cowpeas), Seed-borne piant diseases. CALIFORNIA. 2821-67 EFFECT OF STRAINS OF THE BEET MOSAIC VIRUS ON THE YIELD OF SUGARBEETS. R J Shepherd B B Till Plant Dis R 49(12):961-963 Dec 1965 1.9 P69P 2833-67 Crop yields, Mosaic (sugar beets), Sugar beets. CALIFORNIA. 2822-67 ORGANISM INTERACTIONS IN THE BEACH BARK DISEASE. A L Shigo Phytopathoio \$4(3):263-269, 8IBL. 268-269, PL. Mar 1964 464.8 PS6 Beach bark disease, Fungus diseases (piants), Nectria. 2834-67 2823-67 INFLUENCE OF VARIETY AND PRUNING ON NON-INFECTIOUS LEAF ROLL CALIFORNIA. DF TOMATO. M C Shurtleff J W Courter Plant Dis R 48(1):18-20, TA8S. IS Jan 1964 1.9 F69P Leaf roll (tomato), Tomatoes. R E Smith 2835-67 2824-67 324-67 1964 SMAP 8EAN DISEASE SURVEY IN THE PACIFIC NORTHWEST. M J Silbernagel Plant Dis R 49(7):637 Jul 1965 1.9 P69P Beans, Epidemioiogy, Pacific Northwest, Plant diseases. CALIFORNIA. 2825-67 ARMILLARIA MELLEA ROOT ROT IN A NORTHERN WHITE PINE PLANTA-TION. S B Silverborg R L Gilbertson IFORNIA. R E Smith S b Silverorg A L Gilerison Plant Dis R 45(5):389 IS May 1961 1.9 P69P Armiilaria melica, Northern white pine, Pinus strobus, Root rot (pinus). 2837-67 2826-67 PHYSIOLOGIC RACES OF CROWN RUST OF OATS IDENTIFIED IN 1960. M D Simons L J Michei Piant Dis R 4S(12):974-97S 1S Dec 1961 1.9 P69P Crown rust (oats), Dats. 2827-67 EFFECTS OF EXOCORTIS DISEASE ON FOUR CITRUS ROOTSTOCKS. LifeCia ur EAdountis Disease on ruon of JB Sinclair R T drown Plant Dis R 44(3):180-183 18 Mar 1960 1.9 P69P Citrus, Exocortis (citrus), Rootstocks.

SPOTTED LEAF ROT OF PLANTS- A NEW SCLEROTIAL DISEASE. D P Singh M S Paysi Plant Dis R 49(1):58-59 18 Jan 1965 1.9 P69P Sclerotium rolfsii Saccardo, Spotted leaf rot. 2829-67 PHLEOMYCIN, AN ANTIBIOTIC MARKEDLY EFFECTIVE FOR CONTROL OF PHELDATCIN, AN ANIBIDIC MARKEDLY EFFECTIVE FOR CUNINUL D BEAN RUST. B C Smale M D Montgiliion T G Pridham Plant Dis R 4S(4):244-247 15 Apr 1961 1.9 F69P Antibiotics, Phieomycin, Rust (beans), Uromyces phaseoli. 330-67 RHIZOPUS ROT OF PEACHES AS AFFECTED BY POSTHARVEST TEMPERA-TURE AND MOISTURE. W L Smith Jr T McClure Phytopatholo S0(7):S58-562, BI8L. S61-562, TA8S. Jui 1960 464.8 P56 Peaches, Plant temperature, Rhizopus stolinifer (Fr.), Rot (peaches), Soil moisture. 2831-67 WHEAT RUST DURING THE SPANISH ERA IN CALIFORNIA. R E Smith J N Bowman Plant Dis R 4S(8):632-633 15 Aug 1961 1.9 P69P California, History, Rust (wheat). 2832-67 GRAPE MILDEW AS VIEWED IN THE EARLY AGRICULTURAL PRESS OF R E Smith Piant Dis R 4S(9):700-703 15 Sep 1961 1.9 P69P California, History, Powdery mildew (grapes). PEACH LEAF CURL AS VIEWED IN THE EARLY AGRICULTURAL PRESS OF R E Smith Plant Dis R 45(9:702-705 15 Sep 1961 1.9 P69P Ascomyces deformans, California, History, Leaf curl (peaches), Peaches. POTATO BLIGHT AS VIEWED IN THE EARLY AGRICULTURAL PRESS OF Piant Dis R 45(9):705-709 15 Sep 1961 1.9 P69P California, History, Late blight (potatoes), Potatoes. WHEAT RUST AS VIEWED IN THE EARLY AGRICULTURAL PRESS OF R E Smith Plant Dis R 45(9):709-712 15 Sep 1961 1.9 P69P California, History, Rust (wheat), Wheat. 2836-67 WHEAT SMUT AS VIEWED IN THE EARLY AGRICULTURAL PRESS OF CAL-Plant Dis R 4S(9):712-716 1S Sep 1961 1.9 P69P California, History, Stinking smut (wheat), Wheat. OBSERVATIONS ON COTTON RUST (PUCCINIA STAKMANII) UNDER SEVERE DISEASE CONDITIONS. T E Smith Piant Dis R 44(2):77-79 1S Feb 1960 1.9 P69P Puccinia stakmanii, Rainfall, Rust (cotton). 2838-67 CULTURAL TYPE OF VERTICILLIUM AL80-ATRUM IN NEW MEXICO. T E Smith Piant Dis R 4S(7):548 Plant Dis & 45(7),540 18 Jul 1961 1.9 P69P New Mexico, Plant hosts, Verticiliium aibo-atrum.

818LIOGRAPHY

20 2839-67 2839-67 OCCURRENCE OF VERTICILLIUM WILT ON RUSSIAN WILT. T E Smlth Piant Dis R 44(1):72 15 Jan 1960 1.9 P69P Dilves, Verticliiium, Wilt (oiives). 2840-67 REACTION OF ALFALFA TO VERTICILLIUM ALSO-ATRUM. T E Smlth Piant Dis R 45(7):549 15 Jui 1961 1.9 P69P Alfalfa, Plant disease resistance, Verticiilium albo-atrum. 2841-67 PROMISING DECAY INHIBITORS FOR POSTHARVEST USE ON FLORIDA DRANGES. J J Smoot Plant Dis R 44(6):383-386 15 Jun 1960 1.9 P69P Citrus, Fungicides, Oranges, Plant disease control. 2842-67 OAK LEAF AGE AND SUSCEPTIBILITY TO CRONARTIUM FUSIFORME. G A Snow R W Roncadori Piant Dis R 49(12):972-975 Dec 1965 1.9 P69P Cronartium fusiforme, Leaves, Piant disease resistance, Plant senescence, Quercus nigra. 2843-67 ALTERNARIA LEAFSPOT OF PITTOSPORUM. E K Sobers Phytopatholo 54(4):478-480, PL. Apr 1964 464.8 P56 Alternaria, Leaf spot (plttosporum), Pittosporum. 2844-67 THE USE OF FUNGICIDES IN THE CONTROL OF CERCOSPORA COFFEI-COLA ON COFFEE. C A Soto Phytopathoio 54(5):501 May 1964 464.8 P56 Cercospora coffeicoia, Coffee, Fungicldes. 2845-67 CONTROLLING MILDEW ON APPLES AT WENATCHEE, WASHINGTON IN 1960. R Sprague Plant Dls R 45(2):106-107 15 Feb 1961 I.9 P69P Appies, Fungleides, Miidew (apples), Washington. 2846-67 STEWART STRAIN OF BARTLETT PEAR SHOWS FIRE BLIGHT RESISTANCE. R Sprague A Van Doren P Figaro Plant Dls R 45(9):730 15 Sep 196I I.9 P69P Sartiett pears, Erwinia amylouora, Fire blight (pears), Plant disease resistance. 2847-67 LEPTOSPHAERIA HERPOTRICHOIDES ON RYE IN CLARK COUNTY. WASHINGTON. R Sprague G W Bruchl Plant Dis R 45(10):803 I5 Oct 1961 1.9 P69P Leptosphaeria herpotricholdes, Rye, Stem rot (rye), Washington. 2848-67 FIELD AND HOST STUDIES OF PARASITISM BY HELMINTHOSPORIUM HUSI STOLES OF A SOROKINIANUM. H W Spurr Jr R L Klesling Plant Dls R 45(12):941-943 15 Dec 1961 I.9 P69P Sarley, Seans, Helminthosporium sorokinlanum, Parasitism, Tomatoes. 2849-67 DISTINGUISHING TISSUE OF NORMAL AND PATHOLOGICAL ORIGIN ON COMPLEX MEDIA. COMPLEX MEDIA. H W Spurr Jr G E Holcomb A C Hiidebrandt A J Riker Phytopatholo 54(3):339-343, 818L. 343, TA8S. Mar 1964 464.8 P56 Crown gail tumors, Oxidases, Stem tumors, Tlssue analysis, Tlsaue culture, Tomatoes.

2850-67 SCLERODERRIS CANKER OF SUBALPINE FIR IN COLORADO. J M Staley Piant Dis R 49(10):882 Oct 1965 1.9 P69P Abies lasiocarpa, Canker (Abies laslocarpa), Coiorado. 2851-67 551-67 DEVELOPMENT OF FUSARIUM WILT ON RESISTANT VARIETIES OF TO-MATO CAUSED BY A STRAIN DIFFERENT FROM RACE I ISOLATES OF FUSARIUH OXYSPORUM F. LYCOPERSICI. R E Staii Plant Dis R 45(1):12-15 15 Jan 1961 1.9 P69P Fusarlum oxysporum f. lycopersici, Piant disease resistance, Wilt (tomatoes). 2852-67 552-67 AN EXTRACT PRODUCED BY HELMINTHOSPORIUM SOROKINIANUM TOXIC TO PUCCINIA GRAMINIS VAR. TRITICI. D M Stewart J H Hiil Piant Dis R 49(4):284-283 15 Apr 1965 I.9 P69P Extracts, Heiminthosporium sorokinianum, Puccinia graminis var. tritici. 2853-67 FOMES ANNOSUS FOUND IN NEBRASKA. J L Stewart Plant Dis R 49(5):456 15 May 1965 I.9 P69P Fomes annosus, Nebraska, Pinus. 2854-67 SOME CORN (MAIZE) VIRUS DISEASES IN THE UNITED STATES IN 1964. W N Stoner w N Stoner Piant Dis R 49(11):918-922, 8IBL, 922 Nov 1965 1.9 P69P Corn, United States, Virus diseases (plants). 2855-67 AN EVALUATION OF THE CUCURBITA FOR SCAB RESISTANCE. AN EVALUATION OF THE COCUMBITA FOR SCAB RESISTANCE. D L Strider T R Konsier Plant Dis R 49(5):388-391 15 May 1965 1.9 P69P Cucurbita maxima, Cushaw, Plant disease resistance, Pumpkins, Scab (cucurbita). 2856-67 TIME OF INFECTION AND LATENCY OF DIPLODIA VITICOLA IN VI-TIS VINIFERA VAR. THOMPSON SEEDLESS. G A Strobei W 8 Hewitt Phytopatholo 54(6):636-639 Jun 1964 464.8 P56 Dipiodia viticola, Vitis vinifera var. Thompson Seediess. 2857-67 METABOLISM OF ORGANIC ACIDS DURING ROT OF GRAPE BERRIES BY DIPLODIA VITICOLA. G A Strobel T Kosuge Phytopatholo 54(2):242-243 Feb 1964 464.8 P56 Acids, Diplodia viticola, Grapes, Metabolites, Organic compounds, Rot (grapes). 2858-67 FOMES ANNOSUS IN SOUTHWESTERN MICHIGAN. F C Strong W A Lemmien Plant Dls R 48(2):110 15 Feb 1964 I.9 P69P Fomes annosus, Michigan, Pinus. 2859-67 RHIZOCTONIA STEM CANKER OF TOMATOES. M C Strong Plant Dls R 45(5):392 15 May 1961 1.9 P69P Rhizoctonla solani Kuehn, Stem canker (tomatoes), Tomatoes. 2860-67 LEAF DROP OF TAXUS. LEAF DRUF UF INAUS. I H Stuckey Plant Dis R 45(7):527-529 15 Jul 196I I.9 P69P Alternaria, Leaf drop (taxus), Taxus.

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2872-67 2861-67 961-67 FUNGI ASSOCIATED WITH DEFOLIATION OF TAXUS CUTTINGS. I H Stuckey G J Stessei Piant Dis R 44(2):133 15 Feb 1960 1.9 P69P Defoliation, Fungl, Piant cuttings, Taxus. BACTERIAL CANKER AND SPOTTED WILT OF TOMATO IN THE WEST-CEN-TRAL GREAT PLAINS. B D Thyr B J Inyr
 Piant Dis R 49(5):386-387
 15 May 1965 1.9 P69P
 Bacterial canker (tomatoes), Great Plains,
 Spotted wilt (tomatoes), Tomatoes. 2862-67 A LEAF-CRINKLING BACTERIUM OF SOYBEANS. H Tachibana M Shih Plant Dis R 49(5):396-397 15 May 1965 1.9 P69P Bacterial diseases (plants), Crinkle ieaf (soybeans), 2873-67 OVERWINTERING OF WHEAT STRIATE MOSAIC VIRUS IN NORTH DAKO-TA. R G Timian Soybeans. Plant Dis R 49(6):556 15 Jun 1965 1.9 P69P Hibernation, North Dakota, Striate mosalc (wheat), Wheat. 2863-67 363-67 EFFECT OF 50ME PLANT GROWTH-RETARDING COMPOUNDS ON THREE FUNGAL DISEASES AND ONE VIRAL DISEASE. A 5 Tahori G Zeidier A H Halevy Plant Dis R 49(9):775-777, TABS. 5ep 1965 1.9 P69P Fungus diseases (plants), Mosalc (tobacco), Plant growth inhibitors, Powdery mildew, Southern stem rot, Stem rust (wheat), Virus diseases (plants). 2874-67 HEAT TREATMENTS FAIL TO INACTIVATE BARLEY STRIPE MOSAIC VI-RUS IN SEED. R G Timian Piant Dis R 49(8):696-697 Aug 1965 1.9 P69P Heat treatment, Stripe mosalc (bariey). 2864-67 2B75-67 364-67 A CARNATION DISEASE RESEMBLING BACTERIAL 5LOW WILT OR 5TUNT. J Tammen P E Nelson R 5 Dickey Phytopathoio 54(5):610-611 May 1964 464.8 P56 Bacterial wiit (dianthus caryophyilus), Dlanthus caryophylius. VECTOR-VIRUS RELATIONSHIPS OF WATERMELON MOSAIC VIRUS AND THE GREEN PEACH APHID, MYZUS PERSICAE. H H Toba J Econ Entom 56(2):200-205 Apr 1963 421 J822 Insect vectors, Mosaic (watermelons), Myzus persicae, Watermelons. 2865-67 365-67 CONTROL OF PYTHIUM ROOT DISEASE5 WITH SOIL FUNGICIDES. J Tammen D P Muse J H Haas Plant D1s R 45(11):B5B-863, BIBL. B62-B63, TABS. 15 Nov 1961 1.9 P69P Captan, Ferbam, Fungus diseases (plants), Pythium spinosum, 2876-67 JO6-67 LONG TERM STORAGE OF THE SUGARCANE MOSAIC VIRUS. E H Todd Plant Dis R 45(3):17B-179 15 Mar 1961 1.9 P69P Immunization, Mosalc (sugarcane), Storage, Virus diseases (plants). Soil fumigation, Thiram, Zineb. 2866-67 RESEARCHES ON THE INDICATOR PLANTS OF 5ATSUMA DWARF AND HA55AKU DWARF VIRUSES. 2B77-67 CHOANEPHORA POD ROT OF COWPEAS. S Tanaka K Kishl S Yamada Int Organ Citrus Virol Pr 3RD:260-267 R W Toler P D Dukes Plant Dis R 49(4):347-350 15 Apr 1965 1.9 P69P 1963 464.06 IN82 Hassaku dwarf, Indicator plants, Satsuma dwarf. Choanephora cucurbitarum, Cowpeas, Pod rot (cowpeas). 2867-67 2B7B-67 EFFECT OF PHYTOACTIN ON THE FUSIFORM RUST FUNGUS, CRONAR-PROPERTIES AND TRANSMISSION OF SOIL-BORNE OAT MOSAIC VIRUS. TIUM FUSIFORME. W K Taylor J S 80yce Jr Plant Dis R 49(B):698-701, TA85. Aug 1965 1.9 P69P PROPERIES AND IRANSHISSION OF SUIL-BURNE OAT HU. Phytopatholo 54(4):428-433 Apr 1964 464.8 P56 Mosalc (cots), Dats, Plant disease transmission, Soll-borne plant diseases. Cronartium fusiforme, Fusiform rust (pinus), Phytoactin. 2868-67 2879-67 879-67 TRANSMISSION OF 50IL-80RNE OAT MO5AIC VIRUS INCREA5ED 8Y ARTIST 5 AIRBRU5H INOCULATION. R W Toler T T Hebert Plant Dis R 49(6):553-555 15 Jun 1965 1.9 P69P Immunization, Mosaic (oats), Plant disease transmission, 50Il-borne plant disease. DOWNY MILDEW OF RICE IN ARKANSAS. G E Templeton T H Johnston 5 E Henry Plant Dis R 45(2):95 15 Feb 1961 1.9 P69P Arkansas, Downy mildew (rice), Rice. 2869-67 CONTROL OF CELERY EARLY BLIGHT AND BACTERIAL BLIGHT IN THE EVERGLADES WITH DYRENE COMBINATIONS. 2880-67 PL Theyer Plant Dis R 44(3):167-169 15 Mar 1960 1.9 P69P Bacteriai blight (celery), Bacteriai diseases (plants), Celery, Dyrene, Early blight (celery). DECAY 10 YEARS AFTER THINNING OF SWEETGUM SPROUT CLUMPS. DECAY 10 TEAKS AFTER HEINFING OF Swellight States County E R Toole Piont Dis R 49(12):986 Dec 1965 1.9 P69P Liquidambar styracifius, Plant decay, Thinning (trees), Wood decay. 2B70-67 TU-67 THERMOTHERAPY FOR ROOT-KNOT NEMATODES, MELOIDOGYNE 5PP., OF SWEETPOTATO AND TARRAGON PROPAGATING STOCKS. I J Thomason 5 D Van Gundy H E McKinney Plant Dis R 44(5):354-358 15 May 1960 1.9 P69P 2881-67 NEW SYCAMORE CANKER. E R Toole Plant Dis R 45(1):78 15 Jan 1961 1.9 P69P Artemisla dracunculus, Meloidogyne spp., Nematodes, Sweetpotatoes, Thermotherapy. Canker stain (platanus), Platanus, Platanus occidentalis. 2BB2-67 STATUS OF PERSIMMON WILT, 1959. 2B71-67 A SAP-TRANSMISSABLE VIRUS ASSOCIATED WITH A NEW DISEASE OF E R Toole P C Lightie Plant Dis R 44(1):45 15 Jan 1960 1.9 P69P A SAP-TRANSMISSABLE VIRUS ASSOCIATED WITH A NEW . CORN IN SOUTHERN ILLINOIS. H H Thornberry M R Phillipe Plant Dis R 49(3):210-212 15 Mar 1965 1.9 P69P Corn, Illinois, Plant disease transmission, Sap, Virus diseases (plants). Persimmons, Vascular wilt, Wilt (persimmon).

2894-67

20 2883-67 2883-67 D30→07 THE RELATION OF PLANT FERTILITY TO 8ACTERIAL SPOT OF PEPPER. ₩ W Townsley D F Crossan Plant Dis R 4S(11):B74-876 1S Nov 1961 i.9 P69P Bacterial spot (redpeppers), Fertllity, Xanthomonas vesicatoria. 2884-67 THE EXTRACTION OF VIRUSES FROM FRUIT TREE PETALS. JH Tremeine W Alien R S Willison Plant Dis R 4B(2):82-85 IS Feb 1964 1.9 P69P Fruit, Fruit culture, Plant extracts, Viruses. 2885-67 POWDERY MILDEW OF POTATO IN UTAH. M Treshow O S Cannon Piant Dis R 4S(S):3S4-3SS 1S May 1961 1.9 P69P Potatoes, Powdery mildew (potatoes), Utah. 2886-67 ISOLATION AND IN VITRO CULTURE OF THE WHEAT BUNT FUNGI TIL-LETIA CARIES AND T. CONTROVERSA. E J Trione Phytopatholo S4(S):S92-S96 May 1964 464.8 PS6 Culture, Fungi, In vitro, Stinking smut (wheat), Tilletia carles, Tilletia controversa. 2887-67 EXTRACELLULAR ENZYME AND TOXIN PRODUCTION BY FUSARIUM OXY-SPORUM F. LINI. E J Trione Phytopatholo SO(7):480-482, BIBL. 481-482 Jul 1960 464.8 PS6 Enzymes, Flax, Fungus diseases (plants), Fusarium oxyaporum f. lini, Toxins, Wilt (flax). 2888-67 THE HCN CONTENT OF FLAX IN RELATION TO FLAX WILT RESIS-TANCE. E J Trione Phytopatholo S0(7):482-486, BIBL, 486, TA8S. Jul 1960 464.B PS6 Fiax, Fungus diseases (plants), Fusarium oxysporum f. lini, Hydrocyanic acld, Wiit (flax). 2889-67 389-67 ELECTROTAXIS OF PHYTOPHTHORA PARASITICA 200SPORES AND ITS POSSIBLE ROLE IN INFECTION OF TOBACCO BY THE FUNGUS. J L Troutman W H Wills Phytopatholo S4(2):225-22B, PL. Feb 1964 464.B PS6 Electrotaxis, Phytophthora parasitica, Tobacco, Zoospores. 2890-67 COMPARATIVE STUDY OF QUANTITATIVE METHODS USED FOR ESTIMAT-ING THE POPULATION OF THIELAVIOPSIS BASICOLA IN SOIL. P H Tsao A C Canetta Phytopatholo S4(6):633-63S Jun 1964 464.B PS6 Fungus population, Soil fungi, Thielaviopsis basicoia. 2891-67 EFFECT OF CERTAIN FUNGAL ISOLATION AGAR MEDIA ON THIELAVIOPSIS BASICOLA AND ON ITS RECOVERY IN SOIL DILU-TION PLATES. P H Tsao P H isao Phytopatholo SS(S):S48-SS5, BIBL. SS4-SSS, TABS. May 1964 464.B PS6 Agar, Cuiture media, Fungi, Soll dilution plates, Thiciaviopsis basicola. 2892-67 VIRUS DISEASES IN SALTO (URUGUAY). J C Tucci R D Quinteia R P Mousques Int Organ Citrus Virol Pr 3RD:220-222 1963 464.06 INB2 Uruguay, Virus diseases (plants). 2893-67 FUNGI ISOLATED FROM UNSTORED CORN SEED IN INDIANA IN 1986-1958. J Tulte Plant Dis R 4S(3):212-21S 1S Mar 1961 1.9 P69P Corn, Fungl, Indiana, Seeds.

ABLE RESISTANCE TO PHILIPHINURA FUE AUT. P D Turner Plant Dis R 49(4):319-321 IS Apr 1965 1.9 P69P Cacao, Phenolases, Phytophthora paimivora, Plant disease resistance, Pod rot. 2895-67 A WORLD SURVEY OF PHYTOPHTHORA PALMIVORA ON COCOA. P D Turner Plant Dis R 44(3):221 15 Mar 1960 1.9 P69P Black pod (cacao), Cocoa, Phytophthora paimlvora. 2896-67 BEHAVIOR OF PHYTOPHTHORA PALMIVORA IN SOIL. D Turner P D lurner Plant Dis R 49(2):135-137 15 Feb 1965 1.9 P69P Phytophthora palmivora, Soil-borne plant diseases. 2897-62 FAILURE OF LOOSE SMUT TO BUILD UP IN WINTER WHEATS EXPUSED TO ABUNDANT INOCULUM NATURALLY DISSEMINATED. L J Tyler Plant Dis R 49(3):239-241 15 Mar 1965 1.9 P69P Fungi dissemination, Immunization, Loose smut (wheat), Ustilago tritici, Wheat. 2898-67 FUNGI OF BARLEY SEED AND THEIR ASSOCIATIVE EFFECTS. L E Tyner B A McKinnon Phytopatholo S4(S):S06-S0B May 1964 464.B PS6 Bariey, Fungi, Seeds. 2899-67 HOST RANGE AND TESTING OF LOTUS SPECIES FOR DISEASE RESIS-TANCE TO PHOMOPSIS BLIGHT OF BIRDSFOOT TREFOIL. J Upadhyay Plant Dis R 49(B):724-72B, TABS. Aug 196S 1.9 P69P Aug 1965 1.9 POSP Birdsfoot trefoii, Blight (Lotus), Host indexing (plants), Phomopsis loti, Plant hosts, Trefoil. 2900-67 CONTROL OF CONIFER DAMPING-OFF IN SOUTH AUSTRALIA. O Vaartaja M Bumbieris Plant Dis R 49(6):S04-S06 18 Jun 1965 1.9 P69P Australia, Damping-off (Pinus radiata), Pinus radiata, Seed treatment. 2901-67 SOME SOIL FACTORS INFLUENCING REPRODUCTION OF THE CITRUS NEMATODE AND GROWTH REDUCTION OF SWEET GRANGE SEEDLINGS. S D Van Gundy J P Martin P H Tsao Phytopatholo S4(3):294-299, 818L. 298-299 Mar 1964 464-B PS6 Citrus nematode, Nematodes, Dranges, Seedlings, Solis, Tylenchus semipenetrans Cobb. 2902-67 902-67 FIELD RESISTANCE OF 29 ADDITIONAL STRAWBERRY VARIETIES AND SELECTIONS TO VERTICILLIUM, 1959. E H Varney J N Moore D H Scott Plant Dis R 44(S):370-371 1S May 1960 1.9 P69P Plant disease resistance, Strawberries, Verticillium, Wilt (strawberries). 2903-67 CHROMATOGRAPHIC PURIFICATION OF THE CARNATION RINGSPOT, CAR-NATION MOTTLE, AND TOBACCO NECROSIS VIRUSES. J H Venekapp W H M Mosch K E Erkelens-Nanninga Phytopatholo S4(S):600-609 May 1964 464.8 PS6 Chromatography, Mottle (carnations), Necrosis (tobacco), Ring spot (carnations). 2904-67 CROWN GALL DISEASE IN ISRAEL. Z Volcani Plant Dis R 45(10):B23 15 Oct 1961 1.9 P69P Apricots, Crown galls (fruit), Israel, Prunus amygdalus, Sunflowers, Tomatoea.

POLYPHENOLOXIDASE ACTIVITY IN CACAD SELECTIONS SHOWING VARI-ABLE RESISTANCE TO PHYTOPHTHORA POD ROT.

BIBL10GRAPHY

20 2927-67

2905-67 2916-67 905-67 A STAINING-FUNGUS ROOT DISEASE OF PONDEROSA, JEFFEREY, AND PINYON PIMES. W W Wagener J L Mielke Plant Dis R 45(11):B31-B35 15 Nov 1961 1.9 P69P Butt rot (trees), Pinus cembroides monophylla, Pinus jeffreyl, Pinus ponderosa, Verticiciadielia, Wood destroying fungl. TRANSMISSION OF CITRUS VIRUSES BY DODDER, CUSCATA SUBIN-CLUSA. 2906-67 THE OCCURRENCE OF APRICOT RING POX VIRUS IN PLUM IN CAL-IFORNIA. IFORNIA. H K Wagnon J R Breece J A Trayior H E Williams Plant Dls R 45(10):796-797 15 Oct 1961 1.9 P69P California, Plums, Ring pox (apricots), Ring pox (plums). 2907-67 CHEMICAL CONTROL OF WEATHER FLECK IN FLUE-CURED TOBACCO. E K Waiker Plant Dis R 45(B):5B3-5B6 15 Aug 1961 1.9 P69P Dichlone, Flue-cured tobacco, Fungicides, Weather fleck (tobacco). 290B-67 CABBAGE VARIETIES IN RELATION TO TIPBURN. J C Walker L V Edgington M V Nayudu Plant Dis R 45(1):29 15 Jan 1961 1.9 P69P Cabbage, Caicium, Tipburn (cabbage). 2909-67 THE INHERITANCE OF POWDERY MILDEW RESISTANCE IN CABBAGE. THE INHERITANCE OF POWDERY MILDEW RESISTANCE IN CA J C Walker P H Wiillams Piant Dis R 49(3):19B-201 15 Mar 1965 1.9 P69P Cabbage, Plant disease resistance, Piant genetics, Powdery mildew (cabbage). 2910-67 A HIGH INCIDENCE OF DIAPORTHE PHASEOLORUM OCCURRING IN THE SEED OF SOYBEANS FROM SOUTHWESTERN ONTARIO. V R Wallen Plant Dis R 44(7):596 15 Jul 1960 1.9 P69P Diaporthe phaseolorum, Ontario, Seeds, Soybeans. 2911-67 WEATHER MAP ANALYSIS - AN AID IN FORECASTING POTATO LATE BLIGHT. DIGHT, J A Riley Jr J R Wallin J A Riley Jr Plant Dls R 44(4):227-234 15 Apr 1960 1.9 P69P Late bllght (potatoes), Maps, Potatoes, Weather, Weather forecasting. 2912-67 TRANSMISSION OF BEAN POD MOTTLE VIRUS BY BEAN LEAF BEETLES. H J Walters Phytopatholo 54(2):240 Feb 1964 464.B P56 Bean pods, Cerotoma trifurcata, Cerotoma trifurcata, Mottle (bean pods), Plant disease transmission. 2913-67 CYCLOHEXIMIDE FOR HAWTHORN LEAF SPOT. G S Walton L V Edgington Phytopatholo 54(2):129 Feb 1964 464.B P56 Cycloheximide, Leaf spot (hawthorn), Plant disease control, Spraying, Tree diseases. 2914-67 SUGARCANE RUST IN TANGANYIKA. D R W Watson Plant Dis R 49(9):764 Sep 1965 1.9 P69P Puccinia erlanthi, Rust (sugarcane), Sugarcane, Tanganyika. 2915-67 PRODUCTION OF STERILE ONION BULBS AND ROOTS FOR THE PATHO-GENICITY OF FUNGUS ISOLATES. R D Watson J W Paden Plant Dis R 45(3):176-177 15 Mar 1961 1.9 P69P Fungus Isolates, Onions, Sterlilzation.

CLUSA. L G Weathers M K Harjung Piant Dis R 4B(2):102–103 15 Feb 1964 i.9 P69P Cuscuta subinciusa, Psorosis (oranges), Tristeza (citrus), Veln enation (citrus). 2917-67 917-67 A VIRUS LATENT IN SOME CUCURBITS. R E Webb G W Bohn Piant Dis R 45(9):677-679 I 5 Sep 1961 1-9 P69P Latent virus (cucurbits). 291B-67 918-67 WATERMELON MOSAIC VIRUSES 1 AND 2 IN SOUTHERN AND WESTERN CUCURBIT PRODUCTION AREAS. R E Webb G W Bohn H A Scott Piant Dis R 49(6):532-535 15 Jun 1965 1.9 P69P Cucurbitaceae, Mosaic (watermelons). 2919-67 SOURCES OF RESISTANCE TO THE COWPEA YELLOW MOSAIC VIRUS. D G Wells R Deba D G Wells R Deba Plant Dis R 45(11):876-881, TABS-15 Nov 1961 1.9 P69P Cowpeas, Plant disease resistance, Vigna unguiculata, Yellow mosalc (cowpea). 2920-67 920-67 CUCUMBER MOSAIC VIRUS IS SEEDBORNE IN BLUE LUPINES. H D Wells M K Corbett I Forbes Jr Phytopatholo 54(6):627 Jun 1964 464.B P56 Lupine, Seed-borne plant diseases. 2921-67 SED-BORNE FUNGI IN GEORGIA-GROWN AND WESTERN-GROWN PEARL MILLET SEED ON SALE IN GEORGIA DURING 1960. H D Wells E E Winstead Plant Dls R 49(6):487-489 15 Jun 1965 1.9 P69P Fungi, Georgia, Pearlmiliet, Seed-borne piant diseases. 2922-67 DISTRIBUTION OF B STRAIN DOWNY MILDEW OF LIMA BEAN IN 1964. RE Wester Plant Dis R 49(5):447-448 15 May 1965 1.9 P69P Downy mildew (lima beans), Epidemiology, Lima beans. 2923-67 923-67 EFFECT OF HOST COMPONENTS AND SUCROSE ON INFECTION BY POTATO YELLOW DWARF VIRUS. R F Whitcomb R C Sinha Phytopatholo 54(2):142-145, TABS. Feb 1964 464.B P56 Plant diseases, Sucrose, Viruses, Yeliow dwarf (potatoes). 2924-67 924-67 A PHOMOPSIS CANKER ON WESTERN LARCH. E F Wicker Plant Dis R 49(2):102-105 15 Feb 1965 1.9 P69P Canker (western larch), Larlx occidentaiis, Phomopsis pseudotsugae M. Wilson. 2925-67 EVALUATION OF BACTERICIDAL AND NON-BACTERICIDAL COMPOUNDS Eventuation of BACTERICIDAL AND NON-BACTEL FOR CONTROL OF BACTERIAL SPOT OF PEPPER. F J Wiebel D F Crossan D J Eieldhouse Plant D1s R 49(9):74B-750 Sep 1965 1.9 P69P Bacteriai spot (peppers), Bactericides, Xanthomonas vesicatoria. 2926-67 THE INFLUENCE OF GIBBERELLIC ACID ON SEEDLING BLIGHT OF CORN* R D Wilcoxson T W Sudla Plant Dis R 44(5):312-313 15 May 1960 1.9 P69P Blight (corn), Corn, Glbbereilic acid, Seedlings. 2927-67 TWIST DISEASE OF ORCHARDGRASS IN VIRGINIA. A S Williams Plant Dls R 4B(2):119

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BIBLIOGRAPHY
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20 2928+67 15 Feb 1964 1.9 P69P Dactyiis, Dliophospora aiopecuri, Twist (dactylis glomerata), Virginia. A HYPOCOTYL COLLAR ROT OF PHASEOLUS VULGARIS. F J Williams 2928-67 J Williams Piont Dis R 49(2):134 15 Feb 1965 1.9 P69P Beans, Collar rot (beans), Hypocotyl, Kidney beans. 2929-67 METABOLIC STUDIES ON THE HOST-PARASITE COMPLEX OF ALBUGO CANDIDA ON RADISH. P H Williams G S Pound Phytopatholo 54(4):446-451 Apr 1964 464.8 P56 Albugo candida, Crucifers, Hosts, Parasites, Radishes, White rust (crucifers). 2930-67 DUTCH ELM DISEASE IN KANSAS IN 1964. Wm G Willis C L Kramer H E Thompson Plant DIs R 49(4):359 15 Apr 1965 1.9 P69P Ceratocytis ulmi, Dieback (ulmus), Kansas. 2931-67 AUTUMN WEATHER IN RELATION TO SUBSEQUENT OCCURRENCE OF TU-BACCO BLACK SHANK IN VIRGINIA. W H Wills
 Plant Dis R 48(1):32-34
 15 Jan 1964 1.9 P69P
 Black shank (tobacco), Virginia, Weather. 2932-67 PHYTOPHTHORA PARASITICA VAR. NICOTIANAE SPREAD BY OVERHEAD IRRIGATION. W H Wills Plant Dis R 48(1):35-37 IS Jan 1964 1.9 P69P Black shank (tobacco), Irrigation, Phytophthora parasitica var. nicotianae, Tobacco. 2933-67 CONSIDERATION OF THE USE OF PERSIMMON WILT AS A SILVICIDE FOR WEED PERSIMMONS. ruk webu Pensimmuns. C L Wilson Plant Dis R 49(9):789-791 Sep 1965 1.9 P69P Cephalosporium diospyri, Persimmons, Silvicides, Weeds, Wilt (persimmon). 2934-67 EPIDEMICS OF PINE NEEDLE RUST IN ARKANSAS. C L Wisson Plant Dis R 45(12):957, PL. 15 Dec 1961 1.9 P69P Arkansas, Coleosporium vernoniae, Pine needle rust, Pinus taeda. 2935-67 SYSTEMIC INVASION OF THE HOST PLANT BY THE TUMOR-INDUCING BACTERIUM, PSEUDOMONAS SAVASTANOI. E E Wilson A R Magie Phytopatholo 54(5):576-579 May 1964 464.8 P56 Bacteria, Crown gails, Pseudomonas savastanol. 2936-67 936-67 OILS REDUCE SPORULATION OF SEPTORIA ON CELERY. J D Wilson Plant DIs R 45(4):282-285 IS Apr 1961 1.9 P69P Late blight (celery), Oils, Septoria apii. 2937-67 FUNGI ISOLATED FROM DISEASED LENTIL SEEDLINGS IN 1963-64. V E Wiison J Brandsberg Plant Dis R 49(8):660-662 Aug 1965 1.9 P69P Fungi, Lentils, Root rot (lentils), Stem rot (lentiis). 2938-67 MORPHOLOGY AND PHYSIOLOGY OF HELMINTHOSPORIUM VICTORIAE AND RELATED SPECIES. V E Wilson H C Murphy Phytopatholo 54(2):147-150 Feb 1964 464.8 F56 Helminthosporium victorlae, Plant morphology,

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Plant physiology.
2939-67
    COREOPSIS FLOWER DROOP.
    F A Wolf
Plant Dis R 49(12):964
    Dec 1965 1.9 P69P
    Coreopsis grandiflora,
Flower droop (Coreopsis grandiflora), Ornamental piants.
2940-67
THE ETIOLOGY OF AN ANNUAL CANKER ON MAPLE.
F A Wood J M Skeliy
Phytopatholo 54(3):269-272, PL.
Mar 1964 464.8 P56
    Acer, Acer, Canker (acer), Etiology.
2941-67
INEFFECTIVENESS OF CALCIUM NITRATE AND OTHER CALCIUM SOURCES
IN REDUCING SOUTHERN BLIGHT INCIDENCE ON RUTGERS TOMATO
UNDER EPIPHYTOTIC CONDITIONS.
    R E Worley D J Morton
Plant Dis R 48(1):63-65
15 Jan 1964 1.9 P69P
    Calcium nitrate, Epiphytes, Southern blight (tomatoes).
2942-67
    GLOEOSPORIUM ROT OF STRAWBERRY FRUIT.
    W R Wright M A Smith G B Ramsey L Beraha
Plant Dis R 44(3):212-213
15 Mar 1960 1.9 P69P
    Gloeosporlum, Rot (strawberries), Strawberries.
2943-67
OAK WILT IN NEBRASKA.
D S Wysong G W Peterson
Piant Dis R 49(3):269
15 Mar 1965 1.9 P69P
Nebraska, Wilt (quercus).
2944-67
SO-CALLED BEET LATENT VIRUS IS A BACTERIUM.
C E Yarwood E C Resconich P A Ark D E Schlegel K M Smith
Plant Dis R 45(2):85-89, BIBL. 89
15 Feb 1961 1.9 P69P
    Bacterial diseases (plants), Beet latent virus,
    Pseudomonas aptata.
2945-67
   A MOBILE ASSAY OF TOBACCO NECROSIS VIRUS.
C E Yarwood
Plant Dis R 48(1):24-25
15 Jan 1964 1.9 P69P
    Necrosis (tobacco), Tobacco.
2946-67
   AC-67
A NEW VIRUS DISEASE OF TOMATO FROM THE SUDAN.
A M Yassin M A Nour
Plant Dis R 49(7):599
Jul 1965 1.9 P69P
    Condensed top (tomatoes), Sudan, Tomatoes,
Virus diseases (plants).
2947-67
   947-67
THE NORTH AMERICAN 1965 SET OF SUPPLEMENTAL DIFFERENTIAL
WHEAT VARIETIES FOR IDENTIFICATION OF RACES OF PUCCINIA RE-
CONDITA TRITICI.
H C Young Jr L E Browder
Plant Dis R 49(4):300-311, TABS.
15 Apr 1965 1.9 P69P
Puccinia recondita tritici, Wheat.
 2948-67
    DWARFING OF SUMMER TOMATOES BY CREASE STEM.
   P A Young
Plant Dis R 44(3):170-171
15 Mar 1960 1.9 P69P
Crease stem, Dwarfing, Tomatoes.
2949-67
    PHYTOPHTHORA CANKER OF CACAO IN THE CAROLINE ISLANDS.
    D Zalger G A Zentwer
Plant Dis R 49(7):565-567
Jul 1965 1.9 P69P
   Cacao, Canker (cacao), Caroline Islands,
Pytophthora palmivora.
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PAGE 44
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BISLIDGRAPHY

2958-67

ADDITIONAL HOSTS OF DIPLODIA TUMEFACIENS (SHEAR) ZALASKY (>MACROPHOMA TUMEFACIENS SHEAR). H Zalasky (PRACHUPHUMA IUMEFACIENS SHEAK). H Zaiasky Plant Dis R 49(I):50 IS Jan 1965 I.5 P69P Diplodia tumefaciens (Shear) ZaIasky, Macrophoma tumefaciens Shear), Plant hosts. 2951-67 POWDERY MILDEW OF SAFFLOWER. D E Zimmer Plant Dis R 45(12):944 15 Dec I96I 1.9 P69P Erysiphe, Powdery mildew (safflower), Safflower. 2952-67 SOURCES OF RUST RESISTANCE IN SAFFLOWER. D E Zimmer L N Leininger Plant Dis R 49(5):440-442 IS May 1965 1.9 P69P Plant disease resistance, Puccinia carthami Cda., Rust (safflower), Safflower. 2953-67 VECTOR-VIRUS RELATIONSHIP OF SUGARCANE MOSAIC VIHUS. III. TRANSMISSION OF SUGARCANE MOSAIC VIRUS BY THE RUSTY PLUM APHID (HYSTERONEURA SETARIAE THOS.). N Zumo L J Charpentier Piant Dis R 49(10):827-829, TABS. Oct 1965 1.9 P69P Hysteroneura setariae, Insect vectors, Mosaic (sugarcane), Plant disease transmission, Sugarcane. 2954-67

2950-67

554-67 SPECIES OF FUSARIUM FOUND ASSOCIATED WITH WILTING OF TOMATO VARIETIES RESISTANT TO F. OXYSPORUM IN ISRAEL. A Z JOITE J Palti Piont Dis R 49(9):741 Sep 1965 I.9 P69P Fusarium oxysporum, Israel, Plant disease resistance, Tomatoes, Wilt (tomatoes).

Arthropods

2955-67 ESTIMATES OF THE NUMBERS OF HELIOTHIS LARVAE PER ACRE IN COTTON AND THEIR RELATION TO THE FRUITING CYCLE AND YIELD OF THE HOST. P L Adkisson R L Hanna C F Bailey J Econ Entom 57(5):657-663, TA8S. Oct 1964 421 J822 Cotton, Crop yields, Insect population, Larvae. 2956-67 A STUDY OF THE EUROPEAN FRUIT LECANIUM SCALE, LECANIUM CORNI, ON PRUNE. S F Sailey J Econ Entom 57(6):934-938, TA8S. Dec 1964 421 JB22 Lecanium corni, Prunes. 2957-67 TIMING OF INSECTICIDES APPLIED AS FOLIAR SPRAYS AND IN IRRI-GATION WATER AGAINST CHILO SUPPRESSALIS IN KOREA. Y H 8ang 8 M Kae J Econ Entom 57(5):706-710, TA8S. Oct 1964 421 J822

Insecticide application, Insecticides, Irrigation, Korea, Spraying.

O L Barnes J Econ Entom 56(I):84-85 Feb 1963 421 J822 Alfalfa, Arizona, Plant pest resistance, Therloaphis macuiata. 2959-67 MICROBIAL AND CHEMICAL CONTROL OF HORNWORMS ATTACKING TO-BACCO IN ONTARIO. DACLO IN UNIARIU. J A Begg J Econ Entom 57(5):646-649, TABS. Oct 1964 42I J822 Siologicai control (insects), Chemical control (Insects), Ontario, Sphingldae, Tobacco. 2960-67 EVALUATION OF ETHYLENE CHLOROBROMIDE AS A FUMIGANT FOR CITRUS AND MANGOES INFESTED BY THE MEXICAN FRUIT FLY. C A Senschoter J Econ Entom 56(3):394-396 Jun 1963 421 J822 Anastrepha ludens, Bromochloroethane, Citrus, Fumlgants, Mangoes 2961-67 A NEW SPECIES BELONGING TO THE GENUS ANONAEPESTIS RAGNOT (LEPIDOPTERA, PHYCITINAE) ATTACKING BLACK PEPPER (PIPER NIGRUM) IN WEST AFRICA. J D Bradley Bull Entomol R 56(2):299-302, 8IBL. 30I-302 Dec I965 42I 887 Africa, Pepper (spice), Piper nigrum. 2962-67 RESISTANCE OF SWEET CORN VARIETIES TO THE FALL ARMYWORM, LAPHYGMA FRUGIPERDA. C H Brett R Bastida J Econ Entom 56(2):162-167 Apr 1963 421 JB22 Plant pest resistance, Spodoptera frugiperda, Sweetcorn. 2963-67 AU-OF DIBROMIDE WATER DIPS FOR DESTROYING FRUIT FLY ETHYLENE DIBROMIDE WATER DIPS FOR DESTROYING FRUIT FLY INFESTATIONS OF QUARANTINE SIGNIFIGANCE IN PAPAYAS. A K Burditt Jr J W Balock F G Hinman S T Sed J Econ Entom 56(3):289-292 Jun 1963 421 JB22 Dipping, Ethylene dlbromide, Hot water treatment (plants), Papayas, Tephritidae. 2964-67 THE EFFECT OF LATE SEASON INFESTATIONS OF THE STRAWBERRY SPIDER MITE, TETRANYCHUS ATLANTICUS, ON COTTON PRODUCTION. T D Canerday F S Arant J Econ Entom 57(6):93I-933, TA8S. Dec 1964 421 J822 Cotton, Tetranychus atlanticus. 2965-67 SOME ASPECTS OF INSECTICIDAL AND BIOLOGICAL CONTROL OF THE WOOLLY APPLE APHID, ERIOSOMA LANIGERUM (HSM.) IN RHODESIA. AUDELT APPLE APPLD, ERIDSUMA LANIGERUM (NSN.) IN RHUDESIA A J M Carnegie Buli Entomol R 56(2):269-274, BIBL. 273-274 Dec 1965 42I 887 Biological control (insects), Chemical control (insects), Eriosoma lanigerum, Rhodesia. 2966-67 VARIETAL RESISTANCE OF PEAS TO PEA APHID BIOTYPES UNDER FIELD AND GREENHOUSE CONDITIONS. J J Cartier J Econ Entom 56(2):205-213 Apr 1963 421 JB22 Acyrthosiphon pisum, Environment, Peas. 2967-67 EUROPEAN CORN BORER DAMAGE TO SWEET CURN AS AFFECTED BY THE EUROPEAN CURN outer burner to sect country in DATE OF PLANTING. H C Chiang A C Hodson J Econ Entom 56(3):243-248 Jun 1963 421 JB22 Ostrinia nubilalis, Planting date, Sweetcorn.

RESISTANCE OF MOAPA ALFALFA TO THE SPOTTED ALFALFA APHID IN COMMERCIAL-SIZE FIELDS IN SOUTH-CENTRAL ARIZONA.

2968-67 GRANULAR IN-FURROW TREATMENTS WITH PHORATE AND DI-SYSTON AGAINST THE PEA APHIDS IN PEAS. H C Cook L Butler K C Waiker P E Featherston

> PAGE 45

20 2968-67

20 2969-67 J Econ Entom 56(1):95-98 Feb 1963 421 J822 Acyrthosiphon pisum, Disuifoton, Peas, Phorate, Systemic insecticides. 2969-67 MIGRANT GREEN PEACH APHIDS AND THE SPREAD OF YELLOWS VIRUSES IN SEED BEET FIELDS OF ARIZONA. D L Coudrict J Econ Entom 57(6):939-940 Dec 1964 421 JB22 Arizona, Beets, Myzus persicae, Yeliows (beets). 2970-67 CONTROL OF RED-BANDED LEAF ROLLER ON GRAPES. J A Cox J Econ Entom 56(1):86-88 Feb 1963 421 J822 Argyrotaenia veiutinana, Grapes. 2971-67 THE SOUTHERN POTATO WIREWORM, A NEW PEST OF TOBACCO. C S Creighton W S Kinard N Allen J Econ Entom S6(3):292-294 Jun 1963 421 JB22 Insect pests, Southern potato wireworm, Tobacco. 2972-67 REACTION OF ALFALFA VARIETIES AND STRAINS TO ALFALFA WEEVIL. J R Dogger C H Hanson J Econ Entom 56(2):192-197 Apr 1963 421 JB22 Alfalfa, Hypera postica. 2973-67 THE INFLUENCE OF ENVIRONMENTAL STRESS ON THE CACAO TREE IN DETERMINING THE FEEDING SITES OF CACAO THRIPS, SELENOTHRIPS RUBROCINCTUS (GIARD), ON LEAVES AND PODS. R G Fennah Buil Entomoi R 56(2):333-349, BIBL. 34B-349, TABS. Dec 1966 421 BB7 Cacao, Cacao thrips, Environment, Plant introduction. 2974-67 EVALUATION OF POPULATIONS AND CONTROL OF THE WESTERN BEAN CUTWORM IN FIELD BEANS IN NEBRASKA. A F Hagen J Econ Entom 56(2):222-224 Apr 1963 421 JB22 Beans, Chemical control (insects), Inaect population, Insecticides, Loxagrotis aibicosta, Nebraaka. CONTROL OF THE CLOVER ROOT BORER IN NEW YORK. D D Hardee H Y Forsythe Jr G G Gyriaco J Econ Entom S7(4):585-586 Aug 1964 421 J822 Hyjastinus obscurus, New york, 2976-67 JOSO INFLUENCE OF TEMPERATURE AND HUMIDITY ON RESISTANCE IN ALFALFA TO THE SPOTTED ALFALFA APHID AND PEA APHID. A Isaak E L Sorenson E E Ortman J Econ Entom 56(1):S3-57 Feb 1963 421 J822 Acyrthosiphon pisum, Aifaifa, Humidity, Piant pest resistance, Temperature, Therloaphis maculata. 2977-67 977-67 LATE SEASON CONTROL OF BAGWORMS. S W Jacklin F F Smith J Econ Entom 57(S):76B Oct 1964 421 JB22 Thyridopteryx ephemeraeformis. 2978-67 A TECHNIQUE FOR MEASURING CERTAIN ASPECTS OF ANTIBIOSIS IN A DECHNIQUE FOR MERSORING LERININ / COTTON TO THE BOLL WEEVIL. J N Jenkins F G Maxweil W L Parrot J Econ Entom 57(5):679-681 Oct 1964 421 JB22 Anthonomus grandis, AntIbiosis, Cotton. 2979-67 INSECTICIDES TESTED FOR CONTROL OF THE DOUGLAS-FIR CONE MIDGE. N E Johnson J Econ Entom 56(2):236-237 Apr 1963 421 J822 Douglas-fir cone midge, Insecticidea. PAGE 46

2980-67 RELATION OF INSECTS TO INTERNAL CORK OF SWEET POTATO IN LOUISIANA. LOUISIANA. E J Kantack W J Martin L D Newsom Phytopatholo 50(6):447-449 Jun 1960 464.8 PS6 Cork, Insects, Louisiana, Sweet potatoes. 2981-67 SCHEDULING INSECTICIDE APPLICATIONS FOR PEACH TREE BURER CONTROL . D R King J Econ Entom 56(3):270-272 Jun 1963 421 J822 Insecticide application, Peaches, Sanninoidea exitiosa. 2982-67 IMING OF TREATMENTS FOR CONTROL OF THE ALFALFA WEEVIL IN NORTHERN CALIFORNIA. C S Kochier V E Burton J Econ Entom S7(S):750-753, TABS. Oct 1964 421 J822 California, Hypera postica, Insecticide application. 2983-67 HOJA BLANCA VIRUS TRANSMISSION TO RICE PLANTS BY VIRULIFER-OUS VECTORS. H A Lamey R D Hendrick T K Everett W B Showers Phytopatholo S4(6):624 Jun 1964 464.B P56 Hoja blanca (rice), Insect vectors, Plant disease transmission. 2984-67 SILK BALLING AND OTHER FACTORS ASSOCIATED WITH RESISTANCE OF CORN TO CORN EARWORM. W H Luckmann A M Rhodes E V Wann J Econ Entom 57(5):778-779 Oct 1964 421 3822 Corn, Heliothis zea, Plant pest resistance, Slik baiiing. 2985-67 RATING DENT CORN FOR RESISTANCE TO RICE WEEVILS. KIRK, V M. A Manwiiler J Econ Entom 57(6):BS0-BS2 Dec 1964 421 JB22 Corn, Plant pest resistance, Sitophilus oryzae. 2986-67 CHEMICAL CONTROL OF THE BEET WEBWORM ON SUGAR BEETS IN SOUTHERN ALBERTA. S McDonald J Econ Entom 56(3):248-251 Jun 1963 421 JB22 Aiberta, Canada, Chemical control (insects), Loxostege sticticalis, Sugar beets. 2987-67 EARLY DETECTION OF HELIOTHIS ON COTTON. W J Mistric Jr J Econ Entom 57(6):BS8-B59 Dec 1964 421 JB22 Cotton, Insect outbreak forecasting. 2988-67 CONTROL OF SPIDER MITES ON COTTON. W J Mistric Jr J Econ Entom 57(6):855-857 Dec 1964 421 JB22 Cotton, Tetranychidae. 2989-67 B9-67 SENSITIVITY OF BACTERIAL ISOLATES FROM EGGS OF APHIS POMI TO ERWINIA AMYLOVORA BACTERIOPHAGES. J W Neai Jr W R Enns R N Goodman J Econ Entom 57(6):B31-B32 Dec 1964 421 JB22 Bacteriophages, Erwinia amyiovora (Burrili), Insect eggs. 2990-67 ALFALFA WEEVIL CONTROL BY STUBBLE TREATMENT. R E Pfadt R J Lavigne J Econ Entom 57(6):996-997 Dec 1964 421 JE22 Hypera postica, Stubbie.

2991-67 3002-67 CONTROL OF POTATO APHIDS WITH SYSTEMIC INSECTICIDES. D D Pond 002-67 RED SPIDER MITE CONTROL ON ROSES IN FLORIDA. D 0 Wolfenbarger J Econ Entom 57(6):1000-1002, TABS. Dec 1964 421 JB22 Florida, Rosa, Tetranychus urticae. J Econ Entom 561(2):227-230 Apr 1963 421 JB22 Macrosiphum euphorbiae, Potatoes, Systemic insecticides. 2992-67 3003-67 003-67 THE USE OF SYSTEMIC INSECTICIDES FOR CONTROL OF THE POTATO LEAFHOPPER, EMPOASCA FABAE, AND EFFECT ON POTATO YIELD. H & Wressell G R Driscoli J Econ Entom 57(6):992-993 Dec 1964 421 JB22 Crop yields, Empoasca fabae, Potatoes, Systemic insecticides. INDIVIDUAL COLONY CONTROL OF THE WESTERN HARVESTER ANT. POGONOMYRMEX OCCIDENTALIS S R Race J Econ Entom 57(6):860-864, TA8S. Dec 1964 421 J822 Ant coionies, Pogonomyrmex occidentaiis. 2993-67 y33-67 SYSTATES EXAPTUS MSHL. (COL., CURCULIUNIDAE) AND RELATED SPECIES AS SOIL PESTS OF MAIZE IN RHODESIA. D J W Rose C J Hodgson Buil Entomol R 56(2):303-31B, TA8S. Dec 1965 421 8B7 Corn, Parasitic insects, Rhodesia. 2994-67 SASONAL DEVELOPMENT OF FOLIAGE INFESTATIONS OF GRAPE IN ONTARIO 8Y PHYLLOXERA VITIFOLIAE (FITCH) (HOMOPTERA: PHYLLOXERIDAE. 3004-67 CONTROL OF THE WALNUT APHID AND CODLING MOTH ON WALNUTS IN A 8 Stevenson CONTROL OF THE WALNUT APHID AND CODLING MOTH ON WALNUTS IN NORTHERN CALIFORNIA. H F Madsen L A Falcon T T Y Wong J Econ Entom 57(6):950-952, TABS. Dec 1964 421 JB22 California, Carpocapsa pomonelia, Chromaphis jugiandicola, Can Entom 98(12):1299-1305 Dec 1966 421 C16 Grapes, Ontarlo. 2995-67 INSECTICIDES FOR THE CONTROL OF THE GREEN PEACH APHID ON Walnuts. SHADE-GROWN TOBACCO. B Tappan F D Tappon J Econ Entom 56(1):34-40 Feb 1963 421 JB22 Insectlcides, Myzus persicae, Tobacco. **Parasites** 2996-67 EFFECT OF WINTER SURNING ON SOME PESTS OF ALFALFA. H H Tippins D Econ Entom 57(6):1003-1004 Dec 1964 421 J822 Alfalfa, Winter burning. 3005-67 TEMPERATURE AND THE QUANTITATIVE RECOVERY OF NEMATODES WITH A MODIFIED SAERMANN FUNNEL. 2997-67 A MUDIFIED OREKTANN FUNNEL. R E Adams Plant Dis R 49(B):662-664 Aug 1965 1.9 P69P Baermann funnei, Nematodes, Soll microbiology, Soll sampling (nematodes), Temperature. CONTROL IN THE PINK SOLLWORM AND A METHOD FOR ESTIMATING LOSSES IN COTTON YIELD. C H Tsao W L Lowry J Econ Entom 56(2):158-160 Apr 1963 421 J822 Cotton, Crop yields, Pectinophora gossyplella. 3006-67 CONTROL OF ROOT-LESION NEMATODE, PHATYLENCHUS PENETRANS, UN 2998-67 CONTROL OF ROOT-LESION NET NARCISSUS. W J Apt C J Gould Plant Dis R 45(4):290-295 15 Apr 1966 1.9 P69P INSECTICIDAL CONTROL OF FIRST-INSTAR PINK BOLLWORM LARVAE AND OBSERVATIONS OF THEIR DISPERSAL ON COTTON PLANTS. J Econ Entom 56(3):370-372 Jun 1963 421 J822 Plant nematodes, Pratylenchus penetrans, Root rot (narcissus), Soll fumigation. Cotton, Insecticides, Larvae, Pectinophora gossypiella. 2999-67 3007-67 DEVELOPMENT OF POPULATION OF THE BOLL WEEVIL IN FIELDS TREATED WITH VARIOUS INSECTICIDES DURING 1959, 1960, AND LONG-TERM INHIBITION OF RHIZOCTONIA SOLANI BY A NEMATOCIDE, L,2-DIROMO-3-CHLOROPROPANE. L J Ashworth Jr B C Langley W H Thames Jr Phytopatholo 54(2):187-191, TA8S. Feb 1964 A64.8 956 Nematode inhibition, Rhizoctonia soianl, 1961. J K Walker Jr R L Hanna 56(3):350-356 Jun 1963 Anthonomus grandls, Insect population, Insecticides. 1,2-dlbromo-3-chloropropane. 3000-67 3008-67 108-67 PERFORMANCE OF CERTAIN NEMATOCIDES AND NEMATOCIDE-FERTILIZER MIXTURES APPLIED TO VEGETABLE CROPS IN NORTH CAROLINA. R Aycock J N Sasser Plant D1s R 45(B):620-624 15 Aug 1961 1.9 P69P Fertilizers, Nematocides, North Carolina, Okra, Tomatoes, Vegetables, 1,2-dibromo-3-chloropropane. EFFECTS OF HYPERA NIGRIROSTRIS, HYLASTINUS O8SCURUS, AND SITONA HISPIDULA POPULATIONS ON HED CLOVER IN SOUTHWESTERN IDAHO. N D Waters J Econ Entom 57(6):907-910, BIBL. 910 Dec 1964 421 J822 Idaho, Red clover. 3001-67 3009-67 PRATYLENCHUS ZEAE FOUND ON CORN, MILO, AND THREE SUSPECTED NEW HOSTS IN CALIFORNIA. S M Ayoub Plant Dig R 45(12):940 CONTROL OF THE PEAR RUST MITE, EPITRIMERUS PYRI. D H Westlgard D W Berry J Econ Entom 57(6):953-955, TA8S. Dec 1964 421 J822 15 Dec 1561 1.9 P69P Callfornia, Corn, Cynodon dactyion, Echinochloa crus-gaiii, Milo, Pratylenchus zeae, Soil sampling, Trlbuius terrestris. Epitrimerus pyri.

20 3009-67

20 3010-67 3010-67 110-67 SUSCEPTIBILITY OF SOME SPECIES AND VAKIETIES OF CITRUS AND SOME OTHER RUTACEOUS PLANTS TO THE CITRUS NEMATODE. R C Baines ₩ P Bitters O F Clarke Plant Dis R 44(4):22B1-255 IS Apr 1960 1.9 P69P Citrus, Nematodes, Plant nematode resistance, Rutaceous plants. 3011-67 NEMATODES ASSOCIATED WITH THE DECLINE OF AZALEAS IN WISCON-NEIRIGEE MARKER G L Worf A H Epstein K R Barker G L Worf A H Epstein Plant Dis R 49(1):47-49 IS Jan 1965 1.9 P69P Azaleas, Plant nematodes, Wisconsin. 3012-67 NEW COMBINATIONS OF NEMATOCIDES FOR CONTROL OF RENIFORM NEW COMBINATIONS OF MEMORATOR OF NEW YORK NEMATODE OF COTTON. W Birchfield J A Pinckard Phytopatholo 54(4):393-394, TABS. Apr 1964 464.B PS6 Cotton, Nematocides, Reniform nematodes. 3013-67 OCCURRENCE, PARASITISM, AND PATHOGENICITY OF NEMATODES ASSO-CIATED WITH CRANBERRY. G W Bird W R Jenkins Phytopatholo S4(6):677-680, TABS. Jun 1964 464.8 PS6 Cranberries, Parasitism, Plant nematodes. 3014 EFFECT OF CRANBERRY BOG FLOODING AND LOW DISSOLVED OXYGEN CONCENTRATIONS ON NEWATODE POPULATIONS. G W Bird W R Jenkins Plant Dis R 49(6):SI7-SIB IS Jun 1965 1.9 P69P Cranberry bogs, Nematode control, Nematodes, Oxygen. 3015-67 RESPONSE OF NICOTIANA REPANDA, N. SYLVESTRIS, AND THEIR AMPHIDIPLOID HYBRID TO ROOT-KNOT NEMATODES. AFFAILLED ATOMISTIC ROLLENGT RETAILDES. L G Burk VH Dropkin Plant Dis R 45(9):734-735 IS Sep 1961 I.9 P69P Meloidogyne, Nicotiana repanda, Nicotiana sylvestris, Root-knot nematode, Tobacco. 3016-67 EFFECT OF CLOVER CYST NEMATODE ON GROWTH OF RED AND WHITE CLOVER. R A Chapman Phytopatholo S4(4):417-41B, TABS. Apr 1964 464.B P56 Clover cyst nematode, Red clover, White clover. 3017-67 CITRUS NEMATODE ON AMERICAN PERSIMMON IN ISRAEL. Clikus NERALDUE UN AMERICAN PERSIAMUN IN ISRAEL. E Cohn G Minz Piant Dis R 45(7):SOS IS Jui 1961 I.9 P69P American persimmons, Chlorosis (citrus), Citrus nematode, Israel, Persimmons, Plant nematodes, Tylenchulus semipenetrans Cobb. 301B-67 D18-67 ATTEMPTS TO IMPROVE THE GROWTH OF RADOPHOLUS SIMILIS-IN-FECTED CITRUS WITH UNDER-TREE DRENCHES OF ZINOPHOS. R J Collins A W Feldman Plant Dis R 49(10):B6S-B67 Oct 1965 1.9 P69P Citrus, Plant physiology, Radopholus similus, Zinophos. 3019-67 STUDIES OF THE HOST RANGE OF MELOIDOGYNE INCOGNITA ACRITA. NUMBER OF THE HUST KANGE OF MELUIDUGYNE INCOG H W Crittenden Plant Dis R 4S(3):I90-191 15 Mar 1961 I.9 P69P Meloidogyne incognita acrita, Plant nematodes, Root-knot nematodes. 3020-67 SEASONAL POPULATION VARIATIONS OF PRATYLENCHUS PENETRANS IN AND ABOUT STRAWBERRY ROOTS. AND ADUT STRABERT RUDIS. A A Di Edwardo Plant Dis R 45(1):67-71 IS Jan 1961 1.9 P69P Plant nematodes, Pratylenchus penetrans, Strawberries. PAGE 4B

3021-67 EFFECTS OF SEED INOCULATION, SOIL FUMIGATION, AND CROPPING SEQUENCES ON NODULATION OF SOYBEANS GROWN IN SUYBEAN-CYST-NEMATODE-INFESTED SOIL. NETRIDUC-INFESTED SUIL. J M Epps A Y Chambers Phytopatholo S2(1):9 Jan 1962 464.B P56 Crop rotation, Nodules (plants), Seed treatment, Soil fumigation, Soybeans. 3022-67 J22-67 BEHAVIOR OF POPULATIONS OF HETERODERA GLYCINES UNDER VARI-OUS CROPPING SEQUENCES IN FIELD BINS. J M Epps A Y Chambers Phytopatholo S4(6):622 Jun I964 464.8 PS6 Crop yields, Heterodera glycines, Nematode population. 3023-67 NEMATOCIDAL SEED TREATMENT FOR CONTROL OF HETERODERA GLY-NETRIDUIDAL SEED IREAMENT FOR CONTROL OF HETERODERA GEF-CINES IN SOYBEANS. J M Epps A Y Chambers Phytopatholo S4(6):622 Jun 1964 464.B PS6 Heterodera glycines, Nematocides, Seed treatment, Soybeans. 3024-67 OBSERVATIONS ON THE DEVELOPMENTAL STAGES OF HEMICRICONEMGI-DES CHITWOODI. G Fassuiiotis Phytopatholo S2(I):9 Jan 1962 464.B P56 Hemicriconemoides chitwoodi Esser, Nematode morphology. 302S - 67PATHOGENICITY AND POPULATION DYNAMICS OF PARATYLENCHUS HAMATUS ON MENTHA SPP. L R Faulkner Phytopatholo 54(3):344-34B, TABS. Mar 1964 464.B PS6 Mentha spp., Nematode population, Paratylenchus hamatus, Pathogenicity. 3026-67 SUGAR-INDUCED OSMOTIC DEHYDRATION OF NEMATODES ENHANCED BY THE ADDITION OF DETERGENTS. W A Feder J L Eichhorn P C Hutchins Phytopatholo S2(I):9 Jan 1962 464.B PS6 Dehydration (physiological), Detergents, Nematodes. 3027-67 OCCURRENCE OF PLANT-PARASITIC NEMATODES IN CITRUS BLIGHT AREAS. J Feldmesser J F L Childs R V Rebois Plant Dis R 4B(2):95-98 IS Feb 1964 1.9 P69P Blight (citrus), Citrus, Parasitism, Plant nematodes. 3028-67 MOVEMENT OF TYLENCHULUS SEMI-PENETRANS INTO ROUGH LEMON ROOTS AND IN SOIL AND ITS RELATION TO FUSARIUM IN THE ROOTS. J Feldmesser W A Feder R V Rebois Phytopatholo 52(1):9 Jan 1962 464.B P56 Fusarium oxysporum, Fusarium solani, Nematode migration, Rough lemon, Tylenchulus semi-penetrans. 3029-67 SUSCEPTIBILITY OF BLUEGRASS TO ROOT-KNOT NEMATODES. T A Gaskin Plant Dis R 49(1):B9-90 IS Jan 1965 1.9 P69P Plant nematode resistance, Poa, Root-knot nematodes. 3030-67 NEMATODES ON RASPBERRIES IN THE EASTERN UNITED STATES. A M Golden R Cowverse Plant Dis R 49(12):987-991 Dec I965 I.9 P69P Eastern United States, Plant nematodes, Raspberries. 3031-67 EVALUATION OF DBCP FORMULATIONS AND APPLICATION DEPTHS FOR ROOT-KNOT NEMATODE CONTROL AND PHYTOTOXICITY TO TOMATOES. J M Good 4S(12):976-97B, PL. 1S Dec I961 Insecticide application, Meloidogyne incognita acrita,

Phytotoxicity, Root-knot nematode, Tomatoes, 1,2-dibromo-3-chioropropane. 3032-67 INTERACTIONS OF EDB, CDEC, AND IRRIGATION ON CONTROL OF MELOIDOGYNE INCOGNITA ACKITA. J M Good R B Tayiorson Phytopathoio 54(6):622 Jun 1564 464.8 P56 Ethylene dlbromide, Irrigation, Meloidogyne incognita acrita, 2-chiorallyi diethyldlthiocarbamate. 3033-67 FERTILIZERS CAN TRANSMIT PLANT NEMATODES. J M Good Phytopatholo 52(1):I1 Jan 1962 464.8 P56 Fertillzers, Nematodes. 3034-67 RESPONSES OF TOBACCO BREEDING LINES TO THREE SPECIES OF ROOT-KNOT NEMATODES IN GREENHOUSE TESTS. ROUT-KNUT NEMATORES IN GREENHUUSE IESIS. T W Graham Plant D1s R 45(9):692-695 IS Sep 1961 1.9 P69P Greenhouse culture, Meloidogyne, Plant breeding, Root-knot nematode, Tobacco. 3035-67 J35-67 RESPONSE OF ROOT-KNOT-RESISTANT TOBACCOS TO THE NEMATODE ROOT DISEASE COMPLEX CAUSED BY PRATYLENCHUS SPP. AND ME-LOIDOGYNE INCOGNITA ACRITA. T W Graham Z T Ford R E Currin Phytopatholo 54(2):205-210, BIBL., 210, TABS. Feb 1964 464.8 P56 Matride Lorentita Provide Destination (Construction) Feb 1964 464.8 P56 Reioidogyne incognita acrita, Nematodes, Pratylenchus spp., Root knot (tobacco), Root rot (tobacco), Tobacco. 3036-67 RESPONSE OF SELECTED TOBACCO VARIETIES TO MELOIDOGYNE JAVANICA AND M. INCOGNITA ACRITA IN FIELD PATHOGENICITY TRIALS. T W Graham Phytopatholo 54(6):623 Jun 1964 464.B P56 Meloidogyne incognita acrita, Meloidogyne javanica, Tobacco. 3037-67 ASPECTS OF THE HOST-PARASITE RELATIONSHIP OF NEMATODES ASSO-CIATED WITH WOODY ORNAMENTALS. C M Heaid w R Jenkins Phytopatholo 54(6):718-722, BIBL. 721-722, TABS. Jun 1964 464-8 P56 Climbing plants, Parasitism, Plant nematodes. 3038-67 INFLUENCE OF SOIL DEPTH AND SAMPLING DATE ON POPULATION LEVELS OF TRICHODORUS CHRISTIEI. J K Hoff W F Mai Phytopathoio 54(2):246 Feb 1964 464.8 P56 Trichodorus christiei. 3039-67 SOME CONSEQUENCES OF A QUANTITATIVE THEORY OF NEMATODE-ROOT RELATIONS. J P Hollis Phytopatholio 54(6):624 Jun 1964 464.B P56 Plant nematodes, Roots. 3040-67 CONTROL OF ROOT-KNOT NEMATODES WITH ORGANOPHOSPHATE INSECTI-CIDES. CIDES. N B Jannevic E G Coffee Plant Dis R 49(7):603-604 Jul 1965 1.9 P69P Insecticides, Meloidogyne incognita, Phosphates, Root-knot nematodes. 3041-67 STUNT OF SMALL GRAINS, A NEW DISEASE CAUSED BY THE NEMATODE TYLENCHORHYNCHUS BREVIDENS. K R Langdon F B Struble H C Young Jr Piant Dis R 45(4):248-252 15 Apr 1961 1.9 P69P Piant nematodes, Stunt (gralns), Tylenchorhynchus brevidens.

3042-67 J42-67 ROLE OF CERTAIN PLANT-PARASITIC NEMATODES IN INFECTION OF TOMATOES BY PSEUDOMONAS SOLANACEARUM. G LIbman J G Leach R E Adams Phytopathoio 54(2):151-153 Feb 1964 464.8 P56 Plant nematodos, Pseudomonas solanacearum, Tomatoes. 3043-67)43-67 SOME EFFECTS OF CHEMICAL AMENDMENTS AND CULTURAL CONDITIONS ON POPULATION LEVELS OF XIPHINEMA AMERICANUM. B F Lownsbery J T Mitchell Piant Dis R 49(12):994-99B, TABS. Dec 1665 1.9 P69P Chemical control (nematodes), Population (nematodes), Vibbioge accelerums Xlphinema americanum. 3044-67 AN ATTEMPT TO CONTROL ROOT-KNOT NEMATODE WITH DACTYLARIA THAUMASIA AND ARTHROBOTRYS ARTHROBOTRYOIDES. R Mankau R Mankau Piant Dis R 45(3):164-166 15 Mar 1961 I.9 P69P Arthrobotrys arthrobotyroides Lindau, Dactylaria thaumasia Drechsler, Meloidogyne incognita, Plant nematodes, Root knot (okra), Root knot (tomatoes). 3045-67 THE RENIFORM NEMATODE MAY BE A SERIOUS PEST OF THE SWEET-POTATO. W J Martin Plant Dis R 44(3):216 15 Mar 1960 1.9 P69P Nematodes, Reniform nematode, Sweetpotatoes. 3046-67 EFFICIENCY OF XIPHINEMA AMERICANUM AS A VECTOR OF TOBACCO RINGSPOT VIRUS. J M McGuire Phytopatholo 54(6)625 Jun 1964 464.8 P56 Ring spot (tobacco), Xlphinema americanum. 3047-67 ELIMINATION OF NEMATODES FROM NURSERY PLANTS BY CHEMICAL BARE-ROOT DIPS. H N Miller V G Perry Plant Dis R 49(1):51-53 15 Jan 1965 1.9 P69P Chemical control (nematodes), Nursery stock (horticulture), Plant nematodes. 304B-67 EFFECTS OF 7 NEMATODE SPECIES ON 10 COTTON SELECTIONS. E B Minton A L Smith E S Cairns Phytopathoio 54(6):625 Jun 1964 464.B P56 Cotton, Plant nematodes. 3049-67 REACTION OF WHITE CLOVER AND FIVE OTHER CROPS TO PRATYLEN-CHUS SCRIBNERI. N A Minton Plant Dis R 49(10):856-859 Oct 1965 1.9 P69P Crops, Forage plants, Pratylenchus scribnerl, White clover. 3050-67 CONTROL OF ROOT-KNOT NEMATODE AND APHID ON TOBACCO. R E Motsinger O D Morgan Plant Dis R 44(6):399 15 Jun 1960 1.9 P69P Aphldidae, Nematodes, Root knot nematode, Tobacco. 3051-67 CITRUS-ROOT NEMATODE IN IRAQ IN 1965. R M Natour H El-Haiderl J Mohammed Plant Dls R 49(9):792 Sep 1965 1.9 P69P Citrus, Iraq, Nematodes, Tylenchulus semipenitrans Cobb.. 3052-67 D2-67 DITYLENCHUS DIPSACI INJURY TO PENSTEMON DIGITALIS. W R Nickie A M Golden Piant Dis R 49(12):991-993 Dec 1965 1.9 P69P Ditylenchus dipsaci, Penstemon digitalis.

PAGE 49

20 3052-67

20 3053-67 3053-67 SIGNIFICANCE OF POTASSIUM FERTILIZATION IN NEMATODE INFESTED COTTON FIELDS. B A Otelfa K A Dlab Piant Dis R 45(12):932 15 Dec 1961 1.9 P69P Cotton, Fertifizers, Plant nematodes, Potassium. 3054-67 EFFICACY OF DBCP FLOOD IRRIGATION IN ESTABLISHED CITRUS. B A Oteifa F A Shafiee F M Elssa Piant Dis R 49(7):598-599 Jul 1965 1.9 P69P Citrus, Irrigation, 1,2-dibromo-3-chioropropane. 3055-67 155-67 A CRITICAL METHOD FOR EVALUATING TOLERANT LEVELS IN NEMA-TIZED HOST PLANTS. B A Oteifa D M Elgindi Plant Dis R 45(12):930-931 15 Dec 1961 1.9 P69P Plant nematodes, Plant physiology. 3056-67 POTENTIALLY IMPORTANT PLANT-PARASITIC NEMATODES PRESENT IN ESTABLISHED ORCHARDS OF NEWLY-RECLAIMED SANDY AREAS OF THE UNITED ARAB REPUBLIC. B A Oteifa A C Tarjan Plant Dis R 49(7):596-597 Jul 1965 1.9 P69P Parasitism, Plant nematodes, United Arab Republic. 3057-67 PHYSIOLOGICAL STUDIES ON HOST-PARASITE RELATIONSHIP OF THE ROOT-KNOT NEMATODE, MELOIDOGYNE JAVANICA. ROOT-KNOT NEMATODE, MELOIDOGYNE JAVANICA. B A Oteifa D M Elgindi Plant Dis R 45(12):928-929 15 Dec 1961 1.9 P69P Meioidogyne javanica, Parasitism, Root-knot nematode. 305B-67 JSB-67 GREENHOUSE STUDIES ON THE CONTROL OF ROOT-KNOT NEMATODES ON HYDROCOTYLE SIBTHORPIODES. W M Powell F A Pokorny Plant Dis R 49(10):B61-B64 Oct 1965 1.9 P69P Hydrocotyle sibthorpiodes, Nematocides, Plant nematodes, Root-knot nematode. 3059-67 INTERACTION OF HETERODERA GLYCINES AND MELOIDOGYNE INCOG-NITA ON SOYBEANS. J P Ross Phytopatholo 54(3):304-307, TABS. Mar 1964 464.B P56 Heterodera giycines, Meioidogyne incognita, Piant nematodes, Soybeans. 3060-67 OCCURRENCE OF XIPHINEMA AMERICANUM COBB IN SOME SASKAT-CHEWAN SOILS. P J Salisbury J E Bosher Piant Dis R 45(6):481 15 Jun 1961 1.9 P69P Piant nematodes, Saskatchewan, Soil contamination, Soii sampiing, Xiphenema americanum Cobb. 3061-67 INFLUENCE OF STING NEMATODE CONTROL WITH 0,0-DIETHYL 0-2-PYRAZINYL PHOSPHOROTHIOATE ON YIELD AND QUALITY OF PEANUTS. J N Sagger W E Cooper J N Sager w C Couper Plant Dis R 45(3):173-175 15 Mar 1961 1.9 P69P Beionoiaimus iongicaudatus Rau, Crop yleida, C,O-diethyi O-2-pyrazinyl, Peanuts, Sting nematode. 3062-67 ROOT-KNOT NEMATODE ON KENAF IN GUATEMALA. E Schelber O N Sosa P Escobar Piant Dis R 45(2):119 15 Feb 1961 1.9 P69P Guatemaia, Hlbiscus cannablnus, Kenaf, Meloldogyne incognita acrita, Piant nematodes, Root knot (kenaf). 3063-67 ROOT-KNOT NEMATODE ON DIOSCOREA IN GUATEMALA. E Schieber D Lassmann K Plant Dis R 45(12):9B1 15 Dec 1961 1.9 P69P PAGE 50

Guatemaia, Meioidogyne Incognita, Root-knot nematode, Yams. PARASITIC NEMATODES ON DIOSCOREA IN GUATEMALA. Plant D1s R 45(6):425 15 Jun 1961 1-9 P69P Guatemaia, Meloidogyne, Plant nematodes, Tropical yams, Yams. 3065-67 065-67 WHEAT GRAIN LOSSES CAUSED BY NEMATODES. A M Schiehuber H Pass H C Young Jr Piant Dis R 49(10):B06-809 Oct 1965 1.9 P69P Crop iosses, Plant nematodes, Tylenchorhynchus brevidens Alien, Wheat. 3066-67 DRENCH TREATMENT OF ROSES IN CONTAINERS FOR ROOT-LESION NET DRENCH IREALIENT OF RUSES IN CONTINUES FOR NO MATODE DISEASE. S A Sher A H Bell Piant Dis R 49(12):982-985, TABS. Dec 1965 1.9 P69P Chemicai control (nematodes), Plant nematodes, Pratylenchus vulnus, Rosa. 3067-67 067-67 OCCURRENCE OF DITYLENCHUS RADICICOLA (NEMATODA: TYLENCHI-DAE) IN THE U. S. AND ON A NEW HOST. G J Stessel A M Golden Plant Dis R 45(1):26-28 15 Jan 1961 1.9 P69P American beachgrass, Ammophila breviliguiata, Ditylenchus radicicola (Greeff), Nematoda, Nematodes, Tylenchidee. Tylenchidae. 3068-67 060-67 EFFECTIVENESS OF DBCP AND FUNGICIDES FOR THE CONTROL OF RADOPHOLUS SIMILIS ON CITRUS TREES. R F Suit E P DuCharme A W Feldman Piant Dis R 45(1):62-66 15 Jan 1961 1.9 P69P Citrus, Radophoius similis, Sprinkier irrigation, 1,2-dibromo-3-chloropropane. 3069-67 INCUBATION OF SOIL AND ROOT SAMPLES IN POLYETHYLENE PLASTIC FOR IMPROVED RECOVERY NEMATODES. A C Tarjan Piant Dis R 44(1):31 Incubation, Nematodes, Plastics, Polyethylene, Roots, Soil sampling. 3070-67 070-67 ARROWWEED, PLUCHEA SERICEA, ON THE COLORADO RIVER IS A HOST FOR ROOT-KNOT NEMATODES. I J Thomason S D Van Gundy Plant Dis R 45(7):577 15 Jui 1961 1.9 P69P Arrowweed, Meioidogyne javanica, Piant hosts, Piuchea sericea, Root-knot nematode. 3071-67 MIGY MOTILITY AND INFECTIVITY OF MELOIDOGYNE JAVANICA AS AFFECT-ED BY STORAGE TIME AND TEMPERATURE IN WATER. I J Thomason S D Van Gundy J D Kirkpatrick Phytopatholo 54(2):192–195, TABS. Feb 1964 464.B P56 Meloidogyne javanlca, Storage, Temperature, ⊎ater. 3072-67 SWEETPOTATO PRODUCTION ON SOIL TREATED WITH SOIL FUMIGANTS. SWEETPOTATU PRUDUCTION ON SUIT IREATED WITH SUIT FURISHIES I J Thomason H E McKinney Plant Dis R 45(7):497-499, TABS. 15 Jui 1961 I.9 P69P Ethylene dibromide, Meloldogyne Incognita, Root-knot nematode, Soil treatment, Sweetpotatoes, Telone, 1,2-dibromo-3-chioropropane. 3073-67 SUSCEPTIBILITY OF JUTE STRAINS TO FOUR ROOT-KNOT NEMATODES (MELOIDOGYNE SPP.) IN EASTERN NIGERIA. K L Unny M L Jerath Piant Dis R 49(B):729-730 Aug 1965 1.9 P69P Jute, Meloldogyne, Nematodes, Nigeria, Piant nematode resistance, Root-knot nematode.

3074-67
PARASITIC NEMATODES ON DIOSCOREA SPP. IN EASTERN NIGERIA.
K L Unny M L Jerath
Plant Dis R 49(10):075-076
Oct 1965 1.9 P69P
Helicotylenchus dihystera, Hopolaimus proporicus, Nigeria,
Plant nematodes, Scutelloneme, Yams.
3075-67
NATURE OF RESISTANCE IN CERTAIN CITRUS RODISTOCKS TO CITRUS
NEMATODE.
S D Van Gundy J D Kirkpatrick
Phytopathole 54(4):419-427, DIBL. 426-427
Apr 1964 464.9 PS6
Citrus, Citrus nematode, Plant disease resistance,
Rootstocks, Tylenchulus semipenetrans.
3076-67
NECATIVE REPORT ON THE EXISTENCE OF THE GOLDEN NEMATODE
(HETEROBERA ROSTOCHTENSIS VOLL) IN MEXICO.
A C Vela
Phytopathole 54(5):501
May 1964 464.8 PS6
Heterodera rostochiensis, Mexico.
3077-67
POPULATION DYNAMICS OF NEMATODES IN CRANBERRY SOILS.
B M Zuckerman S Khera A R Pierce
Phytopathole S(6):635-659
Jun 1964 464.8 PS6
Cranberries, Cranberry bogs, Nematode population,
Plant nematodes.

21 3078-67

30 LIVESTOCK PROTECTION

Diseases

3079-67

PINE NEEDLE ABORTION IN CATTLE. J S Tucker Amer Coll Vet Toxicoi Pr 35-39, TA85. 21 Mar 1961 391.9 AM3 Abortion, Cattle, Pine needles, Pinus ponderosa.

Arthropods

3080-67

HORN FLY CONTROL ON BEEF CATTLE BY THE USE OF CABLE RUBBERS. R C Dobson R C Peterson J Econ Entom 56(2):230-234 Apr 1963 421 J822 Beef cattie, Cable rubbers, Haematobia irritans, Insecticide application.
3081-67 HORN FLY CONTROL STUDIES IN MISSISSIPPI, 1961. R A Hoffman R H Roberts J Econ Entom 56(3):250-261 Jun 1963 421 J822 Chemicai control (insects), Haematobia irritans, Mississippi.
3082-67 CONTROL OF THE FACE FLY ON CATTLE WITH CO-RAL IN GRAIN AND ON PASTURE. C M Jones J G Medley J Econ Entom 56(2):214-215 Apr 1963 421 J822 Cattie, Coumaphos, Grain, Musca autumnaiis, Pastures, Systemic insecticides.
3083-67 TOXICOLOGICAL STUDIES ON DICHLORVOS FEED-ADDITIVE FORMU-LATIONS TO CONTROL HOUSE FLIES AND FACE FLIES IN CATTLE FECES. C W Pitts T L Hopkins J Econ Entom 57(6):881-884, TABS. Dec 1964 421 J822

Dec 1964 421 J822 Cattie, Dichlorvos, Feed additives, Manures, Musca autumnaiis.

40 COMMODITY PROTECTION

3084-67 THE COOLING OF HEATING GRAIN BY TRANSFER DURING COLD WEATHER. F L Watters J Econ Entom 56(2):215-219 Apr 1963 421 J822 Grain, Temperature, Weather.

Storage Diseases

3085-67 WATER CORE IN LADY VARIETY APPLES DURING STORAGE. M J Ceponis 8 A Friedman Piant Dis R 44(1):29-30 15 Jan 1960 1.9 P69P Apples, Lady apples, Storage, Water core (apples). 3086-67 186-67 2,6-DICHLORO-4-NITROANILINE USED IN ORCHARD SPRAYS, THE DUMP TANK, THE WET BRUSHER AND THE HYDROCOOLER FOR CONTROL OF RHIZOPUS ROT OF HARVESTED PEACHES. R H Daines Plant Dis R 49(4):300-304, TABS. 15 Apr 1965 1.9 P69P December Devices Det (contact) Peaches, Rhizopus spp., Rot (peaches), 2,6-dichioro-4-nitroaniline. 3087-67 THE EFFECT OF STORAGE TEMPERATURE AND OTHER FACTORS ON DECAY OF POTATO SEED PIECES. C J Eide Piant Dis R 49(7):638-640 Jul 1965 1.9 P69P Potatoes. Seed decay. Storage diseases. Storage temperature. 3088-67 PENICILLIUM DEVELOPMENT IN LEMONS TREATED WITH 2.6-DICHLO-RO-4-NITROANILINE. L G Houck Plant Dis R 49(8):715-719, TA8S. Aug 1965 1.9 P69P Lemons, Penicillium digitatum, Plant decay, 2,6-dichloro-4-nitroaniline. 3089-67 POSTHARVEST FUNGICIDE TREATMENTS FOR REDUCTION OF DECAY IN ANJOU PEARS. Piant Dis R 44(1):64-65 15 Jan 1960 1.9 P69P Anjou pears, Fungicides, Pears, Plant decay, Storage diseases. 3090-67 ENVIRONMENTAL INFLUENCES ON DEVELOPMENT OF GLUME BLOTCH IN WHEAT. A L Scharen Phytopatholo 54(3):300-303, 8I8L. 303 Mar 1964 464.8 P56 Glume blotch (wheat), Storage, Weather, Wheat. 3091-67 REDUCTION OF POSTHARVEST DECAY OF STRAWBERRIES WITH CHEMICAL AND HEAT TREATMENTS. W L Smith Jr J T Worthington III Piant Dis R 49(7):619-623, TABS. Jul 1965 1.9 P69P Chemical treatment, Heat treatment, Plant decay, Strawberries.

3094-67

Arthropods

3092-67

092-67 DETECTION 8Y ULTRAVIOLET LIGHT OF STORED-PRODUCT INSECTS IN-FECTED WITH MATTESIA DISPORA. W E 8urkhoider R J Dicke J Econ Entom 57(6):818-819 Dec 1964 421 J822 Insect diseases, Mattesia dispora Naviiie, Stored-product insects, Ultravioiet rays. 3093-67

PROTECTION OF WHEAT SEED WITH DIATOMACEOUS EARTH. R G Strong D E Sbur J Econ Entom 56(3):372-374 Jun 1963 421 J822 Diatomaceous earth, Plant protection, Stored-product insects, Wheat.

50 ENVIRONMENTAL CONTAMINATION

EFFECT OF VARIOUS HERBICIDES ON SOME SOIL FUNGI IN CULTURE.

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D C 86in
Piant Dis R 45(10):814-817, TA8S.
15 Oct 1961 1.9 P69P
Herbicides, Rhizoctonia, Sclerotium, Soil fungi.
 3095-67
    995-67
EFFECTIVENESS OF MIXTURES OF PYRIDINETHIOL DERIVATIVES AND
PCN8 (TERRACHLOR) FOR CONTROL OF A COMPLEX OF SOIL FUNGI.
G L Barnes R 5 Zerkei
Piant Dis R 45(6):426-431
15 Jun 1961 1.9 P69P
Omadine, Pentachioronitrobenzene, Pyridinethioi, Soii fungi.
3096-67
THE DISAPPEARANCE OF DIMETHOATE FROM SOIL.
     W R 80hn
J Econ Entom 57(6):798-799
     Dec 1964 421 J822
Dimethoate, Insecticide residues, Soii insecticides.
3097-67
IN VITRO EFFECTS OF STREPTOMYCES RIMOSUS ON SOME SOIL-IN-
HABITING PATHOGENIC FUNGI.
C C Chi E W Hanson
Plant Dis R 49(2):159-163
15 Feb 1965 1.9 P69P
Soli fungi, Streptomyces rimosus.
     PINE TREES NEAR POWER SUBSTATIONS DAMAGED BY UREA HERBI-
CIDES.
 3098-67
    CIDES.
R C Froeiich G A Snow
Piant Dis R 49(12):970-971
Dec 1965 1.9 P69P
Electric power generation, Herbicides, Phytotoxicity,
Pinus eliiotti, Urea, Urea herbicides.
3099-67
     EVALUATION OF TWO SOIL FUMIGANTS IN EASTER LILY BULB PRO-
    EVALUATION OF THE SECTION
DUCTION.
D L Giii J M Good
Plant Dis R 48(1):226-29
15 Jan 1964 1.9 P69P
Lilium longifiorum, Soli fumigation.
3100-67
              RESIDUES IN MOUNTAIN STREAM WATER AS INFLUENCED 8Y
    DDI RESIDUES IN HOUMINN SIREAM WRIEW AS INFOUNCED
TREATMENT PRACTICES.
A R Grzenda H P Nicholson J I Teasiey J H Patric
J Econ Entom 57(5):615-618, TA8S.
Oct 1964 421 J822
DDT , Insecticide application, Insecticide residues.
3101-67
SOIL FUNGICIDES FOR CONTROL OF PEA ROOT ROT IN GREENHOUSE
     TESTS.
J L Lockwood
    Piant Dis R 45(7):569-571
15 Jul 1961 1.9 P69P
Fungicides, Peas, Root rot (peas), Soii fumigation.
3102-67
    102-67
A PRELIMINARY REPORT ON TWO EXPERIMENTAL SOIL FUMIGANTS.
H L Rhoades
Piant Dis R 45(1):54-57, TA8S.
15 Jan 1961 1.9 P69P
EP-161, EP-162, Soii fumigation.
3103-67
    103-67
DISTRIBUTION AND PATHOGENICITY OF STRAINS OF PSEUDOMONAS
SOLANACEARUM FROM VIRGIN SOILS IN COSTA RICA.
L Sequeira C W Averre I II.
Piant Dis R 45(6):435-440, 818L. 439-440
15 Jun 1961 1.9 P69P
Bacteriai wiit (bananas), Costa Rica, Pathogenesis,
Pseudomonas solanacearum.
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5D 3ID4-67

3104-67 COMPARATIVE EFFECTIVENESS OF VARIOUS NEMATOCIDES IN THE CON-TROL OF ROOT KNOT IN MUCK SOIL. JD Wilson Piant Dis R 45(7):534-538 15 Jul 196I I.9 P69P Meloidogyne hapia, Muck soils, Nematocides, Root-knot nematode.

55 RESIDUES

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3105-67
   105-67
ABSCENCE OF RESIDUES IN MILK AFTER BARNS WERE SPRAYED WITH
DIMETHOATE.
T R Adkins Jr
J Econ Entom 56(I):II9
Feb 1963 421 JB22
Dimethoate, Insecticide residues, Miik, Spraying.
3106-67
    NOTE ON THE DETERMINATION OF RESIDUAL BROMINE IN ETHYLENE
DIBROMIDE-FUMIGATED CEREALS.
    DISKUMIDE-FUMIGATED CERCALS.
E Alumot A Bondi
J Sci Food A I3(I):42-43
Jan 1962 382 SU12
Bromine, Ethyjene dibromide, Fumigation, Grain,
Insecticide residues.
31D7-67
    107-67
VARIABILITY IN THE GROWTH PATTERNS OF SINGLE CELL CLONES OF
NORMAL AND GRAPE PHYLLOXERA GALL CALLUS IN VITRO.
H C Arya A C Hildebrandt A J Riker
Phytopothoio 52(1):I
Jan 1962 464.8 P56
Ciones, Normai phylioxera, Phylloxera vitifoilae,
Phylioxera vitifoilae.
31DB-67
PARATHION RESIDUE IN GREENS.
    L H Boiston R R Waiton
J Econ Entom 56(2):169-172
    Apr 1963 421 JB22
Christmas greens, Insecticide residues, Parathion.
3109-67
    SEVIN RESIDUES IN MILK FROM DAIRY COWS FOLLOWING DERMAL
    SEVIN RESIDUES IN MILK FRUM DAIRY COWS FOLLOWING
APPLICATIONS.
H B Camp J R Buttram K L Hays B W Arthur
J Econ Entom 56(3):402-404
Jun 1963 42I JB22
Carbaryi, Dairy cattie, Insecticide application,
Insecticide residues, Milk.
311D-67
    11D-67
THE TOXICITY OF INSECTICIDES TO LARVAE OF THE CODLING MOTH,
CYDIA POMONELLA (L.). II. MAINTENANCE OF A TOXIC DEPOSIT
IN THE FIELD.
M Gratwick J M Siliibourne R P Tew
Bull Entomoi R 56(2):377-388, TABS.
Dec 1965 421 887
Carpocapsa pomoneiia, Insecticide residues, Insecticides,
Toxicologu.
     Toxicology.
3111-67
    lll-67
INITIAL DEPOSIT AND DISAPPEARANCE RATES OF VARIOUS
INSECTICIDES AS AFFECTED BY FORAGE CROP SPECIES.
D D Hardee E W Huddleston G G Gyrisco
J Econ Entom 56(1):98-1DI
Feb I963 42I JB22
     Forage plants, Insecticide residues, Insecticides.
3112-67
     MULTIPLE RESIDUES OF SEVERAL CHLORINATED PESTICIDES ON
     PEARS.
U Kiigemagi L C Terriere
    56(3):343-344
Jun 1963
     Pears, Pesticides,
3113-67
     PROBLEMS RESULTING FROM THE MISUSE OF LINDANE FOR CHIGGER
CONTROL ON TURKEY RANGES AS RELATED TO RESIDUE EDIBLE
    TISSUES.
J Liska G C Mostert B E Langiois W J Stadeiman
J Econ Entom 57(5):682-683
Oct 1964 421 J822
Insecticide residues, Lindane, Trombiculidae, Turkeys.
```

60 3128-67

3114-67 SELECTIVE EFFECTS OF BARLEY RESIDUE ON FUNGI OF THE PINTO SELECTIVE FFECTS OF BARLET RESIDUE ON FONGI OF F BEAN ROOT-ROT COMPLEX. C R Maier Plant Dis R 45(10):B0B-B11, TABS. 15 Oct 1961 1.9 P69P Barley, Fusarium, Kidney beans, Root rot (beans), Soil fungi. 3115-67

PHOSPHAMIDON RESIDUE STUDIES ON VARIOUS CROPS. R E Menzer L P Ditman J Econ Entom 56(1):88-92 Feb 1963 421 JB22

Crops, Insecticide residues, Phosphamldon.

- 3116-67 RESIDUES IN BEEF FAT FOLLOWING HEPTACHLOR FEEDING. R D Radeleff P B Polen J Econ Entom 56(1):71-73 Feb 1963 421 JB22

Beef fat, Feed additives, Heptachlor, Insecticide residues. 3117-67

- RESIDUAL EFFECTIVENESS OF DUST AND GRANULAR FORMULATIONS OF PENTACHLORONITROBENZENE (PCNB). .
- JH Reinhart Plant D1s R 49(1):60-62 15 Jan 1965 1.9 P69P Insecticide residues, Pentachioronitrobenzene, Pesticide residues.
- 3118-67
- THE DISAPPEARANCE OF DIMETHOATE AND SD-7438 FROM ALFALFA. F R Shaw W H Ziener J Econ Entom 57(6):997-998 Dec 1964 421 JB22 Aifalfa, Dimethoate, Insecticide residues, SD-7438.

60 TOXICOLOGY

3119-67 TOXICITY OF NEW INSECTICIDES TO CORN EARWORMS ON SWEET CORN. L D Anderson H Nakakihara I M Haii J Econ Entom 56(1):40-42 Feb 1963 421 JB22 Heliothis zea, Insecticides, Sweetcorn. 3120-67 20-67 SODIUM USNATE AS AN ANTIGIOTIC FOR PLANT DISEASES. P A Ark A T Bottini J P Thompson Plant Dis R 44(3):200 15 Mar 1960 1.9 P69P Antibiotics, Sodium usnate, Toxicology. 3121-67 221-67 SUSCEPTIBILITY OF FOURTH-INSTAR ALFALFA WEEVIL LARVAE TO FORTY-ONE INSECTICIDES. M H Bass G H Blake Jr J Econ Entom 57(5):665-666 Oct 1966 421 J822 Hypera postica, Insecticides, Larvae, Larvicides. 3122-67 PROGRESS REPORT ON GRANULAR FORMULATIONS OF INSECTICIDES FOR CONTROLLING TERMITES. R H Beal V K Smith Jr J Econ Entom 57(5):771 Oct 1964 421 3822 Chemical control (insects), Insecticide application, Insecticide Toroltor Insecticides, Termites, 3123-67 123-67 A CONGENITAL DEFORMITY EXPERIMENTALLY PRODUCED IN CALVES 8Y FEEDING LUPINE AND LEAD. W Binns L F James K C Beeson R W Hoiley Amer Coli Vet Toxicol Pr 29-32 20 Aug 1961 391.9 AM3 Animal abnormaiities, Crooked calf disease, Lead acetate, Lupine, Lupinus sericeus. 3124-67 THE EFFECT OF SOME FUNGICIDES ON EUROPEAN RED MITE POPULATIONS IN MAINE. L W Boulanger J Econ Entom 56(3):298-300 Jun 1963 421 JB22 Fungicides, Maine, Panonychus uimi. 3125-67 125-67 FIELD TESTS WITH NEW INSECTICIDES FOR CONTROL OF THE SOUTHERN CORN ROOTWORM ATTACKING PEANUTS IN VIRGINIA. G M Boush M W Alexander W L Poweił J Econ Entom 56(1):15-18 Feb 1963 421 J822 Dlabrotica undecimpunctata howardi, Insecticides, Peanuts, Virginia. 3126-67 126-67 SYSTEMIC EFFECTIVENESS OF INSECTICIDES AGAINST BOLL WEEVIL LARVAE AND OTHER COTTON PESTS. U E Brady Jr J W Rawson B W Arthur J Econ Entom 56(1):74-76 Feb 1963 421 J822 Anthonomus grandis, Cotton, Systemic insecticides. 3127-67 127-67 CHANGES IN SERUM TRANSAMINASE ACTIVITIES ASSOCIATED WITH PLANT AND MINERAL TOXICITY IN SHEEP AND CATTLE. W B Buck L James W Binns Amer Coll Vet Toxicol Pr 13-24, 818L. 19-21, TABS. 21 Mar 1961 391.9 AM3 Aminotransferases, Toxicology. 3128-67 ABSORPTION AND METABOLISM OF DIMETHOATE IN THE BOLLWORM AND BOLL WEEVIL. D L Bull D A Lindquist J Hacskayio J Econ Entom 56(2):129-134 Apr 1963 421 JB22

60 3129-67 Absorption, Anthonomus grandis, Dimethoate, Heilothis zea, 3129-67 129-67 MISTBLOWER SPRAY TESTS FOR CONTROL OF THE BIRCH LEAF MINER. D P Connola R C Sweet J Econ Entom 57(6):1015 Dec 1964 421 JB22 Fenusa pusilia, Mist biowers. 3130-67 130-67 CONTROL OF THE WESTERN HARVESTER ANT, POGONOMYRMEX OCCIDEN-TALIS, WITH POISONED BAITS. H H Croweil J Econ Entom 56(3):295-29B Jun 1963 421 JB22 Insect traps, Pogonomyrmex occidentalis. 3131-67 THE IMMEDIATE AND LONG-TERM EFFECTS OF THE HERBICIDE MCPA ON SOIL ARTHROPODS. B N K Davis Buil Entomoi R 56(2):357-366, BIBL. 364-365, TABS. Dec 1965 421 BB7 Arthropoda, Herbicides, MCPA , Toxicology. 3132-67 FURTHER EVALUATION OF ANIMAL SYSTEMIC INSECTICIDES, 1963. R O Drummond J Econ Entom 57(5):741-745, TABS. Oct 1964 421 JB22 Systemic insecticides. 3133-67 TOXICOLOGICAL STUDIES ON THE EGYPTIAN COTTON LEAFWORM, PRODENIA LITURA. II. REVERSION OF TOXAPHENE RESISTANCE IN THE EGYPTIAN COTTON LEAFWORM. M E Eldefrawi A Toppeada A Salama S A Elkishen D L Ligerawi A loppozada A Salama S A Likisnen J Econ Entom 57(4):593-595, TABS. Aug 1964 421 JB22 Carbaryi, Egyptian cotton leafworm, Insecticide resistant insects, Toxaphene, Toxicology, Trichlorfon. 3134-67 TOXICOLOGICAL STUDIES ON THE EGYPTIAN COTTON LEAFWORM, PRODENIA LITURA. I. SUSCEPTIBILITY OF DIFFERENT LARVAL INSTARS OF PRODENIA TO INSECTICIDES. INSTARS OF PRODENTA TO INSECTICIDES. M E Eldefrawi A Toppozada N Mansour M Zeid J Econ Entom 57(4):591-593, TABS. Aug 1964 421 JB22 Egyptian cotton leafworm, Insecticides, Larvae, Toxicology. 3135-67 SOME EFFECTS OF TEMPERATURE, HUMIDITY, AGE, AND SEX ON THE TOXICITY OF DIELDRIN AND ETHION TO RESISTANT ONION MAGGOTS, HYLEMYA ANTIQUA. HYLEMYA ANTIQUA. H M Elmosa H L King J Econ Entom 57(5):649-650 Oct 1964 421 JB22 Environment, Ethion, Humidity, Insecticide resistant insects, Temperature, Toxicology. 3136-67 EXPERIMENTS OF CONTROL OF THE NORTHERN FOWL MITE. J D Foulk J G Matthysse J Econ Entom 56(3):321-326 Jun 1963 421 JB22 Chemicai control (insects), Ornithonyssus syiviarum. 3137-67 THE TOXICITY OF INSECTICIDES TO LARVAE OF THE CODLING MOTH, CYDIA POMONELLA (L.). I.- INTRINSIC TOXICITY AND PERSISTENCE. M Gratwick J M Sillibourne R P Tew Buil Entomol R 56(2):367-377 Dec 1965 421 BB7 Carpocapsa pomonelia, Insecticide residues, Insecticides, Toxicology. 3138 - 67TESTS OF CIODRIN AND OTHER MATERIALS AGAINST FACE FLY, MUSCA AUTUMNALIS. HUSCH AUTUHNALS. E J Hansens P Granett J Econ Entom 56(1):24-29 Feb 1963 421 JB22 Ciodrin, Insecticides, Musca autumnalis.

3139-67 EFFECTS OF SOME ANTIBIOTICS ON THREE APHID SPECIES. F H Harries V J Mattson J Econ Entom 56(3):412-414, TABS. Jun 1963 421 JB22 Antibiotics. 3140-67 INFLUENCE OF SOIL MOISTURE ON THE TOXICITY OF INSECTICIDES IN A MINERAL SOIL TO INSECTS. C R Harris J Econ Entom 57(6):946-950, BIBL. 949-950 Dec 1964 421 JB22 Insecticides, Insects, Soil moisture, Toxicology. 3141-67 CONTROL OF FIRST GENERATION SUGARCANE BORER POPULATIONS IN LOUISIANA. S D Hensley W H Long E J Concienne W J McCormick J Econ Entom 56(3):407-409 Jun 1963 421 JB22 Diatraea saccharalis, Insect population, Louisiana. 3142-67 CONTROL OF THE SOUTHWESTERN CORN BORER WITH AN EXPERIMENTAL CONTROL OF THE SOUTHWESTERN CORN BORER WITH AN EX SYSTEMIC INSECTICIDE. S D Hensley W Machado D R Meivilie J Econ Entom 57(6):1011 Dec 1964 421 JB22 Systemic insecticides, Zeadiatraea grandioseila. 3143-67 (43-67) LABORATORY STUDIES WITH SYSTEMIC INSECTICIDES FOR CONTROL OF THE ORIENTAL RAT FLEA ON WHITE RATS. A Hill Jr F W Knapp H Knutson J Econ Entom 56(3):390-394, TABS. Jun 1963 421 JB22 Systemic insecticides, Xenopsylla cheopis. 3144-67 FIELD EVALUATION OF INSECTICIDES FOR WOOLLY APPLE APHID CON-FIELD EVALUATION C. TROL. S C Hoyt J Econ Entom 57(6):1009 Dec 1964 421 JB22 Eriosoma lanigerum, Insecticides. 3145-67 145-67 COMPARATIVE TOXICITY OF SOME PHOSPHORAMIDOTHIDATES AND PHOS-PHORAMIDATES TO SUSCEPTIBLE AND ACARACIDE-RESISTANT STRAINS OF TETRANYCHUS PACIFICUS AND PANONYCHUS CITRI. L R Jeppson M J Jesser J O Complin J Econ Entom 57(6):B7B-BB1, TABS. Dec 1964 421 JB22 Insecticide resistant insects, Phosphoramidates, Phosphoramidothicates, Toxicology. 3146-67 NITRATE METABOLISM IN THE RUMINANT. Amer Coll Vet Toxicol Pr 9-13, BIBL. 12-13 1964 391.9 AM3 Metabolism, Nitrates, Nitrites, Ruminants. 3147-67 ADULT HOUSE FLY CONTROL WITH RESIDUAL TREATMENTS OF SIX ADGLI HOUSE FEF CONTROL WIT ORGANOPHOSPHORUS COMPOUNDS. J W Kilpatrick H F Schoof J Econ Entom 56(1):79-B1 Feb 1963 421 JB22 Insect aduits, Insecticide residues, Musca domestica, Organic compounds, Phosphorus compounds. 3148-67 CONTROL OF CERTAIN INSECTS AND MITES ON COTTON WITH THREE SYSTEMIC ORGANOPHOSPHORUS COMPOUNDS. T F Leigh J Econ Entom 56(3):326-333 Jun 1963 421 JB22 Cotton, Insects, Mites, Organic compounds, Phosphorus compounds, Systemic insecticides. 3149-67 149-67 IMPORTED FIRE ANT TOXIC BAIT STUDIES: EVALUATION OF CARRIERS FOR OIL BAITS. C S Lofgren F J Bartlett C E Stringer J Econ Entom 56(1):62-66 Feb 1963 421 JB22 Oii baits, Solenopsis saevissima richteri.

818LIOGRAPHY

3150-67 150-67 HEPTACHLOR DUST FOR CONTROL OF THE LEAF-CUTTING ANT SAUVA LIMAO, IN BRAZIL. F A M Mariconi J Econ Entom 57(6):797-798 Dec 1964 421 J822 Atta, Brazii, Heptachior. 3151-67 A NEW TOXICOLUGIONS ... FOULK, J D. J G Matthysse J Econ Entom 57(4):602-604 Aug 1964 421 J822 Mites, Toxicology. NEW TOXICOLOGICAL TEST METHOD FOR HAEMATOPHAGUS MITES. 3152-67 (52-67)
EFFECT OF VARIOUS INSECTICIDES IN THE CONTROL OF CATERPILLARS ATTACKING TOMATO IN CALIFORNIA.
₩ ₩ Middlekauff C 0 Gonzaies R C King J Econ Entom 56(2):155-158
Apr 1963 421 J822
California, Caterpillars, Insecticides, Tomatoes. 3153-67 153-67 EFFECTIVENESS OF ROTENONE AND PYRETHRINS WHEN MIXED WITH OTHER CHEMICALS FOR 80LL WEEVIL CONTROL. W J Mistric Jr J Econ Entom 57(5):765-766 Oct 1964 421 J822 Anthonomus grandis, Pyrethrum, Rotenone. 3154-67 EFFECT OF DDT AND TOXAPHENE ALONE AND IN COMBINATION ON SUCCINIC DEHYDROGENASE ACTIVITY IN HOMOGENATES OF THE BOLL WEEVIL. R F Moore Jr H M Taft J Econ Entom 57(5):772-773 Oct 1964 421 J822 Anthonomus grandis, DDT , Succinic dehydrogenase, Toxaphene. 3155-67 EFFECTIVENESS AND RESIDUAL ACTIVITY OF NEW COMPOUNDS IN SOIL AGAINST THE EYE GNAT, HIPPELATES COLLUSOR. M S Mula J Econ Entom 57(6):873-878, TA8S. Dec 1964 421 J822 Insecticide residues, Soil insecticides. 3156-67 ACTIVITIES OF NEW INSECTICIDES AGAINST ADULTS OF HIPPELATES COLLUSOR AND H. PUSIO. M S Mulia J Econ Entom 56(1):47-50 Feb 1963 421 J822 Insecticides. 3157-67 FIELD STUDIES ON THE EFFECTS OF INSECTICIDES ON SOME AQUATIC WILDLIFE SPECIES. M S Mulia L W Isaak H Axelrod J Econ Entom 56(2):184-188 Apr 1963 421 J822 Aquatic animals, Insecticides. 3158-67 BRACKEN POISONING. O H Muth Amer Coil Vet Toxicoi Pr 25-28, 818L, 27-28 20 Aug 1961 391.9 AM3 Pteridium. ' 3159-67 59-67 FIELD EVALUATION OF SOME NEW INSECTICIDES FOR THE CONTROL OF THE PEA APHID ON ALFALFA. L R Nault D D Hardee G G Gyrisco J Econ Entom 57(5):771-772 Oct 1964 421 J822 Acyrthosiphon pisum, Alfalfa, Insecticides. 3160-67 LARGE ANIMAL TOXICOLOGICAL PROBLEMS. Amer Coll Vet Toxlcol Pr 55-59 1964 391.9 AM3 J Econ Entom 57(5):761 Oct 1964 421 J822 Ergot poisoning, Festuca, Lead poisoning, Livestock diseases, Nightshade poisoning, Oak poisoning, Pigweed, Salt poisoning, Toxicology, Urea poisoning. Fenusa pusilia, Systemic insecticides.

3161-67 TOXICITY TO SHEEP OF THREE FUNGICIDAL COMPOUNDS (CAPTAN, CERESAN M, AND ZINE8). J S Paimer Amer Coii Vet Toxicol Pr 5-8, TA8S. 1964 391.9 AM3 Captan, Ceresan, Fungicides, Sheep, Zineb. 3162-67 162-67 CARGARVL TOXICITY SYMPTOMS ON SOYBEANS. M 8 Parker Jack Taylor Plant Dis R 49(2):168-169 15 Feb 1965 1.9 P69P Carbaryl, Soybeans, Toxicology. 3163-67 EFFECTIVENESS OF INSECTICIDES AGAINST WHITE GRUBS IN BLUE-GRASS LAWNS. 8 C Pass J Econ Entom 57(6):1002-1003 Dec 1964 421 J822 Insecticides, Poa, White grubs. 3164-67 VAPORIZED DICHLORVOS FOR CONTROL OF ARTHROPOD PESTS IN GREENHOUSES. 8 C Pass R Thurston J Econ Entom 57(6):832-834 Dec 1964 421 J822 Dichlorvos, Greenhouses, Insect pests, Insecticidal aerosols, Pest control. 3165-67 LO-67 THE ANTIMETABOLITE, IMIDAZOLE AS A PESTICIDE. R J Pence J Econ Entom 56(1):1-7 Feb 1963 421 J822 Antimetabolites, Imidazole, Pesticides. 3166-67 SHEEP BOT FLY CONTROL TESTS. R E Pfadt J Econ Entom 57(6):928-931 Dec 1964 421 J822 Destrus ovis. 3167-67 CONTACT TOXICITIES OF 22 INSECTICIDES TO THE COCOA MIRID DISTANTIELLA THEO8ROMA(DIST.) (HEMIPTERA, MIRIDAE). G Pring Serins Sull Entomol R 56(2):231-235, 818L. 234-235 Dec 1965 421 887 Cocoa mirid, Insecticides, Toxicology. 3168-67 POUR-ON TREATMENTS OF DDT OR TOXAPHENE FOR HORN FLY CONTROL CURINGL. W M Regoff P H Kohler S D Hintz J Econ Entom 56(1):82-83 Feb 1963 421 J822 DDT , Haematobia Irritans, Insecticide application, Toxaphene. AERIAL APPLICATION OF INSECTICIDES TO CONTROL SPRING INFEST-ATIONS OF THE CEREAL LEAF BEETLE ON SMALL GRAINS. R F Ruppel M C Wilson J Econ Entom 57(6):899-903, BIBL. 903, TABS. Dec 1964 421 J822 3169-67 Aerial spraying, Cereal leaf beetle, Insectleides, Oats, Wheat. 3170-67 CONTROL OF THE STRAWBERRY LEAF ROLLER, ANCYLIS COMPTANA FRAGARIAE (LEPIDOPTERA: TORTRICIDAE). G A Schaefers J Econ Entom 57(6):983-986 Dec 1964 421 J822 Ancylis comptana fragariae. 3171-67 CONTROL OF BIRCH LEAF MINER WITH SYSTEMICS. J C Schread

PAGE 57

60 3171-67

60 3172-67 3172-67 LATENT TOXICITY OF INSECTICIDES TO RESISTANT AND SUSCEPTIBLE J Econ Entom S7(6):835-837 Dec 1964 421 J822 Cereai icaf beetie, Insecticides, Predaceous insects. STRAINS OF THE HOUSE FLY M Sherman F F Sanchez I Sherman F r Sanchez J Econ Entom S7(6):842-84S, TA8S. Dec 1964 421 J822 Insecticide resistant insects, Insecticides, Musca domestica. 3173-67 (73-67 A VERANDAH-TRAP HUT FOR STUDYING THE HOUSE-FREQUENTING HABITS OF MOSQUITOS AND FOR ASSESSING INSECTICIDES. II. THE EFFECT OF DICHLORVOS (DDVP) ON EGRESS AND MORTALITY OF ANOPHELES GAMBIAE GILES AND MANSONIA UNIFORMIS (THEO.) ENTERING NATURALLY. A Smith 8uii Entomoi R 56(2):275-282, TABS. Dec 1965 421 B87 Culicidae, Dichlorvos, Insect behavior, Insect traps, Insecticides. 3174-67 FLUOROSIS IN LIVESTOCK. Suttie J W Amer Coli Vet Toxicol Pr 64-68, TABS. 1964 391.9 AM3 Fluorosis, Livestock. 3175-67 TOTICOLOGICAL STUDIES ON THE EGYPTIAN COTTON LEAFWORM, PRODENIA LITURA. III. A MODIFIED TECHNIQUE FOR TESTING THE STOMACH-POISONING EFFECT OF INSECTICIDES OF LEAF-FEEDING THE STUMACH-POISONING EFFECT OF INSECTICIDES OF LEAF-FEEDI LARVAE. A Toppozada A Saiama S Hassan M E Eidefrawi J Econ Entom S7(4):S9S-597 Aug 1964 421 J822 Egyptian cotton leafworm, Insecticides, Larvae, Poisoning, Toxicology. 3176-67 176-67 EVALUATION OF SOME CHEMICALS AS FEED ADDITIVES TO CONTROL FACE FLY LARVAE. R E Treece J Econ Entom 57(6):962-963 Dec 1964 421 J822 Feed additives, Insecticides, Larvae, Musca autumnalis. 3177-67 EFFECT OF DDT ON PINK BOLLWORM POPULATIONS. C H Taso W L Lowry J Econ Entom 56(3):388-390 Jun 1963 421 J822 DDT , Insect populations, Pectinophora gossypielia. 3178-67 (78-67 RESIDUAL AND TOPICAL TOXICITY OF CERTAIN INSECTICIDES TO LA80RATORY-REARED FACE FLIES. E C Turner Jr C M Wang J Econ Entom S7(5):716-719, TABS. Oct 1964 421 J822 Insecticide residues, Insecticides, Musca autumnalis, Toxicologu. Toxicology. 3179-67 OBSERVATIONS OF SOME INSECTS AFTER TREATMENT WITH ZINOPHOS. UBSERVATIONS OF SUME INSEC 8LANCHARD, R A. J Econ Entom S7(5):786-787 Oct 1964 421 J822 Insects, Zinophos. 3180-67 180-67 THE SYSTEMIC INSECTICIDAL ACTION OF SHELL OS-1836 AND 8IDRIN ON SEVERAL INSECTS ASSOCIATED WITH CONIFERS. D D Waigenbach G C Becker Jr W H Kearby D M Benjamin J Econ Entom S7(S):764-76S Oct 1964 421 J822 8idrin, Sheii OS-1836. 3181-67 181-67 PARAFFINIC AND NAPHTHENIC OIL FRACTIONS IN COMBINATION WITH DDT AND A HELIOTHIS VIRUS FOR CORN EARWORM CONTROL. D A Woifenbarger J Econ Entom S7(S):732-735, 818L. 735, TA85. Oct 1964 421 J822 DDT , Heilothis zea, Paraffin oiis, Polyhedroses. 3182-67 TOXICITY OF INSECTICIDES TO A COCCINELLID PREDATOR OF THE CEREAL LEAF 8EETLE. Y M Yun R F Ruppel PAGE S8

6S 3203-67

65 PLANT PHYSIOLOGY & BIOCHEMISTRY

3183-67 REPORT AND AGSTRACTS OF THE 1963 ANNUAL MEETING OF THE NORTHEASTERN DIVISION OF THE AMERICAN PHYTOPATHOLOGICAL SOCIETY. Phytopatholo 54(2):127-129 Feb 1964 464.B PS6 Abstracts, Phytopathology. 3184-67 STORAGE OF FUNGICIDE-TREATED PEA AND CUCUMBER SEEDS. D J dezeeww R A Davis R A Crum Piant Dis R 45(7):S44-547 15 Jul 1961 I.9 P69P Cucumbers, Fungicides, Peas, Seed treatment, Storage. EXTENDED CULTURING OF SCLEROTINIA CAMELLIAE. D M Aiford J B Sinclair Phytopatholo 52(1):1 Jan 1962 464.8 P56 Culture media, Sclerotinia cameliiae Hara. 3186-67 CHANGES IN PLANT GROWTH WITH CHEMICALS USED AS SOIL FUMI-GANTS. J Aitman K M Tsue Plant Dis R 49(7):600-602 Jul 1965 I.9 P69P Plant physiology, Soil fumigation, I,3-dichloropropene-I,2-dlchloropropane. 3187-67 A COMPARISON OF TWO RINGSPOT-RELATED VIRUSES FROM RED KIDNEY 8EANS. A L Andersen D Huber Phytopatholo 52(I):I Jan 1962 464.8 P56 Kidney beans, Ring spot (tobacco). 31BB-67 PLATE-PROFILE TECHNIQUE FOR ISOLATING AND STUDYING ACTIVI-TIES OF SOME SOIL MICROORGANISMS. A L Andersen D Huber Phytopatholo S2(1):1 Jan 1962 464.8 PS6 Mlcrotechnlque, Soil fungl, Soil microorganlsms. 3189-67 PREVALENCE AND DISTRIBUTION OF PATHOGENIC RACES OF PIRICULARIA ORYZAE IN THE U. S. J G Atkins Phytopatholo S2(1):2 Jan 1962 464.8 PS6 Piricularia oryzae, Plant geography, Rice, Unlted States. 3190-67 EFFECTS OF PEA APHID ON BLACKSTEM SEVERITY IN ALFALFA. EFFECTS OF PEA AFRID ON GLACKSTER SEVERITI IN ALFALFA. E 8 anttari R D Wiloxson Phytopatholo 52(1):2 Jan 1962 464.8 P56 Acyrthosiphon pisum, Aifalfa, Blackstem, Plant resistance. 3191-67 PATHOGENICITY TEST WITH DIFFERENT ISOLATES OF CERATOCYSTIS FIM8RIATA. C D Barba A J Hanser Phytopatholo 52(1):2 Jan 1962 464.8 P56 Ceratocystls flmbriata, Microorganisms. 3192-67 FACTORS AFFECTING THE PATHOGENICITY OF PELLICULARIA FILAMENTOSA. K R Barker J C Waike: Phytopatholo 52(1):2 Jan 1962 464.8 P56 Microorganisms, Peilicularia filamentosa.

3193-67 AN EXAMINATION OF VEGETATIVE RECOMBINATION OF UREDIOSPORF COLOR AND VIRULENCE IN MIXTURES OF CERTAIN RACES OF COLDR AND VIRULENCE IN MIXTURES O PUCCINIA RECONDITA. R Barr R M Caidwell R H Amacher Phytopatholo 54(1):104-109, TA8S. Jan 1964 464.8 DS6 Puccinia recondita. 3194-67 PECTIC ENZYMES ASSOCIATED WITH RHIZOCTONIA-INFECTED TISSUES OF 8EAN D F Bat Bateman Phytopatholo S2(1):2 Jan 1962 464.8 PS6 Enzymes, Kidney beans, Kidney beans, Pectins, Rhizoctonia solani Kuhn. 3195-67 PRODUCTION OF A RED PIGMENT BY A MUTANT OF HELMINTHOSPORIUM HALODES. G A 8ean Phytopatholo 52(1):2-3 Jan 1962 464.8 PS6 Helmlnthosporium haiodes, Mutation, Plgments (plant). 3196-67 BASIS FOR HOST SPECIFICITY AMONG VASCULAR INVADERS OF BANANA ROOTS. C H 8eckman S Halmos Phytopatholo S2(1):3 Jan 1962 464.B PS6 8ananas, Wiit (bananas). 3197-67 INFLUENCE OF GAMMA RADIATION DOSE RATE ON DECAY OF CITRUS, PEARS, AND PEACHES. L Beraha Phytopatholo 52(1):3 Jan 1962 464.8 PS6 Citrus, Gamma rays, Peaches, Pears, Radioactive contamination. 319B-67 HOST-PARASITE STUDIES ON RENIFORM NEMATODE ON COTTON. W Birchfield W Directions Phytopatholo S2(1):4 Jan 1962 464.B P56 Cotton, Nematodes, Parasitism, Rotyienchulus reniformis. 3199-67 PERMEABILITY CHANGES ASSOCIATED WITH VICTORIA BLIGHT OF DATS. H S Black H Wheeler Phytopatholo 52(1):4 Jan 1962 464.B P56 Dats, Permeability, Victoria blight (oats). 3200-67 STUDIES OF TRICAR80XYLIC ACID CYCLE INTERMEDIATES IN SAFFLOWER INFECTED WITH PUCCINIA CARTHAMI. M L Bolar Phytopatholo 52(1):4 Jan 1962 464.8 P56 Pucclnia carthaml, Saffiower, Tricarboxyilc acid cycle. 3201-67 SYSTEMIC ACQUIRED RESISTANCE AGAINST TOBACCO MOSAIC VIRUS RESULTING FROM LOCALIZED INFECTIONS BY THIELAVIOPSIS BASICOLA IN TOBACCO LEAVES. BASICOLA IN TOBACCU LLAVES. R F Bozarth E I Hecht A F Ross Phytopatholo 52(1):4 Jan 1962 464.8 P56 Mosaic (tobacco), Plant disease resistance, Thieiaviopsis basicoia, Tobacco. 3202-67 202-67 COLD-INDUCED DORMANCY AND ITS REVERSAL IN UREDOSPORES OF PUCCINIA GRAMINIS VAR. TRITICI. K R Bromfield Phytopatholo 54(1):6B-74 Jan 1964 464.8 P56 Plant dormancy, Piant temperature, Puccinia graminis, Spores, Tritici. 3203-67 RESISTANCE IN OATS TO BARLEY YELLOW DWARF VIRUS (BYDV) IN WASHINGTON. G W Bruchl V D Damsteegt H M Austenson Phytopathoio S2(1):4-S

818LIOGRAPHY

6S 32D4-67 Jan 1962 464.8 PS6 Dats, Plant discase resistance, Washington, Yeliow dwarf (barley). 3204-67 EFFECTS OF ETAMYCIN UPON SEEDLING GROWTH AND CHLOROPHYLL PRODUCTION. A P Ccrcos Phytopatholo S4(6):741 Jun 1964 464.B PS6 Plant regulators. 320S-67 EFFECT OF HETERODA TRIFOLI ON THE GROWTH OF TRIFOLIUM PRATENSE AND T. REPENS. R A Chapman Phytopatholo S2(1):6 Jan 1962 464.8 PS6 Heteroda trifoil, Red clover, White clover. 3206-67 106-67 INDUCED MUTATION AND CYTOLOGICAL INVESTIGATIONS IN HEL-MINTHOSPORIUM ORYZAE. S B Chattopadhyay J G Dickson Phytopatholo S0(6):439-442, BIBL., 441-442 Jun 1960 464.8 PS6 Helminthosporium oryzae, Plant cytology, Plant mutation. 32D7-67 INFLUENCE OF TRANSIENT CAPILLARIES ON THE ENZYMATIC DEGRADA-TION OF PLANT CELL WALLS. E B Cowling Phytopatholo S2(1):6 Jan 1962 464.8 PS6 Capillarics, Cell wall, Enzymos, Plants. 3208-67 208-67 ATTRACTION OF APHANOMYCES EUTEICHES 200SPORES TO HOST AND NONHOST ROOTS. J L Cunningham D J Hagedorn Phytopathoio S2(1):7 Jan 1962 464.8 PS6 Aphanomyces eutelehes, Host Indexing (plants), Roots. 32D9-67 HOST-PARASITE RELATIONSHIPS OF PEA ROOTS PENETRATED BY 200SPORES OF APHANOMYCES EUTEICHES. J L Cunningham D J Hagedorn Phytopatholo S2(1):7 Jan 1962 464.8 PS6 Aphanomyces eutelches, Host indexing (plants), Peas. 321D-67 THE VALUE OF PLANT-GROWTH REGULATORS IN A BASAL MEDIUM FOR ISOLATING SOIL FUNGI. E A Curl Phytopatholo S4(6):621 Jun 1964 464.B PS6 Plant regulators, Soli fungi. 3211-67 11-67 SIQLOGICAL ACTIVITY OF THE GOLDEN NEMATODE HATCHING FACTOR. INFLUENCE ON ASPERGILLUS AWAMORI METABOLISM. R V Dahlstrom W V Hartwell A L Neal Phytopatholo S4(1):36-39 Jan 1964 464.8 PS6 Aspeglilus awamori, Heterodera rostochiensis, Nematode morphology, Plant metabolism. 3212-67 ABSORPTION OF GAS BUBBLES IN CUTTINGS AND INJECTED STEMS. A E Dlmond Phytopathoio S2(1):7 Jan 1962 464.B PS6 Absorption, Flowers, Gases, Stems. 3213-67 WILT PATHOGENS AND DXYGEN LEVELS IN TRACHEAL FLUID OF STEMS. A E Dimond Phytopatholo S2(1):7 Jan 1962 464.B PS6 Oxygen, Tracheal fluids, Wilt. 3214-67 ELECTRON TRANSPORT SYSTEM IN FUNGAL CELL-FREE EXTRACTS. W M Dowler P D Shaw D Gottlieb Phytopatholo S2(1):8 Jan 1962 464.8 PS6 Electron transport, Fungi.

3215-67 215-67 GERMINATION OF OOSPOPES OF PERONOSPORA MASHURICA. J Dunieawy G Snyder Phytopatholo S2(1):8 Jan 1962 464.8 PS6 Peronospora mashurica, Seed germination. 3216-67 216-67 ADAPTED TOLERANCE TO ORGANIC FUNGICIDES BY ISOLATES OF RHI-ZOCTONIA SOLANI FROM SEEDLING COTTON. H M Elsald J R Sinclair Phytopatholo S4(5):S18-S22 May 1964 464.8 PS6 Adaptation (psychological), Cotton, Fungleides, Rhizoctonia solani. 3217-67 CULTURE MEDIA FOR SPORANGIAL PRODUCTION IN PHYTOPHTHORA FRAGARIAE. E L Fellx Phytopatholo S2(1):9 Jan 1962 464.8 P56 Culture medla, Phytophthora fragariae, Red stele (strawberries), Sporangium. 3218-67 218-67 PHYSICO-CHEMICAL STUDIES ON AGRICULTURAL SPRAYS. IV. THE RETENTION OF SPRAY LIQUIDS ON LEAF SURFACES. C G L Furnldge J ScI Food A 13(2):127-14D Feb 1962 3B2 SO12 Agriculture, Leaves, Physical chemistry, Spray retention, Spraylng. 3219-67 GENETICAL AND CYTOLOGICAL STUDIES OF PHYTOPHTHORA CAPSICI. J Gallado A. Phytopatholo S4(S):498-499 May 1961 464.B PS6 Cytology, Genetics, Phytophthora capsici. 322D-67 PENETRATION OF EXCISED APPLE CUTICLE BY RADIOACTIVE ORGANIC PENEIRATION OF EXCISED APPLE CUTICLE BY RADIDACTIVE UNGA AND INORGANIC COMPOUNDS. R N Goodman S K Addy Phytopatholo 52(1):11 Jan 1962 464.8 PS6 Apples, Cuticle, Inorganic chemistry, Organic compounds, Radioactive substances. 3221-67 APICAL NECROSIS IN ORNAMENTAL FOLIAGE PLANTS CAUSED BY RAPID TEMPERATURE CHANGES. O Graham Plant Dls R 4S(1):41 IS Jan 1961 1-9 P69P Ornamental plants, Plant Injuries, Plant temperature. ANTIBIOTIC ACTIVITY OF PEAR LEAVES AGAINST ERWINIA AMY-LOVORA AND ITS RELATION TO 8ETA-GLUCOSIDASE. D C Hildebrand M N Schroth Phytopatholo S4(1):S9-63 Jan 1964 464.B PS6 Antiblotics, 8eta-glucosidase, Erwinia amylovora, Leaves, Pears. 3223-67 DOGENESIS AND REPRODUCTION IN HETERODERA GLYCINES AND H. UDGENESIS AND REPRODUCTION IN H TRIFOLI H Hirschmann A C Triantaphyllou Phytopatholo S2(1):13 Jan 1962 464.8 PS6 Dogenesis, Reproduction. 3224-67 224-67 INFLUENCE OF NITROGEN AND POTASSIUM ON SUSCEPTIBILITY OF CHRYSANTHEMUM MORIFOLIUM TO BOTRYTIS CINEREA. E L Hobbs W E Waters Phytopatholo S4(6):674-676, TABS. Jun 1964 464.B PS6 Botrytis cinerea, Chrysanthemum morifolium, Nitrogen, Potassium Potassium. 3225-67 INDUCED HYBRIDIZATION BETWEEN GRAMINICOLOUS SPECIES OF USTILAGD. J A Hoffman G W Fischer Phytopatholo S2(1):14 Jan 1962 464.8 PS6

6S 3247-67

Breeding, Immunization, Ustilago. 3226-67 STIMULATION OF A NEW RHIZOCTONIA SPECIES BY STRAWBERRY ROOT EXUDATES. S S Husain W E McKeen Phytopatholo S2(1):I4-15 Jan 1962 464.B P56 Rhizoctonia, Roots, Stimulants, Strawberries. 3238-67 3227-67 DYRENE PHYTOTOXICITY EFFECTS ON TOMATO. DYNEME PHILIDIAL J P Jones Plant Dis R 45(3):16B-172 15 Mar 1961 1.9 P69P Dyrene, Phytotoxicity, Tomatoes. 322B-67 EFFECT OF PLATING MEDIUM AND INCUBATION TEMPERATURE ON THE GROWTH OF FUNGI IN SOIL-DILUTION PLATES. D D Kaufman L E Wiiliams Phytopatholo 52(1):16 Jan 1962 464.B P56 Culture media, Fungi, Plant regulators, Plant temperature, Soli chemistry. 3240-67 3229-67 ROOT INFECTION IN RELATION TO SPREAD OF PSEUDOMONAS SOLANACEARUM. A Keiman L Sequeira Phytopatholo S2(I):16 Jan 1962 464.B PS6 Plant disease transmission, Pseudomonas solanacearum, Roots. 3241-67 3230-67 20007 DIFFERENTIATION OF USTILAGO HORDEI RACES ON SEVERAL MEDIA. R L Kiesling Phytopathoio 52(1):16 Jan 1962 464.B P56 Cuiture media, Plant taxonomy, Ustilago hordei. 3231-67 EFFECT OF SEED-TREATMENT FUNGICIDES ON GRAIN YIELD AND STANDS OF WINTER AND SPRING WHEAT. C R Kohde L H Purdy Piant Dis R 45(7):522-526, TABS. 15 Jul 1961 I.9 P69P Crop yields, Fungicides, Grain, Seed treatment, Wheat. 3242-67 3232-67 EFFECT OF FUNGITOXIC COMPOUNDS ON THE PERMEABILITY OF YEAST 3243-67 CELLS TO THE PROVATE ION. H D Kottke H D Sisier Phytopathol S2(I):17 Jan 1962 464.B PS6 Permeabliity, Pyruvic acid, Toxicology, Yeasts. 3233-67 2.4-d. 233-67 A LONG TERM EXPERIMENT FOR PRESERVATION OF UREDIOSPORES OF PUCCINIA GRAMINIS TRITICI IN LIQUID NITROGEN. W Q Loegering H H McKinney D L Harmon W A Clark Plant Dis R 45:384-3BS IS May 1961 1.9 P69P Liquefled gases, Nitrogen, Puccinia graminis tritici, Refrigeration equipment, Uredlospores. 3244-67 INFLUENCE OF VARIOUS NITROGEN AND LIGHT SOURCES ON SOME INFLUENCE OF VARIOUS MITHOGEN AND LIGHT SOURCES ON SOME CULTURAL CHARACTERS OF FUSARIUM OXYSPORUM F. LYCOPERSICI. A Mahadevan N E Caroselli Plant Dis R 45(12):965-967 15 Dec 1961 1.9 P69P Culture media, Fungi, Fusarium oxysporum f. lycopersici, Light, Nitrogen. 3245-67 3235-67 INOCULUM CONCENTRATION AND PRODUCTION OF PERITHECIA BY GNOMONIA FRUCTICOLA IN CULTURE. 3246-67 K C McOnle Phytopatholo 54(4):490-491 Apr 1961 464.B P56 Culture, Gnomonia fructicola, Perithecia. 3236-67 VIOLENT SPORE RELEASE IN STEMPHYLIUM BOTRYOSUM WALLR. S Meredith Piant Dis R 49(12):1006 Dec 1965 1.9 P69P 3247-67 Fungi, Spores, Stemphylium botryosum Wallr..

3237-67 FREON-113 AS A DISPERSAL MEDIUM FOR UREDIOSPORES OF PUCCIN-IA GRAMINIS VAR. TRITICI. Wm E Miller VM E Hiler Plant Dis R 49(3):26B 18 Mar 1965 1.9 P69P Freon, Puccinia graminis var. tritici, Urediospores. 23B-67 INFLUENCE OF NUTRITION AND SOIL MOISTURE ON DEVELOPMENT OF CORTICIUM RED THREAD OF PENNLAWN AND RAINIER RED FESCUES. R R Muse H B Couch Phytopatholo 54(2):129 Feb 1964 464.B P56 Festuca, Festuca rubra, Piant nutrition, Soil moisture. 3239-67 RELATION OF CHLOROGENIC ACID AND FREE PHENOLS IN POTATO RELAIIUN UF CHLURUGENIC ACID AND FREE PHENOLS ROOTS TO INFECTION BY VERTICILLIUM ALBO-ATRUM. S S Patili R L Powelson R A Young Phytopatholo 54(5):531-535, TABS. May 1964 464.B PS6 Chlorogenic acids, Phenois, Potatoes, Roots, Verticillium albo-atrum. 240-67 BORON DEFICIENCY EVIDENT IN OREGON HOLLY ORCHARDS. A N Roberts R L Ticknor O C Compton Plant Dis R 45(B):634-635 15 Aug 1961 1.9 P69P Boron, Ilex, Iley aquifolium, Plant nutritional deficiencies. IRISH POTATO SEED PIECE TREATMENT WITH VARIOUS CHEMICALS. JB Sinclair Plant Dis R 45(B):625-627 15 Aug 1961 1.9 P69P Agri-mycin-S00, Captan, Dyrene, Irish potato, Pentachloronitrobenzene, Phytotoxicity, Potassium glbbereliate, Seed treatment, Zineb, Ziram. SEED DISINFECTATION WITH PHENACRIDANE CHLORIDE, A BROAD-SEED DISINFLEIATION WITH PHENACHIDANE CHURIDE, A BROAD-SPECTRUM BACTERICIDE-FUNGICIDE. B C Smale M D Montgillion E H Toole Plant Dis R 4S(12):933-937, PL. 15 Dec 1561 1.9 P69P Acrizane chioride, Bactericides, Fungicides, Seed treatment. GROWTH-REGULATING PROPERTIES OF DEUTERATED 2,4-DICHLORO-PHENOXYACETIC ACID. M S Smith J Sci Food A 13(1):48-52 Jan 1962 382 5012 Deuterium, Isotopes, Plant physiology, Plant regulators, GERMINATION OF GRAIN SORGHUM AND SUDAN GRASS SEEDS AFTEP GEMEINATION WITH METHYL BROMDE AND SUDAN GRASS SEEDS A FUMIGATION WITH METHYL BROMDE AND HYDROCYANIC ACID. R G Strong D L Lindgren J Econ Entom S6(2):144-149 Apr 1963 421 JB22 Fumigants, Hydrocyanic acid, Methyl bromide, Seed germination, Sorghum, Sorghum vulgare sudanense. 245-67 PROLONGING THE MATILITY AND VIRUS-TRANSMITTING ABILITY OF OLPIDIUM ZOOSPORES WITH CHEMICALS. D S Teakie A H Gold Phytopatholo 54(1):29-32 Jan 1964 464.B P56 Necrosis (tobacco), Olpididium, Plant disease transmission, Plant physiology, Virus diseases (plants), Zoospores. RELATIONS OF VARIETY, TEMPERATURE, AND SEED IMMATURITY TO PRE-EMERGENCE DAMPING-OFF OF CASTORBEAN. A Thomas Phytopatholo S0(6):473-474 Jun 1960 464.B P56 Castorbeans, Damping-off (castorbeans), Seed analysis, Seed germination, Temperature. EFFECT OF PHOTOPERIOD AND NITROGEN ON REACTION OF SESAME TO PSEUDOMONAS SESAMI AND XANTHOMONAS SESAMI. C A Thomas

Plant Dis R 49(2):119-120 15 Feb 1965 1.9 P69P Nitrogen, Photoperiodism, Sesame. 3248-67 VERMICULITE MEDIA FOR GROWING FUNGI. E H Varney Piant Dis R 45(5):393 15 May 1961 1.9 P69P Cuiture media, Fungi, Soii fungi, Vermiculite. 3249-67 249-67 OBSERVATIONS ON RESPONSE OF GREENHOUSE-GROWN COTTON TO EX-CESSIVE DOSAGES OF PHOSPHATE INSECTICIDES. J K Walker Jr J Hacskaylo E G Pires J Econ Entom 57(5):782-783 Oct 1964 421 J822 Cotton, Greenhouse culture, Insecticides, Phosphates. 3250-67 REVERSAL OF FUNGITOXICITY OF 8-QUINOLINOL BY AMINO ACIDS REVERSAL OF FUNGITOXICITY OF 8-QUINDLINDL BY AMINO ACI AND OTHER CHELATORS. G A Zentmyer 5 Rich J G Horsfall Phytopatholo 50(6):421-424, TABS. Jun 1960 464.8 P56 Amino acids, Chelatometry, Toxicology, 8- quinolinol. 3251-67 REDUCTION OF FROST INJURY IN CRANSERRIES BY FUNGICIDE TREAT-MENTS. MENTS. 8 M Zuckerman Plant Dis R 45(4):253-254 15 Apr 1961 1.9 P69P Cranberries, Frost, Fungicides, Plant injuries.

70 CHEMISTRY

3252-67 252-67 AN EVALUATION OF CERTAIN FUNGICIDES FOR VOLATILITY, TOXICITY AND SPECIFICITY USING A DOUBLE PETRI DISH DIFFUSION CHAM-BER. A J Lathan M 9 Linn Piant Dis R 49(5):398-400 15 May 1965 1.9 P69P Diffusion chamber, Fungicides.

65 3248-67

B0 3273-67

80 ENGINEERING

3264-67 3253-67 253-67 A T -HEAD INDCULATOR FOR LOCAL-LESION ASSAY OF VIRUSES. D J deZeeuw L W Timmer Phytopatholo 54(2):196-19B, TA8S. Feb 1964 464.8 P56 T -head inoculator, Assay, Black cowpeas, Ring spot (tobacco), Viruses. 3265-67 3254-67 254–67 EVALUATION OF SOME FACTORS AFFECTING THE EFFICENCY OF LIGHT TRAPS IN COLLECTING MOSQUITOES. A R Barr T A Smith M M Boreham K E White J Econ Entom 56(2):123-127 Apr 1963 421 JB22 Culicidae, Insect collecting equipment, Light traps. 3266-67 3255-67 AN ATOMIZER FOR INOCULATING PLANTS WITH SPORE-OIL SUSPENS-TON. L E Browder Piant Dis R 49(5):455 I5 May 1965 I.9 P69P Atomizer, Immunization. 3256-67 556-67 AN INEXPENSIVE ACTINOMETER FOR CONTINUOUS FIELD RECORDING OF MOONLIGHT, DAYLIGHT, OR LOW-INTENSITY EVENING LIGHT. P S Callahan J Econ Entom 57(5):759-760 Oct 1964 42I J822 Actinometers, Light. 3268-67 3257-67 AN INEXPENSIVE CASINET FOR TEMPERATURE AND HUMIDITY CONTROL. C I Carter Buii Entomol R 56(2):263-26B Dec 1965 421 BB7 Control equipment, Controlled environment. 3269-67 AREAS. 325B-67 A MODIFIED FLIGHT CHAM8ER. H C Chiang J Econ Entom 56(1):117-118 Feb 1963 421 JB22 Insect flight chamber. 3270-67 3259-67 A MECHANICAL METHOD OF RETAINING FLYING INSECTS ON A TEST WOUNDS. A MECHANICH, METHOD ST SURFACE. D P Childs J W Mooney T Gentry J Econ Entom 57(6):839-840 Dec 1964 421 J822 Insect cages. 3271-67 3260-67 AN EMERGENCE CONTAINER FOR RECOVERING SOUTHERN PINE 8EETLES FROM INFESTED 80LTS. E W Clark E A 03900d Jr J Econ Entom 57(5):783-784 Oct 1964 421 J822 Soits, Dendroctonus frontalis, Insect collecting equipment. 3272-67 3261-67 561-67 FURTHER DEVELOPMENT OF AERIAL PHOTOGRAPHIC TECHNIQUES FOR POTATO LATE 8LIGHT DETECTION. G R Cooper F E Manzer Phytopathoio 54(2):127 Feb 1964 464.8 P56 Aerial photography, Late blight (potatoes). 3273-67 3262-67 A COMPILATION OF SOLUTIONS FOR MAINTAINING CONSTANT RELATIVE HUMIDITIES. R D Durbin Plant Dis R 49(11):94B Nov 1965 I.9 P69P Humidity.

3263-67 A LABORATORY DEVICE FOR OBSERVING INSECTS AND MITES INVOLVED IN HEATING OF STORED GRAIN. L E Eighme J Econ Entom 57(6):998-999 Dec 1964 421 JB22 Laboratory equipment, Mites, Stored-product insects. TWO NEW NEMATODE SUBSAMPLING TOOLS. R P Esser J B MacGowan H M Van Peit Plant Dis R 49(3):265-267 IS Mar 1965 1.9 P69P Equipment, Nematodes, Soil sampling. 265-67 SPRAY DEPOSITS ON APPLE TREES FOLLOWING APPLICATIONS BY THREE TYPES OF SPRAYERS. D E H Frear D Asquith J Econ Entom 56(3):399-401 Jun 1963 421 JB22 Apples, Insecticide deposits, Spraying equipment. DISPENSER DESIGNED TO PROVIDE LARGE QUANTITIES OF INSECTI-A DISPENSE. CIDE VAPOR. H B Gillenwater P K Harein J Econ Entom 57(5):762-764, TA8S. Oct 1964 421 JB22 Insecticidal aerosols. 3267-67 AN IMPROVED TECHNIQUE FOR TESTING EFFECTS OF SOLUBLE POST-HARVEST FUNGICIDES ON SPORE GERMINATION. HARVEST FUNGICIDES ON SPURE GERMINATION. 6 L Greene Plant Dis R 45(5):390-391 15 May 1961 1.9 P69P Fungicides, Seed germination, Spores, Syringes. USE OF FOAM WASHERS FOR TREATING POSTSTORAGE LEMONS WITH SO-DIUM ORTHOPHENYLPHENATE. P R Harding D C Savage Piant Dis R 49(4):332-334 IS Apr 1965 1.9 P69P Equipment, Foam washers, Lemons, Sodium orthophenylphenate. A PORTABLE DEVICE FOR DISTRIBUTING PASTE BAITS OVER LARGE AKLAS. S B Hays J Econ Entom 57(4):610-611 Aug I964 421 JB22 Attractants, Baits, Insect traps. A DEVICE FOR RAPIDLY AND UNIFORMLY INOCULATING PLANTS WITH AGROBACTERIUM RHIZOGENES AND OTHER BACTERIA THAT REQUIRE B Huisingh R D Durbin Plant Dis R 49(I0):878-879 Oct I965 I.9 P69P Agrobacterium rhizogenes, 8acteria, Inoculation device, Laboratory equipment. A WHOLE-MOUNT TECHNIQUE FOR STUDYING INFECTED LEAVES. P K Isaac Phytopathoio 50(6):474 Jun 1960 464.8 P56 Engineering, Leaves, Whole-mount technique. THE AUTOMATIC RECORDING OF MOSQUITO ACTIVITY. M D R Jones J Insect Physi IO(2):343-351, 8IBL. 351 Apr 1964 421 JB25 Automation, Insect behavior. THE USE OF A PETROLEUM HYDRO-CARBON TORCH IN THE ASEPTIC TRANSFER OF MICROORGANISMS AND IN ROUTINE LABORATORY GLASS BLOWING. R P Kahn J L Creech Plant Dis R 44(4):296 15 Apr 1960 1.9 P69P Aseptic transfer, Glass blowing, Hydrocarbons, Microorganisms, Petroleum, Torch.

3274-67 POLYETHYLENE BAGS FOR THE STUDY OF SOIL MICROORGANISMS. D D Kaufman L E Williams Phytopatholo 52(1):16 Jan 1962 464.8 P56 Polyethylene, Soil microorganisms. 3275-67 USE OF A PORTABLE INOCULATION TOWER IN LABORATORY, GREEN-HOUSE, AND FIELD TESTS OF FUNGICIDES TO CONTROL RICE BLAST. M M Kulik G N Asai Plant Dis R 45(12):977-91D 15 Dec 1961 1.9 P69P Blast (rice), Columns (process), Fungicides, Immunization. 3276-67 COMPARATIVE EFFICIENCIES OF THREE METHODS FOR EXTRACTING NEMATODES FROM ROOT AND SOIL SAMPLES. S Malo Piant Dis R 44(3):217 15 Mar 196D 1.9 P69P Nematode extraction, Nematodes, Roots, Soils. 3277-67 COMPARISON OF GRAVIMETRIC AND CHROMIC DXIDE METHODS FOR MEASURING PERCENTAGE UTILIZATION AND CONSUMPTION OF FOOD 8Y MEASURING PERCENTAGE UTILIZATION AND PHYTOPHAGOUS INSECTS. A J McGinnis R Kasting J Insect Physi 1D(6):989-995, 818L. 994-995, TA85. Dec 1964 A21 J82S Chromic oxide method, Feeding, Gravimetric analysis, Insect nutrition, Insect pests. 3278-67 PAD METHOD OF RECOVERING FRUIT FLIES FROM INFESTED FRUIT. M McPhail J Econ Entom \$7(6):1D12-1013 Dec 1964 421 J822 Insect collecting equipment, Pad method, Tephritidae. 3279-67 A GLASS AND CELLULOSE ACETATE INSECT CAGE. D 8 Protacio Plant Dis R 45(1D):824-825 15 Oct 1961 1.9 P69P Ceilulose acetates, Glass, Immunization, Insect cages. 328D-67 SCISSORS DEVICE FOR COLLECTING LEAF SAMPLES FROM APPLE A SCIS TREES. L D Sanchez J Econ Entom S6(2):235 Apr 1963 421 J822 Appies, Leaf sampling device. 3281-67 RECORDING CIRCADIAN RHYTHMS OF THE COCKROACH WITH A CAPACITY SENSING DEVICE. M S Schechter S R Dutky W N Sullivan J Econ Entom S6(1):76-79 Feb 1963 421 J822 Slattidae, Diurnal rhythm, Laboratory equipment. 3282-67 A PORTABLE, INEXPENSIVE, A TRAP. N C Schenck Phytopatholo S4(S):613-614 PORTABLE, INEXPENSIVE, AND CONTINUOUSLY SAMPLING SPORE May 1964 464.8 PS6 Spore trap. 3283-67 A SIMPLE SUBSTITUTE FOR A BAERMANN FUNNEL. A Single Substitute for a unchanne formed A F Schindler Plant Dis R 45(9):747-748 15 Sep 1961 1-9 P69P Baermann funnel, Plant nematodes, Soil fumigation, Soil sampling. 3284-67 A SPORE TRAP FOR STUDYING SPORE RELEASE FROM BASIDIOCARPS. R A Schmidt F A Wood Phytopatholo 54(2):129 Feb 1964 464.8 PS6 Spore traps, Spores. 3285-67 ASPIRATOR FOR RAPID SEXING AND TRANSFER OF EYE GNATS, HIPP-ELATES PUSIO. P H Schwartz Jr

J Econ Entom 57(5):784-786 Oct 1964 421 J822 Aspirator, Laboratory equipment, Sex determination. 3286-67 A PORTABLE ELECTRICALLY POWERED ASPIRATOR. C H Shanks Jr G Gans J Econ Entom 56(2):237-238 Apr 1963 421 J822 Aspirators. 3287-67 287-67 USE OF DISPOSABLE PLASTIC GROWTH POUCHES IN PHYTOPATHOLOGI-CAL RESEARCH. L L Sherrod A M Eliiot Piant Dis R 49(10):882-853 Oct 1965 1-9 P69P Laboratory equipment, Phytopathology, Plastic growth pouches. 3288-67 288-67 MEASUREMENT OF PECTINOLYTIC AND CELLULOLYTIC ENZYME ACTIVITY 8Y ROTATING SPINDLE VISCOMETRY. R T Sherwood A Kelman Phytopathoio 54(1):110-113 Jan 1964 464.8 PS6 Viscometry. 3289-67 A PORTABLE GAS SAMPLER SUITABLE FOR MEASURING ATMOSPHERIC DXIDANT. G Siiber Piant Dis R 4S(4):31D-311 15 Apr 1961 1.9 P69P Air poliution, Ozone, Sampling. 329D-67 A LIGHT SENSITIVE APPARATUS FOR THE RAPID MEASUREMENT OF EXPERIMENTAL FEEDING BY INSECTS. EXPERIMENTAL FEEDING BY INSECTS. C F Soo Hoo Buil Entomoi R S6(2):227-229 Dec 1965 421 887 Insect behavior, Insect nutrition, Measurement, Measuring equipment, Photometers. 3291-67 AN ELECTRICAL AID TO PURE CULTURE ISOLATION. J M Staley H Lyon Plant Dis R 4S(4):312-313 1S Apr 1961 1.9 P69P Culture, Microforge, Micromanipulators. 3292-67 ELEVATED SCREENS FOR COLLECTING BOLL WEEVILS FLYING BETWEEN HIGENATION SITES AND COTTONFIELDS. H M Taft C E Jernigan J Econ Entom 57(5):773-775 Oct 1964 421 J822 Anthonomus grandis, Cotton, Hibernation, Insect coliecting equipment, Screens. 3293-67 AN ELECTRIC BARRIER FOR CONFINING COCKROACHES IN LARGE REAR-ING OR FIELD COLLECTING CANS. R F Wagner W Ebeling W R Clark J Econ Entom S7(6):1DD7-1DD9 Dec 1964 421 J822 Blattidae, Insect collecting equipment, Insect rearing equipment, Laboratory equipment. 3294-67 294-67 THE SEPARATION OF NEMATODES FROM SOIL BY A MODIFIED BAER-MANN FUNNEL TECHNIQUE. J T Walker J D Wilson Plant Dis R 44(2):94 15 Feb 1960 1.9 P69P Baermann funnel technique, Equipment, Nematodes, Solls. 3295-67 COLLECTION OF NEODIPRION EXCITANS SAWFLY COCOONS IN TREE BANDS. R C Wilkinson J Econ Entom S7(S):786 Oct 1964 421 J822 Insect collecting equipment, Pupai cases, Tree bands. 3296-67 ANOTHER SCREENED IMMERSION PLATE FOR ISOLATING FUNGI FROM SOIL. F A Wood R D Wiicoxson

PAGE 64

8D 3274-67

Piant Dis R 44(7):594-595 15 Jul 1960 1.9 P69P Aluminum foil, Equipment, Fungi extraction, Screened immersion plate, Solis.

AGROBACTERIUM TUMEFACIENS

		AGRODACIERION TONEFREIEN.
ABIES LASIOCARPA Scleroderris canker of subalpine fir in Colorado.	2850	ACYRTHOSIPHON PISUM The spatial pattern of the pea aphid in alfalfa fields. 2005
ABORTION Pine needle abortion in cattle.	3079	Varletal resistance of peas to pea aphid blotypes under fleld and greenhouse conditions. 2366
ABSORPTION Absorption, excretion, and metabolism of P32-labeled met by screw-worm and stable flies.	tepa 2072	Granular in-furrow treatments with phorate and Dl-syston against the pea aphilds in peas. 2968
Absorption and metabolism of dimethoate in the bollworm boll weevil.	and 3123	Influence of temperature and humidity on resistance in affalfa to the spotted affalfa aphid and pea aphid. 2976
Absorption of gas bubbles in cuttings and injected stems	3212	Field evaluation of some new Insecticides for the control of the pea aphid on alfalfa. 3159
A65TRACTS Report and abstracts of the 1963 annual meeting of the		Effects of pea aphid on blockstcm severity in alfalfa. 3190
Southern Division of The American Phytopathological Society.	2252	ADAPTATION (PSYCHOLOGICAL) Adapted tolerance to organic fungicides by isolates of Rhi- zoctonia solani from seedling cotton. 3216
Abstracts of papers accepted for presentation at the fli third annual meeting of The American Phytopathological Society, Biloxi, Miss., December 10, 11, 12, 13, 1961.	2253	zoctonia solani from seedilng cotton. 3216 AECIA Variability in the physiologic race populations of oat
Report and abstracts of the 1963 annual meeting of the Northeastern Division of The American Phytopathological		crown rust isolated from accia and uredia. 2421 AEGLOPSIS CHEVALIERI
Society. Abutilon WhiteFLY	3183	Ring callus as a path for non-graft transmitted Aeglopsis chevalieri vein-clearing virus. 2719
Adaptation of the abutilon whitefly for laboratory use.	2121	AERIAL PHOTOGRAPHY Further development of aeriai photographic techniques for potato late blight detection. 3261
ACARICIDES Resistance to acaricides in the European red mite.	2050	AERIAL SPRAYING Aeriai application of fungicides for pecan scab control.
ACARID MITE The haemocytes of the acarid mite Caloglyphus berlesel (Mich. 1903).	2131	2469 Aerial application of insecticides to control spring infest- ations of the cereal leaf beetle on small grains. J169
ACER Extension of range and a new host for Cristularielia pyr Idalla.	ram- 2303	ations of the cereal leaf beetle on small grains. 3169 AERIAL SURVEYS Dak wilt surveys in West Virginia. 2454
The etiology of an annual canker on maple.	2940	AFRICA
ACETYLCHOLINE Development of the cholinergic system in insect eggs.		A new species belonging to the genus Anonaepestls Ragnot (Lepidoptera, Phycitlnae) attacking black pepper (Plper nigrum) in West Africa. 2961
The effects of cholinergic substances upon the isolated	2157	AFRICAN DILPALM Root Inoculation of oil paim seedlings with Sanoderma sp. 2700
heart of Periplaneta americana.	2150	
ACETYLCHOLINESTERASES Development of the cholinergic system in insect eggs.	2157	AGAR Effect of certain fungal isolation agar media on Thielaviopsis basicola and on its recovery in soil dilu- tion plates. 2891
ACIDS Metabolism of organic acids during rot of grape berries Diplodia viticola.	by 2857	AGGLUTINATION TEST A microaggiutination test for !dentifying Xanthomonas vesi- catoria in pepper leaf lesion. 2688
ACDRUS CALAMUS Septocylindrium aromaticum on sweet flag.	25\$3	catoria in pepper leaf lesion. 2688 AGRI-MYCIN-SOO Irish potato seed piece treatment with various chemicals.
ACRIDIDAE The nutritional requirements of locusts III. carbohy- drate requirements and utilization.	2081	AGRICULTURAL PRODUCTIVITY
The nutritional requirments of locusts II. Utilization of sterols.	2082	Effect of mottle virus on the runner production and fruit yleld of two Louisiana strawberry seedilngs. 2343
ACRIZANE CHLORIDE Results of preliminary tests with phenacridane chloride the control of fireblight of apple and bacteriai spot of	r	AGRICULTURE Physico-chemical studies on agricultural sprays. IV. The retention of spray liquids on leaf surfaces. 3218
peach. Seed disinfectation with phenacridane chioride, a broad- spectrum bactericide-fungicide.	2330 - 3242	AGROBACTERIUM RHIZOGENES A device for rapidiy and unlformly inoculating plants with Agrobacterium rhizogenes and other bacteria that require wounds. 3270
ACTI-DIONE SEMICARBAZONE Systemic control of powdery mlidew of roses (Sphaerother pannosa) with the semicarbazone derivative of Acti-dione		AGROBACTERIUM TUMEFACIENS Susceptibility of Artemisia vulgaris and hellanthus tuber- osus to crown gall, Agrobacterium tumefaciens. 2277
ACTINOMETERS An inexpensive actinometer for continuous field recordin moonlight, daylight, or low-intensity evening light.	2\$65	Influence of temperature on iniation of crown gali in woody hosts. 2388

SUBJECT INDEX

AGROSTIS PA	LUSTRIS
-------------	---------

AGROSTIS PALUSTRIS
AGROSTIS PALUSTRIS Influence of environment on disease of turfgrasses. i. effect of nutrition, pH, and soll moisture on Rhizoctonia brown pateh. 2314
Stripe smut damage on Pennlu creeping bentgrass. 2505
AGROSTIS TENUIS Damage to turfgrasses caused by cyanogenie eompounds pro- duced by Marasmlus oreades, a fairy ring fungus. 2419
New experimental and commerciai fungicides for control of Fusarium patch disease of bentgrass turf. 2462
AIR POLLUTION A portable gas sampler suitable for measuring atmospheric oxidant. 3289
AIR TEMPERATURE Studies on the relationships between air temperature and the internai body temperature of Locusta migratoria. 2074
ALABAMA Outbreak of zonate leafspot of sorghum-sudan hybrids in Alabama- 2481
ALASKA Sitona scissifrons (Coleoptera: Circulionidae), a poten- tlai hazard to alfalfa production in Alaska. 2037
ALBERTA, CANADA Chemical control of the beet webworm on sugar beets in southern Alberta. 2986
ALBIZIA LEBBECK (L.) BENTH. Sphaerophragmlum rust discovered in Florida of Albizia iebbeck (L.) Benth. 2650
ALBUGD CANDIDA Metabolic studles on the host-parasite complex of Albugo candlda on radish. 2929
ALFALFA The spatial pattern of the pea aphid in aifalfa fieids. 2005
Sitona seissifrons (Coleoptera: Circuiionidae), a poten- tial hazard to alfaifa production in Alaska. 2037
Further studies on the pathogenicity of three forms of Fu- sarium oxysporum causing wilt of alfaifa. 2279
Penetration and subsequent development of three fusarium species in aifalfa and red clover. 2352
Virulence of Rhizoctonía solani on alfalfa and red clover. 2353
A method for screening affalfa plants for resistance to Pseudopeziza medicaginis. 2439
Alfalfa mosaic virus in white clover and potatoes. 2490
Phytophthora root and erown rot of alfaifa in the Ya- zoo-Mississippi Deita. 2562
Ingress of Pratylenchus penetrans into alfaifa roots in relation to soll molsture content. 2572
Infection of aifalfa seedlings by inoculating wounded cotyledons with wilt bacteria. 2605
An antagonistic variant of Corynebacterlum Insldlosum and some properties of the inhibitor. 2705
Reaction of alfalfa to Verticiiium albo-atrum. 2840
Resistance of Moapa alfalfa to the spotted alfalfa aphid in commerclal-size fields in south-eentral Arizona. 2959
Reaction of alfalfa varieties and strains to alfalfa weevil. 2972
Influence of temperature and humidity on resistance in alfaifa to the spotted alfalfa aphid and pea aphid. 2975
Effect of winter burning on some pests of alfalfa. 2995
The disappearance of dimethoate and SD-743B from alfalfa.

	3118
Field evaluation of some new insecticides for the contr the pea aphid on alfalfa.	ol of 3159
Effects of pea aphid on blackstem severity in alfalfa.	3190
ALMONDS .	
A bilght of ground cherry and Russian almond seediings eaused by Gioeosporlum fructigenum Berk.	2456
Blossom blight and green frult rot of almond, apricot a plum caused by Botrytis cinerea.	nd 2711
ALTERNARIA A new frult rot of cherrles from indla.	∠575
The effect of weather on dispersal of Alternaria spores a semi-arid region of Israet.	ln 2797
Aiternarla ieafspot of Pittosporum.	2843
Leaf drop of Taxus.	2860
ALTERNARIA TENUIS	
Field susceptibility of pepper varieties and selections fruit rot caused by Alternaria tenuis.	to 2369
ALTERNARIA TENUISSIMA	
A new disease of Mangifera indica in India, caused by A ternaria tenuissima.	2692
ALTERNARIA TEUIUS Aiternaria ieaf spot of Pieris japonica.	2503
ALTERNARIA TOMATO Relation of radiation and temperature to the sporulatic Aiternaria tomato and other fungl.	n of 2273
Some chemical requirements for the growth and sporulati Alternaria tomato.	on of 2274
ALUMINUM FOIL	
Another screened immersion plate for isolating fungl fr soli.	0m 3296
AMARYLLIS MOSAIC Serological relationship of cueumber mosaic virus and e tain virus isolates that incite Amaryllis mosaic sympto	er ms. 2 S7 4
AMERICA	
The relationships of English and American races of Phyt phthora fragariae.	0- 2738
AMERICAN BEACHGRASS	,
Occurrence of Ditylenchus radicicola (Nematoda: Tylench dae) in the u.s. and on a new host.	3067
AMERICAN PERSIMMON Citrus nematode on American persimmon in Israel.	3017
AMIDES Free amino acid and amide composition of pea leaf julee	• Dea
Free amino acid and amide composition of pea leaf julee aphid haemolymph, and honeydew, following the rearing o aphids on single pea leaves treated with amino compound	f 9. 2154
Quantitative determination of the free amino acids and	
amides in roots and leaves of healthy and executis-inf Cltrus sinensis Osbeck on Poncirus trifoilata Raf.	ected 2412
AMINO ACIDS	
Nutritionally essential and non-essential amino acids f the prairie grain wireworm, Ctenlcera destructor Brown, determined with glucose-U-Cl4.	or 2132
Free amino acid and amide composition of pea leaf juice	, pea
aphid haemolymph, and honeydew, following the rearing o aphids on single pea leaves treated with amino compound	f 3. 2154
End products of metabolism in the boli weevli, Anthonom	us
grandis Boheman: Non-protein amino aclds in the faces.	2162

Free amino acids of the haemolymph of some insects. 2174

The free amino acid pool of the cockroach (Peripianeta ame-

				CS

	ANTIDIDIC
ricana) contral nervous system and the effect of insecticides. 2184	ANTHONDMUS GRANDIS Boll weevil oviposition responses in cotton squares and various other substrates. 2098
The effects of nitrogen starvation on the concentration of free amino acids in Myzus persicae (Sulzer) (Homoptera,	An inherited behavioral variant in the boll weevil. 2099
Aphidae). 2205	A sex attractactant for female boll weevils from males.
The free amino acids of the ageing female Aedes aegypti mosquito. 2211	A boll weevil attractant from cotton. 2135
Quantitative determination of the free amino acids and amides in roots and leaves of healthy and exocortis-infected Citrus sinensis Obseck on Poncirus trifoliata Rat. 2412	Enzymes in the boll weevil-I. Dehydrogenases of the brain and related structures. 2139
Changes in sugars and amino acids of cucumber fruits in- fected with Phythium aphanidermatum. 265%	Laboratory studies on sterilization of the boil acevil with apholate. 2147
Reversal of fungitoxicity of B-quinolinol by amino acids and other chelators. 3250	Effect on boll weevli progeny of cholesterol added to the adult diet as a powder or an ether solution. 2163
AMINOTRANSFERASES Changes in serum transaminase activities associated with plant and mineral toxicity in sheep and cattle. 3127	Differences in reproductive potential, feeding rate, and longevity of boll weevils mated in the fail and in the fail and spring. 2208
AMMOPHILA BREVILIGULATA	Nutrition of the boll weevil larva. 2216
Occurrence of Ditylenchus radicicola (Nematoda: Tylenchi- dae) in the u. s. and on a new host. 3D67	Dulposition by virgin overwintered boll weevils. 2219
AMYLASES The action pattern and physiologic role of Tenebrio larvai amylase. 2043	A technique for measuring certain aspects of antibiosis in cotton to the boil weevil. 297B
amylase. 2043 Amylase of digestive juice and utilization of dextrin and starch in the silkworm, Bombyx mori L. 2167	Development of population of the boll weevil in fields treated with various insecticides during 1959, 196D, and 1961. 2999
ANASTREPHA LUDENS (LOEW) Effect of gamma rays on lomature stages of the Mexican fruit fly. 2058	Systemic effectiveness of insecticides against boil weevil larvae and other cotton pests. 3126
ANASTREPHA LUDENS Effect of gamma rays on immature stages of the Mexican	Absorption and metabolism of dimethoate in the bollworm and boll weevil.
fruit fly. 2058	Effectlveness of rotenone and pyrethrins when mixed with other chemicals for boll weevil control. 3153
The effect of photoperiod, light intensity, and temperature on copulation, oviposition, and fertility of the Mexican fruit fly. 2102	Effect of DDT and toxaphene alone and in combination on succinic dehydrogenase activity in homogenates of the boil weevil.
Evaluation of ethylene chlorobromide as a fumigant for cltrus and mangoes infested by the Mexican Fruit Fiy. 2960	Elevated screens for collecting boll weevlls flying between hibernation sites and cottonfields. 3292
ANCYLIS COMPTANA FRAGARIAE Control of the strawberry leaf roller, Ancylis comptana fragarlae (Lepidoptera: Tortricidae). 3170	ANTHRACNOSE (CUCUMBERS) Control of anthracnose, scab, and soii rot of cucumbers ln Florida. 2569
ANDROMEDA Alternaria leaf spot of Pieris japonica. 2503	ANTHRACNOSE (MANGDES) Fungleidal control of mango anthracnose, 2272
ANGULAR LEAFSPOT (COTTON) Frequency of cotton plants resistant to Fusarlum wilt in some fines of cotton resistant or susceptible to bacterial	ANTHRACNOSE (SORGHD) Anthracnose inoculation of sorgo with a tractor-mounted sprayer. 2386
blight. 2325 Longevity of Xanthomonas malvacearum on and in cotton seed.	ANTHRACNOSE (SOYBEANS) Leaf symptoms of soybean anthracnose. 2684
2538	ANTHRACNOSE (TOMATOES)
ANGULAR LEAFSPOT (TUNG TREE) Effect of orchard sanitation on development of angular leaf spot of tung. 2256	A delayed harvest test of fungicide sprays on tomatoes resistant and susceptible to fruit cracking. 2799
ANIMAL ABNORMALITIES A congenital deformity experimentally produced in calves by feeding lupine and lead. 3123	ANTHRACNOSE (TURNIPS) Fungicidal control of anthracnose and white spot of turnip greens. 234B
ANJOU PEARS Postharvest fungicide treatments for reduction of decay in	ANTIBIOSIS A technique for measuring certain aspects of antibiosis in cotton to the boll weevil. 2978
ANGKA COUNTY Drigin of populations of the six-spotted leafhopper, Macro-	ANTIBIOTICS Experimental greenhouse control of crown gall and olive knot with antibiotic drenches. 2276
steles fascifrons, in Anoka County, Minnesota. 2019 ANT COLONIES	Phleomycin, an antiblotic markedly effective for control of bean rust. 2829
Individual colony control of the western harvester ant, Pogonomyrmex occidentalls. 2992	Sodium usnate as an antibiotic for plant diseases. 3120
ANTHELMINTICS Antifertility effects of anthelminthics in insects. 2080	Effects of some antibiotics on three aphid species. 3139
	Antibiotic activity of pear leaves against Erwinia amy- lovora and its relation to beta-glucosidase. 3222

ANTIGENS Separation of an antigenic plant protein from preparations of plant viruses. 2257 ing. ANTIMETABOLITES. Antimetaboiltes in the nutrition of aedes aegypti L. larvae. The substitution of choiine by related substances and the effect of choline inhibitors. 2 2044 A brief survey of the effects of potential antimetabolites and enzymes on the development of giant silkworms. 20 2061 The antimetabolite, imidazoie as a posticide. 3165 ANTISEPSIS Nutrition of the silkworm, Bombyx mori-VII. An aseptic culture of larvae on scmi-synthetic diets. 2128 ANTISERUM On the antigenicity of virus causing tungro disease of rlce. 2555 APHANDMYCES EUTEICHES Nutritional requirements of Aphanomyces euteiches and its relationship to common root rot tolerance of peas. 2 2489 Attraction of aphanomyces euteiches zoospores to host and 3203 nonhost roots. Host-parasite relationships of pea roots penetrated by zoospores of Aphanomyces eutelches. 3209 APHIDIDAE Review of the fern aphlds of North America with descriptions of a new species and a new genus. 2031 Aphlds and the epidemiology of baries yeilow dwarf virus in 2726 New Brunswick. Possible shift in predominating strains of barley yeilow dwarf virus in New York. 2778 Control of root-knot nematode and aphid on tobacco. 3050 APHIS GOSSYPII GLOVER Differential transmission of nineteen variations of straw berry mottie virus by Aphis gossypli Glover. 2432 APHIS PORT Dviposition and egg dispersion of the apple aphid with ob-2226 servations on related mortality factors. APHOLATE Steriiization of the face fly, Musca autumnalis, with 2111 apholate and tepa. Laboratory studies on sterilization of the boil weevil with apholate. 2147 APIS MELLIFERA (L.) Relation of semen volume to success in artificial irsemi-nation of queen honey bees. 2 2152 APPALACHIAN MOUNTAINS Egg parasites of the elm spanworm in the southern Appaia-chian Mountains. 1 1997 APPLES An ecological study of arthropod populations on appie in northeastern Wisconsin: insect species present. 2023 Apple scab .effect of one application of fungicides on leaf iesions on previously unsprayed trees. Stem cavity russet of appies. 2310 Symptoms and transmission of a star cracking type disease of appie in Washington. 2312 The bijster bark disease of Red Dellclous apple trees. 2313 Results of preliminary tests with phenacridane chloride for the control of fireblight of apple and bacterial spot of 2330 peach. ARGIDAE New materials for the control of appie powdery mildew. 2371

The prevaience of latent viruses in Oregon apple trees.

PAGE 70

ANTIGENS

Root grafting, a potential source of error in apple index 2482 Evaluation of fungicides for control of powdery mildew, as 2579 A mechanically transmissible virus fatent in appic. 2594 Spread of apple chlorotic leaf spot virus from tree to tree. 2655 Further observations on the scar skin diseases of apple. 2674 Susceptibility of various apple clonal rootstocks to cedar 2677 apple rust. The inhibitory effects of certain fungicide formulations to apple scab conidia. 275 2751 Controlling mlidew on apples at Wenatchec, Washington in 2845 1960. Water core in Lady varlety apples during storage. 3085 Penetration of excised appie cuticie by radioactive organic and inorganic compounds. Spray deposits on appie trees following applications by three types of sprayers. 3265 A sclssors device for collecting leaf samples from apple 3280 trees. APRICOTS pliossom blight and green fruit rot of almond, apricot and plum caused by Botrytis cinerea. 2' 2711 Crown gall disease in Israei. 2904 AQUATIC ANIMALS Fleld studles on the effects of insecticides on some aquatic wildlife species. AQUEDUS WOOD EXTRACTS Response of twenty-one termite species to aqueous extracts of wood invaded by the fungus Lenzltes trabea Pers. ex 2046 ARAUCARIA EXCELSA A re-evaluation of the quarantine significance of Crypto spora longispora Servazzl on Imported seed of the Norfolk Island pine, Araucaria excelsa. 2573 ARBUTIN-HYDROQUINONE Arbutin-hydroquinone compiex in pear as a factor in fire blight development. 2515 ARCEUTHOBIUM CAMPYLOPODUM ENGELM Dwarfmlstietoe found on foxtall plne in Cailfornia. 2666 ARCTIC REGIONS Synopsis of Nearctic Ichneumoninae Stenopneusticae with particular reference to the northeastern region (Hymenop-tera) VI. Synopsis of the Ichneumonini (genus Piagiotry-pes), Acanthojoppini, Listrodromini and Platylabini. 2 2010 Synopsis of Hearctlc Ichneumoninae Stenopneustlcae with particular reference to the northeastern region (Hymenopter VII. synopsis of the Trogini addenda and corrigenda. 2011 A catalogue of the Nearctic Chalcidoldea (insecta: Hymen-2025 optera). Diel patterns of mosquito activity in a high arctic locality: Hazen Camp, Ellesmere Island, N. W. T. 2077

ARGENTINA The citrus Budwood Program in Concordia, Argentina. 2299

Pink root disease of onions in mendoza, argentina. 2598

Physiology of sawfiy metamorphosis. - I. Continuous respiration in diapausing prepupae and pupae. 2197

2395

ASPERGILLUS FLAVUS

ARGYROTAENIA VELUTINANA Concentrate media for rearing red-banded leaf roller.	
Control of and-banded loof antion on another	2185
Control of red-banded leaf rolier on grapes. ARID REGIONS	2970
Problems of plant disease forecasting in an arid climate	2734
The effect of weather on dispersal of Alternaria spores a semi-arid region of Israel.	in 2787
ARIZONA Fusarium wilt of cotton in Arizona.	2307
Hypoxylon canker of aspen in Arizona.	2522
Resistance of Moapa alfalfa to the spotted alfaifa aphi- commercial-size fields in south-central Arizona.	d in 2953
Migrant green peach aphids and the spread of yeilows vi In seed beet fields of Arizona.	2969
ARKANSAS Additional data on corn virus in arkansas.	2378
A new race of bean rust in Arkansas.	2460
Downy mlidew of rice in arkansas.	2865
Epidemics of pine needle rust in Arkansas.	2934
ARMILLARIA MELLEA Some previously unreported hosts of Armillaria melica in California-	2761
Armiiiarla meiiea root rot in a northern white pine pintion.	anta- 2825
ARMILLARIA TABESCENS Variation in isolates from Armillaria root disease in Nyasaland.	2452
ARROWWEED Arrowweed, Pluchea sericea, on the Colorado River is a host for root-knot nematodes.	3070
ARTEMISIA DRACUNCULUS	
Thermotherapy for root-knot nematodes, Meloidogyne spp. sweetpotato and tarragon propagating stocks.	, of 2870
Thermotherapy for root-knot nematodes, Meloldogyne spp.	2B70
Thermotherapy for root-knot nematodes, Meloldogyne spp. sweetpotato and tarragon propagating stocks. ARTEMISIA VULGARIS Susceptibility of Artemisia vulgaris and heilanthus tul osus to crown gali, Agrobacterium tumefaciens.	2B70
Thermotherapy for root-knot nematodes, Meloidogyne spp. sweetpotato and tarragon propagating stocks. ARTEMISIA VULGARIS Susceptibility of Artemisia vulgaris and heilanthus tul	2870 Der- 2277
Thermotherapy for root-knot nematodes, Meloidogyne spp. sweetpotato and tarragon propagating stocks. ARTEMISIA VULGARIS Susceptibility of Artemisia vulgaris and heilanthus tul osus to crown gali, Agrobacterium tumefaciens. ARTHROBOTRYS ARTHROBOTYROIDES LINDAU	2B70 2277 3044
Thermotherapy for root-knot nematodes, Meloidogyne spp. sweetpotato and tarragon propagating stocks. ARTEMISIA VULGARIS Susceptibility of Artemisia vulgaris and heilanthus tul osus to crown gali, Agrobacterium tumefaciens. ARTHROBOTRYS ARTHROBOTYROIDES LINDAU An attempt to control root-knot nematode with Dactylaris thaumasia and Arthrobotrys arthrobotryoides. ARTHROPODA The immediate and iong-term effects of the herbicide MCI on soll arthropods. ARTIFICIAL INSEMINATION Relation of semen volume to success in artificial insemi	2B70 2277 3044 3131
Thermotherapy for root-knot nematodes, Meloidogyne spp. sweetpotato and tarragon propagating stocks. ARTEMISIA VULGARIS Susceptibility of Artemisia vulgaris and heilanthus tul osus to crown gali, Agrobacterium tumefaciens. ARTHROBOTRYS ARTHROBOTYROIDES LINDAU An attempt to control root-knot nematode with Dactylaris thaumasia and Arthrobotrys arthrobotryoides. ARTHROPODA The immediate and iong-term effects of the herbicide MCI on soll arthropods. ARTIFICIAL INSEMINATION Relation of gemen volume to success in artificial insemi nation of queen honey bees. ASCOMYCES DEFORMANS Peach leaf curi as viewed in the early agricultural pres	2870 2277 3044 23131 2152 as of
Thermotherapy for root-knot nematodes, Meloidogyne spp. sweetpotato and tarragon propagating stocks. ARTEMISIA VULGARIS Susceptibility of Artemisia vulgaris and heilanthus tul osus to crown gali, Agrobacterium tumefaciens. ARTHROBOTRYS ARTHROBOTYROIDES LINDAU An attempt to control root-knot nematode with Dactylaris thaumasia and Arthrobotrys arthrobotryoides. ARTHROPODA The Immediate and iong-term effects of the herbicide MCI on soll arthropods. ARTIFICIAL INSEMINATION Relation of gemen volume to success in artificial insemi nation of gemen volume to success insemi nation of gemen volume to success in artificial insemi nation of gemen volume to success insemi nation of gemen volume to success insemi nation of gemen volume to success insemi nation of gemen volume to succe	2870 2277 3044 3131 1- 2152
Thermotherapy for root-knot nematodes, Meloidogyne spp. sweetpotato and tarragon propagating stocks. ARTEMISIA VULGARIS Susceptibility of Artemisia vulgaris and heilanthus tul osus to crown gali, Agrobacterium tumefaciens. ARTHROBOTRYS ARTHROBOTYROIDES LINDAU An attempt to control root-knot nematode with Dactylaris thaumasia and Arthrobotrys arthrobotryoides. ARTHROPODA The immediate and iong-term effects of the herbicide MCI on soll arthropods. ARTIFICIAL INSEMINATION Relation of gemen volume to success in artificial insemi nation of queen honey bees. ASCOMYCES DEFORMANS Peach leaf curi as viewed in the early agricultural pres	2870 2277 3044 23131 2152 2833
Thermotherapy for root-knot nematodes, Meloidogyne spp. sweetpotato and tarragon propagating stocks. ARTEMISIA VULGARIS Susceptibility of Artemisia vulgaris and heilanthus tul osus to crown gali, Agrobacterium tumefaciens. ARTHROBOTRYS ARTHROBOTYROIDES LINDAU An attempt to control root-knot nematode with Dactylaris thaumasia and Arthrobotrys arthrobotryoides. ARTHROPODA The immediate and iong-term effects of the herbicide MCI on soll arthropods. ARTIFICIAL INSEMINATION Relation of semen volume to success in artificial insemi nation of queen honey bees. ASCOMYCES DEFORMANS Peach leaf curi as viewed in the early agricultural presi- california. ASCORDEIC ACID The role of ascorbic acid in the nutrition of three coti	2870 2277 3044 2131 2152 305 of 2833 ton 2218
Thermotherapy for root-knot nematodes, Meloidogyne spp. sweetpotato and tarragon propagating stocks. ARTEMISIA VULGARIS Susceptibility of Artemisia vulgaris and heilanthus tul osus to crown gali, Agrobacterium tumefaciens. ARTHROBOTRYS ARTHROBOTYROIDES LINDAU An attempt to control root-knot nematode with Dactylaris thaumasia and Arthrobotrys arthrobotryoides. ARTHROPODA The immediate and iong-term effects of the herbicide MCI on soll arthropods. ARTHROTIAL INSEMINATION Relation of semen volume to success in artificial insemi nation of queen honey bees. ASCOMYCES DEFORMANS Peach leaf curi as viewed in the early agricultural pre- california. ASCORDIC ACID The role of ascorbic acid in the nutrition of three cott insects. ASEPTIC TRANSFER The use of a petroleum hydro-carbon torch in the aseptic transfer of microorganisms and in routine laboratory give	2870 2277 2277 3044 24 2152 2533 200 2218 2333 200 2218 2333 200 2218 2333 200 2218

invasion of peanut pods in the soli by Asperoilius flavus. 2394
ASPERGILLUS NIGER Sources of inoculum for Aspergilius niger disease of Span- ish peanuts. 2284
ASPIRATOR Aspirator for rapid sexing and transfer of eye gnats, 'lipp- elates pusio. 3285
ASPIRATORS A portable electrically powered aspirator, 3286
ASSAY
A T -head inoculator for local-lesion assay of viruses. 3253
ASTER YELLOWS (BARLEY) Transmission of the aster yellows virus to bariey. 2291
ASTER YELLOWS (FLAX) Aster yellows of flax. 2434
ATOMIZER An atomizer for inoculating plants with spore-oil suspens- ton. 3255
ATROPINE Inhibition of fly-head choiinesterase in vitro by pilocar-
pine and atropine. 2071
ATTA Heptachior dust for control of the leaf-cutting ant Sauva Limao, in Brazii. J150
ATTRACTANTS
Apparent loss of sex attractiveness by the female of the Virginia-plne sawfiy, Neodlprion pratti pratti. 2062
Natural sex attractant of the lesser peach tree borer. 2075
A sex attractactant for female boil weevlis from males. 2134
A boll weevil attractant from cotton. 2135
The acceptability of some fats and oils as food to imported fire ants.
The chemical basis of hostplant selection in the slikworm, Bombux mori (L.). 2169
A sex pheromone in the housefly, Musca domestica L. 2189 Response of Reticulitermes flavipes to fractions from
fungus-infected wood and synthetic chemicais. 2221
A portable device for distributing paste balts over large areas. 3269
AUSTRALIA Association of Phytophthora cinnamomi with a disease of Eucalyptus marginata forest in Western Australia. 2750
Controj of conjfer damping-off in South Austraila. 2900
AUTOGENY Autogeny in Aedes (Finlaya) togol Theobald (Oiptera, Cullcidae). 2141
AUTOMATION The automatic recording of mosquito activity. 3272
AVOCADOS Rhizoctonia seed and root rot of avocado. 2675
AZALEAS Nematodes associated with the decline of azaleas in Wiscon- sin. 3011
BACTERIA Taxonomy of the bacterium causing angular leaf spot on strawberry. 2586
Hunomannelting monetten indused by phytopathogonic bestaris

Hypersensitive reaction induced by phytopathogenic bacteria in the tobacco leaf. 2597

PAGE 71

8ACTERIA

BACTERIAL 8LIGHT (CELERY)

The resistance of species of Pelargonium to Xanthomonas 2602 pelargonii. Influence of bacteria isolated from healthy cucumber leaves on two leaf diseases of cuncumber. 262 2622 Systemic invasion of the host plant by the tumor-inducing 2935 A device for rapidly and uniformly inoculating plants of Agrobacterium rhizogenes and other bacteria that require 3270 A device for rapidly and uniformly inoculating plants with BACTERIAL BLIGHT (CELERY) Control of celcry early blight and bacterial blight in the Everglades with Dyrene combinations. 28 2869 BACTERIAL BLIGHT (PEAS) Bacteriai blight of peas incited by Pseudomonas phaseolico ia (Burk) Dows. 24 2483 BACTERIAL BROWN SPOT (BEANS) Haio blight and bacterial brown spot of bean in Wisconsin in 1964. 2487 BACTERIAL CANKER (FRUIT) Bacterial canker of stone fruits in the southeastern States. 2740 BACTERIAL CANKER (TOMATOES) Bacterial canker and spotted wiit of tomato in the west-cen tral Great Plains. 287 2872 BACTERIAL DISEASES (PLANTS) resistance of species of Pelargonium to Xanthomonas pelargonii. 2602 A leaf-crinkling bacterium of soybeans. 2862 Control of celery early blight and bacterial blight in the Everglades with Dyrene combinations. 28 2869 So-called beet latent virus ls a bacterium. 2944 BACTERIAL LEAF SPOT (CHYRSANTHEMUMS) A bacteriai leaf spot of fiorists chrysanthemums, Chyrsan themum morifolium. 2657 BACTERIAL SCAB (GLADIOLUS) Control of bacterial scab and Fusarlum corm rot of gladio-2712 lus. BACTERIAL SCAB (TONATOES) Bacterial scab of tomato in Puerto Rico. 2739 BACTERIAL SPOT (PEACHES) Results of preliminary tests with phenacridane chloride for the control of fireblight of apple and bacterial spot of 2330 peach. Dodine-captan combination controls bacterial spot of peach 2393 BACTERIAL SPOT (PEPPERS) Evaluation of bactericidal and non-bactericidal compounds for control of bacterial spot of pepper. 2 2925 BACTERIAL SPOT (REDPEPPERS) Control of pepper bacterial spot by fertilizer and by follar sprays. 2374 The relation of plant fertility to bacterial spot of pepper 2883 BACTERIAL WILT (BANANAS) Distribution and pathogenicity of strains of Pseudomonas solanacearum from virgin soils in Costa Rica. 3103 BACTERIAL WILT (DIANTHUS CARYOPHYLLUS) A carnation disease resembling bacterial slow wilt or stunt. 2864 BACTERIAL WILT (TAGETES MINUTA) Bacteriai wilt of Tagetcs minuta. 2401 BACTERICIDES Evaluation of bactericidal and non-bactericidal compounds 2925 for control of bacterial spot of pepper. Seed disinfectation with phenacridane chioride, a broad-

spectrum bactericide-funcicide. 3242 BACTERIOPHAGES Sensitivity of bacterial isolates from eggs of Aphis pomi to Erwinia amylovora bacteriophages. 2989 BAERMANN FUNNEL Temperature and the quantitative recovery of nematodes with a modified Baermann funnel. 300 3005 A simple substitute for a Baermann funnei. 3283 BAERMANN FUNNEL TECHNIQUE The separation of nematodes from soli by a modified Paer-mann funnei technique. 3294 BAIANINHA SWEET ORANGES Nuceilar Balaninha orange as top in a rootstock-fertiliza-tion-spacing experiment. 2780 BAITS A portable device for distributing paste baits over large areas. 3269 BANANAS The natural enemies of some banana insect pests in Conta Rica. 2009 Crown rot of boxed bananas. 2474 Basis for host specificity among vascular invaders of banana roots. 3196 8ARAD ORANGES Bichaviour of 77 tristeza tolerant rootstocks with old and nuceflar ciones of Barao orange scions. ?(2682 BARBADOS Collection of predaceous lady beetle, Hyperaspis trilin-eata, in Barbados, and shipment to Hawaii. 1998 BARK The relationship of some bark factors to canker susceptibility. 2304 Some physiological properties of leaves and bark of psorosis -infected Valencia orange trees. 2680 Developmental morphology of Hypoxylon pruinatum in bark of 2782 quaking aspen. BARK DISEASES A bark disorder of grapefruit. 2422 BARK MEASLES (PEARS) occurrence of pear bark measics in Colorado Bartlett orchards. 2638 BARLEY Transmission of the aster yellows virus to barley. 2291 Inheritance of resistance in barley to barley yellow dwarf. 2380 A barley loose smut epidemic in Minnesota in 1959. 2416 Inoculum supply as a variable in the epiphytology of loose smut of barley and wheat. 24 2417 Effect of barley stripe mosaic on wheat. 2420 Modification and adaptation of Popp s technique to routine detection of Ustilago nuda (Jens) Rostr. in barley embryos. 2578 Effect of temperature and point of inoculation on the symptomatology of barley covered smut. 25 2589 An inverse relationship between the severities of Heiminth-osporium leaf-blade and Septoria leaf-sheath symptoms on 2687 barley. Possible shift in predominating strains of barley yellow dwarf virus in New York. 2778 Inheritance and linkage of stem rust and loose smut resis tances and starch type in bariey. 2 Fleid and host studies of parasitism by Heiminthosporium

sorokinianum.

PAGE 72

2848

2202

BIDRIN

Fungi of barley seed and their associative effects. 2893 Selective effects of barley residue on fungi of the pinto

bean root-rot complex. 3114

BARDMETRIC PRESSURE Insect tolerance to increased atmospheric pressures.

Effects of a high vacuum on insect mortality. 2212

BARTLETT PEARS

Stewart strain of Bartiett pear shows fire blight resis-2846 tance.

BATS

Aspects of the noctuld tympanic nerve response having signi-ficance in the avoidance of bats. 2183

BEACH BARK DISEASE Drganism interactions in the beach bark disease. 2822

BEAN POD MOTTLE

Properties of a mosaic virus of cowpea and its relationship to the bean pod mottle virus. 282 2820

BEAN PODS

Transmission of bean pod mottie virus by bean leaf beetles. 2912

BEANS

Tests of Phaseolus species for resistance to Fusarlum root 2237 rot.

An induced mechanism of tissue resistance to polygalacturon ase in Rhizoctonia-infected hypocotyls of bean. 229 2293

A new race of bean rust in Arkansas. 2460

The relationship of severe bean mosaic virus from Mexico to southern bean mosaic virus. 2478

Haio bilght and bacterial brown spot of bean in Wisconsin in 1964. 2497

Seed exudation and its influence on pre-emergence damping-2812

1964 Snap bean disease survey in the Pacific Northwest. 2824

Field and host studies of parasitism by Helminthosporlum 2849 sorokinianum.

A hypocotyi cojjar rot of Phaseolus vuigaris. 292B

Evaluation of populations and control of the western bean cutworm in fleid beans in nebraska. 2974

BEEF CATTLE

Horn fly control on beef cattle by the use of cable rubbers. 3080

BEEF FAT

Residues in beef fat following heptachior feeding. 3115

BEET LATENT VIRUS So-cailed beet latent virus is a bacterium. 2944

BEETS

Host relationships of beet western yellows virus strains. 2400

Migrant green peach aphids and the spread of yellows viruses In seed beet fields of Arizona. 2969

BELONDLAIMUS LONGICAUDATUS

Correlation between Fusarium wilt indices of cotton varietles with root-knot and with sting nematodes as predispos-2366 ing agents.

BELONDLAIMUS LONGICAUDATUS RAU

Influence of sting nematode control with D,O-diethyi D-2-pyrazinyi phosphorothicate on yield and quality of peanuts. 3061

BETA-GLUCOSIDASE

Antiblotic activity of pear leaves against Erwinia amy-lovora and its relation to beta-glucosidase. 3222

BIDRIN The systemic insecticidal action of Shell DS-1836 and Bidrin on several insects associated with conffers.	3120
BIG VEIN (LETTUCE) Studies on the transmission of the virus causing big vei lettuce.	n of 233B
BID-ELECTRIC POTENTIAL The potential profile of the insect compound eye and opt lobe.	1c 2066
Potential changes in the eye and optic lobe of certain insects during light- and dark-adaptation.	2067
BIDCHEMISTRY Transglycosylation in the desert locust, Schistocerca gregaria Forsk.	2176
The adult scent glands and scent of nine bugs of the sup family Coreoldea.	e r- 2223
BIDKINETICS Characteristics of invertose from the alimentary conal of the pee aphid, Acyrthosiphon plsum (Harr.) (Homoptera, Aphididae).	f 2200
BIDLDGICAL ASSAY Mass rearing of Daphnla magna for Insecticide bloassay.	2091
BIOLOGICAL CONTROL (INSECTS) Microbial and chemicai control of hornworms attacking to bacco in Ontarlo.	- 2959
Some aspects of Insecticidal and biological control of t woolly apple aphid, Erlosoma lanigerum (Hsm.) in rhodesi	
BIOLOGICAL RACES Effect of uredlospore concentration on determination of races of Uromyces phaseoli var, phaseoli.	2385
A reason for the number order of biologlcal races.	2498
Biological races from within the same plant.	2499
The relationships of English and American races of Phyto phthora fragariae.	- 2738
BIRDS Ixodes laysanensis, a new species of tick from birds on Laysan island (Metastigmata:Ixodidae).	2039
BIRDSFOOT TREFOIL Host range and testing of Lotus species for disease resi tance to Phomopsis blight of birdsfoot trefoil.	s- 2 B9 9
BLACK COWPEAS A T-head inoculator for local-lesion assay of viruses.	3253
BLACK PDD (CACAD) A worid survey of Phytophthora palmivora on cocoa.	2895
BLACK ROOT ROT (BEANS) Black root-rot development on plnto beans, incited by se ted Thielaviopsis basicola isolates, as influenced by di ferrent soll temperatures.	lec- f- 2642
BLACK RDT (WATERMELDNS) The development of Mycosphaerelia biack rot and Pellicu- laria rolfsli rot of watermelons at various temperature:	2637
BLACK SHANK (TDBACCD) Infiuence of host passage on viruience of Phytophthora parasitica var. nicotlanae.	2403
History of black shank in Georgia flue-cured tobacco in- cluding spread of the disease in 1959.	2443

Autumn weather in relation to subsequent occurrence of to-bacco black shank in Virginia. 25 2031

Phytophthora parasitica var. nicotianae spread by overhead 2932 irrigation.

BLACK SPOT (PEPPERS) BLACK SPOT (PEPPERS) Field susceptibility of pepper varieties and selections to fruit rot caused by Aiternaria tenuis. 2369 BLACK STEM (POPULUS DELTOIDES) fackstem of cottonwood. 2472 BLACK STEM (SUNFLOWERS) Phoma black stem of sunflowers. 2656 BLACK STEM (WHEAT) Intra- and inter→regional movement of uredospores of black stem rust in the upper Mississippi Vailey. 22 2280 BLACKLINE (JUGLANS REGIA) The etiology of blackline in grafted Persian wainuts. 2670 BLACKSTEN Effects of pea aphid on blackstem severity in aifalfa. 3190 BLAST (RICE) Rice biast in Ei Saivador. 2265 Structure of rice leaves in relation to varietal suscepti-bility to rice blast, Piricularia oryzae. 24 2699 Use of a portable inoculation tower in laboratory, green-house, and field tests of fungicides to control rice blast. 3275 BLATTIDAE The nature of slow and fast contractions in the coxai muscles of the cockroach. 2 2215 Recording circadian rhythms of the cockroach with a capacity sensing device. 32B1 An electric barrier for confining cockroaches in large rearing or field collecting cans. 3293 BLIGHT (CITRUS) Occurrence of plant-parasitic nematodes in citrus blight areas. 3027 BLIGHT (CORN) The influence of gibbereilic acid on seediing blight of corn* 2926 IGHT (EASTERN REDCEDAR) Control of phomopsis blight of eastern redcedar seedlings. 2743 BLIGHT (EASTERN REDCEDAR) BLIGHT (GROUND CHERRY) A blight of ground cherry and Russian aimond seediings caused by Gloeosporlum fructigenum Berk. 2456 BLIGHT (LOTUS) Host range and testing of Lotus species for disease resis tance to Phomopsis blight of birdsfoot trefoii. 2899 BLIGHT (PINUS) Definitive patterns of white pine needle biight. 2337 BLIGHT (SALIX) Willow blight in Michigan. 2502 BLISTER Biister, a new disease of sweetpotato. 2715 BLISTER BARK (APPLES) The bilster bark disease of Red Delicious apple trees. 2313 BLISTER RUST (PINUS MONTICOLA) An evaluation of cycloheximide (Acti-dione) for control of white pine bilster rust in the Southeast. 27: 2755 BLOAT Factors affecting control of onion bloat by fumigants containing 1,3-dichioropropene in organic solls in southern New York. 2305 BLOOD CELLS The fate of the blood ceils during the life history of 2194 Sialis iutaria L. Haemocytes and the metamorphosing tissues in Sarcophaga builata, Drosophila melanogaster, and other cyclorrhaphous. 74 PAGE

Diptera. 2227 BLOOD CHEMISTRY Phosphoryiethanoiamine and phosphoryichoiine in the haemo-iymph of iarvae of Gaileria meiloneiia L. during starva-2143 The influence of nutritional and hormonal factors on the chemistry of the fat body, blood, and ovaries of the blowfly Phorma regina Meig. BLOSSOM BLIGHT (ALMONDS) Blossom blight and green fruit rot of aimond, apricot and pium caused by Botrytis cinerea. 22 2711 BLOSSOM BLIGHT (APRICOTS) Blossom blight and green fruit rot of aimond, apricot and plum caused by Botrytis cinerea. 2 BLOSSOM BLIGHT (PLUMS) Blossom blight and green fruit rot of aimond, apricot and plum caused by Botrytis cinerea. 2 2711 BLUEBERRIES Observations on new or unusual diseases of highbush blueber гу.-2765 BOG RUSH Juncus effusus, a new host for Epichioe typhina. 2593 BOLL ROT (COTTON) Observations on cotton boil rot at Florence, South Caro-lina in 1964. 264B Uncollapsed fibers associated with boil rot in cotton. 2649 BOLTS An emergence container for recovering southern pine beeties from infested boits. 3260 BORON Boron deficiency evident in Oregon hoily orchards. 3240 BOTRYTIS ALLII Effect of some fungicides on pectolytic enzyme activity of Scierotinia scierotiorum and Botrytis aliii. 2479 The pathogenesis of Botrytis cinera, B. squamosa, and B. aliii on onion leaves. 2496 BOTRYTIS CINERA The pathogenesis of Botrytis cinera, B. squamosa, and D. aiiii en onion leaves. 2496 BOTRYTIS CINEREA Blossom blight and green fruit rot of aimond, apricot and plum caused by Botrytis cinerea. 2 2711 Initiation of strawberry fruit rot caused by Botrytis cinerea. 2753 Influence of nitrogen and potassium on susceptibility of Chrysanthemum morifolium to Botrytis cinerea. 3224 BOTRYTIS SOUAMOSA The pathogenesis of Botrytis cinera, B. squamosa, and B. aliii on onion leaves. 2496 BOUGAINVILLEA GLABRA CHOISY JUGAINVILLEA GLABRA CHOISY Occurrence of Cercospora bougainvilleae in Ei Salvador. 2266 BRACKET FUNGUS (Basidiomycetes: Polyporacea) in Gatineau Park, Quebec. 2027 BRAIN The potential profile of the insect compound eye and optic 2066 lobe. Potential changes in the eye and optic lobe of certain insects during light- and dark-adaptation. 2067 BRAZIL Citrus variety reaction to tristeza virus in Brazii when used in various rootstocks and scion combinations. 2467

Nuceiiar lines in the state of Sao Paulo, Brazii.

26B3

Heptachior dust for controi of the leaf-cutting ant Sauva Limao, in Brazii. 3150	CACAO Partial resistance to greenpoint cushion gail in cacao ciones completely resistant to flowery gail. 2539
BREEDING Induced hybridization between graminicolous species of Ustilago. 3225	Loss of gaii-Inducing capacity on cacao, when Caionectria rigidiuscula passes from the conidiai (Fusarium) stage through the perfect (ascospore) stage. ≥540
BRITISH HUNDURAS Citrus virus diseases of Trinidad, Jamaica, and British. 2794	Predisposition to cacao knob gali ln wounds where fiowery gali has been excised. ∠541
BROMINE Note on the determination of residuai bromine in ethyjene	Piant diseases threatening Theobroma cacao in the Western Hemisphere. 2545
dibromlde-fumigated cereals. 3106 BROMOCHLOROETHANE	A gali disease of cacao and mango in Venezueia caused by Calonectria rigidiuscuia. 2646
Evaluation of ethylene chlorobromide as a fumigant for citrus and mangoes infested by the Mexican Fruit Fly. 2960	Polyphenoloxidase activity in cacao selections showing vari- able resistance to Phytophthora pod rot. 2894
BROOM (JUGLANS MAJOR)	Phytophthora canker of cacao in the Caroline Islands. 2949
New hosts for broom-causing fungi in the Southwest. 2626	The influence of environmental stress on the cacao tree in
BROWN ROOT ROT (PINUS BANKSIANA) Paxiilus atrotomentosus causes brown root rot in dead jack pine in piantations in wisconsin. 2384	determining the feeding sites of cacao thrlps, Seienothrips rubrocinctus (Giard), on leaves and pods. 2073
BROWN ROT (APRICOTS)	CACAO THRIPS The influence of environmental stress on the cacao tree in
Relative pathogenicity of two brown rot fungi, Scierotinia laxa and Scierotinia fructicoia, on twigs and blossoms. 2725	determining the feeding sites of cacao thrips, Selenothrips rubrocinctus (Glard), on leaves and pods. 2973
BROWN ROT (CHERRIES)	CACHEXIA (LIMES) Some morphological and physiological features of Clementine
Relative pathogenicity of two brown rot fungl, Scierotinia	mandarin trees affected by cachexea.
laxa and Sclerotinla fructicoia, on twigs and biossoms. 2725	CALCIUM Cabbage varleties in relation to tipburn, 2908
BROWN ROT (CITRUS) Limitations of the hot water immersion treatment for the	CALCIUM NITRATE
control of Phytophthora brown rot of lemons. 2600 BROWN SPOT (RICE)	Ineffectiveness of caicium nitrate and other calcium sources in reducing southern blight incidence on Rutgers tomato under epiphytotic conditions. 2941
A severe epidemic of Heiminthosporlum brown spot disease on cultivated wild rice in northern Minnesota. 2295	CALIFORNIA Turfgress diseases in southern California. 2411
BROWN SPOT (TOBACCO) Controi of tobacco brown spot by field spraying with dyrene.	Yellow bud virus endemic aiong Callfornla coast. 2431
2636	Corn naturally infected by sugarcane mosaic virus 1n Cali-
BUDWOOD The cltrus Budwood Program in Concordia, Argentina. 2299	fornia. 2433
Experiments on heating budwood to eliminate exocortis virus. 2786	Etlology of summer bunch rot of grapes in California. 2513
BUDWOOD CERTIFICATION PROGRAM The cltrus Budwood Certification Program in the state of	Pokeweed crinkie ieaf, caused by a virus transmitted by dod- der from desert shrubs in southern California. 2613
Sao Paulo. 2785	Dwarfmistietoe found on foxtall pine in California. 2666
BULB TREATMENT Soll-borne infection of buibous irls by Sclerotinla bulbor-	A species of Clitocybe associated with declining oak and sycamore in California. 2685
um controlled by bulb and soll treatments with PCNB 2461	Plum rusty blotch in Callfornia. 2748
BUSH REDPEPPERS (VEGETABLE) Isolation of Xanthomonas vesicatoria from tissues of Cap- sicum annuum. 2375	Some previously unreported hosts of Armiliaria mellea in California. 2761
Effect of fruit shape on the occurrence of internal mold in	A fungal complex associated with the sudden wilt syndrome in California cotton. 2805
	Wheat rust during the spanish era in California. 2831
BUTT ROT (TREES) A stalning-fungus root disease of ponderosa, Jefferey, and pinyon pines. 2905	Grape mildew as viewed in the early agricultural press of california. 2832
BUTTERFLIES The nature of the electroretinogram of a tropical butterfly. 2207	Peach leaf curi as viewed in the early agricultural press of california. 2833
CABBAGE Cabbage varieties in relation to tipburn. 2903	Potato blight as viewed in the early agricultural press of california. 2834
	Wheat rust as viewed in the early agricultural press of
The inheritance of powdery mlldew resistance in cabbage. 2909	california. 2835
CABLE RUBBERS	Wheat smut as viewed in the early agricultural press of cal- lfornia.
Horn fly control on beef cattle by the use of cable rubbers.	2030

ABLE RUBBERS Horn fly control on beef cattle by the use of cable rubbers. 3080

PAGE 75

The occurrence of apricot ring pox virus in pium in Cal-lfornia. 2906

CALLIPHOR1DAE

Timing of treatments for control of the alfalfa weevil in northern California. 29	982
Control of the walnut aphid and codling moth on walnuts in northern California. 30	٦ 004
Pratylenchus zcae found on corn, milo, and three suspected new hosts in California. 30	d 009
Effect of various insecticides in the control of caterpillars attacking tomato in california. 3:	152
CALLIPHORIDAE Rhodanese in the blow-fiy, Calliphora vomitoria L. 21	175
The sense organs of the ovipositor of the blowfly, Phormia regina Meigen. 22	a 220
The fine structure of the mosaic midgut epitheiium of blowfiy larvae. 22	222
CALONECTRIA RIGIDIUSCULA A gail disease of cacao and mango in Venezuela caused by Calonectria rigidiuscula. 20	546
CANKER (ABIES LASIDCARPA) Scieroderris canker of subalpine fir in Colorado. 21	B50
CANKER (ACER) The etiology of an annual canker on mapie. 2:	940
CANKER (ASPEN) Hypoxyion canker on European aspen. 22	269
CANKER (CACAD) Phytophthora canker of cacao in the Caroline Islands. 29	949
CANKER (CITRUS) The eradication of citrus canker. 23	398
CANKER (POPULUS TREMULDIDES) Hypoxyion canker of aspen in Arizona. 23	522
CANKER (POPULUS) Hypoxyion canker impact on aspen, 22	270
Life cycle and host range of Hypoxylon pruinatum and lts pathogenesis on poplars. 23	301
CANKER (SOPHORA JAPONICA) A Fusarium canker of Sophora japonica. 23	744
CANKER (SORBUS AUCUPARIA) Fusicoccum canker of mountain ash in 1111nois. 21	B 0 9
CANKER (TOMATOES) Additional hosts for tomato canker organism, Corynebacter- ium michiganese. 22	- 275
CANKER (TREES) Symposium on cankers of forest trees: Invitational papers presented August 28, 1963, at the fifty-fifth annual meeting of the American Phylopathological Society at	
The relationship of some bark factors to canker suscepti-	250
bility. 23 Pathogenesis in cankers caused by Nectria galligena. 26	304 531
CANKER (TULIP POPLAR) Canker of tulip poplar caused by Fusarium solani. 26	523
CANKER (WESTERN LARCH)	924
CANKER STAIN (PLATANUS) New sycamore canker. 21	BB1
CANTALDUPES The relationship of mosaic virus disease to crown blight of cantaloup. 27	of 707
CAPILLARIES Influence of transient capiliaries on the enzymatic degrac tion of plant celi walls. 32	da - 207

CAPTAN Dodine-captan combination controls bacterial spot of peach. 2393 Control of Pythium root diseases with soil fungicldes. 2865 Toxicity to sheep of three fungicidai compounds (captan, ceresan m, and zineb). 3161 lrish potato seed plece treatment with various chemicain. 3241 CARRAMATES Chemosteriiant efficiency of bis(1-azirldinyi)phosphinyl carbamates in screw worm flies. 2079 CARBARYL Sevin residues in milk from dairy cows foliowing dermal applications. 3109 Toxicological studies on the Egyptian cotton leafworm, Prodenia iitura. II. Reversion of toxaphene resistance in the Egyptian cotton leafworm. 5133 Carbaryi toxicity symptoms on soybeans. 3162 CARBOHYDRASES Carbohydrases of the alimentary tract of the desert locust, 2097 Schistocerca gregaria Forsk. CARBOHYDRATES The nutritional requirements of locusts. - 111. carbohy-drate requirements and utilization. 2081 Histochemical and spectrophotometrical studies on several dehydrogenases of carbohydrate metabolism in Oniscus asellus. 2117 CARBON Physiology of sexual reproduction in Hypomyces solani f. cucurbitae. I. Influence of carbon and nitrogen. 2525 CARBON-14 Partial characterization of the in vivo metabolites of DDT-C14 in Triatoma infestans. 204 2043 CARNITINE The nutrition of choline, carnitine, and related compounds in the blowfly, Phorma regina Meigen. 21 2123 CAROLINE ISLANDS Phytophthora canker of cacao in the Caroline Islands. 2949 CARPOCAPSA POMONELLA some aspects of the mating and oviposition behavior of the codiing moth, Carpocapsa pomonella. 21 2103 Control of the walnut aphid and codling moth on wainuts in northern California. 3004 The toxicity of insecticides to iarvae of the codiing moth, Cydla pomonella (L.). II. maintenance of a toxic deposit 3110 in the field. The toxicity of insecticides to larvae of the codiing moth, Cydia pomoneiia (L.). I.- Intrinsic toxicity and persistence. 3137 CARTHAMUS The susceptibility of safflower varieties and species to several foliage diseases in Israei. 2282 CASTORBEANS Relations of variety, temperature, and seed immaturity to pre-emergence damping-off of castorbean. 3: 3246 CAT-TAIL DISEASE Juncus effusus, a new host for Epichioe typhina. 2593 CATERPILLARS Effect of various insecticides in the control of caterpillars attacking tomato in california. 3152 CATTLE 3079 Pine needle abortion in cattie. Control of the face fly on cattle with co-ral in grain and 30B2

on pasture.

Toxicological studies on dichlorvos feed-additive formu iations to control house files and face files in cattle feees.		CERCOSPORA BOUGAINVILLEAE Decurrence of Cercospora bougainvilleae in El Saivador. 2266
CAULIFLOWER		CERCOSPORA CARTHAMI Secd-borne Cercospora on safflower. 2281
Detection of cauliflower mosaic virus by immune adheren	2703	CERCOSPORA COFFFICULA The use of fungicides in the control of Cercospora coffei-
CAVITY SPOT (CARROTS) Cavity spot disease of carrot and parsnip roots.	2480	cola on coffee. 2844 CERCOSPORA PLUMERIAE CHUPP
CELERY Control of celery early blight and bacterlal blight in Evergiades with Dyrene combinations.	the 2869	Cercospora plumeriae Chupp- A new report for the Unlted States. 2790
CELL NUCLEUS Nuclei in spores and mycelium of verticillium.	2788	CERCOSPORA THUJINA PLAKIDAS New hosts for Cercospora thujina Plakidas. 2527
CELL WALL Influence of translent capiilaries on the enzymatic deg	rada-	CEREAL LEAF BEETLE Aerial application of insecticides to control spring infest- ations of the cereal leaf beetle on smail grains. 3169
tion of plant celi wails. CELLS	3207	Toxicity of Insecticides to a Coccinellid predator of the cereal leaf beetle. 3182
Programmed celi death- I. Endocrine potentlation of the breakdown of the Intersegmental muscles of silkmoths.	2149	CERESAN Toxicity to sheep of three fungicidal compounds (captan, ceresan m, and zineb). 3161
CELLULOSE Conditions favorable for adsorption and elution of toba mosaic virus in an Ecteola-cellulose column.	2766	CEROCOSPORELLA HERPOTRICHOIDES Sporulation by Cercosporella herpotrichoides on artificial media. 2349
CELLULOSE ACETATES A glass and celiulose acetate insect cage.	3279	CEROTOMA TRIFURCATA
CENTRAL NERVOUS SYSTEM The free amino acld pool of the cockroach (Peripianeta	ame-	Transmission of bean pod mottle virus by bean leaf beetles. 2912
ricana) central nervous system and the effect of insecticides.	2184	CHARCOAL ROT (SORGHUM) Combined relation of plant maturity, temperature, and soll moisture to charcoal stalk rot development in grain sorghum.
CEPHALDSPORIUM DIDSPYRI Consideration of the use of persimmon wilt as a silvici for weed persimmons.	de 2933	2406 CHELATOMETRY
CEPHALOSPORIUM ZONATUM Appearance of zonal leaf spot of coffee caused by Cepha		Reversal of fungitoxicity of 8-quinolinol by amino acids and other chelators. 3250
sporium zonatum in Costa Rica.	2795	CHEMICAL CONTROL (INSECTS) Microblai and chemical control of hornworms attacking to-
		Microblai and chemical control of hornworms attacking to- bacco in Ontario. 2959
sporium zonatum in Costa Rica. CERATOCYSTIS FAGACAERUM	2795 2397	Microblai and chemical control of hornworms attacking to-
sporium zonatum in Costa Rica. CERATDCYSTIS FAGACAERUM Dak wilt identified in Texas. CERATDCYSTIS FAGACEARUM Symptoms in relation to infection pattern in white oak. The effect of conidiai concentration on perithecial for	2795 2397 2319 ma-	Microblai and chemical control of hornworms attacking to- bacco in Ontarlo. 2959 Some aspects of insecticidal and biological control of the woolly apple aphid, Eriosoma lanlgerum (Hsm.) in rhodesia.
sporium zonatum in Costa Rica. CERATDCYSTIS FAGACAERUM Dak wilt identified in Texas. CERATDCYSTIS FAGACEARUM Symptoms in relation to infection pattern in white oak. The effect of conidiai concentration on perithecial for tion by the oak wilt fungus. The importance of root grafts in oak wilt spread in mis	2795 2397 2319 ma- 2415	Microblai and chemical control of hornworms attacking to- bacco in Ontario. 2959 Some aspects of insecticidal and biological control of the woolly apple aphid, Eriosoma lanlgerum (Hsm.) in rhodesia. 2965 Evaluation of populations and control of the western bean
sporium zonatum in Costa Rica. CERATDCYSTIS FAGACAERUM Dak wilt identified in Texas. CERATDCYSTIS FAGACEARUM Symptoms in relation to infection pattern in white oak. The effect of conidiai concentration on perithecial for tion by the oak wilt fungus. The importance of root grafts in oak wilt spread in mis souri.	2795 2397 2319 ma- 2415	Microblai and chemical control of hornworms attacking to- bacco in Ontario. 2959 Some aspects of insecticidal and biological control of the woolly apple aphid, Eriosoma lanlgerum (Hsm.) in rhodesia. 2965 Evaluation of populations and control of the western bean cutworm in field beans in nebraska. 2974 Chemical control of the beet webworm on sugar beets in
sporium zonatum in Costa Rica. CERATDCYSTIS FAGACAERUM Dak wilt identified in Texas. CERATDCYSTIS FAGACEARUM Symptoms in relation to infection pattern in white oak. The effect of conidiai concentration on perithecial for tion by the oak wilt fungus. The importance of root grafts in oak wilt spread in mis	2795 2397 2319 ma- 2415 2570	Microblai and chemical control of hornworms attacking to- bacco in Ontario. 2959 Some aspects of insecticidal and biological control of the woolly apple aphid, Eriosoma lanlgerum (Hsm.) in rhodesia. 2965 Evaluation of populations and control of the western bean cutworm in field beans in nebraska. 2974 Chemical control of the beet webworm on sugar beets in southern Alberta. 2986
sporium zonatum in Costa Rica. CERATOCYSTIS FAGACAERUM Dak wilt identified in Texas. CERATOCYSTIS FAGACEARUM Symptoms in relation to infection pattern in white oak. The effect of conidiai concentration on perithecial for tion by the oak wilt fungus. The importance of root grafts in oak wilt spread in mis souri. CERATOCYSTIS FIMSRIATA Pathogenicity test with different isolates of Ceratocys fimbriata. CERATOCYSTIS ULMI	2795 2397 2319 2415 2570	Microbiai and chemical control of hornworms attacking to- bacco in Ontario. 2959 Some aspects of insecticidal and biological control of the woolly apple aphid, Eriosoma lanlgerum (Hsm.) in rhodesia. 2965 Evaluation of populations and control of the western bean cutworm in field beans in nebraska. 2974 Chemical control of the beet webworm on sugar beets in southern Alberta. 2986 Horn fly control studies in Missimaippi, 1961. 3081 Progress report on granular formulations of insecticides for
sporium zonatum in Costa Rica. CERATOCYSTIS FAGACAERUM Dak wilt identified in Texas. CERATOCYSTIS FAGACEARUM Symptoms in relation to infection pattern in white oak. The effect of conidial concentration on perithecial for tion by the oak wilt fungus. The importance of root grafts in oak wilt spread in mis souri. CERATOCYSTIS FINGRIATA Pathogenicity test with different isolates of Ceratocys fimbriata.	2795 2397 2319 ma- 2415 2570 ttls 3191	Microblai and chemical control of hornworms attacking to- bacco in Ontarlo. 2959 Some aspects of insecticidal and biological control of the woolly apple aphid, Eriosoma lanlgerum (Hsm.) in rhodesia. 2965 Evaluation of populations and control of the western bean cutworm in field beans in nebraska. 2974 Chemical control of the beet webworm on sugar beets in southern Alberta. 2986 Horn fly control studies in Missimsippi, 1961. 3081 Progress report on granular formulations of insecticides for controlling termites. 3122 Experiments of control of the northern fowl mite. 3136 CHEMICAL CONTROL (NEMATODES) A technique for the selection and disinfestation of indivi-
sporium zonatum in Costa Rica. CERATDCYSTIS FAGACAERUM Dak wilt identified in Texas. CERATDCYSTIS FAGACEARUM Symptoms in relation to infection pattern in white oak. The effect of conidiai concentration on perithecial for tion by the oak wilt fungus. The importance of root grafts in oak wilt spread in mis souri. CERATDCYSTIS FINGRIATA Pathogenicity test with different isolates of Ceratocys fimbriata. CERATDCYSTIS ULMI CERATDCYSTIS ULMI Ceratocystis ulmi and zinc chloride experiment.	2795 2397 2319 2415 2570 2570 2486 2529	Microblai and chemical control of hornworms attacking to- bacco in Ontario. 2959 Some aspects of insecticidal and biological control of the woolly apple aphid, Eriosoma lanlgerum (Hsm.) in rhodesia. 2965 Evaluation of populations and control of the western bean cutworm in field beans in nebraska. 2974 Chemical control of the beet webworm on sugar beets in southern Alberta. 2986 Horn fly control studies in Missimsippi, 1961. 3081 Progress report on granular formulations of insecticides for controlling termites. 3122 Experiments of control of the northern fowl mite. 3136 CHEMICAL CONTROL (NEMATODES) A technique for the selection and disinfestation of indivi- dual nematodes. 2351
 sporium zonatum in Costa Rica. CERATOCYSTIS FAGACAERUM Dak wilt identified in Texas. CERATOCYSTIS FAGACEARUM Symptoms in relation to infection pattern in white oak. The effect of conidiai concentration on perithecial for tion by the oak wilt fungus. The importance of root grafts in oak wilt spread in mis souri. CERATOCYSTIS FIMSRIATA Pathogenicity test with different isolates of Ceratocys fimbriata. CERATOCYSTIS ULMI Ceratocystis ulmi and zinc chloride experiment. Virulence in Ceratocystis ulmi. Species of elm on the University of Illinois campus res 	2795 2397 2319 ma- 2415 2570 t1s 3191 2486 2529 2529	Microbiai and chemical control of hornworms attacking to- bacco in Ontario. 2959 Some aspects of insecticidal and biological control of the woolly apple aphid, Eriosoma lanlgerum (Hsm.) in rhodesia. 2965 Evaluation of populations and control of the western bean cutworm in field beans in nebraska. 2974 Chemical control of the beet webworm on sugar beets in southern Alberta. 2986 Horn fly control studies in Missimalppi, 1961. 3081 Progress report on granular formulations of insecticides for controlling termites. 3122 Experiments of control of the northern fowl mite. 3136 CHEMICAL CONTROL (NEMATODES) A technique for the selection and disinfestation of indivi- dual mematodes. 2351 Some effects of chemical amendments and cultural conditions on population levels of Xiphinema americanum. 3043 Elimination of nematodes from nursery plants by chemical
 sporium zonatum in Costa Rica. CERATDCYSTIS FAGACAERUM Dak wilt identified in Texas. CERATDCYSTIS FAGACEARUM Symptoms in relation to infection pattern in white oak. The effect of conidial concentration on perithecial for tion by the oak wilt fungus. The importance of root grafts in oak wilt spread in mis souri. CERATDCYSTIS FIMBRIATA Pathogenicity test with different isolates of Ceratocys fimbriata. CERATDCYSTIS ULMI Ceratocystis ulmi and zinc chloride experiment. Virulence in Ceratocystis ulmi. Species of elm on the University of Illinois campus res tant to dutch eim disease. 	2795 2397 2319 2415 2570 2570 2486 2529 2529	Microblai and chemical control of hornworms attacking to- bacco in Ontario. 2959 Some aspects of insecticidal and biological control of the woolly apple aphid, Eriosoma lanlgerum (Hsm.) in rhodesia. 2965 Evaluation of populations and control of the western bean cutworm in field beans in nebraska. 2974 Chemical control of the beet webworm on sugar beets in southern Alberta. 2986 Horn fly control studies in Missimsippi, 1961. 3081 Progress report on granular formulations of insecticides for controlling termites. 3122 Experiments of control of the northern fowl mite. 3136 CHEMICAL CONTROL (NEMATODES) A technique for the selection and disinfestation of indivi- dual nematodes. 2351 Some effects of chemical amendments and cultural conditions on population levels of Xiphinema americanum. 3043
 sporium zonatum in Costa Rica. CERATDCYSTIS FAGACAERUM Dak wilt identified in Texas. CERATDCYSTIS FAGACEARUM Symptoms in relation to infection pattern in white oak. The effect of conidiai concentration on perithecial for tion by the oak wilt fungus. The importance of root grafts in oak wilt spread in mis souri. CERATDCYSTIS FIMSRIATA Pathogenicity test with different isolates of Ceratocys fimbriata. CERATDCYSTIS ULMI Ceratocystis ulmi and zinc chloride experiment. Virulence in Ceratocystis ulmi. Species of elm on the University of Illinois campus rest tant to dutch elm disease. Effectiveness of Vapam in preventing root graft transmi ion of the dutch elm disease fungus. CERATDCYSTIS ULMI (BUIS.) MOREAU The potential of magdalls spp. in the transmission of 	2795 2397 2319 ma- 2415 2570 4119 3191 2486 2529 2529 2529 2701 39- 2702	Microbiai and chemical control of hornworms attacking to- bacco in Ontario. 2959 Some aspects of insecticidal and biological control of the woolly apple aphid, Eriosoma lanlgerum (Hsm.) in rhodesia. 2965 Evaluation of populations and control of the western bean cutworm in field beans in nebraska. 2974 Chemical control of the beet webworm on sugar beets in southern Alberta. 2986 Horn fly control studies in Missimsippi, 1961. 3081 Progress report on granular formulations of insecticides for controlling termites. 3122 Experiments of control of the northern fowl mite. 3136 CHEMICAL CONTROL (NEMATODES) A technique for the selection and disinfestation of indivi- dual nematodes. 3043 Elimination of nematodes from nursery plants by chemical bare-root dips. 3047 Drench treatment of roses in containers for root-lesion ne-
 sporium zonatum in Costa Rica. CERATDCYSTIS FAGACAERUM Dak wilt identified in Texas. CERATDCYSTIS FAGACEARUM Symptoms in relation to infection pattern in white oak. The effect of conidial concentration on perithecial for tion by the oak wilt fungus. The importance of root grafts in oak wilt spread in mis souri. CERATDCYSTIS FIMBRIATA Pathogenicity test with different isolates of Ceratocys fimbriata. CERATDCYSTIS ULMI Geratocystis ulmi and zinc chloride experiment. Virulence in Ceratocystis ulmi. Species of elm on the University of Illinois campus res tant to dutch elm disease. Effectiveness of Vapam in preventing root graft transmi ion of the dutch elm disease fungus. CERATOCYSTIS ULMI (BUIS.) MOREAU The potential of magdalls spp. in the transmission of Ceratocystis ulmi (Buis.) Moreau. CERATOCYTIS ULMI 	2795 2397 2319 ma- 2415 2570 119 2486 2529 2529 2529 2701 39- 2702 2459	Microblai and chemical control of hornworms attacking to- bacco in Ontario. 2959 Some aspects of insecticidal and biological control of the woolly apple aphid, Eriosoma lanlgerum (Hsm.) in rhodesia. 2965 Evaluation of populations and control of the western bean cutworm in field beans in nebraska. 2974 Chemical control of the beet webworm on sugar beets in southern Alberta. 2986 Horn fly control studies in Missimispi, 1961. 3081 Progress report on granular formulations of insecticides for controlling termites. 3122 Experiments of control of the northern fowl mite. 3136 CHEMICAL CONTROL (NEMATODES) A technique for the selection and disinfestation of indivi- dual nematodes. 2351 Some effects of chemical amendments and cultural conditions on population levels of Xiphinema americanum. 3043 Elimination of nematodes from nursery plants by chemical bare-root dips. 3047 Drench treatment of roses in containers for root-lesion ne- matode disease. 3066 Chemical control of Meloidogyne arenaria on Spanish pea-
 sporium zonatum in Costa Rica. GERATDCYSTIS FAGACAERUM Dak wilt identified in Texas. GERATDCYSTIS FAGACEARUM Symptoms in relation to infection pattern in white oak. The effect of conidial concentration on perithecial for tion by the oak wilt fungus. The importance of root grafts in oak wilt spread in mis souri. GERATDCYSTIS FINBRIATA Pathogenicity test with different isolates of Ceratocys fimbriata. GERATDCYSTIS ULMI Ceratocystis ulmi and zinc chloride experiment. Virulence in Ceratocystis ulmi. Species of elm on the University of Illinois campus rest to dutch elm disease. Effectiveness of Vapam in preventing root graft transmi ion of the dutch elm disease fungus. GERATDCYSTIS ULMI (BUIS.) MOREAU The potential of magdalls spp. in the transmission of Ceratocystis ulmi (Buis.) Moreau. GERATDCYTIS ULMI Dutch elm disease in Kansas in 1964. GERATOGYTIS ULMI 	2795 2397 2319 2415 2570 2570 2529 2486 2529 2529 2701 2529 2702 2459 2930	Microbiai and chemical control of hornworms attacking to- bacco in Ontario. 2959 Some aspects of insecticidal and biological control of the woolly apple aphid, Eriosoma lanlgerum (Hsm.) in rhodesia. 2965 Evaluation of populations and control of the western bean cutworm in field beans in nebraska. 2974 Chemical control of the beet webworm on sugar beets in southern Alberta. 2986 Horn fly control studies in Missimsippi, 1961. 3081 Progress report on granular formulations of insecticides for controlling termites. 3122 Experiments of control of the northern fowl mite. 3136 CHEMICAL CONTROL (NEMATODES) A technique for the selection and disinfestation of Indivi- dual nematodes. 2351 Some effects of chemical amendments and cultural conditions on population levels of Xiphinema americanum. 3043 Elimination of nematodes from nursery plants by chemical bare-root dips. 3047 Drench treatment of roses in containers for root-lesion ne- matode disease. 3078 Chemical control of Meloidogyne arenaria on Spanish pea- nuts in Texas. 3078

PAGE 77

CHEMICAL CONTROL (PLANT DISEASES)

ln El Salvador. 2266

CHEMICAL NUTRIENTS	
Common and dwarf bunts, their chemical control in the Par fic Northwest.	cl- 2759
CHEMICAL NUTRIENTS Some chemical requirements for the growth and sporulation Alternaria tomato.	n of 2274
CHEMICAL TREATMENT Reduction of postharvest decay of strawberries with chem and heat treatments.	icai 3091
CHEMICALS Chemical control of peach tree chiorosis.	2391
CHEMORECEPTORS The fine structure of the labeliar chemosensory hairs of blowfly, Phormia regina Meig.	the 2140
CHEMOSTERILANTS Effect of pH on sterijizing activity of tepa and metepa : maie house files.	in 2063
Response of citrus red mite to chemical sterilants.	2073
Chemosteriiant efficiency of bis(l-aziridinyi)phosphinyi carbamates in screw worm flies.	2079
Some effects of chemosteriiants on the little house fiy.	2083
Chemicais affecting fertility in adult house files.	2105
Some effects of gamma radiation and a chemosterilant on Mexican bean beetle.	t he 2120
Radiosterilation vs. chemosterilization in house files a mosquitoes.	nd 2192
Nitrofurans as chemosterilants of stored-grain insects.	2213
CHEMOTHERAPEUTANTS Screening of fungicides and chemotherapeutants for contro of pink root of onions and shailots.	⊃i 2611
CHENOPODIUM AMARANTICOLOR	
Tomato ring spot virus isolated from Eola rasp leaf of	2664
CHERRIES	2336
	2575
Some seedlings of the Van cherry found to be superior to Bing as indicators for the twisted leaf virus.	2633
Jugians regia apparently not susceptible to elm and chern isolates of Verticiiium albo-atrum.	ry 2671
Rio Oso Gem peach seedlings as indicator hosts for the Prunus ring spot virus.	2749
CHICKPEAS A Stemphylium leaf spot disease of gram.	2382
CHITIN Chitin and the biological control of Fusarium diseases.	2675
CHLORAMPHENICOL	
Influence of chioramphenicol on some aspects of the metal	052
CHLOROGENIC ACIDS Relation of chlorogenic acid and free phenols in potato roots to infection by Verticiliium albo-atrum.	3239
CHLOROPICRIN Control of Fusarium yeilows of celery by means of soil fu igation.	um- 2289
CHLOROSIS (CITRUS) Citrus nematode on American persimmon in Israel.	3017
CHLOROSIS (PEACHES) Chemical control of peach tree chlorosis.	2391

CHLOROTIC DWARF (PINUS STROBUS) Effects of nutrition on the chiorotic dwarf disease on castern white pine.
CHLOROTIC LEAFSPOT (APPLES) Spread of apple chlorotic leaf spot virus from tree to tree. 2655
CHOANEPHORA CUCURGITARUM Choanephora pod rot of cowpeas. 2877
CHOLESTEROL Effect on boil weevil progeny of cholesterol added to the adult diet as a powder or an ether solution. 2153
CHOLINE Antimetabolites in the nutrition of aedes aegypti L. iarvae. The substitution of choilne by related substances and the effect of choilne inhibitors. 2044
The nutrition of choline, carnitine, and related compounds in the blowfly, Phorma regina Meigen. 2123
CHOLINERGIC SUBSTANCES The effects of choijnergic substances upon the isolated heart of Peripianeta americana. 2158
CHOLINERGIC SYSTEM Development of the cholinergic system in insect eggs. 2157
CHOLINESTERASES Inhibition of fiy-head choiinesterase in vitro by pilocar- pine and atropine. 2071
Partial purification and properties of flyhead cholinesterase. 2005
CHORISTONEURA FUMIFERANA Comparing various methods of predicting development of spruce budworm, Choristoneura fumiferana, in northern Minnesota. 1995
Hinnesota Host preference for oviposition by the spruce budworm in the Lake States. 2230
CHORISTONEURA PINUS Natural control factors associated with the jack-Pine budworm, Choristoneura pinus. 2001
CHORIZAGROTIS AUXILIARIS Effects of food, temperature and oviposition site on longevity and fecundity of the army cutworm. 2179
CHRISTMAS GREENS Parathion residue in greens. 3108
CHROMAPHIS JUGLANDICOLA Control of the wainut aphid and codiing moth on wainuts in northern California. 3004
CHROMATOGRAPHY The chemical basis of hostplant selection in the silkworm, 8ombyx mori (L.). 2169
The free amino acids of the ageing female Aedes aegypti mosquito. 2211
Chromatographic purification of the carnation ringspot, car- nation mottie, and tobacco necrosis viruses. 2903
CHROMIC OXIDE METHOD Comparison of gravimetric and chromic oxide methods for measuring percentage utilization and consumption of food by phytophagous insects. J277
CHRYSANTHEMUM MORIFOLIUM A flower rot symptom associated with Stemphylium ray speck of chrysanthemum. 2548
Infiuence of nitrogen and potassium on susceptibility of Chrysanthemum morifolium to Botrytis cinerea. 3224
CHYRSANTHEMUM MORIFOLIUM A bacterial leaf spot of fiorists chrysanthemums, Chyrsan- themum morifolium. 2657

COCHE	20110401	SATIVUS

			CDCHETUBULUS SATIVU
CICADAS Anaiysis	of songs of Japanese cicadas.	2110	Attempts to improve the growth of Radopholus similis-in- fected citrus with under-tree drenches of Zinophos. 3018
CIMEX LECTU Proionged	LARIUS resistance in the house fiy and bed bug.	2153	Occurrence of plant-parasitic nematodes in citrus blight areas. 3027
CIODRIN			Citrus-root nematode in Iraq in 1965. 3051
Tests of a musca aut	ciodrin and other materiais against face fiy, umnaiis.	3138	Efficacy of DBCP flood irrigation in established citrus. 3054
citral in	echanisms of arthropods-VII. Citroneiial and the mandibuiar giand secretion of the ant ops ciaviger (Roger).	2070	Effectiveness of DBCP and fungicides for the control of Radopholus similis on citrus trees. 306B
CITRONELLAL			Nature of resistance in certain citrus rootstocks to citrus nematode. 3075
citrai in	echanisms of arthropods-VII. Citroneliai and the mandibuiar giand secretion of the ant ops ciaviger (Roger).	2070	Influence of gamma radiation dose rate on decay of citrus, pcars, and peaches. 3197
	associated with citrus trees infected by four comments about nematode distribution in Fior oves.		CITRUS NEMATODE Some soil factors influencing reproduction of the citrus nematode and growth reduction of sweet orange seedlings. 2901
	gs of the third conference of the Internationation of Citrus Virologists.	2251	Citrus nematode on American persimmon in Israei. 3017
	eases of cltrus in the Phiilppines.	2254	Nature of resistance in certain citrus rootstocks to citrus nematode. 3075
The citrus	s Budwood Program in Concordia, Argentina.	2299	CITRUS SINENSIS OSBECK
	and physiological properties of fungus causing trus fruit.	g sour 2331	Quantitative determination of the free amino acids and amides in roots and ieaves of heaithy and exocortis-infected Citrus sinensis Osbeck on Poncirus trifoiiata Raf. 2412
	e of excessive seed abortion in citrus fruits th stubborn disease.	af- 2341	CLAVICEPS GIGANTEA Claviceps gigantea, a new pathogen of maize in Mexico. 2440
·	ts on mechanicai transmission of citrus viruse	2383	CLEMENTINE MANDARINES Some morphological and physiological features of Clementine
	cation of citrus canker.	239B	mandarin trees affected by cachexea. 2551
amides ln	ive determination of the free amino acids and roots and leaves of heaithy and exocortis-inf nensis Osbeck on Poncirus trifoliata Raf.	lected 2412	CLERODENDRON Cercospora leafspot of Cierodendron. 224B
Progress i	in citrus virology: mechanical transmission.	2463	CLIMATE Effect of elevation, rainfall and temperature upon the inci- dence of corn diseases in Costa Rica. 2318
	um, an indicator of extent of infection in Phy root rot of citrus.	2601	Factors affecting the spread of hop downy miidew in an arid ciimate. 2783
Distributi in citrus	ion and movement of psorosis and tristeza viru trees.	2719	CLIMBING PLANTS Aspects of the host-parasite relationship of nematodes asso- ciated with woody ornamentals. 3037
The preser Cyprus.	nt status of Impietratura, a citrus disease, i	2735	CLITOCYBE OLEARI A species of Ciitocybe associated with deciining oak and
	rence of pits and protuberances in the xyiem o rleties in Israei.	2735	sycamore in California. 2685
Citrus dec	cline in South India.	2767	CLONES Behaviour of 77 tristeza tolerant rootstocks with old and nuceilar clones of Barao orange scions. 2582
The citrus Sao Paulo	s Budwood Certification Program in the state o •	2785	Variability in the growth patterns of single cell ciones of normal and grape Phyliozera gail callus in vitro. 3107
Citrus vir	rus diseases of Trinidad, Jamaica, and Britis)	2794	CLOVER CYST NEMATODE Effect of clover cyst nematode on growth of red and white
Varioia -	a probable virus disease of citrus.	2795	clover. 3016
Distributi trees.	ion and movement of exocortis virus in citrus	2797	CLUBRODT (CRUCIFERAE) Testing crucifers for resistance to clubroot in New Hamp- shire. 2346
Testing ci	itrus trees for viruses.	2795	COB ROT (CORN)
Effects of	f exocortis disease on four citrus rootstocks.	2827	Nigrospora cob rot of corn in the United Arab Republic. 2678
Promising oranges.	decay inhibitors for postharvest use on Fiori	284 I	COCCINELLIDAE Coliection of predaceous iady beetie, Hyperaspis trilin- eata, in Barbados, and shipment to Havaii. 1998
	n of ethyiene chiorobromide as a fumigant for d mangoes infested by the Mexican Fruit Fiy.	2960	COCHLIOBOLUS SATIVUS Inherent germinability and survival of spores of Cochilo- bolus sativus. 2355
	ility of some species and varieties of Citrus r rutaceous plants to the citrus nematode.	and 3010	

COCHLIOMYIA HOMINIVORAX COCHLIONYIA HOMINIVORAX Chemosterliant efficiency of bis(1-aziridinyi)phosphinyi carbamates in screw worm files. 2079 COCHLIGAYIA HOMINIVORAX Absorption, excretion, and metaboilsm of P32-labeled metepa by screw-worm and stable flics. 207 2072 COCOA Sporulation and compatibility types of Phytophthora paimi-vora isolated from cocoa in Mexico. 27 2784 A world survey of Phytophthora palmivora on cocoa. 2895 COCDA MIRID Contact toxicities of 22 insecticides to the cocoa mirid Distantleiia theobroma(Dist.) (Hemiptera, Miridac). 3167 COCONUTS The rolc of the paim weevil, Rhynochopphorus palmarum, a vector of red ring disease of coconuts. I. results of preliminary investigations. as 2007 Yellow mottle decline of coconuts in the territory of Guam COFFEA ARABICA 'FEA ARABICA Vinas disease of coffee (Coffea arabica) in Guatemaia. 2245 COFFEA EXCELSA transmission of coffee ring spot by Excelsa coffee 2771 (coffee Exceisa). COFFEE erotium disease of coffee incited by Scierotium coffei-2405 colum. The use of fungicides in the control of Cercospora coffeicola on coffee. 2844 COLD STORAGE The effect of standard coid storage and controlied atmosphere storage on survival of larvae of the oriental fruit moth, Grapholita molesta. 2092 COLEOPTERA Studies on the dermested beetle Trogoderma granarium Everts - IV. Feeding, growth, and respiration with particular reference to diapause larvae. 2065 An electrophysiological investigation of the divided eye of Gyrinus bicolor F. 206 2063 COLEOSPORIUM VERNONIAE Epidemics of pine needle rust in Arkansas. 2934 COLLAR ROT (PIPER NIGRUM) Susceptibility of native piper species to the coilar-rot pathogen of black pepper in Puerto Rico. 2792 COLLAR ROT (BEANS) A hypocotyl coliar rot of Phaseolus vulgaris. 2928 COLLECTOTRICHUM Morphology, taxonomy, and sexuality of the ascogenous s of two Colletotrichum spp. that attack cucurbits. 2552 COLLETOTRICHUM COCCODES Nitrogen nutrition of Colletotrichum coccodes. 2612 COLLETOTRICHUM LAGENARIUM Standardization of a procedure for artificial inoculation of cucumbers with Colletotrichum lagenarium. 2629 2629 COLONECTRIA RIGIDIUSCULA Loss of gali-inducing capacity on cacao, when Calonectria rigidiuscula passes from the conidial (Fusarium) stage through the perfect (ascospore) stage. 2540 COLOR A color preference of the western flower thrips, Frank-liniella occidentalis. 2021 COLORADO Cytospora canker recurrence on Douglas-fir in Colorado. 2521 The occurrence of pear bark measies in Colorado Bartiett 2638

Scleroderris canker of subaipine fir in Colorado. 2850 COLORIMETRY A study of housefly esterases by means of a sensitive colorimetric method. 2042 COLUMNS (PROCESS) Conditions favorable for adsorption and elution of tobacco mosaic virus in an Ecteoia-cellulose column. 27 2766 Use of a portable inoculation tower in laboratory, preen-house, and field tests of fungicides to control rice blast. 3275 COMMON SUNT Common and dwarf bunts, their chemical control in the Paci-fic Northwest. 27 2759 CONDENSED TOP (TOMATOES) A new virus disease of tomato from the Sudan. 2946 CONFERENCES Symposium on cankers of forest trees; invitational papers presented August 28, 1963, at the fifty-fifth annual meeting of the American Phytopathological Society at Amherst, Massachusetts. 2. Proceedings of the third conference of the International Organization of Citrus Virologists. CONTROL EQUIPMENT An inexpensive cabinet for temperature and humidity control. CONTROLLED ATMOSPHERE STORAGE INTRULEED ATHOSPHENE STUDNES The effect of standard cold storage and controlled atmosphere storage on survival of larvac of the oriental fruit moth, Grapholita molesta. 2092 CONTROLLED ENVIRONMENT An inexpensive cabinet for temperature and humidity control. 3257 COPRA Yeliow mottle decline of coconuts in the territory of Guam. COREOPSIS GRANDIFLORA Coreopsis flower droop. 2939 CORK Relation of insects to internal cork of sweet potato in 2980 Louisiana. CORM ROT (GLADIOLUS) Control of bacterial scab and Fusarium corm rot of giadio-2712 ius. CORN Oviposition and establishment of the southwestern corn borer 2205 on corn. Sun scaid of corn in Wisconsin in 1961. 2242 Ear removal and cell death rate in corn stalk tissue. 2244 Stewart s disease: expected development on corn tn illinols 2315 in 1961. Effect of elevation, rainfail and temperature upon the inci-dence of corn diseases in Costa Rica. 2318 2318 Symptoms and distribution of corn stunt disease in Missouri 2335 in 1964. 2378 Additional data on corn virus in arkansas. Infection of sugarcane with mechanically transmissible corn 2379 virus. Pathogenicity and population trends of Pratylenchus pene-trans on potato and corn. 2392 2407 Maize dwarf mosaic in Ohio in 1964. Corn naturally infected by sugarcane mosalc virus in Callfornia. 2433

0		

Claviceps gigantes, a new pathogen of maize in Mexico. 2	COSTA RICA Effect of cievation, rainfall and temperature upon the inci- dence of corn diseases in Costa Rica. 2316	
Host-pathogen relationship of Helminthosporium turcicum i resistant and susceptible corn seediings.	n 519 – Outbreak of curiy top in Costa Rica. 2781	1
Occurrence of Puccinia polysora ln iiiinois. 23	532 Appearance of zonai leaf spot of coffee caused by Cephalo- sportium zonatum in Costa Rica. 2795	6
A new type of resistance in corn to Heiminthosporium tur- cicum. 2	533 Distribution and pathogenicity of strains of Pseudomonas	
Development of nearly isogenic rust-resistant lines of co 2:	rn. 534 COTTON	
A new kernel rot disease of corn in wisconsin. 2:	Populations of certain insects and spiders on cotton plants 535 following insecticide applications. 2026	
A corn disease in Iowa. 2	515 Seasonal occurrence of tobacco budworm on cotton in Georgia. 2033	3
Nigrospora cob rot of corn in the United Arab Republic. 21	573 Relative seasonal abundance of two species of heliothis on cotton in an area of brazos county, texas. 2034	4
The occurrence and transmission of maize dwarf mosaic in Virginia. 2	777 Boil weevil oviposition responses in cotton squares and various other substrates. 2098	e
Seed transmission of the Johnson grass strain of the suga cane mosaic virus in corn. 2.		
Some corn (maize) virus diseases in the United States in	New type of symptoms on Verticiiilum wilt of cotton. 229	5
A sap-transmissable virus associated with a new disease o		
	371 occurrence. 2306	-
Fungi isolated from unstored corn seed in Indiana in 1956 1958. 21	- Fusarium wilt of cotton in Arizona. 2307 393 Frequency of cotton plants resistant to Fusarium wilt in	
The influence of gibberellic acid on seedling blight of c. 2		5
Silk bailing and other factors associated with resistance corn to corn earworm.	of Myrothecium roridum Tode as a cotton pathogen。 2357 184	7
Rating dent corn for resistance to rice weevils.	Correlation between Fusarium wilt indices of cotton varie- ties with root-knot and with sting nematodes as predispos- 385 ing agents. 2364	e
Systates exaptus Mshi. (Col., CurculionIdae) and related	Varietal resistance to seedling disease in cotton. 2442	2
Pratylenchus zeae found on corn, milo, and three suspected		0
new hosts in California. 3 RN EAR	009 Pellicularia filamentosa a common saprophyte on mature cot- ton stems in Louisiana. 2635	
Ear removal and ceil death rate in corn stalk tissue. 23	244 Dbservations on cotton boll rot at Florence, South Caro- lina in 1964. 264	8
RN STALK Ear removal and celi death rate in corn staik tissue. 23	Uncoliapsed fibers associated with boll rot in cotton. 2645	9
RPORA ALLATA The release by feeding of a pharmacologically active facto from the corpus cardiacum of Periplaneta americana. 20	Crop rotation studies: I. Fungl isolated from cotton seed- or lings from the permanent fertilizer experiment at 8ahtim. 287	g
	on Evaluation of two systemic insecticIdes applied as seed 171 treatment for the controi of Meloidogyne Incognita acrita attacking cotton. 2716	6
RPORA CARDIACA The nervous pathway involved in the release by feeding of pharmacologically active factor from the corpus cardiacum	of California cotton. 2805	
The release by feeding of a pharmacologically active factor		8
RYNEBACTERIUM INSIDIOSUM	387 Estimates of the numbers of Hellothis larvae per acre in cotton and their relation to the fruiting cycle and yield of acres.	
	the host. 2953 705 The effect of late season infestations of the strawberry spider mite, Tetranychus atlanticus, on cotton production.	5
RYMEBACTERIUM SPP. Stunt disease of soybeans caused by Corynebacterium sp. 2:	spider mile, letrangenus atlanticus, on cotton production. 2964	4
RYNESPORA CASSIICOLA	A technique for measuring certain aspects of antibiosis in cotton to the boll weevil. 2974	8
STA RICA	Early detection of hellothis on cotton. 2983	7
The natural enemies of some banana Insect pests in Costa	Control of spider mites on cotton. 2988	8
	Control in the pink bollworm and a method for estimating losses in cotton yield. 2997	7
	PAGE	8

COTTONSEED

Insecticidal control of first-instar pink boliworm larvae and observations of their dispersal on cotton plants. 2998 New combinations of nematocides for control of reniform 3012 nematode of cotton. Effects of 7 nematode species on 10 cotton selections. 3049 Significance of potassium fertilization in nematode infested cotton fields. 3053 Systemic effectiveness of insecticides against boll weevil larvae and other cotton pests. 3126 Control of certain insects and mites on cotton with three 3148 systemic organophosphorus compounds. Host-parasite studies on reniform nematode on cotton. 3195 Adapted tolerance to organic fungicides by isolates of Rhi-zoctonia solani from seedling cotton. 321 3216 Observations on response of greenhouse-grown cotton to ex 3249 cessive dosages of phosphate insecticides. Elevated screens for collecting boll weevils flying between hibernation sites and cottonfields. 3292 COTTONSEED Longevity of Xanthomonas malvacearum on and in cotton seed. 2539 COUMAPHOS Control of the face fly on cattle with co-rai in grain and 3082 on pasture. COWPEAS In vitro reaction of tobacco ringspot virus on black cowpea leaves. 2255 Wiit of chrysanthemum caused by race 1 of the cowpea Fusar 2273 lum. The relationship of severe bean mosaic virus from Mexico to southern bean mosaic virus and its related strain in cowpea. 2477 A reason for the number order of blological races. 2499 Immunity to bean yellow mosaic virus in cowpea. 2603 Separation of cowpea virus mixtures. 2610 Properties of a mosaic virus of cowpea and its relationship to the bean pod mottle virus. 2820 Choanephora pod rot of cowpeas. 2877 Sources of resistance to the cowpea yellow mosaic virus. 2919 CRANBERRIES Occurrence, parasitism, and pathogenicity of nematodes asso-ciated with cranberry. 301: 3013 Population dynamics of nematodes in cranberry soils. 3077 Reduction of frost injury in cranberries by fungicide treat-3251 ments. CRANBERRY BOGS Effect of cranberry bog flooding and low dissolved oxygen 3014 concentrations on nematode populations. 3077 Population dynamics of nematodes in cranberry solls. CREASE STEM Dwarfing of summer tomatoes by crease stem. 294B CRINKLE LEAF (POKEWEED) Pokeweed crinkle leaf, caused by a virus transmitted by dod-der from desert shrubs in southern California. 2613 2613 CRINKLE LEAF (SOYBEANS) A leaf-crinkling bacterium of soybeans. 2852 CRISTULARIELLA PYRAMIDALIS Extension of range and a new host for Cristulariella pyra idalis. 2303 CRONARTIUM CEREBRUM Serological comparison of Cronartium fusiforme, C. cere-brum, and C. ribicola. 2239 CRONARTIUM FUSIFORME Serological comparison of Cronartium fusiforme, C. cere-brum, and C. ribicola. 2239 Dak leaf age and susceptibility to Cronartium fusiforme. 2542 Effect of Phytoactin on the fusiform rust fungus, Cronar-2867 tium fusiforme. CRONARTIUM RIBICOLA Serological comparison of Gronartium fusiforme, C. cere-brum, and C. ribicola. 2239 CROTKED CALE DISEASE congenital deformity experimentally produced in calves by feeding lupine and lead. 3123 CROP LOSSES Assessment of loss due to grain smut of jowar millet (Sorg hum vulgare) in India. 2651 New techniques for plant disease surveys and for appraisal of losses. 266B 3065 Wheat grain josses caused by nematodes. CROP ROTATION Crop rotation studies: I. Fungi isolated from cotton seed-lings from the permanent fertilizer experiment at Bahtim. 2679 Effects of seed inoculation, soil fumigation, and cropping sequences on nodulation of soybeans grown in soybean-cyst-nematode-infested soil. 302 3021 CROP YIELDS Effects of four viruses on yield and quality of King Cardinal carnations. 2323 Influence of necrotic ringspot virus on growth and yield of peach trees. 274 Effect of strains of the beet mosaic virus on the yield of sugarbeets. 2821 Estimates of the numbers of Heliothis larvae per acre in cotton and their relation to the fruiting cycle and yield of 2955 the host. Control in the pink boliworm and a method for estimating 2997 losses in cotton yield. The use of systemic insecticides for control of the potato leafhopper, Empoasca fabae, and effect on potato yield. 3003 Behavior of populations of Heterodera glycines under vari ous cropping sequences in field bins. 3022 Influence of sting nematode control with 0,0-diethyl 0-2-pyrazinyl phosphorothioate on yield and quality of peanuts 3061 Effect of seed-treatment fungicides on grain yield and 3231 stands of winter and spring wheat. CROPS Overgrowth in Malayan crop plants following infection by Fusarium solani and F. decemceliulare. 2476

Reaction of white clover and flve other crops to Pratylenchus scribneri. 3049

Phosphamidon residue studies on vorious crops. 3115

CROWN BLIGHT (CANTALDUPES) The relationship of mosaic virus disease to crown blight of cantaloup. 2703	CUCUMIS Myrot
CROWN GALL (RHODODENDRON)	CUCUMIS A new
Crown-gall disease on Rhododendron. 241: CRDWN GALL TUMDRS	CUCUR81 Obser
Distinguishing tissue of normal and pathological origin on complex media. 2849	wllt. 9 CUCUR8I
CROWN GALLS Susceptibility of Artemisia vuigaris and heilanthus tuber- osus to crown gail, Agrobacterium tumefaciens. 2273	Inher curbl 7 CUCUR81
Systemic invasion of the host plant by the tumor-inducing bacterium, Pseudomonas savastanol. 2938	Some
CROWN GALLS (FRUIT) Crown gall disease in Israel. 2904	
CROWN GALLS (FRUITS) Experimental greenhouse control of crown gall and olive know	
with antibiotic drenches. 227: CROWN GALLS (HERBS)	5 CUCUR8I Morph of tw
Influence of temperature on inlation of crown gall in woody hosts. 238	A stu
CROWN RDT (ALFALFA) Phytophthora root and crown rot of alfalfa in the Ya- zoo-Mississippi Deita. 2563	and A Diel
CROWN RDT (BANANAS) Crown rot of boxed bananas. 2474	local P32-1
CROWN ROT (BLUEBERRIES)	Radic
Observations on new or unusual diseases of highbush blueber- ry. 2765	5 Feedl
CROWN RDT (RED CLOVER) Internal breakdown in crown of red clover. 2460	mosqu 5 The f
CROWN RUST (DATS) Variability in the physiologic race populations of oat crown rust isolated from aecia and uredia. 2421	mosqu I Aver
Physiologic races of crown rust of oats identified in 1960. 2825	habit The e Anoph
CRUCIFERAE Testing crucifers for resistance to clubroot in New Hamp-	enter Evaju
shire. 2340 CRUCIFERS	5 traps CULTURA
Metabolic studies on the host-parasite complex of Albugo candida on radish. 292:	Effec
CRYPTOSPORA LONGISPORA SERVAZZI A re-evaluation of the quarantine significance of Crypto- spora longispora Servazzi on imported seed of the Norfolk Island pine, Araucarla excelsa. 257:	CULTURE Reten 3 ture•
CRYTOBIOSIS Cryptoblosis in the larva of Polypedilum vanderplanki	Isola letla
(Hint.) (Chironomidae). 2122 CUCUMBERS	i nocu Gnomo
Control of anthracnose, scab, and soll rot of cucumbers in Fiorida. 2569	9 An el
Serological relationship of cucumber mosalc virus and cer tain virus isolates that incite Amaryllis mosalc symptoms. 2574	CULTURE Effec produ
Influence of bacterla isolated from healthy cucumber leaves on two leaf diseases of cumcumber. 2622	Conce
Standardization of a procedure for artificial inoculation of cucumbers with Colletotrichum lagenarium. 2623	
Changes in sugars and amino acids of cucumber fruits in- fected with Phythlum aphanidermatum. 2654	Effec Thiei tion
Natural hosts of cucumber mosaic virus in israel. 2717	, Exten
Storage of fungicide-treated pea and cocumber seeds. 3184) Cultu

CUCUMIS Myrotheclum rind rot of cantaloup.	2661
CUCUMIS MELO A new host for the cucurbit powdery mlldew fungus.	2317
CUCUR8IT WILT Observations on cucumber beeties as vectors of cucurbit wilt.	2620
CUCURSITA Inheritance of powdery mildew resistance in the genus Co curbita.	u- ≥772
CUCURBITA MAXIMA Some epiphytotic aspects of squash mosaic.	2625
An evaluation of the Cucurbita for scab resistance.	2855
CUCURBITACEAE Watermelon mosalc viruses 1 and 2 in southern and wester cucurbit production areas.	rn 2918
CUCURBITS Morphology, taxonomy, and sexuality of the ascogenous s of two Colletotrichum spp. that attack cucurbits.	tages 2552
CULICIDAE A study of the age composition of Anopheles gamblae Gild and A. funestus Giles in north-eastern Tanzania.	es 2006
Diel patterns of mosquito activity in a high arctic locality: Hazen Camp, Ellesmere Island, N. W. T.	2077
P32-labeled semen for mosquito mating studies.	2084
Radiosterilation vs. chemosterilization in house files a mosquitoes.	and 2192
Feeding habits of one Anopheiine and three Culicine mosquitoes by the precipitin test.	2210
The free amlno acids of the agelng female Aedes aegyptl mosquito.	2211
A verandah-trap hut for studying the house-frequenting habits of mosquitos and for assessing insecticides. II. The effect of dichlorvos (DOVP) on egress and mortality Anopheles gamblae Giles and Mansonia uniformis (Theo.) entering naturally.	of 3173
Evaluation of some factors affecting the efficency of is traps in collecting mosquitoes.	ight 3254
CULTURAL CONTROL (INSECTS) Effect of certain cultural practices on the abundance of tobacco hornworms, tobacco budworms, and corn earworms of tobacco after harvest.	
ULTURE Retention of pathogenicity of the oak wilt fungus in cu ture.	1- 2322
Isolation and in vitro culture of the wheat bunt fungl ' letia caries and T. controversa.	Til- 2886
Inoculum concentration and production of Perithecia by Gnomonia fructicola in culture.	3235
An electrical aid to pure culture isolation.	3291
ULTURE MEDIA Effect of organic content in the larval medium on the production of two species of Hippelates.	2130
Concentrate medla for rearing red-banded leaf roller.	2185
Sporulation by Cercosporella herpotrichoides on artific: media.	lal 2349
Effect of certain fungai isolation agar medla on Thielavlopsis basicola and on its recovery in soll dilu- tion plates.	2891
Extended culturing of Sclerotinia camelilae.	3185
Culture media for sporangial production in Phytophthora fragariae.	3217

PAGE 83

CULTURE MEDIA

CURLY TOP (TOMATOES)

CURLY TOP (TOWATOES)	
Effect of plating medium and incubation temperature on growth of fungi in soil-dijution plates.	the 3223
Differentiation of Ustilago hordel races on several med	ia. 3230
Influence of various nitrogen and light sources on some culturai characters of Fusarium oxysporum f. lycopersic	
Vermiculite medla for growing fungi.	3248
CURLY TOP (TOMATOES) Outbreak of curly top In Costa Rica.	2781
CURVULARIA TRIFOLII Floral infection of Ladlno white clover, incited by Cur vularia trifolii.	2590
CUSCUTA APPROXIMATA A dodder on St. Johnswort and ivy.	2760
CUSCUTA CALIFORNICA Pokeweed crinkle ieaf, caused by a virus transmitted by der from desert shrubs in southern Cailfornia.	dod- 2613
CUSCUTA SUBINCLUSA Transmission of citrus vlruses by dodder, Cuscata subin clusa.	2916
CUSHAW An evaluation of the Cucurbita for scab resistance.	2855
CUTICLE Active control of the mechanical properties of insect endocuticle.	2057
Penetration of excised apple cuticle by radioactive org and inorganic compounds.	anlc 3220
CYANOGENIC COMPOUNDS Damage to turfgrasses caused by cyanogenic compounds pr duced by Marasmius oreades, a fairy ring fungus.	0- 2419
CYCLOHEXIMIDE	0115
Systemic control of powdery mlidew of roses, caused by fungus Sphaerotheca pannosa, with derivatives of cycloh imide.	the ex- 2565
An evaluation of cyclohexlmide (Acti-dlone) for control white pine bllster rust in the Southeast.	of 2755
Cycloheximide for hawthorn leaf spot.	2913
CYLINDROCLADIUM SCOPARIUM A root and stem rot of yellow-poplar caused by Cylindro dium scoparium.	cla- 25B1
Three uncommon watermelon fruit rots in Florida.	2802
CYMBOPOGON CITRATUS A new smut of lemon grass from India.	2764
CYNODON DACTYLON Pratylenchus zeae found on corn, mllo, and three suspec new hosts in California.	ted 3009
CYPRUS The present status of Impietratura, a cltrus disease, l Cyprus.	n 2735
CYTISUS SCOPARIUS Leucoptera spartifoliella, an introduced enemy of Scotc broom in the western United States.	h 2436
CYTOLOGY Studies on digestive enzyme productions and its relatlo to the cytology of the mldgut epithellum in Dysdercus fasclatus Sign. (Hemlptera, Pyrrhocorldae).	nship 2136
Genetical and cytological studies of Phytophthora capsi	ci. 3219
CYTOSPORA	
First year effects of 10 selected Cytospora isolates on fruit and forest tree species and varleties.	20 2503

Influence of location on invasion of dry-ice-killed tlssues

2509

on Italian prune trees by naturally disseminated Cytospora

DACTYLIS Twist disease of orchardgrass in Virginia. 2927 DAGGER NEMATODE Association of dagger nematode, Xiphinema americanum, with stunting and winterkili of ornamental spruce. 24 2475 DAIRY CATTLE Effect of Macrochelidae (Acarina: Mesostigmata) on house fly production from dairy cattle manure. 2051 Sevin residues in milk from dairy cows following dermai 3109 applications. DAMPING-OFF (BEANS) Seed exudation and its influence on pre-emergence damping-off of bean. 28 2812 DAMPING-OFF (CASTORBEANS) Relations of variety, temperature, and seed immaturity to pre-emergence damping-off of castorbean. 32 3246 DAMPING-OFF (COTTON) Tests of soil fungicides under uniform conditions for con-trol of cotton damping-off caused by Rhizoctonia solani. 2730 DAMPING-OFF (CUCUMBERS) Comparative effects of soll fungicide treatments on soil rot and damping-off of cucumber. 2568 DAMPING-OFF (PEAS) Effect of insecticide-fungicide combinations on emergence of peas and growth of damping-off fungi. 2774 DAMPING-OFF (PINUS RADIATA) Control of conifer damping-off in South Australia. 2900 DAMPING-OFF (SOYBEANS) Pythium pre-emergence damping-off of soybean in minnesota 2327 DDT Partial characterization of the in vivo metabolites of DDT-Cl4 in Trlatoma infestans. 2043 Temperature and the action of DDT on the nervous system of Periplaneta americana (L.). 2094 DDT residues in mountain stream water as influenced by 3100 treatment practices. Effect of DDT and toxaphene alone and in combination on succinic dehydrogenase activity in homogenates of the boll 3154 weevil. Pour-on treatments of DDT or toxaphene for horn fly 316B control. 3177 Effect of DDT on pink boliworm populations. Paraffinic and naphthenic oil fractions in combination with dDT and a Hellothis virus for corn earworm control. 3181 DEATH Programmed cell death- I. Endocrine potentiation of the breakdown of the intersegmentai nuscies of silkmoths. 2149 DECLINE (PEACHES) Occurrence of peach tree decline in Georgia in 1965. 2731 DECLINE (PEARS)

Low temperature injury as a contributing factor in Cytospora invasion of plum trees. 2510 Cytospora canker recurrence on Douglas-fir in Colorado.

An attempt to control root-knot nematode with Dactylaria thaumasla and Arthrobotrys arthrobotryoides. 3044

DACTYLARIA THAUMASIA DRECHSLER

2521

Pear deciine trends in Washington orchards. 2294

The probable coidentity of the moria disease of pear trees In Italy and pear decline in North America. 2814

fungl. PAGE 84

DILOPHOSPORA ALOPECURI

DECLINE (SOUR ORANGES) Observations on declining sour orange seediing trees in Spain.	2763	Physiology of sawfly metamorphosis I. Continuous re- spiration in diapausing propupae and pupae.	2197
DEFOLIATION Fungi associated with defoliation of Taxus cuttings.	2851	Respiratory chain metabolism in the Colorado potato bee —Ii. Respiration and oxidative phosphorylation in sard somes from diapausing beetles.	
DEHYDRATION (PHYSIOLOGICAL) Cryptoblosis in the iarva of Polypediium vanderplanki (Hint.) (Chironomidae).	2122	DIAPORTHE PHASEOLORUM The effect of variants of Diaporthe phaseolorum on soybe germination and growth in New Jersey.	
Sugar-induced osmotic dehydration of nematodes enhanced the addition of detergents.	by 3026	germination and growth in New Sersey. A high incidence of Diaporthe phaseolorum occurring in t seed of soybeans from southwestern Ontario.	
DEHYDROGENASES Histochemical and spectrophotometrical studies on severa dehydrogenases of carbohydrate metabolism in Oniscus aselius.	i 2117	DIATHUS CARYOPHYLLUS Effects of four viruses on yield and quality of King Car dinal carnations.	r- 2323
Enzymes in the boil weevil-I. Dehydrogenases of the brai and related structures.	n 2139	DIATOMACEOUS EARTH Protection of wheat seed with diatomaceous earth.	3093
DENDROCTONUS FRONTALIS Seasonal variations in activity of the southern pine bee in east Texas.	tle 2035	DIATRAEA SACCHARALIS Control of first generation sugarcane borer populations Louisiana.	in 3141
An emergence container for recovering southern pine beet from infested bolts.	les 3260	DICHLONE Chemical control of weather fleck in flue-cured tobacco.	2907
	by 3025	DICHLORVOS Toxicological studies on dichlorvos feed-additive formu- lations to control house flles and face flies in cattle	
DETERIORATION Stalk deterioration of plants susceptible to corn stalk	rot. 2423	feces. Vaporized dichlorvos for controi of arthropod pests in greenhouses.	3083 3164
DEUTERIUM Growth-regulating properties of deuterated 2,4-dichloro- phenoxyacetic acid. DEXTRINS	3243	A verandah-trap hut for studying the house-frequenting habits of mosquitos and for assessing insecticides. II. The effect of dichlorvos (DDVP) on egress and mortality Anopheles gambiae Giles and Mansonia uniformis (Theo.)	
Amylase of digestive juice and utilization of dextrin an	d 2167	entering naturally.	3173
DIABROTICA Corn rootworm resistance to chlorinated hydrocarbon insecticides in Iilinois.	2059	DIEBACK (HARDWODDS) Dieback of managed, old-growth northern hardwoods in up Michigan, 1954-1964 A case history.	ре г 2588
DIABROTICA LONGICORNIS Feeding stimulant for western and northern corn rootworm adults.	2090	DIEBACK (JARRAH) Association of Phytophthora cinnamomi with a disease of Eucalyptus marginata forest in Western Australia.	2750
DIABROTICA UNDECIMPUNCTATA HOWARDI Field tests with new insecticides for control of the southern corn rootworm attacking peanuts in virginia.		DIEBACK (OAK) Symptoms in relation to infection pattern in white oak.	2319
	3125	DIEBACK (ULMUS) Ceratocystis ulmi and zinc chiorlde experiment.	2486
DIABROTICA VIRGIFERA Feeding stimulant for western and northern corn rootworm aduits.	2090	Dutch elm disease in kansas in 1960.	2604
DIANTHUS CARYOPHYLLUS		Species of elm on the University of Iilinois campus res tant to dutch elm disease.	is- 2701
Carnation as a symptomiess carrier of Fusarium oxysporum f. dlanthi.	2708	Effectiveness of Vapam in preventing root graft transmision of the dutch elm disease fungus.	99- 2702
A carnation disease resembling bacterial slow wilt or st	unt. 2864	Dutch elm disease in Atlanta, Georgia.	2793
DIAPAUSE A brief survey of the effects of potential antimetabolit	63	Dutch eim disease in Kansas in 1964.	2930
and enzymes on the development of glant silkworms. Studies on the dermested beetle Trogoderma granarium	2061	DIEL Diel patterns of mosquito activity in a high arctic locality: Hazen Camp, Ellesmere Island, N. W. T.	2077
Everts - IV. Feeding, growth, and respiration with	2065	DIFFUSION CHAMBER An evaluation of certain fungicides for volatility, tox	icity
	2093	and specificity using a double Petri dish diffusion char ber.	
, ,	e 2182	DIGESTION Amylase of digestive juice and utilization of dextrin an starch in the silkworm, Bombyx mori L.	nd 2167
The effect of the age of female Nasonla vitripennis (Waiker) (Hymenoptera, Pteromalidae) upon the incidence of larval diapause.	2191	DILOPHOSPORA ALOPECURI Twist disease of orchardgrass in Virginia.	2927
Hormonai control of respiratory metabolism during growth reproduction, and diapause in female adults of Pyrrocori apteris L. (Hemiptera).			
			4.05

DIMETHOATE Chemotherapeutic action of dimethoate against a root-knot nematode in greenhouse tomato plants. 2507 The disappearance of dimethoate from soil. 3095 Abscence of residues in mlik after barns were sprayed with 3105 dlmethoate. The disappearance of dimethoate and SD-7438 from aifaifa. 3119 Absorption and metabolism of dimethoate in the boilworm and boil weevil. 3129 DIMETHYL SULFOXIDE The use of dimethyl sulfoxlde (Dmso) with certain fungl-cldes for controlling Helminthosporlum diseases of Kentucky biuegrass. 2297 DIMORPHOTHECA Plasmopara halstedil and other diseases on Dimorphotheca. 2624 DIPLODIA TUMEFACIENS (SHEAR) ZALASKY Additional hosts of Diplodia tumefaciens (Shear) Zalasky (>Macrophoma Tumefaciens Shear). 2950 DIPLODIA VITICOLA Time of infection and latency of Dipiodia viticola in Vi-tis vinifera var. Thompson Seedless. 2 2856 Metabolism of organic acids during rot of grape berries by 2857 Diplodia viticoia. DIPPING DRY ICE Heat curing treatments of giadlolus corms compared with fun-gicidal dips in controlling Fusarlum disease. 2285 Ethyiene dibromlde water dips for destroying fruit fiy Infestations of quarantine signifigance in papayas. 2963 DISULFOTON Granular in-furrow treatments with phorate and Di-syston against the pea aphlds in peas. 2968 DURRA DITYLENCHUS DIPSACI Ditylenchus dipsaci injury to Penstemon digitalis. 3052 DITYLENCHUS RADICICOLA (GREEFF) Occurrence of Ditylenchus radiclcola (Nematoda: Tylenchi-dae) In the u. s. and on a new host. 3 3067 DIURNAL RHYTHM Recording clrcadian rhythms of the cockroach with a capacity sensing device. 3281 DODINE .effect of one application of fungicides on leaf Appie scab lesions on previously unsprayed trees. 2262 Dodine, an outstanding fungicide for pecan scab control. 2358 Dodlne-captan combination controls bacterial spot of peach 2393 DORSAL VESSEL The effects of cholinergic substances upon the isolated heart of Periplaneta americana. 2158 DOTHIDELLA ULEI Relative resistance or susceptibility of several ciones of Hevea brasillensis and H. brasilensis X H. benthamiana to two races of Dothidelia uiel. 261 DYRENE 2619 DOUGLAS-FIR CONE MIDGE Insecticides tested for control of the douglas-fir cone 2979 midge. DOWNY MILDEW (SARLEY) Downy mlidew on small grains and two other grasses in mississippi, 1961. 2789 DOWNY MILDEW (COMMON RYEGRASS) Downy mlidew on smali grains and two other grasses in mississippi, 1961. 2783

DOWNY MILDEW (HOPS) Factors affecting the spread of hop downy mlidew in an arid cilmate. 278 2783 DOWNY MILDEW (LIMA 8EANS) High temperature following infection checks downy mildew of iima bean. 2542 Distribution of 8 strain downy mildew of ilma bean in 1964 2922 DOWNY MILDEW (RICE) Downy mildew of rice in arkansas. 2868 DOWNY MILDEW (RYE) Downy mildew on small grains and two other grasses in mississippi, 1961. 2789 DOWNY MILDEW (TOBACCO) Observation on tobacco bive moid in Israei. 2520 Appearance of tobacco bive moid in Israel. 2733 DRENCHES Experimental greenhouse control of crown gall and oilve knot with antiblotic drenches. DRIED MILK Food preference studies with Trogoderma inclusum, a pest of the dry mlik industry. 2155 DRUG THERAPY 2-n-aikyimercapto-1,4,5,6-tetrahydropyrimidines, chemothera peutic agents for plant rusts. 271 2713 Influence of location on invasion of dry-ice-killed tissues on Italian prune trees by naturally disseminated Cytospora fungi. 2509 DRYING OILS A practical method for evaluating low volume spray oli de-posits in the control of sigatoka disease of bananas. 2258 Assessment of loss due to grain smut of jowar millet (Sorg hum vulgare) in Indla. 26 2651 DWARF BUNT Common and dwarf bunts, their chemical control in the Paci-fic Northwest. 27 2759 DWARF 8UNT (WHEAT) The incidence of dwarf bunt in the Pacific Northwest and its occurrence on Gaines wheat. 2528 DWARF FRUIT Symptoms and transmission of a star cracking type diseas: of apple in Washington. 23 2312 DWARF MOSAIC (MAIZE) Maize dwarf mosalc in Ohlo in 1964. 2407 Sweet corn susceptibility to maize dwarf mosaic. 2550 The occurrence and transmission of maize dwarf mosaic in Virginia. 2777 DWARFING 2948 Dwarfing of summer tomatoes by crease stem. Control of tobacco brown spot by field spraying with dyrene. Control of celery early blight and bacterial blight in the Everglades with Dyrene combinations. 29 2969 3227 Dyrene phytotoxicity effects on tomato. Irish potato seed plece treatment with various chemicais. 3241 EARLY BLIGHT (CELERY) Control of celery early blight and bacteriai blight in th Evergiades with Dyrene combinations. 2

2869

DIMETHOATE

ÉPI	DEMIOLOGY
ca zoospores and by the fungus.	
a.	2698
control of the po t on potato yield	
y a ifaifa mosaic	virus. 2429

ENGINEERING

ELECTROTAXIS

EMPOASCA FABAE

ENATION MOSAIC (TOBACCO)

Electrotaxis of Phytophthora parasiti possible role in infection of tobacco

The use of systemic insecticides for leafhopper, Empoasca fabae, and effec

Enation symptoms in tobacco induced b

ELETTARIA CARDAMONUM A new leaf spot of cardamon from Indi

A whole-mount technique for studying infected leaves. 3271

ENGLAND

GLAND The relationships of English and American races of Phyto-2738 phthora fragariae.

ENNOMOS SUBSIGNARIUS Egg parasites of the eim spanworm in the southern Appala-chian Mountains.

1997

ENVIRONMENT

Freding, digestion, glycogen and the environmental condit-ions of the digestive system in Dniscus aseilus. 21 2116

Effect of elevation, rainfail and temperature upon the inci-dence of corn diseases in Costa Rica. 2318

Influence of some environmental factors and growth substan ces on the development of bariey yeilow dwarf. 2727

Varietal resistance of peas to pea aphid biotypes under field and greenhouse conditions. 2966

The influence of environmental stress on the cacao tree in determining the feeding sites of cacao thrips, Selenothrip rubrocinctus (Giard), on leaves and pods. 29 2973

Some effects of temperature, humidity, age, and sex on the toxicity of dieidrin and ethion to resistant onion maggots, Hyiemya antiqua. 313

ENZYMES

Enzymes of the boil weevil-II. Inorganic pyrophosphatase. 2017

- A brief survey of the effects of potential antimetabolite: and enzymes on the development of giant silkworms. 24
- Extracellular enzyme and toxin production by Fusarium oxy-2887

Pectic enzymes associated with Rhizoctonia-infected tissues of bean. 3194

Influence of transient capiliaries on the enzymatic degrada-tion of plant cell walls. 3207

- ENZYMOLOGY Transglycosylation in the desert iocust, Schistocerca gregaria Forsk. 2176
- EP-161

P-161 A preliminary report on two experimental soli fumigants. 3102

EP-162 A preliminary report on two experimental soll fumigants. 3102

EPICHLOE TYPHINA Juncus effusus, a new host for Epichioe typhina. 2593

EPIDEMIOLOGY ereal rust epidemiology in Kansas in 1959. 2326

Virulence of Rhizoctonia solani on aifalfa and red clover 2353

Occurrence of certain plant diseases in Kentucky in 1964. 2557

1964 Snap bean disease survey in the Pacific Northwest.

PAGE 87

- EARLY BLIGHT (TOMATDES) A delayed harvest test of fungicide sprays on tomatoes resistant and susceptible to fruit cracking. 2793
- EASTERN GALL RUST (PINUS) The distribution of eastern and western gail rusts in the Lake States. 2268

EASTERN UNITED STATES

Nematodes on raspberries in the eastern United States. 3030

ECDYSONE

Possible influence of neotenine and ecdyson on the sign of phototaxis in the eyed hawk catepillar (Smerithus ocellata L.). 2055

ECHINOCHLOA

Host range and insect transmission of the hoja bianca di-sease of rice. 2 2445

ECHINOCHLOA CRUS-GALLI

Pratylenchus zeae found on corn, milo, and three suspected new hosts in California. 30 3009

ECTEOLA

Conditions favorable for adsorption and elution of tobacco mosaic virus in an Ecteoia-ceilulose column. 27 2766

EGGPLANT

Preliminary triais on the control of Verticillium wilt of eggpiants by soil fumigation. 2493

EGYPT

Crop rotation studies: I. Fungi isolated from cotton seed-iings from the permanent fertilizer experiment at Bahtim. 2679

EGYPTIAN COTTON LEAFWORM

Toxicological studies on the Egyptian cotton leafworm, Prodenia litura. II. Reversion of toxaphene resistance in the Egyptian cotton leafworm. 3 3133

Toxicological studies on the Egyptian cotton leafworm, Prodenia litura. I. Susceptibility of different larval Instars of Prodenia to insecticides. 3134

Toxicological studies on the Egyptian cotton leafworm, Prodenia litura. III. A modified technique for testing the stomach-poisoning effect of insecticides of leaf-feeding larvae. 3175

EL SALVADOR

Rice biast in El Saivador. 2265

Occurrence of Cercospora bougainvilleae in El Salvador. 2265

2267 Hoja Blanca in El Salvador.

ELATERIDAE

The incidence of ster rots in tobacco transpiants in relation to wireworm injury. 2720

ELECTRIC POWER GENERATION

ne trees near power substations damaged by urea herbi-3095 cides.

ELECTRON MICROSCOPY

The aeroscopic chorion of the egg of Cailiphora erythro-cephala Meig. (Diptera) studied with the electron micro-2225 scope.

ELECTRON TRANSPORT

Electron transport system in fungai celi-free extracts. 3214

ELECTROPHYSIOLOGY

An electrophysiological investigation of the divided eye of Gyrinus bicolor F. 206 206B

Electrophysiological investigation on the olfactory specificity of sexual attracting substances in different species of moths. 2193

ELECTRORETINGGRAMS

The nature of the electroretinogram of a tropical butterfly. 2207

EPILACHNA VARIVESTIS

2824 Distribution of B strain downy mildew of lima bean in 1964. 2922 EPILACHNA VARIVESTIS Some effects of gamma radiation and a chemosteriiant on the Mexican bean beetie. 212 2120 EPIPHYTES Some epiphytotic aspects of squash mosaic. 2625 Ineffectiveness of calcium nitrate and other calcium sources in reducing southern blight incidence on Rutgers tomato under epiphytotic conditions. 2941 EPIPHYTOTIC Rice biast in Ei Saivador. 2265 EPITRIMERUS PYRI Control of the pear rust mite, Epitrimerus pyri. 3001 EQUIPMENT Two new nematode subsampling toois. 3264 Use of foam washers for treating poststorage iemons with so-3268 dium orthophenylphenate. The separation of nematodes from soil by a modified Baer-3294 mann funnei technique. Another screened Immersion plate for isolating fungi from 3295 soil. EREMOCARPUS SETIGERUS A new host for the cucurblt powdery mildew fungus. 2317 ERGOT POISONING Large animal toxicological problems. 3160 ERIDSOMA LANIGERUM Some aspects of insecticidal and biological control of the woolly apple aphid, Erlosoma lanigerum (Hsm.) in rhodesia. 2965 Field evaluation of insecticides for wooliy apple aphid controi. 3144 ERVINIA AMYLOUDRA Stewart strain of Bartlett pear shows fire blight resistance. 2846 ERWINIA AMYLOVORA Greenhouse tests on fire blight susceptibility of Stewart Bartiett compared with three other Barlett pear clones. 2311 Antibiotic activity of pear leaves against Erwinia amy-lovora and its relation to beta-glucosidase. 3222 ERVINIA AMYLOVORA (BURRILL) Sensitivity of bacterial isolates from eggs of Aphis pomi to Erwinia amylovora bacteriophages. 2: . 2989 FRYSTRHE Powdery mildew of safflower. 2951 ERYSIPHE GRAMINIS Resistance in Triticum vulgare to infection by Erysiphe graminis f. sp. tritici as influenced by the stage of development of the host plant. 2324 ERYSIPHE GRAMINIS TRITICI Heterogeneity in the Norka differential wheat variety to a new race of Erysiphe graminis tritici. 2721 ERYSIPHE GRAMMIS F. SP. HORDEI Predisposition of wheat by Erysiphe grammis f. sp. tritici to infection with Erysiphe grammis f. sp. hordei. 26 2690 ERYSIPHE GRAMMIS F. SP. TRITICI Predisposition of wheat by Erysiphe grammis f. sp. tritici to infection with Erysiphe grammis f. sp. hordei. 26 2690 ESTERASES study of housefly esterases by means of a sensitive coiorimetric method. 2042

SUBJECT INDEX

ETHION Some effects of temperature, humidity, age, and sex on the toxicity of dieidrin and ethion to resistant onion maggots toxicity of Hylemya antiqua. 3135 ETHNOLOGY Mode of inheritance of pathogenicity in some race hybrids Ustilago avenae. ETHYL ETHER Effect on boli weevil progeny of choiesteroi added to the aduit diet as a powder or an ether solution. 2 2163 ETHYLENE DIBROMIDE Ethyiene dibromide water dips for destroying fruit fiy infestations of quarantine signifigance in papayas. 2963 Interactions of EDB, CDEC, and irrigation on control of Meloidogyne incognita acrita. 3032 Sweetpotato production on soli treated with soli fumigants. 3072 Note on the determination of residual bromine in ethyiene dibromide-fumigated cereals. 3106 ETIOLOGY The etiology of an annual canker on maple. 2940 EUCALYPTUS MARGINATA Association of Phytophthora clnnamomi with a disease of Eucalyptus marginata forest in Western Australia. EUPHORBIA PULCHERRIMA Poinsettia scab-A new report for Puerto Rico. EUROPEAN ASPEN Hypoxylon canker on European aspen. 2269 EUROPEAN CORN BORERS Coid hardiness in the European corn borer, Pyrausta nubiialls (Hubn.). 2112 EXCLUSION Control of potato mosaic diseases by exclusion. 2484 EXCRETA Absorption, excretion, and metabolism of P32-labeled metepa by screw-worm and stable flies. 207 Physiology of excretion in the larva of Corcyra cephaionica Stainton (Lepidoptera, Pyralidae). 220 2201 EXOCORTIS (CITRUS) Quantitative determination of the free amino acids and amides in roots and leaves of healthy and exocortis-infected Citrus sinensis Osbeck on Poncirus trifoliata Raf. 2412 Experiments on heating budwood to eliminate exocortls virus. 2786 Distribution and movement of exocortis virus in citrus 2797 trees. Effects of exocortis disease on four citrus rootstocks. 2827 EXPANSION COEFFICIENT The coefficient of expansion of wood in relation to frost cracks. 2 2241 EXTRACTS extract produced by Helminthosporium sorokinianum toxic An to Puccinia gramlnis var. tritici. 2852 EYES The potential profile of the insect compound eye and optic 2066 lobe. Potentiai changes in the eye and optic iobe of certain lnsects during light- and dark-adaptation. 2067 An electrophysiological investigation of the divided eye of Gyrinus bicolor F. 206

Damage to turfgrasses caused by cyanogenic compounds produced by Marasmius oreades, a fairy ring fungus. 2

2419

FAIRY RINGS (GRASSES)

PAGE 88

88

FANNIA CANICULARIS

NNIA CANICULARIS Some effects of chemosterilants on the little house fly. 20BB

FARNESOL

- Experiments on the effect of farnesol on the development of normal and bar-eyed Drosophila. 208
- FAT BODY
- A histological and histochemical study of the larval fat body of Anthrenus vorax Waterhouse (dermestidae, 216B coleoptera).

The influence of nutritional and hormonal factors on the chemistry of the fat body, blood, and ovaries of the blowfly Phorma regina Meig. 2172

FATS

The acceptability of some fats and oils as food to imported fire ants. 2150

FECES

- End products of metabolism in the boli weevil, Anthonomus grandis Boheman: Non-protein amino acids in the faeces. 2162
- FEED ADDITIVES
- Toxicological studies on dichlorvos feed-additlve formu-lations to control house flies and face flies in cattle 3083
- Residues in beef fat following heptachlor feeding. 3115
- Evaluation of some chemicals as feed additives to control face fly larvae. 3176

FEEDING

Studies on feeding behavior of house flles. 20B3

- Feeding stimulant for western and northern corn rootworm 2090
- Feeding, digestion, glycogen and the environmental condit-lons of the digestive system in Oniscus asellus. 21 2115
- Effects of sterols on feeding and nutrition of the slikworm, Bombyx mori L.
- Nutrition and feeding behavior of the adult onion maggot, 2156
- Feeding on filter paper by larvae of the silkworm Bombyx. 2166
- Differences in reproductive potential, feeding rate, and longevity of boll weevils mated in the fail and in the fall and spring. 220B
- Comparison of gravimetric and chromic oxide methods for measuring percentage utilization and consumption of food by phytophagous insects. 327 3277

FEEDING HABITS

- Feeding habits of one Anopheline and three Culicine mosquitoes by the precipitin test. 2210
- FENUSA PUSILLA
- Mistblower spray tests for control of the birch leaf mlner 3129

Control of birch leaf miner with systemics. 3171

FERBAM

Control of Pythlum root diseases with soil fungicides. 2B65

FERTILITY

- Antlfertillty effects of anthelminthics in insects. 2080 The effect of photoperiod, light intensity, and temperature on copulation, oviposition, and fertility of the Mexican fruit fly. 2102
- Chemicals affecting fertillty In adult house files. 2105
- Effects of gamma radiation on the fertllity of the two-spotted spider mlte and its progeny. 2119
- Effects of food, temperature and oviposition site on longevity and fecundity of the army cutworm.
- 2179

FLAX

Effect of temperature on fecundity of two strains of the greenbug. 2195
The relation of plant fertility to bacterial spot of pepper. 2883
FERTILIZERS Control of pepper bacteriai spot by fertilizer and by foliar sprays. 2374
Crop rotation studies: I+ Fungi isolated from cotton seed- lings from the permanent fertilizer experiment at Bahtim. 2679
Performance of certain nematocides and nematocide-fertlllzer mixtures applied to vegetable crops in North Carolina. 300B
Fertiilzers can transmit plant nematodes. 3033
Significance of potassium fertilization in nematode infested cotton fields. 3053
FESTUCA Large animal toxicological problems. 3160
Influence of nutrition and soil moisture on development of Corticium red thread of Pennlawn and Rainier red fescues. 323B
FESTUCA RUBRA Damage to turfgrasses caused by cyanogenic compounds pro- duced by Marasmius oreades, a fairy ring fungus. 2419
Influence of nutrition and soil moisture on development of Corticium red thread of Pennlawn and Rainier red fescues. 323B
FETAL MEMBRANES The aeroscopic chorion of the egg of Calliphora erythro- cephala Meig. (Diptera) studied with the electron micro- scope. 222B
FIBERS Uncoilapsed fibers associated with boll rot in cotton. 2649
FIELD CROPS Onion smut control experiments with granule formulations in greenhouse and field. 2710
FILTER PAPER Feeding on filter paper by larvae of the silkworm Bombyx. 2166
FIRE BLIGHT (APPLES) Results of prellminary tests with phenacridane chioride for the control of fireblight of apple and bacterial spot of peach. 2330
FIRE BLIGHT (PEARS) Greenhouse tests on fire blight susceptibility of Stewart Bartlett compared with three other Barlett pear clones. 2311
Arbutin-hydroquinone complex in pear as a factor in flre biight development. 2515
Stewart strain of Bartlett pear shows fire bilght resls- tance. 2846
FLAG SMUT (POA PRATENSIS) Varietal resistance to flag smut in Kentucky bluegrass. 244B
FLAX Fleld resistance of flax to pasmo. 2370
Aster yellows of flax. 2434
Extraceilular enzyme and toxin production by Fusarium oxy- sporum f. llnl. 2887

The HCN content of flax in relation to flax wilt resis-

tance.

2888

 UNAVA .		
ORIDA Nematodes associated with citrus trees infected by four ruses and comments about nematode distribution in Florid citrus groves.		
Virus diseases of the papaya in Fiorida.	2364	F
Rust of Zoysla spp. in Fiorida.	2435	,
Another appearance in Fiorida of a wiit Fusarium pathoge ic to race 1-resistant tomato varieties.	2567	
Control of anthracnose, scab, and soil rot of cucumbers Fiorida.	in 2569	1
Sphaerophragmium rust discovered in Florida of Aibizia iebbeck (ℓ,) 8enth.	2650	F
Three uncommon watermeion fruit rots in Fiorida.	2802	5
Red spider mite controi on roses in Fiorida.	3002	
OWER DROOP (COREOPSIS GRANDIFLORA) Coreopsis flower droop.	2939	F
OWER ROT A flower rot symptom associated with Stemphylium ray spe of chrysanthemum.	ck 2549	
OVER5 Absorption of gas bubbles in cuttings and injected stems	3212	
OWERY GALL Partial resistance to greenpoint cushion gali in cacao clones completely resistant to flowery gali.	2539	
UE-CURED TOBACCO History of black shank in Georgia fiue-cured tobacco in- cluding spread of the disease in 1959.	2443	F
Chemical control of weather fleck in flue-cured tobacco.	2907	
UORESCENT DYES Fluorescent marking and migration of grasshoppers from sprayed piots.	2032	F
UORDACETATE Selection of a fluoroacetate resistant strain of house f and investigation or its resistance pattern.	iies 2209	
UOROSIS Fluorosis in livestock.	3174	1
AM WA5HERS Use of foam washers for treating poststorage iemons with dium orthophenylphenate.	30- 3268	
LIAR APPLICATION Control of pepper bacterial spot by fertilizer and by fc sprays.	2374	1
Soli and foliar treatments for the control of Sclerotini of lettuce.	ose 2381	ł
MES ANNOSUS Microorgani¤ms in soli from Fomes annosus infected pine stands.	2259	
A new host for Fomes annosus, Polyporus schweinitzli and Fomes pini.	2367	ł
Influence of temperature on growth of Fomes annosus iso- lates.	2372	
Observations on Fomes annosus root-rot in natural stands lobiolly and shortleaf pine.	of 2399	
The effect of competition by Peniophora gigantea on the growth of Fomes annosus in stumps and roots.	2526	
First report of pine mortality caused by Fomes annosus r rot in Ohio.	2571	
Infection, growth rate, and competitive ability of Fomes annosus in inocuiated Pinus echinata stumps.	2607	ł
Fomes annosus on slash pine in the southeast.	2755	

romes annosus found in Nebraska.	2853
Fomes annoaus in southweatern Michigan.	2858
OMES PINI A new host for Fomes annosus, Polyporus schweinitzli Fomes pinl.	and 236 7
DOD Effects of food, temperature and oviposition site on iongevity and fecundity of the army cutworm.	2179
OOD PLANTS Food-plant tests with the Differential Grasshopper.	2054
OOD PREFERENCES (INSECTS) Food preference studies with Trogoderma inclusum, a of the dry milk industry.	pest 2155
OOD PROCESSING Rhizoctonia fruit rot of processing tomatoes.	2811
ORAGE PLANTS Insect survey of forage crops in Prince Edward Islan	d. 2036
Diseases of forage grasses and legumes previously un from New Hampshire.	reported 2591
Viruses of leguminous forage crops in Rhode Island.	2691
Reaction of white clover and five other crops to Pra- chus scribneri.	tylen- 3049
Initial deposit and disappearance rates of various insecticides as affected by forage crop species.	3111
ORESTS Symposium on cankers of forest trees: Invitational p presented August 28, 1963, at the fifty-fifth annual meeting of the American Phytopathological Society at Amherst, Massachusetts.	
The relationship of some bark factors to canker susc bility.	epti- 2304
ORMICIDAE Predation by parasitic Hymenoptera, the basis of ant induced outbreaks of a host species.	- 2003
Defence mechanisms of arthropods-VII. Citroneliai an citral in the mandibular gland secretion of the ant Acanthomyops claviger (Roger).	d 2070
REEZE KILLING Influence of location on invasion of dry-ice-killed	tissues
on Italian prune trees by naturally disseminated Cyt fungi.	ospora 2509
REON Freon-113 as a dispersai medium for urediospores of ia graminis var. tritici.	Puccin- 3237
ROST The coefficient of expansion of wood in relation to cracks.	frost 2241
Reduction of frost injury in cranberries by fungicid ments.	e treat- 3251
RUIT Improving growth of fruit trees by treatment with ne cides and fungicides at time of planting.	mato- 2243
Fliamentous viruses infecting fruit trees and raspbe their possible mode of spread.	rry and 2332
The rapid determination of necrotic ring spot and so ry yeliows viruses of stone fruits.	ur cher- 2458
Bacteriai canker of stone fruits in the southeastern States.	2740
The extraction of viruses from fruit tree petais.	2884

FRUIT CULTURE The extraction of viruses from fruit tree petais. 2884

PAGE 90

FLORIDA

FUNC1C1DES 2898

2921

		10
FRUIT ROT A new fruit rot of cherries from india.	2575	Fungi of bariey seed and their associative effects.
FRUIT SHAPE Effect of fruit shape on the occurrence of internal m	old in	Seed-borne fungi in Georgia-grown and western-grown pear millet seed on saie in Georgia during 1960.
cannery pimientos. FUCHSIA	2389	Fungi isolated from diseased lentil seedlings in 1963-64
Pucciniastrum epilobii on Fuchsia in Oregon.	2630	Electron transport system in fungal cell-free extracts.
FUMIGANTS Factors affecting control of onion bloat by fumigants taining 1,3-dichloropropene in organic solis in south New York.		Effect of plating medium and incubation temperature on growth of fungi in soll-dilution plates.
Evaluation of ethyiene chlorobromide as a fumigant fo citrus and mangoes infested by the Mexican Fruit Fiy.		Influence of various nitrogen and light sources on some cultural characters of Fusarium oxysporum f. lycopersic
Germination of grain sorghum and sudan grass seeds af fumigation with methyl bromide and hydrocyanic acid.	'ter 3244	Violent spore release in Stemphylium botryosum wallr.
FUNIGATION		Vermiculite media for growing fungi.
Note on the determination of residual bromine in ethy dibromide-fumigated cereals.	3105	FUNGI DISSEMINATION Failure of loose smut to build up ln winter wheats expo to abundant inoculum naturally disseminated.
Relation of radiation and temperature to the sporulat Alternaria tomato and other fungi.	2273	FUNGI EXTRACTION Another screened immersion plate for isolating fungi fr
Retention of pathogenicity of the oak ≠ilt fungus in ture.	2322	soil. FUNGICIDE APPLICATION
Taxonomy and physiological properties of fungus causi rot of citrus fruit.	ng sour 2331	In-the-furrow application of soil fungicides for contro cotton seedling diseases.
Phytophthora heveae from eastern Tennessee and wester North Carolina.	2339	FUNGICIDES Improving growth of fruit trees by treatment with nemat cides and fungicides at time of planting.
Paxillus atrotomentosus causes brown root rot in dead pine in plantations in wisconsin.	i jack 2384	Apple scab .effect of one application of fungicides on lesions on previously unsprayed trees.
Evidence of a toxic substance produced by fungi invol seed-piece rot of sugarcane.	ved in 2430	Fungleidal control of mango anthraenose.
Fungi associated with white clover stolons in selecte of the southeast during mid-summer, 1959.	ed areas 2491	Heat curing treatments of giadioius corms compared with gicidal dips in controlling Fusarium disease.
Seasonal prevalence of stolon-rotting fungi in 24 lin white clover.	nes of 2492	Effectiveness of certain protectant fungleides for cont ling pecan scab in Oklahoma during 1959.
Siological races from within the same plant.	2499	The use of dimethyi sulfoxide (Dnso) with certain fungi- cides for controlling Helminthosporium diseases of Kentu
Estimating germinability of scierotia.	2544	ky bluegrass.
Laboratory evaluation of fungicides for control of so gi found on peanuts.	ome fun- 2546	Fungicidal control of Sclerotinia wilt in green beans.
Green tomato fruits—a medium for inducing fruit rot asexual sporulation with fungi isolated from clovers.		The influence of in-covering soil fungicides on the cov soil microflora in relation to cotton seedling disease occurrence.
Relative resistance or susceptibility of several clon Hevea brasiliensis and H. brasilensis X H. benthamian		Screening of potato fungicides in 1959.
to two races of Dothidella ulei. Uncollapsed fibers associated with boll rot in cotton	2619	The Toluca Valley, an outstanding area for testing fung cldes on potatoes under natural conditions against late blight (Phytophthora infestans).
Septoria eriobotryae Maffei: A first report for the	2649	Fungicidal control of anthracnose and white spot of tur- greens.
United States. Crop rotation studies: I. Fungi isolated from cotton	2653 seed-	Dodine, an outstanding fungicide for pecan scab control
lings from the permanent fertilizer experiment at Bah		New materials for the control of apple powdery mildew.
Association of phycomycetous fungi with peach tree de in Georgia.	2752	Comparison of standard fungicides recommended for contr powdery mildew of roses.
Fungi associated with defoliation of Taxus cuttings.	2861	New experimental and commercial fungicides for control
Isolation and in vitro culture of the wheat bunt fung letia carles and T. controversa.	1 Til- 2886	Fusarium patch disease of bentgrass turf.
Effect of certain fungal isolation agar media on Thielaviopsis basicola and on its recovery in soli di tion plates.	11u- 2891	Fungicidal tests for control of Fusarium patch disease turf. Aerial application of fungicides for pecan scab control
tion praces.	2031	
Fungl isolated from unstored corn seed in Indiana in	1956-	Contact fungicides for peach scab control.

FUNGUS CULTURES

0.005 00010.00	
Contact fungicides for peach scab control. 2471	
Effect of some fungleides on pectolytic enzyme activity of Scierotinia scierotiorum and Botrytis alili+ 2475	9
Greenhouse evaluations of soli fungicides for the control of pea root rot. 2486	
Laboratory evaluation of fungicides for control of some fun- gl found on peanuts. 2546	
Comparative effects of soli fungicide treatments on soil rot and damping-off of cucumber. 2569	
Evaluation of fungicides for control of powdery mlidew, as well as other diseases, of apple. 2579	9
Screening of fungicides and chemotherapeutants for control of pink root of onions and shailots. 2611	
A technique for laboratory evaluation of seed treatments to control rice seed rot. 2617	,
Laboratory tests of rice seed treatments in 1964 for control of seed rot. 2619	
The effect of pesticides on turfgrass disease incidence. 2641	
In-the-furrow application of soil fungicides for control of cotton seedling diseases. 2643	5
The inhibitory effects of certain fungicide formulations to apple scab conidia. 2751	
Fungicide toierance in Rhizoctonia solani influenced by temperature and seriai transfer in fungicide-treated soli. 2762	2
Effect of Insectleide-fungleide combinations on emergence of peas and growth of damping-off fungl. 2774	
A delayed harvest test of funglelde sprays on tomatoes resistant and susceptible to fruit cracking. 2799	F
Promising decay inhibitors for postharvest use on Fiorlda oranges. 2841	F
The use of fungicides in the control of Cercospora coffei- cola on coffee. 2844	
Controlling mildew on apples at Wenatchee, Washington in 1960.	F
Chemical control of weather fleck in flue-cured tobacco. 2907	F
Postharvest fungicide treatments for reduction of decay in Anjou pears. 3085	
Soil fungicides for control of pea root rot in greenhouse tests. 3101	F
The effect of some fungicides on European red mite populations in Maine. 3124	
Toxicity to sheep of three fungicidal compounds (captan, ceresan m, and zineb). 3161	
Storage of fungicide-treated pea and cucumber seeds. 3184	
Adapted tolerance to organic fungicides by isolates of Rhi- zoctonia solanl from seedling cotton. 3216	
Effect of seed-treatment fungicides on grain yield and stands of winter and spring wheat. 3231	
Seed disinfectation with phenacridane chloride, a broad- spectrum bactericide-fungicide. 3242	
Reduction of frost injury in cranberries by fungicide treat- ments. 3251	
An evaluation of certain fungicides for volatility, toxicity and specificity using a double Petri dish diffusion cham- ber. 3252	
An improved technique for testing effects of soluble post- harvest fungicides on spore germination. 3267	
ACF 92	

Use of a portable inoculation tower in laboratory, green-house, and field tests of fungicides to control rice blast FUNGUS CULTURES Influence of temperature on growth of Fomes annosus isoiates. FUNGUS DISEASES (PLANTS) Verticililum wilt of smoke bush. 2340 Rusty spot of peach and its control in New Jersey. 2377 Turfgrass diseases in southern Callfornia. 2411 A generalized life cycle of pathogens of trees. 2414 Internal breakdown in crown of red clover. 2455 Effect of some fungleides on pectolytic enzyme activity of Scierotinia scierotiorum and Botrytis allii. 2479 Some factors affecting the transmission and stability of po-2537 tato spindie tuber virus. A phomopsis stem biight of yeilow lupine (Lupinus luteus L.). 2728 Organism interactions in the beach bark disease. 2822 Effect of some plant growth-retarding compounds on three fungai diseases and one viral disease. 2863 Control of Pythlum root diseases with soii fungicides. 2865 Extracellular enzyme and toxin production by Fusarium oxysporum f. lini. 2887 The HCN content of flax in relation to flax whit resis-2888 tance. FUNGUS ISOLATES Production of sterile onion buibs and roots for the patho 291 Production of sterile onio genicity of fungus isolates. 2915 FUNGUS PHYSIOLOGY Taxonomy and physiological properties of fungus causing sour rot of citrus fruit. 2331 FUNGUS POPULATION Comparative study of quantitative methods used for estimat-ing the population of Thielavlopsis basicola in soil. 2890 FUNGUS TAXONOMY Taxonomy and physiological properties of fungus causing sour rot of citrus fruit. 2331 USARIUM Penetration and subsequent development of three fusarium species in alfalfa and red clover. 2352 . Mechanism of wilting incited by Fusarium in rcd clover. 2354 An improved method for determining resistance to Fusarium stem rot of sweetpotatoes. 2-2497 The role of fungl in the peach replant problem. Chitin and the biological control of Fusarium diseases. .676 Studies on the prevalence and comparative pathogenicity of fungi associated with corn stalk rot. 2745 Fusariai head blight , serious disease of wheat in Guate-2803 maia. Selective effects of bariey residue on fungi of the plato bean root-rot complex. 3114

FUSARIUM DECEMCELLULARE

Overgrowth in Malayan crop plants following infection by Fusarium solani and F. dccemcellulare. 2476

Loss of gali-inducing capacity on cacao, when Calonectria rigidiuscula passes from the conidial (Fusarium) stage

p	A	G	E	92

	through					asc	osp	or	e) :	stage					25	40
1	Pinus T	LAT	ERI1 ata	sus	cep	tibi	e	to p	oito	:h ca	nke	г.			25	12
	A Fusa						pho	ora	jap	onic	ca.				27	44
	ISARIUM New exp Fusariu	cri	mcn 1										OF CO	ontroi		52
	ISARIUM Carnati	on	as a						rrle	er of	f Fu	sari	um o:	xyspor		
	f. dian														27	09
'U	SARIUM Further sarium	st	udie	5 0									e foi	rms of		?79
	Hcat cu gicidal													ed wit		in- 85
	Fusariu	Im W	ilt	of	coti	ton	in	Ar	izon	a.					23	307
	Correia tles wi ing age	th	root	twe -kn	en F ot a	^r usa and	ri: wi1	um v th s	vilt stin	ind ig ne	dice emat	s of odes	cot as p	ton va predis	pos~	
	Another ic to r												rium	patho		67
	Species varieti													g of t		:0 IS4
	Movemen roots a															
	roots.														30	29
U	SARIUM Control igation	oſ						3 0 3	f ce	eiery	і ра	mea	ns of	f soii		1← :89
U	SARIUM Control ius.								Fus	ariu	ım c	orm	rot	of gla		12
	SARIUM Extrace sporum	liu	lar	enz				o x i r	рг	oduc	tlo	n by	Fusa	arium		87
	The HCN tance.	co	nten	t o	r r1	ax	in	re	lati	on t	o f	lax	wilt	resis		88
	SARIUM Reactlo oxyspor	n o	ť to	mat	o va	rle	tie	es a	an d	bree	din	g llı	nes f	to Fus		m 11
	Deveiop mato ca	men	t of	Fu	sari	um	wii	to	on r	esis	stan	t var	rieti	les of	to-	
	mato ca Fusariu										/01 P	ace	130	1 at e9		51
	Influen cuitura	ice o i cl	of v hara	arl	ous rs c	nit of F	rog usa	oen or lu	and Jm c	xysp 11g	ht or u	sour m f.	ces o iyco	on som opersi	ci.	34
	SARIUM Wiit of ium.										1 0	f the	e con	vpea F		79
	SARIUM A reaso										ogi	cai	races	3 •	24	98
	Biologi	cai	rac	es	from	i wi	thi	n	the	same	p l	ant.			24	99
	SARIUM Frequen some li biight.	DXY: cy o nes	SPOR of c of	UM ott cot	F. V on p ton	ASI ian res	NFE ts lst	res tant	JM sist t or	ant sus	to cep	Fusa: tibio	rium e to	wiit bacte	rial	25
	SARIUM New exp Fusariu	eri	nent	ai	and	com	mer	cia	51 f				or co	ontroi		62
	SARIUM Fungicl turf.					con	tro	01 0	of F	'us ar	ium	pate	ch di	sease		64

C 1	JSARIUM SOLANI	
	Overgrowth in Malayan crop plants following infection Fusarium solani and F, decemcellulare.	by ∠476
	Okra seed infection and seediing root rot caused by Fusarium solani.	2547
	Canker of tulip popiar caused by Fusarium solani.	2628
	Movement of Tylenchulus semi-penetrans into Rough iemon roots and in soil and its relation to Fusarium in the roots.	3028
F۱	JSARIUM SOLANI F. PHASEOLI Tests of Phaseoius species for resistance to Fusarium re rot.	2287
	Effects of soil temperature and selected crop residues of the development and severity of Fusarium root-rot of be	
F۱	JSICLADIUM CARPOPHILIUM Contact fungicides for peach scab control.	2471
Fl	JSICLADIUM EFFUSUM (WINT.) 1964 Spray tests to controi pecan scab.	2360
Fl	ISICLADIUM EFFUSUM WINT. Scab is now affecting the Stuart variety of pecan in Ge gia as well as in other southeastern states.	2361
F۱	JSICOCCUM Fusicoccum canker of mountain ash in Iilinois.	2809
F۱	JSIFORM RUST (PINUS) Effect of Phytoactin on the fusiform rust fungus, Crona: tium fusiforme.	2867
GA	NMA RAYS Effects of gamma radiation of various stages of three f fly species.	ruit 2053
	Effect of gamma rays on immature stages of the Mexican fruit fly.	2058
	Some effects of gamma irradiation on the gypsy moth, Pothetria dispar.	2104
	Effects of gamma radiation on the fertility of the two- spotted spider mite and its progeny.	2119
	Some effects of gamma radiation and a chemosterliant on Mexican bean beetie.	the 2 1 20
	Infiuence of gamma radiation dose rate on decay of cltr pears, and peaches.	3197
G/	NNGLION CELLS Visuai response patterns of single ganglion cells in the optic lobe of the siikworm moth, Bombyx mori L.	2126
GA	NODERMA Root inoculation of oil paim seediings with Ganoderma s	2700
G/	NRDENS Phragmidium rose rust epidemic in Louisiana State Unive sity gardens.	2425
G/	NSES Absorption of gas bubbles in cuttings and injected stem:	3. 3212
G /	NSTROINTESTINAL SYSTEM Carbohydrases of the alimentary tract of the desert loc Schistocerca gregaria Forsk.	ust, 2097
	Feeding, digestion, giycogen and the environmental cond ions of the digestive system in Oniscus aselius.	it- 2116

Characteristics of invertase from the alimentary canal of the pea aphid, Acyrthosiphon plsum (Harr.) (Homoptera, Aphididae). 2200

GENETICS Genetics of resistance to powdery mlidew race 2 in muskmei-on. 2316

Genetical and cytological studies of Phytophthora capsici. 3219

PAGE 93

GENETICS

GEOMETRIDAE

GEOMETRIDAE
GEOMETRIDAE Observations on the looper complex of the noctuid subfamily Plusiinae. 2013
GEORGIA Seasonal occurrence of tobacco budworm on cotton in Georgia. 2033
Liver spot disease of pecan extends its range into Georgia. 2359
Scab is now affecting the Stuart variety of pecan in Geor- gia as well as in other southeastern states. 2361
The Identification and persistence of an indigenous race of Pseudomonas solanacearum in soil in Georgia. 2402
The status of corn stunt disease in Georgla in 1964. 2603
A recently discovered unidentified foliar disease of pepper sccdlings in georgia. 2686
Decurrence of peach tree decline in Georgia in 1965. 2731
Association of phycomycetous fungi with peach tree deciine In Georgia. 2752
Dutch elm disease in Atlanta, Georgia. 2793
Seed-borne fungl in Georgla-grown and Western-grown pearl millet seed on sale in Georgia during 1960. 2921
GEOTRICHUM CANDIDUM
Taxonomy and physiological properties of fungus causing sour rot of citrus fruit. 2331
GERBERA JAMESONII Alternaria ray speck of Gerbera jamesonii. 2549
GERMINATION CONTROL Estimating germinability of sclerotla. 2544
GIANT SILKWORMS A brief survey of the effects of potential antimetabolites and enzymes on the development of giant siikworms. 2051
GIBBERELLIC ACID The influence of gibberellic acid on seedling blight of corn* 2925
GLADIOLUS CORMS Heat curing treatments of gladiolus corms compared with fun- gicidal dips in controlling Fusarium disease. 2285
GLASS A glass and cellulose acetate insect cage. 3279
GLASS BLOWING
The use of a petroieum hydro-carbon torch in the aseptic transfer of microorganisms and in routine laboratory glass blowing. 3273
GLIDCLADIUM ROSEUM (LINK) BAINIER Gilocladlum roseum (Link) Bainer on declining and dead stems of Psliotum nudum. 2543
GLOEOCERCOSPORA SORGHI Outbreak of zonate leafspot of sorghum-sudan hybrids in Alabama. 2481
GLDEOSPORIUM Gloeosporium rot of strawberry fruit. 2942
GLDEOSPORIUM FRUCTIGENUM BERK A bilght of ground cherry and Russlan almond seedlings caused by Gloeosporium fructigenum Berk. 2456
GLDSSINA The effect of temperature on the oxygen consumption of tsetse pupae. 21B1
A note on the nocturnal resting sites of Glossina morsitans Westw. in the Republic of Zambia. 21B7
GLUCITOL Enzymatic pathways in the formation of sorbitol and glycerol In the diapausing egg of the siikworm, Bombyx morl - I. on the polyol dehydrogenases. 2073
ou the botaot dell'atoBellases. 5012

GLUCOSE BCDSE Effects of dietary glucose on haemolymph carbohydrates of Agria affinis (Fali). 2 2235 GLUME BLOTCH (WHEAT) Environmentai influences on development of glume blotch in 3090 GLUTAMATE The distribution of free amino acids, glutamine, and glutamate in the southern armyworm, Prodenia eridania. 2145 GLUTAMINE JUNNING The distribution of free amino acids, giutamine, and glutamatc in the southern armyworm, Prodenia eridania. 2145 GLYCEROL Enzymatic pathways in the formation of sorbitol and glycerol In the diapausing egg of the sllkworm, Bombyx mori - 1. on the polyol dehydrogenases. 2073 GLYCOGEN Feeding, digestion, glycogen and the environmental condit-lons of the digestive system in Oniscus asellus. 21 2116 GNOMONIA FRUCTICOLA Inoculum concentration and production of Perlthecia by Gnomonla fructleola in culture. 3235 GRAIN Intergranular space as a limiting factor for the growth of 2107 pulse beetles. Control of the face fly on cattle with co-ral in grain and 3082 The cooling of heating grain by transfer during cold 3084 weather. Note on the determination of residual bromine in ethylene 3106 dlbromide-fumlgated cereals. ${\sf Effect}$ of seed-treatment fungleides on grain yield and stands of winter and spring wheat. 3231 GRAM A Stemphyllum leaf spot disease of gram. 2382 GRANULES Onion smut control experiments with granule formulations in greenhouse and field. 2710 GRAPFFRUIT A bark disorder of grapefrult. 2422 GRAPES Etiology of summer bunch rot of grapes in Cailfornia. 2513 Metabolism of organic aclds during rot of grape berries Diplodia viticola. by 2857 Control of red-banded leaf roller on grapes. 2970 Seasonal development of foliage infestations of grape ln Ontarlo by Phylloxera vitifoliae (Fitch) (Homoptera: Phylloxerldae. 2994 GRAPHOLITHA MOLESTA The effect of standard cold storage and controlled atmosphere storage on survival of larvae of the oriental fruit moth, Grapholita molesta. 2092 GRASSES NASSES Influence of environment on disease of turfgrasses. i. effect of nutrition, pH, and soll moisture on Rhizoctonia 2314 brown patch. Host range and insect transmission of the hoja blanca di-

Diseases of forage grasses and legumes previously unreported from New Hampshire. 2591

The pathogenicity of certain species of Helminthosporium to species of the Gramineae. 2709

	RA1	

	HEART RA
GRASSHOPPERS Fluorescent marking and migration of grasshoppers from sprayed plots. 2032	GUAM Yeilow mottle decline of coconuts in the territory of Guam. 2770
Food-plant tests with the Differential Grasshopper. 2054	GUATEMALA
GRAVIMETRIC ANALYSIS Comparison of gravimetric and chromic oxide methods for measuring percentage utilization and consumption of food by phytophagous insects. 3277	Vinas disease of coffee (Coffea arabica) in Guatemala. 2246 Septoria leaf blotch, Important disease of wheat in Guate- mala. 2804
GRAY LEAFSPOT (TOMATOES) A delayed harvest test of fungleide sprays on tomatoes	Root-knot nematode on kenaf in Guatemaia. 3062
resistant and susceptible to fruit cracking. 2799	Root-knot nematode on Dioscorea in Guatemala. 3063
GRAYWALL (TOMATOES) Comparative incidence of graywali and internal browning of tomato and sources of resistance. 2694	Parasitic nematodes on Dioscorea in Guatemala. 3054 GUMMOSIS (CHERRIES)
GREAT PLAINS Bacterial canker and spotted wilt of tomato in the west-cen- trai Great Plains. 2872	Gummosis and leaf spotting of sweet cherry, symptons associ- ated with bacterial infection. 2673 GUMMOSIS (IMPERIAL GRASS)
	Gummosis of Imperial grass. 2345
GREEN FRUIT ROT (APRICOTS) Biossom blight and green fruit rot of aimond, apricot and plum caused by Botrytis cinerea. 2711	GYNNOSPORANGIUM GRACILE PAT. Notes on Gymnosporangium gracile Pat. 2587
GREEN FRUIT ROT (PLUMS) Biossom blight and green fruit rot of almond, apricot and plum caused by Botrytis cinerea. 2711	HAEMATOBIA IRRITANS Horn fly control on beef cattle by the use of cable rubhers. 3080
GREEN POINT GALL (CACAD)	Horn fly control studies in Misslssippl, 1961. 3081
Loss of gall-inducing capacity on cacao, when Caionectria rigidiuscula passes from the conidial (Fusarium) stage through the perfect (ascospore) stage. 2540	Pour-on treatments of DDT or toxaphene for horn fly control. 3168
GREEN RING MOTTLE (CHERRIES) The frequency of necrotic ring spot, sour cherry yellows, and green ring mottle viruses in naturally infected sweet and sour cherry orchard trees. 2457	HAEMOCYTES Tyrosinase in the silkworm during the pupation period. 2133
The epinasty virus reaction of Kwanzan and Shiro-fugen flowering cherry. 2665	HAEMOLYMPH Active control of the mechanical properties of Insect endocuticle. 2057
GREEN RING MOTTLE (PRUNUS) The importance of green ring mottle virus detection in a prunus virus indexing program. 2438	HAEMOLYMPH CARGOHYDRATES Effects of dietary glucose on haemolymph carbohydrates of Agria affinis (Fall)• 2235
GREENHOUSE CULTURE Rearing the fall armyworm under greenhouse conditions. 2185	HAIR The fine structure of the labellar chemosensory halrs of the blowfiy, Phormia regina Meig. 2140
Chemotherapeutic action of dimethoate against a root-knot nematode in greenhouse tomato plants. 2507	HALO BLIGHT (BEANS) Halo blight and bacterial brown spot of bean in Wisconsin in 1964. 2487
Inoculation and development of rust on peanuts grown in the greenhouse. 2552	HARVESTING
Responses of tobacco breeding lines to three species of root-knot nematodes in greenhouse tests. 3034	Effect of certain cultural practices on the abundance of tobacco hornworms, tobacco budworms, and corn earworms on tobacco after harvest. 2030
Observations on response of greenhouse-grown cotton to ex- cessive dosages of phosphate insecticides. 3249	HASSAKU DWARF Researches on the indicator piants of Satsuma dwarf and Hassaku dwarf viruses. 2866
GREENHOUSES Experimental greenhouse control of crown gall and olive knot with antibiotic drenches. 2275	HAWAII Conjection of predaceous lady beetle, Hyperaspis trilin- eata, in Barbados, and shipment to Hawail. 1998
Onion smut control experiments with granule formulations in greenhouse and field. 2710	Ixodes laysanensis, a new species of tick from birds on Laysan lsiand (Metastigmata:Ixodidae). 2039
Vaporized dichlorvos for control of arthropod pests in greenhouses. 3164	Population structure and dynamics of Laelaps nuttalil - Hirst and Laelaps echidninus-Berlese (Acarina:
GREENING DISEASE Greening disease of sweet orange in South Africa. 2722	Laelaptidae) on Rattus and Rattus exulans In Hawaii. 2161
GREENPOINT CUSHION GALL Partial resistance to greenpoint cushion gali in cacao clones completely resistant to flowery gall. 2539	HEAD BLIGHT (WHEAT) Fusarial head blight , serious disease of wheat in Guate- maia. 2803
GROUND SURVEYS Dak wilt surveys in West Virginia. 2454	HEART RATE The nervous pathway involved in the release by feeding of a pharmacologically active factor from the corpus cardiacum of
GROWTH FACTORS A growth factor in romaine lettuce for the grasshoppers	periplaneta. 2036

Melanopius saguinipes (F.) and M. bivittatus (Say). 2137

Heart accelerators and decelerators in the nervous system of

Periplaneta americana (L.).	2183
НЕАТ	
Heat treatments for eliminating virus from sweet potato plants.	2515
HEAT TREATMENT Heat curing treatments of gladiolus corms compared with gloidal dips in controlling Fusarium disease.	fun- 2285
Experiments on heating budwood to eliminate exocortis v	irus. 2786
Heat treatments fall to inactivate barley stripc mosaic rus in seed.	vi - 2874
Reduction of postharvest decay of strawberries with che and heat treatments.	mical 3091
HEDERA HELIX A dodder on St. Johnswort and ivy.	2760
HELICOTYLENCHUS DIHYSTERA	
Parasitic nematodes on Dioscorea spp. in eastern Nigeri	a. 3074
HELIOTHIS VIRESCENS Wild host plants of the corn earworm and the tobacco but in eastern North Carolina.	dworn 2022
Effect of certain cuitural practices on the abundance o tobacco hornworms, tobacco budworms, and corn earworms tobacco after harvest.	r 2030
Seasonal occurrence of tobacco budworm on cotton in Georgia.	2033
HELIOTHIS ZEA Wild host plants of the corn earworm and the tobacco bu- in eastern North Carolina.	dworm 2022
Winter survival of the boilworm in central Texas.	2024
Effect of certaln cultural practices on the abundance o tobacco hornworms, tobacco budworms, and corn earworms o tobacco after harvest.	
Measurements of the incubation period of corn earworm e	293. 2151
Silk balling and other factors associated with resistant corn to corn earworm.	ce of 2984
Toxicity of new insecticides to corn earworms on sweet o	orn. 3119
Absorption and metabolism of dimethoste in the boliworm boli weevll.	and 3129
Paraffinic and naphthenic oli fractions in combination o dDT and a Heliothis virus for corn earworm control.	with 3181
HELMINTHOSPORIUM The use of dimethyl sulfoxlde (Dmso) with certain fungl- cides for controlling Helminthosporium diseases of Kentu ky bluegrass.	
Turfgrass diseases in southern California.	2411
Stimulation and depression of ceil-free carboxylating sy tems in relation to development of the Heimlnthosporium leaf spot disease of malze.	
An inverse relationshlp between the severlties of Heimin osporium leaf-blade and Septoria leaf-sheath symptoms or barley.	
The pathogenicity of certain species of Helminthosporium to species of the Gramineae.	n 2709
HELMINTHOSPORIUM HALODES Production of a red plgment by a mutant of Heiminthospor halodes.	rium 3195
HELMINTHOSPORIUM ORYZAE A severe epidemic of Helminthosporium brown spot disease	
cultivated wild rice in northern Minnesota.	2296

Relation of nitrogen to disease development in rice seed-lings infected with Helminthosporlum oryzae. 2

2350

toriae. Morphology and physiology of Heiminthosporium victoriar and 2938 related species. HELMINTHOSPORUM VAGANS Nematodes associated with melting-out of turfgrass. 2245 HEMATOLOGY Free amino acids of the haemolymph of some insects. 2174 HEMICRICONEMOIDES CHITWOODI ESSER Observations on the developmental stages of Hemicriconemoi-des chitwoodi. 302 3024 HEPTACHLOR Residues in beef fat following heptachlor feeding. 3116 Heptachior dust for control of the leaf-cutting ant Sauva Limao, in Brazil. 3150 HERBICIDES The effect of pesticides on turfgrass disease incidence. 2641 Effect of various herbicides on some soli fungi in cuiture 3094 Pine trees near power substations damaged by unea herbi-3098 The immediate and long-term effects of the herbicide MCPA 3131 HER8S R8S Influence of temperature on inlation of crown gall in woody 2388 The resistance of species of Pelargonium to Xanthomonas 2602 pelargonil. HEREDITY Mode of inheritance of pathogenicity in some race hybrids of Ustilago avenae. 2530 HEREDITY (PLANTS) Inheritance of resistance in barley to barley yeilow dwarf. 2380 HETERODA TRIFOLI Effect of Hetcroda trifoil on the growth of Trifoiium pratense and T. repens. 3205 HETERODERA GLYCINES Penetration and development of Heterodera glycines in soy-bean roots and related anatomical changes. 2410 Schavior of populations of Heterodera glycines under vari-

Induced mutation and cytological investigations in Hei-3206

2848

2801

3022

Field and host studies of parasitism by Heiminthosporium sorokinianum.

An extract produced by Heiminthosporium sorokinianum toxic to Puccinia graminis var. tritici. 28

Host-pathogen relationship of Helminthosporium turcicum in resistant and su⊴ceptible corn seedlings. 25 A new type of resistance in corn to Heiminthosporlum tur-

eduction in pathogenicity and toxin production in diseased

Toxin production and pathogenicity in Heiminthosporium vic-

HELMINTHOSPORIUM SOROKINIANUM

HELMINTHOSPORIUM TURCICUM

HELMINTHOSPORIUM VICTORIAE

Helminthosporium victoriac.

cicum.

ous cropping sequences in field bins. Nematocidai seed treatment for control of Heterodera gly-3023 cines in soybeans.

Interaction of Heterodera glycines and Meloidogyne incog-nita on soybeans. 3059

PAGE 96

HEAT

Н	Y	DR	AT	E	S

HETERODERA ROSTOCHIENSIS Negative report on the existence of the golden nematode (Heterodera rostochiensis Voii) in Mexico.	3076	HOPOLAIMUS PROPORICUS Parasitic nematodes on Dioscorea spp. in eastern Nigeria. 3074
Biologicai activity of the golden nematode hatching fac influence on Aspergiilus awamori metabolism.	tor. 3211	HOPS Verticilium wiit of hops in Oregon. 2536
HEVEA BRASILIENSIS Relative resistance or susceptibility of soveral clones Hevea brasiliensis and H. brasilensis X H. benthamiuna to two races of Dothidelia uiei.	of 2619	HORMONES Programmed ccii death- I. Endocrine potentiation of the breakdown of the intersegmentai muscics of siikmoths. 2149
HEVEA BRASILIENSIS X H. BENTHAMIANA Relative resistance or susceptibility of several ciones Hevea brasiliensis and H. brasilensis X H. benthamiana to two races of Dothidella uiei.	of 2619	Heart accelerators and decelerators in the nervous system of Periplaneta americana (L.). 2183 Hormonal control of respiratory metabolism during growth,
HIBERNATION Winter survival of the boliworm in central Texas.	2024	reproduction, and diapause in femalc adults of Pyrrocoris apteris L. (Hemiptera). 219ϵ
Oviposition by virgin overwintered boli weeviis.	2213	HOST INDEXING (PLANTS) The fauna of Polyporus betuiinus (Builiard) Fries
Overwintering of wheat striate mosaic virus in North Da ta.	ko- 2873	(Basidiomycetes: Polyporacea) in Gatineau Park, Quebec. 2027
	tween 3292	Diseases of forage grasses and legumes previously unreported from New Hampshire.
HIBISCUS CANNABINUS	2000	Host ranges of the hoja blanca virus and its insect vectors. 2616
Root-knot nematode on kenaf in Guatemaia. HISTOCHEMISTRY Histochemical and spectrophotometrical studies on sever	3062 ai	Host-parasite relationships in sunflower wilt incited by Sclerotinia sclerotiorum as determined by the twin technique. 2737
dehydrogenases of carbohydrate metabolism in Oniscus aselius.	2117	Host range and testing of Lotus species for disease resis- tance to Phomopsis blight of birdsfoot trefoil. 2899
A histological and histochemical study of the larval fa body of Anthrenus vorax Waterhouse (dermestidae, coleoptera).	t 216B	Attraction of aphanomyces euteiches zoospores to host and nonhost roots. 3208
HISTORY Wheat rust during the spanish era in California.	2831	Host-parasite relationships of pea roots penetrated by zoospores of Aphanomyces euteiches. 3209
Grape mildew as viewed in the early agricultural press california.	of 2B32	HOST PLANTS Natural hosts of cucumber mosaic virus in israel. 2717
Peach leaf curl as viewed in the early agricuitural pre california.	ss of 2B33	HOST RANGE Life cycle and host range of Hypoxylon pruinatum and its pathogenesis on poplars. 2301
Potato biight as viewed in the eariy agricultural press california.	of 2B34	Host relationships of beet western yellows virus strains.
Wheat rust as viewed in the early agricultural press of california.	2835	2400 HOSTPLANT
Wheat smut as viewed in the early agricultural press of ifornia.	cal- 2B36	The chemical basis of hostpiant selection in the slikworm, Bombyx mori (L.). 2169
HOJA BLANCA (RICE) Hoja Blanca in El Salvador.	2267	HOSTS Metabolic studies on the host-parasite complex of Albugo candida on radish. 2929
Occurence of hoja blanca and its insect vector, Sogata orizicola Muir, on rice in Louisiana.	2285	HOT WATER HEATING Experiments on heating budwood to eliminate exocortis virus. 2786
Host range and insect transmission of the hoja blanca d sease of rice.	i- 2445	HOT WATER TREATMENT (PLANTS) Limitations of the hot water immersion treatment for the
Transmission of hoja blanca of rice by the planthopper, Sogata cubana.	2445	control of Phytophthora brown rot of lemons. 2600
Natural occurrence of Hoja bianca on wheat and cats.	2451	Ethylene dibromide water dips for destroying fruit fly infestations of quarantine signifigance in papayas. 2963
Host ranges of the hoja blanca virus and its insect vec	tors. 2616	HUMIDITY The effect of temperature, relative humidity and precipi- tation on peanut leafspot. 2554
Hoja blanca virus transmission to rice plants by viruii ous vectors.	fer- 2983	Influence of temperature and humidity on resistance in alfalfa to the spotted alfalfa aphid and pea aphid. 2976
HONDURAS Rust on tobacco discovered in Honduras.	2693	Some effects of temperature, humidity, age, and sex on the toxicity of dieldrin and ethion to resistant onion maggots,
HONEYDEW Free amino acid and amide composition of pea ieaf juice		Hylemya antiqua. 3135
aphid haemolymph, and honeydew, foilowing the rearing o aphids on single pea leaves treated with amino compound		A compliation of solutions for maintaining constant relative humidities. 3262
	3107	HYDRATES Tolerance to freezing of hydrated and partially hydrated larvae of Polypedilum (Chironomidae). 2142

HYDROCARBONS		
HYDROCARBONS Corn rootworm resistance to chiorinated hydrocarbon insecticides in Illinois. 2	059)
The use of a petroleum hydro-carbon torch in the aseptic transfer of microorganisms and in routine laboratory glas blowing. 3	s II 273	
HYDROCOTYLE SI8THORPIODES Greenhouse studies on the controi of root-knot nematodes Hydrocotyle sibthorpiodes. 3	058	
HYDROCYANIC ACID The HCN content of flax in relation to flax wilt resis- tance. 2	888	
Germination of grain sorghum and sudan grass seeds after fumigation with methyi bromide and hydrocyanic acid. 3	244	
HYDROGEN-ION CONCENTRATION Effect of pH on sterilizing activity of tepa and metepa i male house flies. 2	n 063	
HYDROLYSIS Distribution of non-hydrolysable phosphorus compounds in body of Galleria meilonella L. larvae. 2	the 144 II	1
HYLASTINUS DESCURUS Control of the clover root borer in New York. 2	975 11	9
HYLEMYA ANTIQUA Nutrition and feeding behavior of the adult onion maggot, Hylemya antiqua. 2	155 11	4
HYPERA POSTICA A fail flight period of the alfaifa weevil in New York. 2	029	
Reaction of alfaifa varieties and strains to aifalfa weev 2	11. 972	
Timing of treatments for control of the aifaifa weevii in northern California. 2	982	
Aifaifa weevii controi by stubble treatment. 2	990	
Susceptibility of fourth-instar alfaifa weevil larvae to forty-one insecticides.	121	
HYPERICUM CALYCINUM A dodder on St. Johnswort and ivy. 2	760	
	789	
HYPOCOTYL A hypocotyi coilar rot of Phaseoius vulgaris. 2	928	
HYPOCOTYLS (BEANS) An induced mechanism of tissue resistance to polygalactur ase in Rhizoctonia-infected hypocotyls of bean. 2	on- 293	
HYPOMYCES SOLANI F. CUCURBITAE Physiology of sexual reproduction in Hypomyces solani f. cucurbitae. I. Influence of carbon and nitrogen. 2	525	
HYPOXYLON Hypoxylon canker impact on aspen. 2	270	
HYPOXYLON CANKER Hypoxylon canker on European aspen. 2	269	
HYPOXYLON PRUINATUM Life cycle and host range of Hypoxylon pruinatum and its pathogenesis on popiars. 2	301	
Developmental morphology of Hypoxylon pruinatum in bark o quaking aspen. 2	f 782	
HYPOXYLON PRUINATUM (KLOTZSCH) Hypoxyion canker of aspen in Arizona. 2	522	
HYSTERONEURA SETARIAE Vector-virus relationship of sugarcane mosaic virus. III. Transmission of sugarcane mosaic virus by the rusty plum aphid (Hysteroneura setariae Thos.).	953	
	1	1

DAHO Effects of Hypera nigrirostris, Hyjastinus obscurus, and Sitona hispiduia populations on red clover in southwestern Idaho. 3000 I F X Soron deficiency evident in Oregon hoily orchards. 3240 LEY AQUIFOLIUM Soron deficiency evident in Oregon holiy orchards. 3240 LLINOIS Corn rootworm resistance to chlorinated hydrocarbon insecticides in Illinois. 2059 Stewart s disease: expected development on corn in iiiinols in 1961. 2315 2532 Occurrence of Puccinia polysora in iiiinois. Fusicoccum canker of mountain ash in Illinois. 2809 A sap-transmissable virus associated with a new disease of 2871 corn in southern Iilinois. MIDAZOLE The antimetabolite, imidazole as a pesticide. 3165 MUNE ADHERENCE Detection of cauliflower mosaic virus by immune adherence. 2703 MMUNE ADHERENCE MUNIZATION In vitro reaction of tobacco ringspot virus on black cowpea 2255 leaves. Anthracnose inoculation of sorgo with a tractor-mounted 2386 sprayer. Chemotherapeutic action of dimethoate against a root-knot nematode in greenhouse tomato plants. 2507 Effect of temperature and point of inoculation on the symptomatology of bariey covered smut. 250 2589 Immunity to bean yeliow mosaic virus in cowpea. 2608 Standardization of a procedure for artificial inoculation of cucumbers with Colletotrichum lagenarium. 2629 Leaf symptoms of tobacco ringspot virus infections after mechanical inoculation on different plant structures. 2559 Inoculation and development of rust on peanuts grown in the greenhouse. 2662 Root inoculation of oil paim seedlings with Ganoderma sp. 2700 White rot disease of onion in relation to methods and dates of inoculation, and its incidence in the seedbed. 2763 Long term storage of the sugarcane mosaic virus. 2876 Transmission of soli-borne oat mosaic virus increased by artist s airbrush inoculation. 2879 Failure of loose smut to build up in winter wheats exposed to abundant inoculum naturally disseminated. 28 2897 Induced hybridization between graminicolous species of 3225 Ustilado. An atomizer for inoculating plants with spore-oil suspens 32.55 ton. Use of a portable inoculation tower in laboratory, green-house, and field tests of fungicides to control rice blast. 3275 A glass and cellulose acetate insect cage. 3279 MPERIAL GRASS Gummosis of Imperiai grass. 2345 MPIETRATURA (ORANGES)

PLETATURA (URANGES) The present status of Impietratura, a cltrus disease, in 2735

Cyprus.

INSECT COLLECTING EQUIPMENT

IN VITRO Isolation and in vitro culture of the wheat bunt fungi ietia caries and T. controversa.	Tii- 2886	INSECT ACCLIMATIZATION Tolerance to freezing of iarvae of Polypedilum (Ch
INCLUSION BODIES Large inclusion bodies associated with virus diseases o rice.	of 2524	INSECT ADAPTATION Potentiai changes in the insects during ilght- and
INCUBATION Measurements of the incubation period of corn earworm e	eggs. 2151	Adaptation of tobacco hor nicotine.
Incubation of soli and root samples in polyethylene pla for improved recovery nematodes.	astic 3069	INSECT ADULTS Feeding stimulant for wes adults.
INCUBATION (INSECTS) The respiratory system of the egg-sheli of Calliphora erythrocephala.	2047	Aduit house fiy controi w organophosphorus compound
INDEXING The importance of green ring mottic virus detection in prunus virus indexing program.	a 2435	INSECT ANATOMY The fine structure of the blowfly larvae.
INDIA A new fruit rot of cherries from india.	2575	The adult scent glands an family Coreoidea.
Assessment of loss due to grain smut of jowar miliet (S hum vulgare) in India.	30 rg- 2651	INSECT 8EHAVIOR Seasonai abundance and di some Stomoxys and Tabinid
The effect of vector control on yellow mosaic incidence moong (mung bean) in India.	e on 2652	Seasonai variations in ac in east Texas.
A new disease of Mangifera indica in India, caused by A ternaria tenuissima.	2692	Diel patterns of mosquito locality: Hazen Camp, Eli
A new leaf spot of cardamon from India.	2698	Studies on feeding behavi
Two new diseases of soap-nut tree (Sapindus species) fr India.	rom 2732	Initiation of diapause in
A new smut of iemon grass from India.	2764	An inherited behavioral v
Citrus decline in South India.	2767	Nutrition and feeding beh Hyiemya antiqua.
INDIANA Records of Hippoboscidae (Diptera) from Indiana.	2231	A note on the nocturnal r Westw. in the Republic of
Verticiliium wilt of potato in northern Indiana.	2473	A verandah-trap hut for s
Fungi isolated from unstored corn seed in Indiana in 19 1958.	2893	habits of mosquitos and f The effect of dichiorvos Anopheies gambiae Giies a entering naturaliy.
INDICATOR HOSTS Rio Oso Gem peach seedlings as indicator hosts for the Prunus ring spot virus.	2749	The automatic recording o
INDICATOR PLANTS Researches on the indicator plants of Satsuma dwarf and	1	A light sensitive apparat experimental feeding by i
Researches of the indicator plants of Satsuma dwalf and Hassaku dwarf viruses. INDICATORS (DISEASE)	2866	INSECT BIOCHEMISTRY Partial purification and choilnesterase.
Tetrazolium, an indicator of extent of infection in Phy ophthora root rct of citrus.	260I	INSECT BIOLOGY Additional biological and
INOCULATION DEVICE A device for rapidly and uniformiy inoculating plants w Agrobacterium rhizogenes and other bacteria that requir wounds.	dith re 3270	Aceria tulipae (Acarina: Notes on the biology of h
INOCULUM Sources of inoculum for Aspergilius niger disease of Sp ish peanuts.		The effect of bariey yeli its vector the English gr
ish peanuts. Effect of urediospore concentration on determination of		Siciogy of the hariequin
races of Uroayces phaseoii var, phaseoii. Inoculum potentiai and differences among peanuts in sus	2385	INSECT CAGES A mechanical method of re surface.
tibility to Scierotium rolfsil.	2447	A glass and cellulose ace
INORGANIC CHEMISTRY Penetration of excised apple cuticle by radioactive org and inorganic compounds.	ganic 3220	INSECT COLLECTING EQUIPMENT Evaluation of some factor traps in collecting mosqu
INORGANIC PYROPHOSPHATASE Enzymes of the boil weevil-II. Inorganic pyrophosphatas	se. 2017	An emergence container fo from infested boits.

hydrated and partlaily hydrated hironomidae). 2142 eye and optic lobe of certain d dark-adaptation. 2067 rnworms to the ingestion of 2236 stern and northern corn rootworm 2090 with residual treatments of six 3147 ds. e mosaic midgut epitheilum of 2222 nd scent of nine bugs of the super-2223 liurnal variations in activity of dae in Uganda. 2008 ctivity of the southern pine beetie 2035 o activity in a high arctic iesmere Isiand, N. W. T. 2077 ior of house files. 2083 the boli weevil. 2093 variant in the boil weevil. 2099 havior of the aduit onion maggot, 2156 resting sites of Giossina morsitans 2187 f Zambia. studying the house-frequenting for assessing insecticides. II. (DDVP) on egress and mortality of and Mansonia uniformis (Theo.) 3173 of mosquito activity. 3272 tus for the rapid measurement of insects. 3290 properties of flyhead 2085 d ecological characteristics of 2041 Eriophyidae). hesperotettix viridis. 2076 iow dwarf virus on the biology of iow dwarf virus on the blology of rain aphid, Macrosiphum granarium. 2160 bug, Murgantia histrionica. 2199 etaining flying insects on a test 3259 etate insect cage. 3279 s affecting the efficency of light itoes. 3254 uitoes. for recovering southern pine beeties from infested boits. 3260

Pad method of recovering fruit files from infested fruit. 3278

INSECT COLLECTION Elevated screens for collecting boll weevils flying between INSECT EMERGENCE hibernation sites and cottonfields. 3292 An electric barrier for confining cockroaches in large rear ing or field collecting cans. 3293 Collection of Neodiprion excitant sawfly cocoons in tree 3295 INSECT COLLECTION Collection of predaceous lady beetle, Hyperaspis trilineata, in Barbados, and shipment to Hawaii. 1993 INSECT CONTROL Control of diseases and insect pests of crop plants in the 2240 soviet union. INSECT DIETS Effect on boll weevij progeny of cholesterol added to the adult diet as a powder or an ether solution. 2 2163 Artificial diets for the apple maggot, Rhagoietis pomonell 11. Reproductive potentiai. 21 2170 Nutrition of the boli weevil larva. 2215 INSECT DIGESTION Studies on digestive enzyme productions and its relationship to the cytology of the midgut epithelium in Dysdercus fasciatus Sign. (Hemiptena, Pyrrhocoridae). 2136 INSECT DISEASES Detection by ultraviolet light of stored-product insects in-fected with Mattesia dispora. 3092 INSECT ECOLOGY A new distribution record for the balsam twig aphid. 1992 Notes on the ecology and host specifity of Microlarinus lareynil and M. lypyrlformis (Coleoptera: Curculionidae) and the biological control of puncture vine, Tribulus terrestris. 1993 Ecological studies on the oiive scale, Parlatoria oleae, in 1994 Israel Origin of populations of the six-spotted ieafhopper, Macro steles fascifrons, in Anoka County, Minnesota. 20 2019 An ecological study of arthropod populations on apple in northeastern Wisconsln: insect species present. 2023 A catalogue of the Nearctic Chaicldoidea (insecta: Hymen-2025 optera). Seasonal variations in activity of the southern pine beetle 2035 in east Texas. Additional biological and ecological characteristics of Aceria tulipae (Acarina: Eriophyidae). 2041 Physiological aspects of host specificity in the Bruchidae -I. General considerations of developmental compatibility 2049 INSECT EGGS The respiratory system of the egg-shell of Calliphora erythrocephala 2047 Enzymatic pathways in the formation of sorbitol and glycerol In the diapausing egg of the silkworm, 8ombyx morl - 1. on the polyol dehydrogenases. 2073 Measurements of the incubation period of corn earworm eggs. 2151 Development of the cholinergic system in insect eggs. 2157 The influence of nutritional and hormonal factors on egg 2173 development in the blowfly Phorma regina (Meig.). The seroscopic chorion of the egg of Cailiphora erythro-cephala Meig. (Diptera) studied with the electron micro-2228 scope. Sensitivity of bacterial isolates from eggs of Aphis pomi 2989 to Erwinia amyjovora bacteriophages. PAGE 100

NSECT EMERGENCE Apple maggot emergence and seasonal activity in Wisconsin. 2040 INSECT EVOLUTION On the origin of filght in insects. 2004 INSECT FLIGHT On the origin of flight in Insects. 2004 Flight study of the clover root curcuiio. 2028 A fall flight period of the alfaifa weevil in New York. 2029 The control of spontaneous locomotor activity in Phormia regina Meigen-I. Locomotor activity patterns of intact flles. 2106 INSECT FLIGHT CHAMBER A modified flight chamber. 3258 INSECT GENETICS A recessive factor for organophosphate-resistance in populations of the two-spotted spider mite, Tetranychus telarius. 2234 INSECT GROWTH Studies on the dermested beetle Trogoderma granarium Everts - IV. Feeding, growth, and respiration with particular reference to diapause larvae. 2065 INSECT HARDINESS Cold hardiness in the European corn borer, Pyrausta nubilalis (Hubn.). 2112 INSECT HISTOLOGY Morphology and histology of the neuroendocrine system of Bombus fervidus Fabricus (Hymenoptera:Apidae). 2000 A histological and histochemical study of the larvai fat body of Anthrenus vorax Waterhouse (dermestidae, coleoptera). 2168 Haemocytes and the metamorphosing tissues in Sarcophaga buliata, Drosophila melanogaster, and other cyciorrhaphous. Dipters. 2227 Histology of the Malpighian tubules in rhodnius prolixus Stal (Hemiptera). 2229 INSECT HORMONES The influence of nutritional and hormonal factors on the chemistry of the fat body, blood, and ovaries of the blowfly Phorma regina Meig. 2172 The influence of nutritional and hormonal factors on egg development in the blowfiy Phorma regina (Meig.). 2173 INSECT IDENTIFICATION Sexing large numbers of Drosophila melanogaster adults by a size differential. 2012 INSECT METABOLISM Influence of chioramphenicol on some aspects of the metabolism of the parasitoid Encarsla formosa Gahan. 2052 Histochemical and spectrophotometrical studies on several dehydrogenases of carbohydrate metabolism in Onlacus asellus. 2117 The effect of temperature on the oxygen consumption of tsetse pupae. 2181 Respiratory metabolism during embryogenesis of a diapause species of field cricket, Grylius pennsylvanicus Burmeister (Orthoptera, gryilidae). 2182 INSECT MIGRATION Fluorescent marking and migration of grasshoppers from 2032 sprayed piots. INSECT MORPHOLOGY Morphology and histology of the neuroendocrine system of Bombus fervidus Fabricus (Hymenoptera:Apidae). 2000

Physiological aspects of host specificity in the Bruchidae -1. General considerations of developmental compatibility. 2049

INSECT	DO	THIG	AT.	កោស

2987

A brief survey of the effects of potential antimetabolites and enzymes on the development of glant silkworms. 20 2061 The nutritional requirements of locusts. - III. carbohy-drate requirements and utilization. 2081 Experiments on the effect of farmesol on the development of normal and bar-eyed Drosophila. 201 Intergranular space as a limiting factor for the growth of pulse beetles. Cryptobiosis in the larva of Polypedilum vanderplanki (Hint.) (Chironomidae). 2122 INSECT PESTS The influence of nutritional and hormonal factors on egg development in the blowfly Phorma regina (Meig.). 2173 Hormonal control of respiratory metabolism during growth, reproduction, and diapause in female adults of Pyrrocoris apteris L. (Hemiptera). 2196 INSECT MORTALITY Effects of a high vacuum on insect mortality. 2212 INSECT NUTRITION A qualitative and quantitative study of the nutritional 2045 requirements of Aedes aegypti L iarvae. Studies on the dermested beetie Trogoderma granarium Everts - IV. Feeding, growth, and respiration with particular reference to diapause larvae. 2065 The nutritional requirements of iocusts. - III. carbohydrate requirements and utilization. 2081 The nutritional requirments of locusts.- II. Utilization sterols. 2082 The nutrition of choline, carnitine, and related compounds in the blowfly, Phorma regina Meigen. 2123 Effects on the parasitoid Agria affinis (Fail.) (Diptera: Sarcophagidae) of small molecules in diets. 2124 Effect of sugars on feeding of jarvae of the sijkworm. Bombyx mori. 2127 Effects of sterols on feeding and nutrition of the silkworm. Bombyx mori L. 212: Nutritionally essential and non-essential amino acids for the prairie grain wireworm, Ctenicera destructor Brown, determined with giucose-U-C14. 2132 A growth factor in romaine lettuce for the grasshoppers Melanopius saguinipes (F.) and M. bivittatus (Say). 2137 Food preference studies with Trogoderma inclusum, a pest of the dry milk industry. 2155 Nutrition and feeding behavior of the adult onion maggot, 2156 Hyiemya antiqua. Feeding on filter paper by Iarvae of the silkworm Bombyx 2165 The influence of nutritional and hormonal factors on the chemistry of the fat body, blood, and ovaries of the blowfly

Phorma regina Meig. 2172

The influence of nutritional and hormonal factors on egg development in the blowfly Phorma regina (Meig.). 2173

Studies on the digestive proteinase of clothes moth larvae (Tineola bissellielia)-I. Partial purification of the proteinase. 217B

The effects of nitrogen starvation on the concentration of free amino acids in Myzus persicae (Suizer) (Homoptera, 2206 Aphidae).

Nutrition of the boll weevil larva. 2216

Nutrition of the adult boli weevil: lipid requirements. 2217

Effects of dietary glucose on haemolymph carbohydrates of 2235 Agria affinis (Fali).

Comparison of gravimetric and chromic oxide methods for measuring percentage utilization and consumption of food by phytophagous insects.

A light sensitive apparatus for the rapid measurement of experimental feeding by insects.

INSECT DUTBREAK FORECASTING

Comparing various methods of predicting development of spruce budworm, Choristoneura fumiferana. In northern Minnesota

Early detection of heliothis on cotton.

The southern potato wireworm, a new pest of tobacco. 2971

Vaporized dichiorvos for controi of arthropod pests in 3164 arcenhouses.

Comparison of gravimetric and chromic oxide methods for measuring percentage utilization and consumption of food by phytophagous insects. 3277

INSECT PHYSIOLOGY

The respiratory system of the egg-shell of Calliphora erythrocephala. 2047

- The influence of the queen on brood rearing in ants of the 2064 genus Myrmica.
- Studies on the relationships between air temperature and the internal body temperature of Locusta migratoria. 2074
- The nutritional requirments of locusts.- II. Utilization 2082 of sterois.
- Regenerative growth in insect nerve axons. 210B
- Composition of the oothecae of three Orthoptera. 2109
- Effect of sugars on feeding of larvae of the siikworm, Bombyx mori. 2127
- Tyrosinase in the silkworm during the pupation period. 2133
- Development of the cholinergic system in insect eggs. 2157

Control of reproduction in female cockroaches with special reference to Nauphoeta cinerea-I. first pre-oviposition

period. 2190

Electrophysiological investigation on the olfactory specificity of sexual attracting substances in different 2193 species of moths.

Physiology of sawfly metamorphosis. -1. Continuous respiration in diapausing prepupae and pupae. 2197

The nature of slow and fast contractions in the coxai muscles of the cockroach. 2215

INSECT POPULATION Relative seasonal abundance of two species of heliothis on cotton in an area of brazos county, texas. 20 2034

Population structure and dynamics of Laeiaps nuttalii t and Laelaps echidninus-Berlese (Acarina: Laeiaptidae) on Rattus and Rattus exulans in Hawali. 2161

Estimates of the numbers of Heliothis larvae per acre in cotton and their relation to the fruiting cycle and yield of the host. 2955

Evaluation of populations and control of the western bean cutworm in field beans in nebraska. 2 2074

Development of population of the boli weevil in fields treated with various insecticides during 1959, 1960, and 1961. 2999

Control of first generation sugarcane borer populations in Louisiana. 3141

INSECT POPULATIONS

INSECT PUPULATIONS	
INSECT POPULATIONS An ecological study of arthropod populations on apple in northeastern Wisconsln: insect species present.	2023
Effect of DDT on plnk boilworm populations.	3177
INSECT PROTECTIVE DEVICES Aspects of the noctuid tympanic nerve response having si ficance in the avoidance of bats.	gni- 2189
INSECT REARING The influence of the queen on brood rearing in ants of t genus Myrmica.	he 2064
Mass rearing of Daphnia magna for insecticide bioassay.	2091
Rearing and isotopic labeling of Fannia canicularis.	2100
The rearing of the variegated cutworm, Peridroma saucia, the laboratory.	in 2101
Effect of organic content in the farval medium on the production of two species of Hippelates.	2130
Concentrate media for rearing red-banded leaf roller.	2185
Rearing the fall armyworm under greenhouse conditions.	2186
Mass rearing of the garden symphylan, Scutigerella immac lata in laboratory cultures.	u- 2214
INSECT REARING EQUIPMENT An electric barrier for confining cockroaches in large r ing or field collecting cans.	ear- 3293
INSECT RESPIRATION	3293
The respiratory system of the egg-sheil of Calliphora	2047
Studies on the dermested beetle Trogoderma granarium Everts — IV. Feeding, growth, and respiration with particular reference to diapause larvae.	2065
Respiratory metabolism during embryogenesis of a dlapaus species of field cricket, Gryilus pennsylvanicus Burmelster (Orthoptera, gryilidae).	e 2182
Hormonal control of respiratory metabolism during growth reproduction, and diapause in female adults of Pyrrocorl apteris L. (Hemiptera).	
Physiclogy of sawfly metamorphosis I. Continuous re- spiration in diapausing prepupae and pupae.	2197
Respiratory chain metabolism in the Colorado potato beet —Ii. Respiration and oxidative phosphorylation in sarco somes from diapausing beetles.	
INSECT TAXONOMY Three new Trichosurolaelaps (Acarina:Laelaptidae) with a key to the species.	2020
A catalogue of the Nearctic Chalcidoldea (insecta: Hymen optera).	- 202\$
INSECT TEMPERATURE Studies on the relationships between air temperature and the internal body temperature of Locusta migratoria.	2074
Temperature and the action of DDT on the nervous system · Periplaneta americana (L.).	of 2094
The body temperature of the tsetse fly, Giossina morsita Westwood (Diptera, Muscidae).	ns 2095
Effect of temperature on the periodic heartbeat reversal heart rate in Coretra plumicornis (Diptera).	and 2138
INSECT TRAPS Control of the western harvester ant, Pogonomyrmex occid talis, with poisoned baits.	en- 3130
A verandah-trap hut for studying the house-frequenting habits of mosquitos and for assessing insectleides. II. The effect of dichlorvos (DDVP) on egress and mortality Anopheles gambiae Giles and Mansonia uniformis (Theo.)	of

entering naturally. 3173 A portable device for distributing paste baits over large 3269 INSECT TROPISM Laboratory observations on factors affecting the movements of hoppers of the desert locust. 21 2118 INSECT VECTORS The role of the paim weevil, Rhynochopphorus palmarum, a a vector of red ring disease of coconuts. I. results of preilminary investigations. 85 2007 Adaptation of the abutiion whitefly for laboratory use. 2121 The effect of barley yellow dwarf virus on the biology of its vector the English grain aphid, Macrosiphum granarium 2160 Occurence of hoja blanca and its insect vector, Sogata orizicola Muir, on rice in Louisiana. 2285 Systemic spread of tristeza in one Valencia orange tree. 2329 Macrosiphum rosae, Acyrthosiphon porosum, and Aphis gos-sypii as vectors of strawberry viruses in Louisiana. 2342 Natural occurrence of Hoja blanca on wheat and oats. 24S1 The potential of magdalis spp. in the transmission of Ceratocystls uimi (Buis.) Moreau. 2459 Vector anomalies affecting efficiency in plant virus 2518 transmission. Host ranges of the hoja bianca virus and its insect vectors 2616 Observations on cucumber beetles as vectors of cucurbit 2620 wilt. The effect of vector control on yellow mosaic incidence on moong (mung bean) in India. 26 2652

Effectiveness of Vapam in preventing root graft transmission of the dutch elm discase fungus. 2702

Aphids and the epidemiology of barley yellow dwarf virus in New Brunswick. 2726

Leafhopper transmission of tungro disease of rice. 277S

Vector-virus relationships of watermelon mosaic virus and the green peach aphid, myzus persicae. 2875

Vector-virus relationship of sugarcane mosaic virus. III. Transmission of sugarcane mosaic virus by the rusty plum aphid (Hysteroneura setariae Thos.). 2953

Hoja blanca virus transmission to rice plants by viruilferous vectors. 2983

INSECT WATER USE

A note on water uptake and gustatory discrmination in a predatory Reduviid (Hemiptera), 2096

INSECTICIDAL AEROSOLS -Vaporized dichlorvos for control of arthropod pests in greenhouses. 3164

A dispenser designed to provide large quantities of insecticide vapor. 3266

INSECTICIDE APPLICATION Populations of certain insects and spiders on cotton plants following insecticide applications. 2026

Timing of insecticides applled as follar sprays and in irrigation water against Chilo suppressalis in Korea. 2987

Scheduling insecticide applications for peach tree borer control. 2981

Timing of treatments for control of the alfaifa weevil in northern California. 2982

Evaluation of DBCP formulations and application depths for

		INSECTOD
root-knot nematode control and phytotoxicity to tomato	es. 3031	Selection of a fluoroacetate resistant strain of house flies and investigation of its resistance pattern. 2209
Horn fly control on beef cattle by the use of cable rule \ensuremath{rul}	bbers. 3080	A recessive factor for organophosphate-resistance in populations of the two-spotted spider mite, Tetranychus telarius. 2234
DDT residues in mountain stream water as influenced by treatment practices.	3100	Toxicological studies on the Egyptian cotton leafworm,
Sevin residues in milk from dairy cows following derma		Prodenia litura. 11. Reversion of toxaphene resistance in the Egyptian cotton leafworm. 3133
applications. Progress report on granular formulations of insecticide controlling termites.	3109 es for 3122	Some effects of temperature, humidity, age, and sex on the toxicity of dieldrin and ethion to resistant onion maggots, Hylemya antiqua. 3135
Pour-on treatments of DDT or toxaghene for horn fly control.	3169	Comparative toxicity of some phosphoramidothicates and phos- phoramidates to susceptible and acaracide-resistant strains
INSECTICIDE DEPOSITS		of Tetranychus pacificus and Panonychus citri. 3145
Spray deposits on apple trees following applications by three types of sprayers.	у 3265	Latent toxicity of insecticides to resistant and susceptible strains of the house fly. 3172
INSECTICIDE RESIDUES The disappearance of dimethoate from soil.	3095	INSECTICIDES Populations of certain insects and spiders on cotton plants following insecticide applications. 2026
DDT residues in mountain stream water as influenced by treatment practices.	3100	Corn rootworm resistance to chlorinated hydrocarbon Insecticides in Illinois. 2059
Abscence of residues in milk after barns were sprayed w dimethoate.	with 3105	Resistance of tobacco hornworms to certain insecticides in North Carolina. 2180
Note on the determination of residual bromine in ethyle dibromide-fumigated cereals.	ene 3106	The free amino acid pool of the cockroach (Peripianeta ame-
Parathion residue in greens.	3108	ricana) central nervous system and the effect of insecticides. 2184
Sevin residues in milk from dairy cows following dermal applications.	1 3109	Attempts to control dissemination of internal cork virus of sweetpotatoes with insecticides. 2485
The toxicity of insecticides to larvae of the codling a Cydia pomonella (L.). 11. maintenance of a toxic deposin the field.		The effect of pesticides on turfgrass disease incidence. 2641
Initial deposit and disappearance rates of various Insecticides as affected by forage crop species.	3111	Evaluation of two systemic insecticides applied as seed treatment for the control of Meloidogyne incognita acrita attacking cotton. 2716
Problems resulting from the misuse of lindane for chig control on turkey ranges as related to residue edible	ger	Effect of insecticide-fungicide combinations on emergence of peas and growth of damping-off fungi. 2774
tissues. Phosphamidon residue studies on various crops.		Timing of insecticides applied as foliar sprays and in irri- gation water against Chilo suppressalis in Korea. 2957
Residues in beef fat following heptachlor feeding.	3115	Evaluation of populations and control of the western bean
Residual effectiveness of dust and granular formulation		cutworm in field beans in nebraska. 2974
pentachloronitrobenzene (PCNB) The disappearance of dimethoate and SD-7438 from alfali	3117	Insecticides tested for control of the douglas-fir cone midge. 2979
The disappearance of dimethoate and 30-7430 from affair	3119	Insecticides for the control of the green peach aphid on shade-grown tobacco. 2995
The toxicity of insecticides to larvae of the codling r Cydia pomonella (L.). I Intrinsic toxicity and persistence.	moth, 3137	Insecticidal control of first-instar pink bollworm larvae and observations of their dispersal on cotton piants.
Adult house fly control with residual treatments of size		2998
organophosphorus compounds. Effectiveness and residual activity of new compounds in	3147 soil	Development of population of the boll weevil in fields treated with various insecticides during 1959, 1960, and 1961. 2999
against the eye gnat, Hippelates collusor.		Control of root-knot nematodes with organophosphate insecti-
Residual and topical toxicity of certain insecticides laboratory-reared face flies.	3179	cides. 3040 The toxicity of insecticides to larvae of the codiing moth,
INSECTICIDE RESISTANT INSECTS Populations of certain insects and spiders on cotton p following insecticide applications.	lants 2026	Cydia pomonella (L.). 11. maintenance of a toxic deposit in the field. 3110
Resistance to acaricides in the European red mite.	2050	Initial deposit and disappearance rates of various insecticides as affected by forage crop species. 3111
Corn rootworm resistance to chlorinated hydrocarbon insecticides in 111inois.	2059	Toxicity of new insecticides to corn earworms on sweet corn. 3119
Prolonged resistance in the house fly and bed bug.	2153	Susceptibility of fourth-instar aifalfa weevil larvae to forty-one insectleides. 3121
A mechanism of resistance to isolan in the house fly.	2177	Progress report on granular formulations of insecticides for
Resistance of tobacco hornworms to certain insecticide:		controlling termites. 3122

Resistance of tobacco hornworms to certain insecticides in North Carolina. 2180

PAGE 103

Field tests with new insecticides for control of the southern corn rootworm attacking peanuts in virginia.

SUBJECT INDEX

INSECTS		
	3125	Resistance
Toxicological studics on the Egyptian cotton lea Prodenia litura. I. Susceptibility of different instars of Prodenia to insecticides.		INVERTASE Characteria
The toxicity of insecticides to larvae of the co Cydia pomonella (L.). I Intrinsic toxicity and persistence.		the pca aph Aphldidae). IODINE
Tests of ciodrin and other materials against fac musea autumnalis.	ce fly, 3138	Detection o iodine test
Influence of soll moisture on the toxicity of in in a mineral soll to insects.	nsecticides 3140	IDDINE TEST Detection o orange by t
Field evaluation of insecticides for woolly appl trol.	le aphid con- 3144	IDN EXCHANGE Conditions
Effect of various insecticides in the control of caterpillars attacking tomato in california.	3152	mosaic viru IDWA
Activities of new insecticides against adults of collusor and h. pusio.	Hippelates 3155	A corn dise
Field studies on the effects of insecticides on wildlife species.	some aquatic 3157	Citrus-root IRIS
Field evaluation of some new insecticides for th the pea aphid on alfalfa.	ne control of 3159	Soil-borne um controll
Effectiveness of insecticides against white grub grass lawns.	os in blue- 3163	Efficiency ing soil-bo rolfsli.
Contact toxicities of 22 Insecticides to the coc Distantiella theobroma(Dist.) (Hemiptera, Mirida		IRISH POTATO Irish potat
Aerial application of insecticides to control sp ations of the cereal leaf beetle on small grains		IRRADIATION
Latent toxicity of insecticides to resistant and strains of the house fly.	susceptible 3172	Some effect thetrla dis
A verandah-trap hut for studying the house-frequ habits of mosquitos and for assessing insecticid The effect of dichlorvos (DDVP) on egress and mo Anopheles gambiae Giles and Mansonia uniformis (les. II. ortallty of Theo.)	Effects of spotted spi Some effect
entering naturally. Toxicological studies on the Egyptian cotton lea	3173	Mexican bea
Prodenia iltura. III. A modified technique for t the stomach-poisoning effect of insecticides of larvae.	testing	Phytophthor Irrigation.
Evaluation of some chemicals as feed additives t face fly larvae.	to control 3176	Timing of i gation wate
Residual and topical toxicity of certain insecti laboratory-reared face flies.	icides to 3178	Interaction Meioidogyne
Toxicity of insecticides to a Coccinellid predat cereal leaf beetle.	tor of the 3182	Efficacy of
Observations on response of greenhouse-grown cot cessive dosages of phosphate insecticides.	tton to ex- 3249	ISOLAN A mechanism
INSECTS Populations of certain insects and spiders on co following insecticide applications.	otton plants 2026	ISOLATES Influence o lates.
Relation of insects to internal cork of sweet po Louisiana.	otato in 2980	Black root- ted Thielav
Influence of soli moisture on the toxicity of in in a mineral soll to insects.	nsecticides 3140	ferrent soi Reactlon of rust.
Controi of certain insects and mites on cotton w systemic organophosphorus compounds.	ith three 3149	ISOTOPES
Dbservations of some insects after treatment wit blanchard, r a.	h Zinophos. 3179	Growth-regu phenoxyacet
INTERNAL BROWNING (TOMATDES) Comparative incidence of graywall and internai b tomato and sources of resistance.	prowning of 2694	ISRAEL Ecological Israel.
Tomato and sources of resistance. INTERNAL CORK (SWEETPOTATOES) Attempts to control dissemination of internal co		The suscept severai fol
sweetpotatoes with insecticides.	2485	Occurrence
PAGE 104		

in sweetpotato to the internal cork virus. 2714 stics of invertase from the alimentary canal of hid, Acyrthosiphon pisum (Harr.) (Homoptera, 2200 of psorosis virus in leaves of sour orange by the 2408 of psorosis virus infection in leaves of sour the iodine tcst. 2409 favorable for adsorption and elution of tobacco us in an Ecteola-cellulose column. 2766 easc in Iowa. 2615 t nematode in Iraq in 1965. 3051 infection of bulbous iris by Selerotinia bulbor-led by bulb and soil treatments with PCNB. . 2461 of various methods of applying PCNB for prevent-orne infestation of bulbous iris by Sclerotlum 2463 to seed plece treatment with various chemicals. 3241 ts of gamma irradiation on the gypsy moth, Porspar. gamma radiation on the fertility of the two-der mite and its progeny. 2119 ts of gamma radiation and a chemosterilant on the an beetle. 2120 ra parasitica var. nicotianae spread by overhead . 2932 insecticides applied as foliar sprays and in Irri-er against Chilo suppressalis in Korea. 2957 ns of EDB, CDEC, and irrigation on control of e incognita acrita. 3032 DBCP flood irrigation in established citrus. 3054 m of resistance to Isolan in the house fly. 2177 of temperature on growth of Fomes annosus iso-2372 -rot development on pinto beans, incited by selec-viopsis basicola isolates, as influenced by dif-il temperatures. 2642 f wheat seedlings to new isolates of wheat stcm 2667 ulating properties of deuterated 2,4-dichloro-3243 studies on the olive scale, Parlatoria oleae, in 1994 tibility of safflower varieties and specles to 2282

of barley yellow dwarf virus (BYDV) in Israei. 2500

Observation on tobacco biue mold in Israzi.	2520
Appearance of tobacco biuc moid in Israel.	2733
The occurrence of pits and protuberances in the x citrus varieties in Israei.	yiem of 2736
The effect of weather on dispersal of Aitcrnaria a semi-arid region of Israei.	spores ln 2787
Crown gail disease in Israel.	2904
Species of Fusarium found associated with willing varieties resistant to F. oxysporum in Israel.	of tomato 2954
Citrus nematode on American persimmon in Israel.	3017
TALIAN PRUME TREES Influence of location on invasion of dry-ice-kill on Italian prune trees by naturally disseminated fungi.	
TALIAN SWEETCLOVER Meiiiotus italica, a new host for Uromyces strlat	us. 2623
TALY The probable coidentity of the moria disease of p in Italy and pear deciine in North America.	ear trees 2814
XODIDES Ixodes iaysanensis, a new species of tick from bi Laysan island (Metastigmata:Ixodidae).	rds on 2039
APAN Anaiysis of songs of Japanese clcadas.	2110
ERUSALEM ARTICHOKES Susceptibility of Artemisia vulgaris and hellant osus to crown gali, Agrobacterium tumefaciens.	hus tube r- 2277
UGLANS HINDSII The etlology of blackline in grafted Persian wain	uts. 2670
UGLANS REGIA The etiology of blackline in grafted Persian wain	uts. 2670
Jugians regia apparentiy not susceptible to elm a isolates of Verticiiilum albo-atrum.	nd cherry 2671
UNCUS EFFUSUS Juncus effusus, a new host for Epichloe typhina.	2593
UNIPERUS VIRGINIANA Control of phomopsis blight of eastern redcedar s	eedilngs. 2743
UTE	
Susceptibility of jute strains to four root-knot (Meloidogyne spp.) In Eastern Nigeria.	nematodes 3073
UVENILE HORMONE The influence of juvenile hormone on the oxygen o of the last larval instar of Pyrrhocoris apterus	onsumption L. 2171
ADANG-KADANG (COCONUTS) Yeliow mottle deciine of coconuts in the territor	y of Guam. 2770
ANSAS Cereal rust epidemiology in Kansas in 1959.	2326
Relative prevalence of NA61 races of Puccinia rec in 1960 in Kansas and Oklahoma.	ondita 2564
Dutch eim disease in kansas in 1960.	2604
Dutch eim disease In Kansas in 1964.	2930
ENAF	
Root-knot nematode on kenaf in Guatemaia.	3062
ENTUCKY Occurrence of certain plant diseases in Kentucky	in 1964. 2557
Occurrence of certain plant diseases in Kentucky	In 1963.

	LAMBERT MOTTLE (CHERRIES)
KERNEL ROT (CORN) A new kernel rot discase of corn	in wisconsin. 2535
KERNELS Rice discases in the Delta Area	of Mississippi in 1959. 2561
KIDNEY BEANS A new race of bean rust in Arkan	sas. 2460
Biack root-rot development on pi ted Thieiavlopsis basicoia isoia ferrent soll temperatures.	
Effects of soli temperature and the development and severity of	
A hypocotyl collar rot of Phased	ius vulgaris. 2928
Seiectlve effects of bariey rcsi bean root-rot complex.	due on fungi of the pinto 3114
A comparison of two ringspot-rel beans.	ated viruses from red kidney 3187
Pectlc enzymes assoclated with R of bean.	hizoctonla-Infected tissues 3194
KING CARDINAL CARNATIONS Effects of four viruses on yleid dinal carnations.	l and quaiity of King Car- 2323
KOREA Physloiogic races of Puccinia gr Korea.	amlnis tritici in Southern 2356
Timing of insecticides appiied a gation water against Chilo suppr	
KWANZAN FLOWERING CHERRY The epinasty vlrus reaction of K flowering cherry.	wanzan and Shlro-fugen 2665
KYMOGRAPHY The nature of slow and fast muscles of the cockroach.	contractions in the coxal 2215
LABELING Fluorescent marking and migratic sprayed plots.	on of grasshoppers from 2032
LABURATURY EQUIPMENT A laboratory device for observin in heating of stored grain.	ng Insects and mites involved 3263
A device for rapidiy and uniform Agrobacterium rhizogenes and oth wounds.	ily inoculating piants with ier bacteria that require 3270
Recording circadian rhythms of t sensing device.	he cockroach with a capacity 3281
Aspirator for rapid sexing and t ciates pusio.	ransfer of eye gnats, Hipp- 3285
Use of disposable plastic growth cai research.	n pouches in phytopathologi- 3287
An electric barrier for confinin ing or fleid collecting cans.	g cockroaches in large rear- 3293
LADINO CLOVER Fiorai infection of Ladino white vularia trifoili.	ciover, incited by Cur- 2590
LADY APPLES Water core in Lady variety appie	s during storage. 3085
LAKE STATES The distribution of eastern and Lake States.	western gail rusts in the 2268
LAMBERT MOTTLE (CHERRIES) The host range of the virus of L progress report.	ambert mottie of cherry, a 2632

barley.

LAMPYRIDAE LAMPYRIDAE Observation on the gross innervation of the firefly light 2113 organ. LAND Effect of PCN8 on laolates of Rhizoctonia solani under 2816 field conditions. LARIX OCCIDENTALIS A phomopsis canker on western larch. 2924 LARVAE action pattern and physiologic role of Tenebrio larval 2048 amylase. Studies on the dermested beetle Trogoderma granarium Everts - IV. Feeding, growth, and respiration with particular reference to diapause larvae. 2065 The effect of standard coid storage and controlled atmosphere storage on survival of jarvae of the oriental fruit moth, Grapholita molesta. 2092 Cold hardiness in the European corn borer, Pyrausta nubilalis (Hubn.). 2112 Cryptobiosis in the larva of Polypedilum vanderplanki (Hint.) (Chironomidae). 2122 Effect of sugars on feeding of larvae of the slikworm, 2127 Sombyx mori. Effect of organic content in the larval medium on the production of two species of Hippelates. 2130 Phosphorylethanolamine and phosphorylchollne in the haemo-iymph of larvae of Galieria meilonella L. during starva-2143 tion. Distribution of non-hydrolysable phosphorus compounds in the body of Galleria melloneila L. iarvae. 2144 Feeding on filter paper by larvae of the silkworm Bombyx. 2165 A histological and histochemicai study of the larvai fat body of Anthrenus vorax Waterhouse (dermestidae, coleoptera). 2168 Nutrition of the boll weevil larva. 2215 The fine structure of the mosaic midgut epithelium of blowfly iarvae. 2222 Estimates of the numbers of Heliothis larvae per acre ln cotton and their relation to the fruiting cycle and yield of the host. 2955 Insecticidal control of first-instar pink boliworm larvae and observations of their dispersal on cotton plants. 2998 Susceptibility of fourth-instar alfalfa weevil larvae to forty-one insecticides. 3121 Toxicological studies on the Egyptian cotton leafworm, Prodenia litura. I. Susceptibility of different larval instars of Prodenia to insecticides. 3134 Toxicological studies on the Egyptian cotton leafworm, Prodenia iltura. III. A modified technique for testing the stomach-polsoning effect of insecticides of leaf-feeding LARVAR. 3175 Evaluation of some chemicais as feed additives to control 3175 face fly larvae. LARVICIDES Susceptibility of fourth-instar alfaifa weevil iarvae to forty-one insecticides. 3121 LATE BLIGHT (CELERY) Oils reduce sporulation of Septoria on celery. 2936 LATE BLIGHT (POTATOES) Occurrence of late blight disease of potatoes in Montana. 2261 2333 Screening of potato fungicides in 1959.

The Toluca Valley, an outstanding area for testing fungi-cides on potatoes under natural conditions against late bilght (Phytophthora infestans). ž 2347 Potato blight as viewed in the early agricultural press of 2834 Weather map analysis - an aid in forecasting potato iate 2911 Further development of aerial photographic techniques for potato iate blight detection. 3261 LATENT VIRUS (CUCURBITS) A virus latent in some cucurbits. 2917 LEAD ACETATE A congenital deformity experimentally produced in caives by feeding iupine and lead. 312 3123 LEAD POISONING Large animai toxicological problems. 3160 LEAF BLADE An inverse relationship between the severities of Heiminth-osporium leaf-blade and Septoria leaf-sheath symptoms on bariey. 2687 LEAF BLOTCH (WHEAT) Septoria leaf blotch, important disease of wheat in Guatemala. 2804 LEAF CURL (PEACHES) Peach leaf curl as viewed in the early agricultural press of california. 2833 LEAF DROP (TAXUS) Leaf drop of Taxus. 2860 LEAF LESIONS (PEPPER) microagglutination test for identifying Xanthomonas vesicatoria in pepper leaf lesion. 2688 LEAF MOLD DISEASE (TOMATOES) Control of leaf moid in a heavily infected tomato crop with a polybutene emulsion. 2321 LEAF MOTTLE (PEANUTS) Mechanical transmission of a virus causing leaf mottling of peanuts. 2609 LEAF ROLL (TOMATO) Influence of variety and pruning on non-infectious leaf roil of tomato. 2823 LEAF RUST (BARLEY) New pathogenic strains of Puccinia hordel among physiologic races identified in United states from 1959 through 1964. 2689 LEAF RUST (FUCHSIA) Pucciniastrum epilobii on Fuchsla in Oregon. 2630 LEAF RUST (WHEAT) Cereal rust epidemiology in Kansas in 1959. 2326 The North American 1961 set of supplemental differential wheat varieties for leaf rust race identification. 2362 Identification of wheat leaf rust resistance combinations by differential temperature effects. 2563 Relative prevalence of NA61 races of Puccinia recondita in 1960 in Kansas and Oklahoma. 2564 LEAF SAMPLING DEVICE scissors device for collecting leaf samples from apple Α trees. 3280 LEAF SCALD (RICE) AF SCALD (RICE) Leaf scald of rice, Rhynchosporium oryzae, in Costa Rica. 2504 LEAF SHEATH An inverse relationship between the severities of Heiminth-osporium leaf-blade and Septoria leaf-sheath symptoms on barley. 2687

Ł		

			LIGH
LEAF SPOT (ALFALFA) A method for screening alfaifa plants for resistance to Pseudopeziza medicaginis.	2439	Antibiotic activity of pear leaves against Erwinia amy- lovora and its relation to beta-glucosldase.	3222
LEAF SPOT (CHERRIES) Gummosis and leaf spotting of sweet cherry, symptons as	isoc[-	A whole-mount technique for studying infected leavea.	3271
ated with bacterial infection. LEAF SPOT (CLOVER)	2673	LECANIUM CORNI A study of the European fruit lecanium scale, Lecanium corni, on prune.	2956
Fioral infection of Ladino white clover, inclted by Cur vularia trifolii.	2590	LEGUMES Relative severity of legume viruses in peas measured by	r
LEAF SPOT (DRACAENA) Leaf blight of Dracaena incited by Phyllosticta draconi	⁹ . 2390	plant growth reduction. Diseases of forage grasses and legumes previously unrep	2427
LEAF SPOT (ELETTARIA CARDAMOMUM) A new leaf spot of cardamon from India.	2693	from New Hampshire. Viruses of leguminous forage crops in Rhode 1siand.	2591 2691
LEAF SPOT (GRAM) A Stemphyllum leaf spot disease of gram.	2382	LEMON BUD UNION Lemon bud union overgrowth disorder and its relation to	
LEAF SPOT (HAWTHORN)	2913	rootstock and tree age.	2595
Cycloheximide for hawthorn leaf spot. LEAF SPOT (MAIZE)		Limitations of the hot water Immersion treatment for th control of Phytophthora brown rot of lemons.	2600
Stimulation and depression of cell-free carboxylating s tems in relation to development of the Helminthosporium leaf spot disease of maize.		Penicillium development in lemons treated with 2,6-dich ro-4-nitroanlline.	10- 3088
LEAF SPOT (PEANUTS) The effect of temperature, relative humidity and precip tation on peanut leafspot.	2554	Use of foam washers for treating poststorage lemons wit dium orthophenylphenate.	h 30- 3268
LEAF SPOT (PIERIS JAPONICA) Alternaria leaf spot of Pieris japonica.	2503	LENTILS Fungl isolated from diseased lentii seediings in 1963-6	2937
LEAF SPOT (PITTOSPORUM) Alternaria leafspot of Pittosporum.	2843	LEPTINGTARSA DECEMLINEATA Respiratory chain metabolism in the Colorado potato beetles-1. Respiration and oxidative phosphorylation in	
LEAF SPOT (POA PRATENSIS) Varietal reaction of Kentucky bluegrass to Septoria iea spot (Septoria macropoda).	2449	sarcosmes from active beetles. LEPTOSPHAERIA HERPOTRICHOIDES	2204
LEAF SPOT (STRAWBERRY) Taxonomy of the bacterium causing angular leaf spot on		Leptosphaeria herpotrichoides on rye in Clark County, Washington.	2847
strawberry.	2586	LEPTOSPHAERULINA Light and light quality as factors in the growth and de	vei-
LEAF SPOT (TUMG) Cercospora leaf spot of tung in mississippi.	2289	opment of two species of Leptosphaerulina pathogenic on white clover.	2249
LEAF SPOT (WHEAT) Local epidemic outbreaks of fungus leaf spots on gaine wheat in 1964.	2531	LETTUCE Studies on the transmission of the virus causing big ve lettuce.	in of 2338
LEAF VARIEGATION Studies on Petri s variegation of sour orange leaves.	2645	Soil and foliar treatments for the control of Sclerotim of lettuce.	109e 2381
LEAFSPOT Cercospora leafspot of Clerodendron.	2248	Infectivity differences between Dipidium from roots of spinach and lettuce.	2773
LEAVES Detection of psorosis virus infection in leaves of sour		Relation of microclimates to the developement of powder mildew of lettuce.	9 2806
orange by the lodine test. Quantitative determination of the free amino acids and	2409	LETTUCE DROP Soll and follar treatments for the control of Scierotin of lettuce.	iose 2381
quantitative determination of the free amino acids and amides in roots and leaves of healthy and exocortis-inf Citrus sinensis Osbeck on Poncirus trifollata Raf.	ected 2412	DI lettuce. LIFE CYCLE The fate of the blood celis during the life history of	2001
Rice diseases in the Delta Area of Mississippi in 1959.	2561	Sialis iutaria L.	2194
Hypersensitive reaction induced by phytopathogenic bact in the tobacco leaf.	eria 2597	A generalized life cycle of pathogens of trees. LIGHT Potential changes in the eye and optic lobe of certain	2414
Some physiclogical properties of leaves and bark of pso -infected Valencia orange trees.	2680	Insects during light- and dark-adaptation.	2067
Leaf symptoms of soybean anthracnose.	2684	The effect of photoperiod, light intensity, and tempera on copulation, oviposition, and fertility of the Mexica fruit fly.	
Structure of rice leaves in relation to varietal suscep bility to rice blast, Piricularia oryzae.	2699	Light and light quality as factors in the growth and de opment of two species of Leptosphaerulina pathogenic on	
Oak leaf age and susceptibility to Cronartium fusiforme	2842	white clover. Influence of various nitrogen and light sources on some	2249
Physico-chemical studies on agricultural aprays. IV. Th retention of spray liquids on leaf surfaces.	e 3218	initiance of various nitrogen and light sources on some cultural characters of Fusarium oxysporum f. lycopersic	

PAGE 107

Inoculum supply as a varia smut of barley and wheat.

	LIGHT TRAPS		
	An inexpensive actinometer for continuous field recordin mooniight, daylight, or low-intensity evening light.	g of 3256	embryos.
	LIGHT TRAPS Evaluation of some factors affecting the efficency of 11	ght	Inheritance and lin tances and starch t
	traps in collecting mosquitoes.	3254	LOOSE SMUT (WHEAT) Inoculum supply as smut of barley and
	Evaluation of two soil fumigants in Easter lily buib pro duction.	3099	Failure of loose sm to abundant inoculu
	LIMA BEANS Distribution of B strain downy mildew of lima bean in 19	64. 2922	LOPHODERMIUM Histological and co cast disease of eas
	LINDANE Effect of lindane on the intracelluiar microorganisms of American cockroach, Periplaneta americana.	the 2114	LOUISIANA Macroslphum rosae, sypli as vectors of
	Effect of lindanc on intestinal mlcroorganisms of the Am lcan cockroach, Peripianeta americana.	er- 2115	Effect of mottle vi yield of two Louisl
	Problems resulting from the misuse of lindane for chigge control on turkey ranges as related to residue edible tissues.	r 3113	Phragmldium rose ru slty gardens.
	LIPIDS Nutrition of the adult boll weevil: ilpld requirements.	2217	Studles on the dise Louisiana.
	LIQUEFIED GASES A long term experiment for preservation of uredlospores	of	Pellicularia filame ton stems in Louisi
	Pucchla graminis tritici in liquid nitrogen.	3233	Relation of insects Louisiana.
	Isolations from mycorrhizal roots of sweetgum.	2418	Control of first ge Louislana.
	Decay 10 years after thinning of sweetgum sprout clumps.	2880	LOXAGROTIS ALBICOSTA Evaluation of popul
	LIRIODENDRON TULIPIFERA A root and stem rot of yellow-poplar caused by Cylindroc dium scoparium.	1a- 2581	cutworm in field be LOXOSTEGE STICTICALIS Chemical control of
	Canker of tullp poplar caused by Fusarium solanl.	262B	southern Alberta.
	LIVER SPOT (PECAN) Liver spot disease of pecan extends its range into Georg	1a. 2359	LUPINUS LUTEUS L. A phomopsis stem bl L.).
I	LIVESTOCK Fluorosis in livestock.	3174	LUPINE A second independen tance to Stemphyliu
1	LIVESTOCK DISEASES Large animal toxicological problems.	3160	Cucumber mosalc vlr
1	LOCOMOTION Locomotor activity of the hairy spider beetle at the sur of stored wheat.	face 203B	A congenital deform feeding luplne and
	The control of spontaneous locomotor activity in Phormia regina Meigen-I. Locomotor activity patterns of intact		LUPINUS ANGUSTIFOLIUS A second independen tance to Stemphyllu
	flles.	2105	LUPINUS SERICEUS
1	LOLIUM Southern blight of annual ryegrass and winter oat.	2560	A congenital deform feeding lupine and
	LOLIUM MULTIFLORUM Southern blight of annual ryegrass and winter oats.	2559	MACROPHOMA TUMEFACIEN Additional hosts of (>Macrophoma Tumefa
1	LONGEVITY Effects of food, temperature and oviposition site on longevity and fecundity of the army cutworm.	2179	MACROPHOMINA Three uncommon wate
	Differences in reproductive potential, feeding rate, and longevity of boll weevils mated in the fall and in the f and spring.		MACROSIPHUM AVENAE The effect of barle lts vector the Engl
I	LOOSE KERNEL SMUT (SORGHUM) Effect of loose kernel smut on vegetatlve growth of John grass and sorghum.	son 2640	MACROSIPHUM EUPHORBIA Control of potato a
	LOOSE SMUT (BARLEY) A barley loose smut epidemic in Minnesota in 1959.	2416	MACROSTELES FASCIFRON Origin of populatio steles fascifrons,
	Inoculum supply as a variable in the epiphytology of loo smut of barley and wheat.	se 2417	MAGNOLIA SOULANGEANA Verticillium wilt o
	Modification and adaptation of Popp s technique to routi detection of Ustilago nuda (Jens) Rostr. in barley	ne	
	DACE 108		

LOPHODERMIUM Histological and control studies of the Lophodermium needle cast disease of eastern white pine. 236 236B OUISIANA Macroslphum rosae, Acyrthoslphon porosum, and Aphis gos-sypli as vectors of strawberry viruses in Louisiana. 2342 Effect of mottle virus on the runner production and fruit yield of two Louislana strawberry seedlings. 2343 Phragmidium rose rust epidemic in Louisiana State Univer-2425 Studles on the disease cycle of red rot of sugarcane in 2426 Louislana. Pellicularia filamentosa a common saprophyte on mature cotton stems in Louislana. Relation of insects to internal cork of sweet potato in Louisiana. 2990 Control of first generation sugarcane borer populations in Louisiana. 3141 LOXAGROTIS ALBICOSTA Evaluation of populations and control of the western bean cutworm in field beans in nebraska. 2974 LOXOSTEGE STICTICALIS Chemical control of the beet webworm on sugar beets in southern Alberta. 2986 LUPINUS LUTEUS L. A phomopsis stem blight of yellow lupine (Lupinus luteus L.). 2728 LUPINE A second independent gene in blue lupine conditioning resis-tance to Stemphylium solani. 2424 Cucumber mosalc virus is seedborne in blue lupines. 2920 A congenital deformity experimentally produced in calves by feeding lumine and lead. 3123 LUPINUS ANGUSTIFOLIUS A second independent gene in blue lupine conditioning rcsls-tance to Stemphyllum solanl. 2424 2424 LUPINUS SERICEUS A congenital deformity experimentally produced in calves by feeding lupine and lead. 312 3123 MACROPHONA TUMEFACIENS SHEAR) Additional hosts of Diplodia tumefaciens (Shear) Zalasky (>Macrophoma Tumefaciens Shear), 2950 MACROPHOMINA Three uncommon watermelon frult rots in Florida. 2802 MACROSIPHUM AVENAE The effect of barley yellow dwarf virus on the biology of Its vector the English grain aphid, Macrosiphum granarium. 2160 MACROSIPHUM EUPHORBIAE Control of potato aphids with systemic insecticides. 2991 MACROSTELES FASCIFRONS Origin of populations of the six-spotted leafhopper, Macro-steles fascifrons, in Anoka County, Minnesota. 20: 2019

Inheritance and linkage of stem rust and loose smut resis tances and starch type in barley. 2

Failure of loose smut to bulld up in winter wheats exposed to abundant inoculum naturally disseminated. 28

as a variable in the epiphytology of loose and wheat. 2417

PAGE 108

Verticillium wilt of saucer magnolia, Magnolla soulangeana. 2810

2578 2815

2897

31

22

29

2

22

MELOIDOGYNE JAVANICA

MAINE

The effect of some fungicides on European red mite populations in Maine.

MALAYA

Overgrowth in Malayan crop plants following infection by Fusarium solani and F. decemceilularc. 24

MALPIGHIAN TUBES

Histoiogy of the Malpighian tubuies in rhodnius proiixus Stai (Hemiptera).

MALUS SPP.

Fliamentous viruses infecting fruit trees and raspberry ar their possible mode of spread.

MALVASIO TANGERINE

A virus-like disorder of Malvaslo tangerine on rough iemoi rootstock.

MANDUCA QUINQUEMACULATA

Effect of certain cultural practices on the abundance of tobacco hornworms, tobacco budworms, and corn earworms on tobacco after harvest.

MANEB

Control of leaf moid in a heavily infected tomato crop with a polybutene emulsion.

MANGOES

Fungleidal control of mango anthracnose.

gali disease of cacao and mango in Venezuela caused by Caionectria rigidiuscuia.

A new disease of Manglfera indica in India, caused by Alternaria tenuissima. 26

Evaluation of ethylene chiorobromide as a fumigant for citrus and mangoes infested by the Mexican Fruit Fiy.

MANURES

Effect of Macrochelidae (Acarina: Mesostigmata) on house fly production from dalry cattle manure.

Toxicological studies on dichlorvos feed-additive formu-lations to control house files and face files in cattle 30 feces.

MAPS

Weather map analysis - an aid in forecasting potato iate biight. 29

MARASMIUS OREADES

Damage to turfgrasses caused by cyanogenic compounds pro-duced by Marasmius oreades, a fairy ring fungus. 2

MATING

Differences in reproductive potential, feeding rate, and iongevity of boli weevils mated in the fail and in the fal and spring.

Mating types in Phytophthora cinnamomi.

MATTESIA DISPORA NAVILLE

Detection by ultravlolet light of stored-product insects is fected with Mattesia dispora. 30

MAYLASIA

Virus nature of penyakit merah disease of rice in Maylay sia.

MAZZARD CHERRIES short stem virosis of sweet cherries.

2: A spur type growth of Bing cherry caused by virus.

The frequency of necrotic ring spot, sour cherry yellows, and green ring mottle viruses in naturally infected sweet and sour cherry orchard trees.

Gummosis and leaf spotting of sweet cherry, symptons associated with bacterial infection.

2,6-dichioro-4-nltroaniiine effective against Rhizopus fruit rot of sweet cherries. 23

124	MCPA The [mmedlate and long-term effects of the herbicide MCP on soll arthropods.	A 3131
y 475	MEASUREMENT A light sensitive apparatus for the rapid measurement of experimental feeding by insects.	3290
229	MEASURING EQUIPMENT A light sensitive apparatus for the rapid measurement of experimental feeding by insects.	3290
n d 332	MEDICAGO SATIVA L. A method for screening alfalfa piants for resistance to Pseudopeziza medicaginis.	2439
n 757	MELILOTUS ITALICA Reference to Meiiiotus Italica, a new host for Uromyces striatus .	2363
	Melllotus Itailca, a new host for Uromyces striatus.	2623
030	MELOIDOGYNE Response of Nicotlana repanda, N. sylvestris, and their Amphidipioid hybrid to root-knot nematodes.	3015
th 321	Responses of tobacco breeding lines to three species of root-knot nematodes in greenhouse tests.	3034
272	Parasitic nematodes on Dioscorea in Guatemaia.	3064
645	Susceptibility of jute stralns to four root-knot nematod (Meloldogyne spp.) In Eastern NIgerla.	es 3073
692	MELDIDOGYNE ARENARIA Chemicai controi of Meioidogyne arenaria on Spanish pea- nuts in Texas.	3078
960	MELDIDOGYNE HAPLA Comparative effectiveness of various nematocides in the troi of root knot in muck soil.	con- 3104
	MELOIDOGYNE INCOGNITA	
051	Correlation between Fusarium wilt indices of cotton vari ties with root-knot and with sting nematodes as predispo ing agents.	e- s- 2366
083	Control of root-knot nematodes with organophosphate inse cides.	cti- 3040
911	An attempt to controi root-knot nematode with Dactyiaria thaumasia and Arthrobotrys arthrobotryoldes.	3044
	Interaction of Heterodera glycines and Meioldogyne incog nita on soybeans.	3059
419	Root-knot nematode on Dioscorea in Guatemaia.	3063
	Sweetpotato production on soll treated with soll fumigan	ts. 3072
11 208	MELOIDOGYNE INCOGNITA ACRITA	
444	Evaluation of two systemic insecticides applied as seed treatment for the control of Meioldogyne incognita acrit attacking cotton.	a 2716
in- 092	Studles of the host range of Meioldogyne Incognita acrit	a. 3019
y- 729	Evaluation of DBCP formulations and application depths f root-knot nematode controi and phytotoxicity to tomatoes	or 3031
260	Interactions of EDB, CDEC, and irrigation on controi of Meloidogyne incognita acrita.	3032
309	Response of root-knot-resistant tobaccos to the nematode root disease complex caused by Pratylenchus spp. and Me- loidogyne incognita acrita.	
457	Response of selected tobacco varietles to Meloidogyne javanica and M. Incognita acrita in field pathogenicity	
ci- 673	trlais.	3036
	Root-knot nematode on kenaf in Guatemaia.	3062
724	MELOIDOGYNE JAVANICA Response of selected tobacco varietles to Meioidogyne javanica and M. Incompita acrita in field pathogenicity	

Response of selected tobacco varieties to nervices. Javanica and H. Incognita acrita in field pathogenicity 3036

MELOIDOGYNE SPP.

Physiological studies on host-parasite relationship of the 3057 root-knot nematode, Meioidogyne javanica. Arrowweed, Piuchea sericea, on the Coiorado River is a host for root-knot nematodes. 3070 Motiiity and infectivity of Meioidogyne javanica as affect-ed by storage time and temperature in water. 307 3071 MELDIDOGYNE 5PP. Thermotherapy for root-knot nematodes, Meloidogyne spp., of sweetpotato and tarragon propagating stocks. 2870 MELTING OUT (POA) ematodes associated with meiting-out of turfgrass. 2245 MENTHA SPP. Pathogenicity and population dynamics of Paratylenchua 3025 hamatus on Montha spp. META80LISM Absorption, excretion, and metabolism of P32-labeled meteps by screw-worm and stable files. 207 2072 Stimulation and depression of cell-free carboxylating systems in relation to development of the Helminthosporium leaf spot disease of maize. 2647 Absorption and metaboliam of dimethoate in the boliworm and boll weevil. 3129 Nitrate metaboliam in the ruminant. 3145 META80LITES Partial characterization of the in vivo metabolites of DDT-Cl4 in Triatoma infestana. 2043 Metabolism of organic acids during rot of grape berries by 2857 Dipiodia viticola. METAMORPHO515 Physiclogy of aawfly metamorphosis. - I. Continuous re-spiration in diapausing prepupae and pupae. 2197 Haemocytea and the metamorphosing tissuea in Sarcophaga buliata, Drosophila meianogaster, and other cyclorrhaphous. Diptera. 2227 METEPA Effect of pH on steriilzing activity of tepa and metepa in 2063 maie house files. Absorption, excretion, and metabolism of P32-labeled metepa by acrew-worm and stable flies. 207 2072 Effect of teps and meteps on ovarian development of house flies. 2165 METHYL BROMIDE formination of grain aorghum and audan grass seeda after fumigation with methyi bromide and hydrocyanic acid. 3244 MEXICO The Toluca Vaiky, an outstanding area for teating fungi-cidea on potatoes under natural conditions against late blight (Phytophthora infeatana). 2 2347 Claviceps gigantea, a new pathogen of maize in Mexico. 2440 The relationship of severe bean mosaic virus from Mexico to southern bean mosaic virus. 2479 Sporulation and compatibility types of Phytophthora palmivora isolated from cocoa in Mexico. 2784 Negative report on the existence of the golden nematode (Heterodera rostochiensis Woll) in Mexico. 3076 MICHIGAN

Willow blight in Michigan. 2502

Dieback of managed, oid-growth northern hardwoods in upper Michigan, 1954-1964 -- A case history. 2583 Fomes annosus in southwestern Michigan. 2858

PAGE 110

HICROCLIMATE Relation of microclimates to the development of powdery miidew of iettuce. 2806
MICROFORGE An electrical aid to pure culture isolation. 3291
MICROMANIPULATORS An electrical aid to pure culture isolation. 3291
MICROORGANISM5 Effect of iindame on the intraceiiular microorganisms of the American cockroach, Periplameta americana. 2114
Effect of lindane on intestinal microorganiams of the Amer- ican cockroach, Periplaneta americana. 2115
Myrothecium roridum Tode as a cotton pathogen. 2357
The pathogenesis of Sotrytis cinera, 8. squamosa, and 8. ailii on onion leaves. 2496
Nonspecific acquired resistance to pathogens resulting from localized infections by Thielaviopsis basicola or viruses in tobacco leaves. 2506
Development of nearly isogenic rust-resistant lines of corn. 2534
Studies on the prevalence and comparative pathogenicity of fungi associated with corn staik rot. 2745
Pathogenicity test with different isolates of Ceratocystis fimbriata. 3191
Factors affecting the pathogenicity of Pellicularia filamentosa. 3192
The use of a petroieum hydro-carbon torch in the aseptic transfer of microorganisma and in routine iaboratory glass blowing. 3273
MICROSTOMA JUGLANDIS New hosts for broom-causing fungi in the Southwest. 2626
MICROTECHNIQUE Plate-profile technique for isolating and studying activi- ties of some soil microorganisms. 3188
MILDEW (APPLES) Controlling mildew on apples at Wenatchee, Washington in 1960. 2845
MILDEW (PLANT5) Characteristics of rose powdery mildew fungi in Wisconsin. 2373
MILK Abacence of residues in milk after barns were sprayed with dimethoate. 3105
Seven residues in milk from dairy cows following dermain applications.
MILO Pratylenchus zeae found on corn, milo, and three suspected
new hosts in California. 3009 MINDARUS ABIETINU5
A new distribution record for the baisam twig aphid. 1992
MINESOTA Comparing various methods of predicting development of apruce budworm, Choristoneura fumiferana, in northern Minnesota.
Origin of populations of the six-spotted leafhopper, Macro- steles fascifrons, in Anoka County, Minnesota. 2019
A severe epidemic of Hciminthosporium brown spot disease on cultivated wild rice in northern Hinnesota. 2296
Pythium pre-cmergence damping-off of soybean in minnesota. 2327

Phytophthora root rot of soybean in Minnesota. 2328

SUBJECT INDEX

		HUSAIC (500	n
MISSISSIPI VALLEY Intra- and inter-regional movement of uredospores of bi stcm rust in the upper Mississippi Vailey.	ack 2280	Enation symptoms in tobacco induced by aifaifa mosaic virus 242:	
MISSISSIPPI Rust on sunflowers in the Mississippi Delta.	2375	Aifalfa mosaic virus in white clover and potatoes. 249	0
Phytophthora root and crown rot of alfaifa in the Ya-		Identity of viruses from safflower affected with necrosis. 259:	9
zoo-Mississippi Delta. Downy mildew on small grains and two other grasses in	2562	Viruses of leguminous forage crops in Rhode Island. 269	1
mississippi, 1961.	2789	MOSAIC (ANEMONE) Certain biological properties of a virus from Ranunculus	
Horn fly control studies in Misslssippi, 1961.	3081	aslaticus. 261	4
MISSOURI Investigations of the face fly in Missouri.	1996	MOSAIC (BEANS) The relationship of severe bean mosaic virus from Mexico to southern bean mosaic virus and its related strain in cowpea	
Symptoms and distribution of corn stunt disease in Miss in 1964.	ouri 2335	247	7
The importance of root grafts in oak wilt spread in mis souri.	2570	The relationship of severe bean mosaic virus from Mexico to southern bean mosaic virus. 247	
MIST BLOWERS Mistblower spray tests for control of the birch leaf mi	ner. 3129	MOSAIC (BEETS) Partial or complete restriction of two mosaic viruses to par renchyma tissue. 230	
MITES Three new Trichosurolaelaps (Acarina:Laelaptidae)		MOSAIC (CANTALOUPES) The relationship of mosaic virus disease to crown blight of cantaloup. 270	
with a key to the species. The haemocytes of the acarid mite Caioglyphus beriesel (Mich. 1903).	2020	MOSAIC (CAULIFLOWER) Detection of cauliflower mosaic virus by immune adherence. 270:	3
Control of certain insects and mites on cotton with thr systemic organophosphorus compounds.		MOSAIC (COWPERS) The relationship of severe bean mosaic virus from Mexico to	
A new toxlcological test method for haematophagus mites foulk, j d.	° 3151	southern bean mosaic virus and its related strain in cowpea 247	7
A laboratory device for observing insects and mites inv in heating of stored grain.	olved 3263	Properties of a mosaic virus of cowpea and its relationship to the bean pod mottle virus. 282 MOSAIC (CUCUMBERS)	
MOLDS Effect of fruit shape on the occurrence of internal mol cannery pimlentos.	d in 2389	Partial or complete restriction of two mosaic viruses to pa- renchyma tissue. 230	
MOLTING (INSECTS)		Serological relationship of cucumber mosaic virus and cer tain virus isolates that inclte Amaryllis mosaic symptoms.	
Moulting and reproduction in the adult firebrat, Thermo domestica (Packard) (Thysanura, Lepismatidae)-I. The moulting cycle and its control.	bia 2224	257 A survey of cucurbit viruses in the Lower Rio Grande	4
Moulting and reproduction in the adult firebrat, Thermo	bia	Valley of Texas: preliminary report. 2660	
domestica (Packard) (Thysanura, LepismatidaeII. The reproductive cycles.	2225	Natural hosts of cucumber mosaic virus in israel. 271' MOSAIC (LETTUCE)	7
MONTANA Decurrence of late blight disease of potatoes in Montan	a. 2261	Identity of viruses from safflower affected with necrosis. 259:	9
Wheat striate mosaic observed In Montana.	2494	MOSAIC (DATS) Properties and transmission of soil-borne oat mosaic virus. 287	
MONTEREY PINE TIP MOTH Seasonal activity and control of the Monterey pine tip moth.	2016	Transmission of soll-borne oat mosaic virus increased by artist s airbrush inoculation. 287:	
MOONG		MOSAIC (PEAS)	
The effect of vector control on yellow mosaic incidence moong (mung bean) in India.	on 2652	Translocation and titer increase studies of three pea virus isolates. 276	
MORIA (PEARS) The probable coidentity of the moria disease of pear tr in Italy and pear decline in North America.	ees 2814	MOSAIC (POTATOES) Control of potato mosaic diseases by exclusion. 248	4
MOROCCO	0744	MOSAIC (RANUNCULUS) Certain blological properties of a virus from Ranunculus	
Research on stubborn disease in Morocco.	2344	asiaticus. 261	4
MORPHOLOGY Developmental morphology of HypoxyIon pruinatum in bark quaking aspen.	of 2782	MOSAIC (RASPBERRIES) Occurrence of viruses causing raspberry mosaic in some com- mercial stocks of red raspberry in eastern United States. 236:	
MORTALITY Oviposition and egg dispersion of the apple aphld with servations on related mortality factors.	ob- 2226	MOSAIC (SQUASH) A study of squash mosaic virus disease. 226.	
MOSAIC (ALFALFA)	2220	Some epiphytotic aspects of squash mosalc. 220.	
Reactions of plant introduction lines of Pisum sativum alfalfa mosaic, clover yellow mosaic, and pea streak vl		A survey of cucurbit viruses in the Lower Rio Grande	
es, and to powdery mlldew.	2428	Valley of Texas: preliminary report. 266	0

apholate and tepa.

MOSAIC (SUGAR BEETS) MOSAIC (SUGAR BEETS) Effect of strains of the beet mosalc virus on the yield of sugarbeets. 2821 MOSAIC (SUGARCANE) Corn naturally infected by sugarcane rosaic virus in Cali-2433 fornia. Seed transmission of the Johnson grass strain of the sugarcane mosaic virus in corn. 2819 Long term storage of the sugarcane mosaic virus. 2875 Vector-virus relationship of sugarcane mosaic virus. III. Transmission of sugarcane mosaic virus by the rusty plum aphid (Hysteroneura setarlae Thos.). 2953 MOSAIC (TOBACCO) Tobacco mosale virus in Nicotlana glauca. 2290 Sliver nitrate increases infection by tobacco mosaic virus. 2453 Comparative incldence of graywali and internal browning of tomato and sources of resistance. 26 2694 A necrotic pod streak of pepper caused by tobacco mosaic 2695 virus. Conditions favorable for adsorption and elution of tobacco mosaic virus in an Ecteola-celluiose column. 2765 Effect of some plant growth-retarding compounds on three fungal diseases and one virai disease. 2863 Systemic acquired resistance against tobacco mosaic virus resulting from localized infections by Thielaviopsis basicola in tobacco leaves. 3201 MOSAIC (WATERMELONS) A survey of cucurbit viruses in the Lower Rio Grande Valley of Texas: preliminary report. 2660 Vector-virus relationships of watermelon mosaic virus and the green peach aphid, myzus persicae. 2875 Watermelon mosaic viruses 1 and 2 in southern and western cucurblt production areas. 2918 MOSAIC (WHITE CLOVER) Viruses of leguminous forage crops in Rhode Island. 2691 MOTHS Aspects of the noctuid tympanic nerve response having signi-ficance in the avoidance of bats. 2189 2189 Electrophysiological investigation on the olfactory specificity of sexual attracting substances in different species of moths. 2193 MOTTLE (BEAN PODS) Transmission of bean pod mottle virus by bean leaf beetles 2912 MOTTLE (CARNATIONS) Chromatographic purification of the carnation ringspot, car-nation mottle, and tobacco necrosis viruses. 2903 2903 MOTTLE (STRAWSERRIES) Differential transmission of nineteen variations of straw-berry mottle virus by Aphis gossypii Glover. 24 2432 Rapid spread of mottle and mild yellow-edge viruses into 2672 hybrid strawberry selections. MOTTLE (STRAWSERRY) Effect of mottle virus on the runner production and fruit yield of two Louisiana strawberry seedlings. 2343 NUCK SOILS Comparative effectiveness of various nematocides in the control of root knot in muck soli. 3104 MURGANTIA HISTRIONICA Biology of the harlequin bug, Murgantia histrionica. 2199 MUSCA AUTUMNALIS 1995 Investigations of the face fly in Missouri. Sterilization of the face fly, Musca autumnalis, with

112

PAGE

Control of the face fly on cattle with co-ral in grain and on pasture. 3082 Toxicological studies on dichiorvos feed-additive formulations to control house flies and face flies in cattle feces. 3083 Tests of ciodrin and other materials against face fly, musca autumnalis. 3138 Evaluation of some chemicals as feed additives to control 3176 face fly larvae. Residual and topical toxicity of certain insecticides to 3178 laboratory-reared face flies. MUSCA DOMESTICA A study of housefly esterases by means of a sensitive colorimetric method. 2042 fect of Macrochelldae (Acarina: Mcsostigmata) on house fly production from dalry cattle manure. 2051 Effect of pH on sterilizing activity of tepa and metcpa in male house files. 2063 Studies on feeding behavior of house flies. 2083 Partial purification and properties of flyhead cholinesterase. 2085 Prolonged resistance in the house fly and bed bug. 2153 Effect of tepa and metepa on ovarian development of house 2165 flles. A mechanism of resistance to Isolan in the house fly. 2177 Radiosterilation vs. chemosterilization in house flies and 2192 mosquitoes. Selection of a fluoroacetate resistant strain of house flies and investigation of its resistance pattern. Adult house fly control with residual treatments of six 3147 organophosphorus compounds. Latent toxicity of insecticides to resistant and susceptible strains of the house fly. 3172 MUSCLES Programmed cell death- I. Endocrine potentiation of the breakdown of the intersegmental nuscles of silkmoths. 2149 MUSK NET ONS. Genetics of resistance to powdery mildew race 2 in muskmei on. 2316 HUTATION Production of a red plgment by a mutant of HelmInthosporie halodes. 3195 HYCELLIUM Nuclei in spores and mycelium of verticillium. 2788 MYCORRHIZA Isolations from mycorrhizal roots of sweetgum. 2418 HYCOSPHAERELLA MELONIS The development of Mycosphaerelia black rot and Pellicu laria rolfsii rot of watermelons at various temperatures. 2637 MYROTHECIUM Myrothecium rind rot of cantaloup. 2661 MYROTHECIUM RORIDUM TODE Myrothecium roridum Tode as a cotton pathogen. 2357 MYZUS PERSICAE Vector-virus relationships of watermelon mosaic virus and 2875 the green peach aphid, myzus persicae.

Migrant green peach aphids and the spread of yellows viruses in seed bect fields of Arizona. 2969

2111

	Insecticides for the control of the green pcach aphid on shade-grown tobacco.	8995	IEMA Dec da
NZ	NHES OF WHITE PINES Definitive patterns of white pine needie blight.	2337 N	IEMA:
N/	ATURAL CONTROL (INSECTS) Natural control factors associated with the jack-Pine		E f : cor
	budworm, Choristoneura pinus.		EMA Co
	The natural enemies of some banana insect pests in Costa Rica.	2009	ner IEHA
NE	BRASKA Fomes annosus found in Nebraska.	2853	Lor 1,i
	Oak wilt in Nebraska.	2943 N	IEMA'
	Evaluation of populations and control of the western bea cutworm in field beans in nebraska.	n 2974	roe
NE	CROSIS Internal breakdown in crown of red clover.	N 2466	IEMA Per
	Identity of viruses from saffiower affected with necrosi	S •	bei
		2599	Ob: de:
ME	An apparently new root necrosis disease of rhubarb. CROSIS (TOBACCO)	2696	Bio
		car- 2903 N	ENA:
	A mobile assay of tobacco necrosis virus.	2945	Bel ou:
	Prolonging the motility and virus-transmitting abliity o Dipidium zoospores with chemicals.	f 3245	Pa har
	CROTIC POD STREAK (PEPPER)		Pop
	A necrotic pod streak of pepper caused by tobacco mosaic virus.		IEMA1 Ner
NE	CROTIC RING SPOT (PEACHES) Influence of necrotic ringspot virus on growth and yield	of	rus
NE	peach trees. CROTIC RINGSPOT VIRUS	2747	Net
ME	Cherry rosette: Its nonidentity with Pfeffingerkrankheit and its possible affinity with Stecklinburger disease.		Con tie
		2455	ing
NE	CTRIA Organism interactions in the beach bark disease.	2822	Nor
NE	CTRIA GALLIGENA Pathogenesis in cankers caused by Nectria galligena.	2631	Th: swe
	EDLE CAST (PINUS) Histoiogical and controi studies of the Lophodermium nee	dia	Sor
	cast disease of eastern white pine.	2369	nei
NE	EDLE MINERS Notes on Epinotia nanana Treitschke (Lepidoptera:		Ter a r
	Diethereutidae), and keys to the immature stages of four needle miners of spruce in Ontario.	2149	Sus
NE	MATOCIDES Improving growth of fruit trees by treatment with nemato cides and fungicides at time of planting.	2243	Efi
	The effect of pesticides on turfgrass disease incidence.	2641	Sug
	Performance of certain nematocides and nematocide-fertii		Fei
	mixtures applied to vegetable crops in North Caroilna.	3003	Res
	New combinations of nematocides for control of reniform nematode of cotton.	3012	10
	Nematocidai seed treatment for control of Heterodera giy	_	The po
	cines in soybeans. Greenhouse studies on the control of root-knot nematodes	3023 on	Cor
	Hydrocotyle sibthorplodes.	305B	Ci
	Comparative effectiveness of various nematocides in the troi of root knot in muck soil.	con- 3104	0cc dae

NEMAT	100
NEMATODA Occurrence of Dityienchus radicleola (Nematoda: Tyienchi- dae) in the u.s. and on a new host. 306	57
NEMATODE CONTROL Effect of cranberry bog flooding and low dissolved oxygen concentrations on nematode populations. 301	4
NEMATODE EXTRACTION Comparative efficiencies of three methods for extracting nematodes from root and soli samples. 327	76
NEMATODE INHIBITION Long-term inhibition of Rhizoctonia solani by a nematocide, 1,2-dibromo-3-chioropropane. 300	
NEMATODE MIGRATION Movement of Tylenchulus semi-penetrans into Rough lemon roots and in soli and its relation to Fusarium in the roots. 302	2.B
NEMATODE MORPHOLOGY Penetration and development of Heterodera glycines in soy- bean roots and related anatomical changes. 241	10
Observations on the developmental stages of Hemicriconemoi- des chitwoodi. 302	
Biological activity of the golden nematode hatching factor. influence on Aspergillus awamori metabolism. 321	
NEMATODE POPULATION Behavior of populations of Heterodera glycines under vari- ous cropping sequences in field bins. 302	22
Pathogenicity and population dynamics of Paratylenchus hamatus on Mentha spp. 302	25
Population dynamics of nematodes in cranberry soils. 307	7
NEMATODES Nematodes associated with citrus trees infected by four vi- ruses and comments about nematode distribution in Fiorida. citrus groves. 223	
Nematodes associated with melting-out of turfgrass. 224	5
Correlation between Fusarium wilt indices of cotton varie- ties with root-knot and with sting nematodes as predispos- ing agents. 236	56
Non-transmission of certain strawberry viruses by nematodes 266	
Thermotherapy for root-knot nematodes, Meloidogyne spp+, of sweetpotato and tarragon propagating stocks. 287	
Some soli factors influencing reproduction of the citrus nematode and growth reduction of sweet orange seedlings. 290	01
Temperature and the quantitative recovery of nematodes with a modified Baermann funnel. 300))5
Susceptibility of some species and varieties of Citrus and some other rutaceous plants to the citrus nematode. 301	10
Effect of cranberry bog flooding and low dissolved oxygen concentrations on nematode populations. 301	14
Sugar-induced osmotic dehydration of nematodes enhanced by the addition of detergents. 302	26
Fertilizers can transmit plant nematodes. 303	33
Response of root-knot-resistant tobaccos to the nematode root disease complex caused by Pratylenchus spp. and Me- loidogyne incognita acrita. 303	35
The reniform nematode may be a serious pest of the sweet- potato. 304	15

ntrol of root-knot nematode and aphid on tobacco. 3050 trus-root nematode in Iraq in 1965. 3051

currence of Ditylenchus radicicoia (Nematoda: Tylenchi-ie) in the u.s. and on a new host. 3067

Incubation of soli and root samples in polyethyiene plastic

PAGE 113

ES

SUBJECT INDEX

NEMEX	
for improved recovery nematodes.	3069
Susceptiblilty of jute strains lo four root-knot nemato (Meloidogyne spp.) in Eastern Nigeria.	des 3073
Host-parasite studies on reniform nematode on cotton.	3198
Two new nematode subsampling tools.	3264
Comparative efficiencies of three methods for extractin nematodes from root and soil samples.	g 3276
The separation of nematodes from soil by a modified 8ae mann funnel technique.	3294
NEMEX Control of Fusarium yellows of celery by means of soli igation.	fum- 2289
NEGTEININE Possible influence of neotenine and ecdyson on the sign phototaxis in the eyed hawk catepillar (Smerithus ocell L.).	
NERVES Regenerative growth in insect nerve axons.	2109
Observation on the gross innervation of the firefly iig organ.	ht 2113
NERVOUS SYSTEM Temperature and the action of DDT on the nervous system Periplaneta americana (L.).	of 2094
Aspects of the noctuld tympanic nerve response having s ficance in the avoidance of bats.	lgn 1- 2188
NEW BRUNSWICK Aphids and the epidemiology of barley yellow dwarf viru New Brunswick.	s in 2725
NEW HAMPSHIRE Testing crucifers for resistance to clubroot in New Ham shire.	2346
Diseases of forage grasses and legumes previously unrep from New Hampshire.	2591
NEW JERSEY The effect of variants of Diaporthe phaseolorum on soyb germination and growth in New Jersey.	ean 1 2745
NEW MEXICO Cultural type of Verticillium albo-atrum in New Mexico.	2839
NEW YORK A fail flight period of the alfalfa weevil in New York.	2029
Factors affecting control of onion bloat by fumigants c taining 1,3-dichioropropene in organic solls in souther New York.	
Possible shift in predominating strains of barley yello dwarf virus in New York.	2778
Control of the clover root borer in New York.	2975
NICOTIANA GLAUCA Tobacco mosaic virus in Nicotiana glauca.	2290
NICOTIANA REPANDA Response of Nicotiana repanda, N. sylvestris, and their Amphidipioid hybrid to root-knot nematodes.	3015
NICOTIANA SYLVESTRIS Response of Nicotiana repanda, N. sylvestris, and their Amphidipiod hybrid to root-knot nematodes.	3015
NICOTINE Adaptation of tobacco hornworms to the ingestion of nicotine.	2236
NIGERIA Susceptibility of jute strains to four root-knot nemator (Meloidogyne spp.) in Eastern Nigeria.	des 3073
Parasitic nematodes on Dioscorea spp. in eastern Nigeri	ð •
PAGE 114	

		3074
	I GHTSHADE POISONING Large animal toxicological problems.	3160
	IGROSPORA DRYZAE Nigrospora cob rot of corn in the United Arab Republic.	26 7 8
N	ITRATES . Nitrate metabolism in the ruminant.	3146
N :	ITRITES Nitrate metabolism in the ruminant.	3146
N :	ITROFURANS Nitrofurans as chemosterilants of stored-grain insects.	2213
N]	TROGEN	
	The effects of nitrogen starvation on the concentration free amino acids in Myzus persicae (Suizer) (Homoptera, Aphidae).	of 2206
	Relation of nitrogen to disease development in rice see lings infected with Helminthosporium oryzae.	1- 2350
	Physiology of sexual reproduction in Hypomyces solani f cucurbitae. I. Influence of carbon and nitrogen.	2525
	Nitrogen nutrition of Colletotrichum coccodes.	2612
	Influence of nitrogen and potassium on susceptibility of Chrysanthemum morifolium to Botrytis cinerea.	3224
	A long term experiment for preservation of urediospores Puccinia graminis tritici in liquid nitrogen.	o f 3233
	Influence of various nitrogen and light sources on some cultural characters of Fusarium oxysporum f. Lycopersic	3234
	Effect of photoperiod and nitrogen on reaction of sesam Pseudomonas sesami and Xanthomonas sesami.	
NC	DDULES (PLANTS)	
	Effects of seed inoculation, soil fumigation, and cropp sequences on nodulation of soybeans grown in soybean-cy: nematode-infested soil.	lng st- 3021
N	DMENCLATURE The North American 1961 set of supplemental differentia	
	wheat varieties for leaf rust race identification.	2362
F4 6	Overwintering of wheat striate mosaic virus in North Dai ta.	0- 2873
N(DRFOLK ISLAND PINE A re-evaluation of the quarantine significance of Crypto	
	A re-evaluation of the quarantine significance of Crypt spora longispora Servazzi on imported seed of the Norfo Island pine, Araucaria excelsa.	2573
	JRKA ⊎HEAT Heterogeneity in the Norka differentiai ⊮heat varlety to new race of Erysiphe graminis tritici.	2721
N	DRMAL PHYLLOXERA	
	Variability in the growth patterns of single cell clone: normal and grape Phylloxera gall callus in vitro.	3107
	JRTH AMERICA Pithanus maerkeii (Herrich-Schaffer) and Actitocoris	
	signatus Reuter in North America (Hemiptera: Miridae).	2014
	Review of the fern aphids of North America with descriptions of a new species and a new genus.	2031
	The probable coldentity of the moria disease of pear train Italy and pear decline in North America.	2814
N	DRTH CAROLINA Wild host plants of the corn earworm and the tobacco buy in eastern North Carolina.	lworm 2022
	Resistance of tobacco hornworms to certain insecticides North Carolina.	ln 2180

Phytophthora heveae from eastern Tennessee and western

		OPTIC	NER
North Carolina.	2339	Controi of Cercospora icaf spot of bananas with applicatio of oil sprays based on the disease cycle. 25	
Performance of certain nematocides and nematocide-fertii mixtures applied to vegetable crops in North Carolina.		Diis reduce sporulation of Septoria on celery. 29	36
	3008	OFLANOWA	
NORTHERN WHITE PINE Armiiiaria meiica root rot in a northern white pine pia tion.	anta- 2825	OKLAHOMA Effectiveness of certain protectant fungicides for control ling pecan scab in Oklahoma during 1959. 22	
NUCELLAR CLONES	2683	Relative prevaience of NA61 races of Puccinia recondita in 1960 in Kansas and Okiahoma. 25	564
NURSERY STOCK (FORESTRY) The infection of pear rootiets by Phytophthora cactorum.		OKRA Okra seed infection and seedling root rot caused by Fusarium solani. 25	647
	2658	Performance of certain nematocides and nematocide-fertiliz	te r
NURSERY STOCK (HORTICULTURE) Elimination of nematodes from nursery plants by chemical bare-root dips.	3047		008
NUTRITION Nitrogen nutrition of Colletotrichum coccodes.	2612	OLIVE KNOTS Experimentai greenhouse controi of crown gali and oiive kn with antibiotic drenches. 22	not 276
NYASALAND Variation in isolates from Armiliaria root disease in Nyasaiand.	2452	DLIVE5 Decurrence of Verticiiiium wiit on Russian wilt. 28	339
D,O-DIETHYL O-2-PYRAZINYL	2435	OLPIDIUM Proionging the motility and virus-transmitting ability of	
Influence of sting nematode control with 0,0-diethyl 0-2 pyrazinyi phosphorothioate on yield and quality of peanu	its.	Dipidium zoospores with chemicais. 32	245
DAK PDISONING	3061	OLPIDIUM Infectivity differences between Dipidium from roots of spinach and jettuce. 27	73
Large animai toxicological problems.	3160	OMADINE	
DATS Naturai occurrence of Hoja bianca on wheat and oats.	2451	Effectiveness of mixtures of pyridinethioi derivatives and PCN8 (terrachior) for control of a complex of soli fungi.	1)95
Decurrence of bariey yeilow dwarf virus (8YDV) in Israel	2500	ONION BLOAT	
	2559	Factors affecting control of onion bioat by fumigants con- taining 1,3-dichloropropene in organic soiis in southern New York. 23	305
Southern blight of annual ryegrass and winter oat.	2560	ONION5	
Variation in barley yellow dwarf of cats in nature. Stem rust resistance of the Ukraine cat and derivative	2779	The pathogenesis of Botrytis cinera, 8. squamosa, and 8. ailii on onion leaves. 24	496
	2800	Pink root disease of onions in mendoza, argentina. 25	598
Physiologic races of crown rust of oats identified in 19	2825	White rot disease of onion in relation to methods and date of inoculation, and its incidence in the seedbed. 27	es 763
Properties and transmission of soli-borne oat mosaic vir	2878	Production of sterile onion bulbs and roots for the path genicity of fungus isolates. 29	10- 915
Aerial application of insecticides to control spring inf ations of the cereal leaf beetie on small grains.	'est- 3169	ONTARIO Notes on Epinotia nanana Treitschke (Lepidoptera: Diethereutidae), and keys to the immature stages of four	
Permeability changes associated with Victoria biight of oats.	3199		148
Resistance in oats to bariey yeliow dwarf virus (8YDV) i			313
Washington. DESTRIDAE	3203	A high incidence of Diaportheaseoiorum occurring in the seed of soybeans from southwestern Ontario. 29	2 910
Laboratory colonization of rodent bot flies (Diptera,	2069	Microbiai and chemical control of hornworms attacking to- bacco in Ontario. 29	959
DESTRUS DVIS Sheep bot fly control tests.	3165	Seasonai development of foliage infestations of grape in Ontarlo by Phylloxera vitifoliae (Fitch) (Homoptera: Phylioxeridae. 29	994
OHIO Maize dwarf mosaic in Dhio in 1964.	2407	ODGENES15	
First report of pine mortality caused by Fomes annosus r rot in Dhio.	oot 2571		223
OIL BAITS Imported fire ant toxic bait studies: evaluation of carr			109
	3149	OPHIOBOLUS PATCH Ophiobolus patch disease of turf in western Washington.	
DILS The acceptability of some fats and oils as food to impor fire ants.	ted 2150	24 OPTIC NERVE	\$65
Importance of source of spray oiis for sigatoka disease	c on- 2334	The potential profile of the insect compound eye and optic	2 066
		Visual response patterns of single gangiion cells in the	

PAGE 115

OPTIC NERVE

DRANGES	SUBJECT	
	0.1.04	
optic lobe of the sllkworm moth, 8ombyx morl L. DRANGES	2125	Effects of food, temperature and oviposition site on longevity and fecundity of the army cutworm.
Systemic spread of tristeza in one Vaiencia orange tree	2329	Dviposition and estabiishment of the southwestern corr on corn.
Promising decay inhibitors for postharvest use on Fiori- oranges.	da 2841	Dviposition by virgin overwintered boll weevils.
Some soil factors influencing reproduction of the citru nematode and growth reduction of sweet orange seedlings		Dviposition and egg dispersion of the appie aphid with servations on related mortality factors.
RCHARD SANITATION Effect of orchard sanitation on development of angular		Host preference for ovlposition by the spruce budworm Lake States.
spot of tung. REGON	2255	OVIPOSITORS The relationship between oviposition in the biowfly Lo
The prevalence of latent viruses in Dregon apple trees.	2395	The sense organs of the ovipositor of the biowfiy, Pho regina Meigen.
Pea diseases in Washington and Oregon, 1964.	2495	OXIDASES
Race 33 of Uromyces phaseoli var. typica Arth., a disti physiologic race of bean rust from oregon.	n c t 2514	Distinguishing tissue of normal and pathological orig complex media.
VerticIllium wilt of hops in Dregon.	2535	DXYGEN Effect of cranberry bog flooding and low dissolved ox:
Puccinlastrum epilobl1 on Fuchsia in Dregon.	2630	concentrations on nematode populations.
Tomato ring spot virus isolated from Eola rasp leaf of cherry in oregon.	2664	Wilt pathogens and oxygen levels in tracheal fluid of
RGANIC AMENDMENTS Effect of organic amendments and PCN8 upon inoculum pot tlal of Rhizoctonia sojani in field soll.	en- 2247	OZONE A portable gas sampier suitable for measuring atmosph oxidant.
RGANIC COMPOUNDS Metabolism of organic acids during rot of grape berries Diplodia viticoia.	bу 2857	PACIFIC NORTHWEST Stripe-rust head infection in flve Pacific Northwest wheats.
Adult house fly control with residual treatments of six organophosphorus compounds.	3147	PACIFIC NORTHWEST Common and dwarf bunts, their chemical control in the fic Northwest.
Control of certain insects and mites on cotton with thr systemic organophosphorus compounds.	ee 3149	PACIFIC NORTHWEST The incldence of dwarf bunt in the Pacific Northwest .
Penetration of exclsed apple cutlcle by radioactive org and inorganic compounds.	anic 3220	its occurrence on Galnes wheat. The occurrence of powdery mildew of wheat in the Paci
RGANIC SDILS Factors affecting control of onion bloat by fumigants c taining 1,3-dichloropropene in organic soils in souther New York.		Northwest. 1964 Snap bean disease survey in the Pacific Northwes
RNAMENTAL PLANTS Coreopsis flower droop.	2939	PAD METHOD Pad method of recovering fruit files from infested fr
Apicai necrosis in ornamental foliage plants caused by temperature changes.		PALM WEEVIL
RNITHONYSSUS SYLVIARUM Experiments of control of the northern fowl mite.	3136	The role of the palm weevll, Rhynochopphorus palmarum a vector of red ring disease of coconuts. I. results preiiminary investigations.
STRINIA NUBILALIS European corn borer damage to sweet corn as affected by	the 2967	PANAGROLAIMUS Nematodes associated with melting-out of turfgrass.
date of planting. /ARIES Effect of tepa and metepa on ovarian development of hou		PANDNYCHUS CITRI Response of citrus red mite to chemical steriiants.
flies.	2165	PANDNYCHUS ULMI Resistance to acaricides in the European red mite.
The influence of nutritional and hormonal factors on th chemistry of the fat body, blood, and ovaries of the bi Phorma regina Meig.		The effect of some fungicides on European red mite populations in Maine.
JERGRO₩TH Lemon bud union overgrowth disorder and its relation to rootstock and tree age.	2595	PAPAYAS Virus diseases of the papaya in Florida.
VIPOSITION Boll weevil oviposition responses in cotton squares and		Growth nhlb t on and mortaiity n papaya seedilngs r ing from papaya tissue incorporated in the soli.
various other substrates. The effect of photoperiod, light intensity, and tempera	2098	Ethylene dibromide water dips for destroying fruit fi infestations of quarantine signifigance in papayas.
on copulation, oviposition, and fertility of the Mexica fruit fly.		PARAFFIN DILS Paraffinic and naphthenic oil fractions in combinatio dDT and a Hellothis virus for corn earworm control.
Some aspects of the mating and oviposition behavior of codiing moth, Carpocapsa pomoneila.	the 2103	
PAGE 116		

overwintered boll weevils. 2219 spersion of the appie aphld with ob-nortality factors. 2226 position by the spruce budworm in the 2230 en oviposition in the biowfly Lucilia. ∠055 e ovipositor of the biowfly, Phormia of normal and pathological origin on 2849 g flooding and low dissoived oxygen tode populations. 3014 gen levels in tracheal fiuid of stems. 3213 suitable for measuring atmospheric 3289 tion in flve Pacific Northwest 2758 , their chemical control in the Paci-2759 bunt in the Pacific Northwest and nes wheat. 2528 ery mlldew of wheat in the Pacific 2584 survey in the Pacific Northwest. 2824 ng fruit files from infested fruit. 3278 eevil, Rhynochopphorus palmarum, as lsease of coconuts. I. results of 2007 ions. ith melting-out of turfgrass. 2245 mite to chemical steriiants. 2078 es in the European red mite. 2050 gicides on European red mite 3124 papaya in Florida. 2364 mortailty in papaya seediings result-incorporated in the soli. 2697 er dips for destroying fruit fly tine signifigance in papayas. 2963

2179

shment of the southwestern corn borer 2205

nic oil fractions ln comblnation with rus for corn earworm control. 3181

PARASITES Metabolic studies on the host-parasite complex of Aibugo candida on radish. 2925	PATHOGENICITY Further studies on the pathogenicity of three forms of Fu- sarium exysporum cousing wilt of alfaifa. 2279
PARASITIC INSECTS Egg parasites of the elm spanworm in the southern Appala- chian Mountains. 1997	Pathogenicity and population trends of Pratylenchus pene- trans on potato and corn- 2392
Naturai controi factors associated with the jack-Pine budworm, Choristoneura pinus. 2001	Reduction in pathogenicity and toxin production in discased Heiminthosporium victoriac. 2627
Predation by parasitic Hymenoptera, the basis of ant- Induced outbreaks of a host species. 2003	Pathogenleity of Phytophthora fragariae to certain Poten- tiila specles. 2681
Effects on the parasitoid Agria affinis (Fall.) (Diptera: Sarcophagidae) of small molecules in diets. 2124	New pathogenic strains of Puccinia hordei among physiologic races identified in United states from 1959 through 1964. 2689
Systates exaptus Mshl. (Col., Curculionidae) and related species as soll pests of maize in Rhodesia. 2993	Some factors influencing infection and disease development of Phytophthora parasitica dast. on tomato. 2723
PARASITISM Host-pathogen relationship of Helminthosporium turcicum in resistant and susceptible corn seediings. 2515	
Genetic control of the host-parasite relationship in wheat powdery mildew. 2754	Pathogenicity and population dynamics of Paratylenchus hamatus on Mentha spp. 3025
Field and host studies of parasitism by Helminthosporium sorokinianum. 284	PAXILLUS ATROTOMENTOSUS Paxiilus atrotomentosus causes brown root rot in dead jack plne in plantations in wisconsin. 2384
Occurrence, parasitism, and pathogenicity of nematodes asso- clated with cranberry. 3013	PEACHES Results of preliminary tests with phenacridane chloride for the control of fireblight of apple and bacteriai spot of
Occurrence of plant-parasitic nematodes in citrus blight areas. 3027	peach. 2330 Rusty spot of peach and its control in New Jersey. 2377
Aspects of the host-parasite relationship of nematodes asso- clated with woody ornamentals. 3037	
Potentially important plant-parasitic nematodes present in	Dodine-captan combination controls bacterial spot of peach.
established orchards of newly-reciaimed sandy areas of the United Arab Republic. 3056	2393
Physiological studies on host-parasite relationship of the	Contact fungleides for peach scab control. 2470
root-knot nematode, Meloidogyne javanica. 3057 Host-parasite studies on reniform nematode on cotton.	First year effects of 10 selected Cytospora isolates on 20 frult and forest tree species and varieties. 2508
3196	The role of fungl in the peach replant problem. 2523
PARASITOLOGY Influence of chioramphenicol on some aspects of the metabo-	Powdery mildew on peach. 2580
ilsm of the parasitoid Encarsia formosa Gahan. 2052	Occurrence of peach tree decline in Georgia in 1965. 2731
PARATHION Parathlon residue in greens. 3109	Polyporus spp. assoclated with wood decay of llving peach trees in south carolina. 2741
PARATYLENCHUS HAMATUS Pathogenicity and population dynamics of Paratylenchus hamatus on Mentha spp. 3025	Influence of necrotic ringspot virus on growth and yield of peach trees. 2747
PARENCHYMA TISSUE	Rlo Oso Gem peach seedlings as indicator hosts for the Prunus ring spot virus. 2749
Partial or complete restriction of two mosaic viruses to pa- renchyma tissue. 2300	Association of phycomycetous fungi with peach tree decline in Georgia. 2752
PARLATORIA OLEAE Ecological studies on the olive scale, Pariatoria oleae, In Israel. 1994	Rhizopus rot of peaches as affected by postharvest tempera- ture and moisture. 2830
PARSNIPS Cavity spot disease of carrot and parsnip roots. 2480	Peach ieaf curi as viewed in the early agricultural press of california. 2833
PASHO (FLAX) Fleid resistance of flax to pasmo. 2370	Scheduiing insecticide applications for peach tree borer 2981
PASTURES Control of the face fly on cattle with co-ral in grain and on pasture. 3082	2,6-dichioro-4-nitroanliine used in orchard sprays, the dump tank, the wet brusher and the hydrocooier for control of Rhizopus rot of harvested peaches. 3086
PATHOGENESIS Pathogenesis in cankers caused by Nectrla galiigena. 2631	Influence of gamma radiation dose rate on decay of cltrus, pears, and peaches. 3197
The pathogenicity of certain species of Heiminthosporium to species of the Gramineae. 2705	PEANUTS Invasion of peanut pods in the soll by Aspergillus flavus.
Distribution and pathogenicity of strains of Pseudononas solanacearum from virgin solis in Costa Rica. 3103	2394 Inoculum potential and differences among peanuts in suscep- tibility to Scierotium roifsii. 2447

Laboratory evaluation of fungicides for control of some fungi found on peanuts. 2546

PEARLMILLET

The effect of temperature, relative humidity and precipitation on peanut leafspot. 2554 Mechanical transmission of a virus causing leaf mottling of 2609 Inocuiation and development of rust on peanuts grown in the 2662 Influence of sting nometode control with 0,0-diethyi 0-2-pyrazinyl phosphorothioate on yield and quality of peanuts 3061 Field tests with new insecticides for control of the southern corn rootworm attacking peanuts in virginia. 3125 PEARLMILLET Seed-borne fungi in Georgia-grown and western-grown pearl millet seed on sale in Georgia during 1960. 2 2921 PEARS Pear decline trends in Washington orchards. 2294 Greenhouse tests on fire blight susceptibility of Stewart Sartiett compared with three other Sariett pear ciones. 2311 Arbutln-hydroquinonc complex in pear as a factor in fire 2515 blight development. The occurrence of pear bark measies in Colorado Sartlett orchards 2639 The infection of pear rootlets by Phytophthora cactorum. 2658 The probable coidentity of the moria disease of pear trees in Italy and pear deciine in North America. 28 2814 Postharvest fungicide treatments for reduction of decay in 3089 Anjou pears. Multiple residues of several chlorinated pesticides on 3112 pears. Influence of gamma radiation dose rate on decay of citru pears, and peaches. 3197 Antibiotic activity of pear leaves against Erwinia amy-lovora and its relation to beta-glucosidase. 3222 PEAS Relative severity of legume viruses in peas measured by 2427 plant growth reduction. Reactions of piant introduction lines of Pisum sativum to alfaifa mosaic, clover yellow mosaic, and pea streak vlrus es, and to powdery mildew. 24 2428 Sacterial blight of peas incited by Pseudomonas phaseollos la (Burk) Dovs. 2483 Nutritional requirements of Aphanomyces euteiches and its relationship to common root rot tolerance of peas. 2489 2495 Pea diseases in Washington and Dregon, 1964. Translocation and titer Increase studies of three pea virus lsolates. 2769 Effect of insecticide-fungicide combinations on emergence of peas and growth of damping-off fungi. 2774 Varietal resistance of peas to pea aphid biotypes under 2966 fleld and greenhouse conditions. Granular in-furrow treatments with phorate and Di-systom against the pea aphids in peas. 2968 Soil fungleldes for control of pea root rot in greenhouse 3101 Storage of fungicide-treated pea and cucumber seeds. 3184

Host-parasite relationships of pea roots penetrated by zoospores of Aphanomyces euteiches. 3209

ECANS Dodine, an outstanding fungicide for pecan scab controi. 2358 Liver spot disease of pecan extends its range into Georgia. 2359 Scab is now affecting the Stuart variety of pecan in Geor-gia as well as in other southeastern states. 2361 Aerial application of fungicides for pecan scab control. 2469 Contact fungicides for peach scab controi. 2471 PECTINASE An induced mechanism of tissue resistance to polygaiacturon ase in Rhizoctonia-infected hypocotyls of bean. 229 PECTINOPHORA GOSSYPIELLA CTINDPHORA GOSSYFIELEA Control in the plak bollworm and a method for estimating 2997 iosses in cotton yieid. Insecticidal control of first-instar pink bojiworm jarvae and observations of their dispersal on cotton piants. 2998 Effect of DDT on pink bollworm populations. 3177 PECTINS Pectic enzymes associated with Rhizoctonia-infected tissues 3194 of bean. PELARGONTUM The resistance of species of Pelargonium to Xanthomonas pelargonil. 2602 PELLICULARIA FILAMENTOSA Pellicularia filamentosa a common saprophyte on mature cotton stems in Louisiana. 26 2635 Factors affecting the pathogenicity of Pellicularia filamentosa. 3192 PELLICULARIA ROLFSII The development of Mycosphaereiia biack rot and Pellicu-laria rolfsli rot of watermelons at various temperatures. 2637 Three uncommon watermelon fruit rots in Florida. 2802 PENICILLIUM DIGITATUM Peniciilium development in lemons treated with 2,6-dichloro-4-nitroaniline. PENIOPHORA GIGANTEA The effect of competition by Peniophora gigantea on the growth of Fomes annosus in stumps and roots. 2526 PENSTEMON DIGITALIS Ditylenchus dipsacl injury to Penstemon digitalis. 3052 PENTACHLORONITROSENZENE Effect of organic améndments and PCN8 upon inoculum poten-tial of Rhizoctonia solani in field soli. 22 2247 Soil-borne infection of bulbous lris by Sclerotinia bulbor-um controlled by bulb and soli treatments with PCNP. . 2461 Efficiency of various methods of applying PCN8 for prevent-ing soil-borne infestation of bulbous iris by Scierotium rolfsli. 2463 Effect of PCN8 on isolates of Rhizoctonia solani under field conditions. 2816 Effect of pentachloronitrobenzene on Rhizoctonia solani under field conditions. 2817 Effectlycness of mixtures of pyridinethiol derivatives and PCNB (terrachlor) for control of a complex of soli fungle 3095 Residual effectiveness of dust and granular formulations of pentachioronitrobenzene (PCN8). . 3117

PAGE 118 Irish potato seed plece treatment with various chemicals. 3241

DECANS

2688

2961

2369

2479

2114

2115

2232

2415

3235

2233

3199

3232

3215

2733

2882

2933

3017

3164

3117

2238

3112

3165

PHOSPHORYLCHC	וונ
PFEFFINGERKRANKHEIT Cherry rosette: its nonidentity with Pfeffingerkrankheit and its possible affinity with Stecklinburger disease. 245	55
PHENOLASES Tyrosinase in the slikworm during the pupation period. 213	33
Polyphenoioxidase activity in cacao selections showing var able resistance to Phytophthora pod rot. 289	
PHENOLS Relation of chiorogenic acid and free phenois in potato roots to infection by Verticiiiium albo-atrum. 323	39
PHILIPPINES Virus diseases of citrus in the Philippines. 225	54
PHLEOMYCIN Phileomycin, an antibiotic markedly effective for control of bean rust. 282	
PHOMA OLERACEA VAR. HELIANTHITUBEROSI Phoma black stem of sunflowers. 265	56
PHOMOPSIS A phomopsis stem blight of yellow lupine (Lupinus luteus L.). 272	28
PHOMOPSIS JUNIPEROVA HAHN Control of phomopsis bilght of eastern redcedar seediings. 27'	43
PHOMOPSIS LOTI Host range and testing of Lotus species for disease resis- tance to Phomopsis biight of birdsfoot trefoii. 285	99
PHOMOPSIS PSEUDOTSUGAE M. WILSON A phomopsis canker on western larch. 296	24
PHORATE Granular ln-furrow treatments with phorate and Di-syston against the pea aphlds in peas. 290	68
PHOSPHAMIDON Phosphamidon residue studies on various crops. 31:	15
PHOSPHATES Control of root-knot nematodes with organophosphate insecti cides. 304	
Observations on response of greenhouse-grown cotton to ex- cessive dosages of phosphate insecticides. 324	49
PHOSPHORAMIDATES Comparative toxicity of some phosphoramidothloates and phos phoramidates to susceptible and acaracide-resistant strains of Tetranychus pacificus and Panonychus citri. 314	s
PHOSPHORAMIDOTHIDATES Comparative toxicity of some phosphoramidothioates and phos phoramidates to susceptible and acaracide-resistant strains of Tetranychus pacificus and Panonychus citri. 314	5
PHOSPHORUS COMPOUNDS Distribution of non-hydrolysable phosphorus compounds in th body of Galleria melloneila L. larvae. 214	
Adult house fly control with residual treatments of six organophosphorus compounds. 314	47
Control of certain insects and mites on cotton with three systemic organophosphorus compounds. 314	48
PHOSPHORYLATION Respiratory chain metabolism in the Colorado potato beetle -II. Respiration and oxidative phosphorylation in sarco- somes from diapausing beetles. 220	03
Respiratory chain metaboilsm in the Colorado potato beetles-I. Respiration and oxidative phosphorylation in sarcosomes from active beeties. 220	04
PHOSPHORYLCHOLINE Phosphorylethanolamine and phosphorylcholine in the haemo- lymph of larvae of Galleria mellonella L. during starva- tion. 214	43

PETROLEUM

PEPPER

vlrus.

PEPPERS

PEPTIDASES

PERIDROMA SAUCIA

cockroaches. PERITHECIA

PERITROPHIC MEMBRANE

PERONOSPORA MASHURICA

PERONOSPORA TABACINA ADAM

Status of persimmon wilt, 1959.

PERMEABILITY

oats.

PERSIMMONS

PEST CONTROL

PESTICIDES

pears.

of tomato.

greenhouses.

PESTICIDE RESIDUES

PERIPLANETA AMERICANA

tion by the oak wilt fungus.

A microagglutination test for identifying Xanthomonas vesi-catoria in pepper leaf lesion. 260

PEPPER (SPICE) Susceptibility of native piper species to the coliar-rot pathogen of biack pepper in Puerto Rico. 2792

A new species belonging to the genus Anonaepestis Ragnot (Lepidoptera, Phycitinae) attacking black pepper (Piper nigrum) in West Africa.

Field susceptibility of pepper varieties and selections to fruit rot caused by Aiternaria tenuis. 23

Effect of some fungicides on pectolytic enzyme activity of Scierotinia scierotiorum and Botrytis aliii. 24

The rearing of the variegated cutworm, Peridroma saucia, in the laboratory. 2101

Effect of lindane on the intracellular microorganisms of the

Effect of lindane on intestinal microorganisms of the American cockroach, Peripianeta americana. 21

The effect of conidial concentration on perithecial forma-

Function of the peritrophic membrane in Musca domestica L. and Calliphora erythrocephala Meig. 22

Permeablility changes associated with Victoria blight of

Germination of cospopes of Peronospora mashurlca.

Cltrus nematode on American persimmon in Israel.

Appearance of tobacco blue moid in Israel.

Effect of fungltoxic compounds on the permeabliity of yeast cells to the pyruvate ion. 323

Consideration of the use of persimmon wiit as a silvicide for weed persimmons.

Vaporized dichiorvos for control of arthropod pests in

Residual effectiveness of dust and granular formulations of pentachloronitrobenzene (PCNB). . 311

Evaluation of treatments for the control of soli-borne pests

Multiple residues of several chlorinated pesticides on

The antimetabolite. Imidazole as a pesticide.

Collection of the sex attractant from female american

Inoculum concentration and production of Perithecia by Gnomonla fructicola in culture.

American cockroach, Peripianeta americana.

A necrotic pod streak of pepper caused by tobacco mosaic 2695

The use of a petroleum hydro-carbon torch in the aseptic transfer of microorganisms and in routine laboratory gias: 3273 blowing.

> PAGE 119

NE

PHOSPHORYLETHANOLAMINE

PHOSPHORYLETHANOLAMINE PHYTOPHTHORA Phosphorylethanoiamine and phosphorylcholine in the haemo-lymph of iarvae of Galleria mellonella L. during starva-Phytophthora root rot of soybean in Minnesota. 2143 tion. control of Phytophthora brown rot of lemons. PHOTOMETERS A light sensitive apparatus for the rapid measurement of experimental feeding by insects. 3200 PHOTOPERIODISM The effect of photoperiod, light intensity, and iemperature on copulation, oviposition, and fertility of the Mexican EM+ 2102 fruit fiy. Effect of photoperiod and nitrogen on reaction of sesame to Pseudomonas sesami and Xanthomonas sesami. 324 3247 PHOTOTROPISM Possible influence of neotenine and ecdyson on the sign of phototaxis in the cyed hawk catepillar (Smerithus ocellata 2055 L.). PHRAGMIDIUM Phragmidium rose rust epidemic in Louisiana State Univer-2425 sity gardens. PHTOPHTHORA CACTORUM TOPHTHURA CACTURED The infection of pear rootlets by Phytophthora cactorum. 2658 PHYLLOSTICTA DRACONIS Leaf biight of Dracaena Incited by Phyllosticta draconis. 2390 PHYLLOXERA VITIFOLIAE Varlabiiity in the growth patterns of single ceil clones of normal and grape Phylloxera gail calius in vitro. 310 3107 PHYSICAL CHEMISTRY Physico-chemical studies on agricultural sprays. IV. The retention of spray liquids on leaf surfaces. 3218 fragariae. PHYSIOLOGY Physiology of sexual reproduction in Hypomyces solani f. cucurbitae. I. Influence of carbon and nitrogen. 2525 PHYTHTUM APHANIDERMATUM Changes in sugars and amino acids of cucumber fruits in-fected with Phythium aphanidermatum. 2654 PHYTOACTIN Effect of Phytoactin on the fusiform rust fungus, Cronar tlum fusiforme. 2867 PHYTOLACCA AMERICANA Pokeweed crinkle leaf, caused by a virus transmitted by dod-der from descrt shrubs in southern Caiifornia. 2613 2613 PHYTOPATHOLOGY Symposium on cankers of forest trees: Invitational papers presented August 28, 1963, at the fifty-fifth annual meeting of the American Phytopathological Society at Amherst, Massachusetts. 2250 Report and abstracts of the 1963 annual meeting of the Southern Division of The American Phytopathological 2252 Society. Abstracts of papers accepted for presentation at the fifty-third annual meeting of The American Phytopathological Society, Biloxi, Miss., December 10, 11, 12, 13, 1961. 2253 Isolation of Xanthomonas vesicatoria from tissues of Cap-2375 sicum annuum. Hypersensitive reaction induced by phytopathogenic bacteria in the tobacco leaf. 259 Report and abstracts of the 1963 annual meeting of the Northeastern Division of The American Phytopathological 3183 Soclety. irrigation. Use of disposable plastic growth pouches in phytopathologi-3287 cal research. PHYTOPHAGOUS INSECTS YTOPHAGOUS INSECTS The function of dictary sterols in phytophagous insects. 2145

Tetrazolium, an indicator of extent of infection in Phytophthora root rot of citrus. Observations on new or unusual diseases of highbush blueber PHYTOPHTHORA CAPSICI Genetical and cytological studies of Phytophthora capsici PHYTOPHTHORA CINNAMOMI Mating types in Phytophthora cinnamoml. 2444 PHYTOPHTHORA CINNAMONI Association of Phytophthora cinnamomi with a disease of Eucalyptus marginata forest in Western Australia. 2750 PHYTOPHTHORA CRYPTOGEA Phytophtora root and crown rot of alfalfa in the Ya-zoo-Mississippi Deita. 2562 PHYTOPHTHORA DRECHSLERI Pathogenicity and growth rates of Phytophthora drechsieri isolates from safflower and sugarbeet. 2 2807 PHYTOPHTHORA FRAGARIAE Pathogenicity of Phytophthora fragariae to certain Poten-tilia species. 2681 The relationships of English and American races of Phyto-2738 phthora fragariae. Culture media for sporanglai production in Phytophthora 3217 PHYTOPHTHORA HEVEAE hytophthora heveae from eastern Tennessee and western 2339 North Carolina. PHYTOPHTHORA INFESTANS Decurrence of late blight disease of potatoes in Montana. 2261 The Toluca Valley, an outstanding area for testing fungi-cides on potatoes under natural conditions against late blight (Phytophthora Infestans). 2347 PHYTOPHTHORA MEGASPERMA Phytophthora root and crown rot of alfaifa in the Ya-zoo-Mississippi Delta. 2562 PHYTOPHTHORA PALMIVORA sporulation and compatibility types of Phytophthora palmi-vora isolated from cocoa in Mexico. 27 2784 Polyphenoloxidase activity in cacao selections showing vari able resistance to Phytophthora pod rot. 289 2894 A world survey of Phytophthora palmivora on cocoa. 2895 Schavior of Phytophthora palmivora in soil. 2896 PHYTOPHTHORA PARASITICA Electrotaxis of Phytophthora parasitica zoospores and its possible role in Infection of tobacco by the fungus. 2 2889 PHYTOPHTHORA PARASITICA DAST. Some factors influencing Infection and disease development of Phytophthora parasitica dast, on tomato. 27 2723 PHYTOPHTHORA PARASITICA VAR. NICOTIANAE Influence of resistant varieties on virulence level within natural populations of Phytophthora parasitica var. nico-2271

2328

Phytophthora parasitica var. nicotianae spread by overhead 2932

PHYTOPHTHORA PARASITICA VAR-NICOTIANAE

Influence of host passage on virulence of Phytophthora parasitica var. nicotlanae. 2403

SUBJ	ECT INDEX	
	PITTING DISEASE (CITRUS	3)
PHYTOPHTHORA SPP. Association of phycomycetous fungl with peach tree decline in Georgia. 2752	PINUS ECHINATA Observations on Fomes annosus root-rot in natural stands of lobloily and shortical pine. 2399	
PHYTOTOXICITY Importance of source of spray olis for sigatoka disease con- troi and phytotoxicity to banana leaves. 2334	First report of pine mortailty caused by Fomes annosus root rot in Ohio. 2571	
Comparison of standard fungicides recommended for control of powdery mildew of roses. 2387	Infection, growth rate, and competitive ability of Fomes annosus in Inoculated Pinus echinata stumps. 2607	
Evaluation of D8CP formulations and application depths for root-knot nematode controi and phytotoxicity to tomatoes. 3031	PINUS ELLIDITI Pine treas near power substations damaged by urea herbi- cides. 3098	
Pine trees near power substations damaged by urea herbl- cides. 3098	PINUS ELLIDITII Fomes annosus on slash pine in the southeast. 2755	
Dyrene phytotoxicity effects on tomato. 3227	PINUS JEFFREYI A staining-fungus root disease of ponderosa, Jefferey, and	
Irish potato seed piece treatment with various chemicais. 3241	pinyon pines. 2905 PINUS POMDEROSA A staining-fungus root disease of ponderosa, Jefferey, and	
PICEA Notes on Epinotia nanana Treitschke (Lepidoptera:	pinyon pines. 2905	
Diethereutidae), and keys to the immature stages of four needie miners of spruce in Ontario. 2149	Pine needle abortion in cattie. 3079	
Association of dagger nematode, Xiphinema americanum, with stunting and winterkill of ornamental spruce. 2475	PINUS RADIATA Control of conifer damping-off in South Australia. 2900	
PIERIS JAPONICA Alternaria leaf spot of Pieris japonica. 2503	PINUS STROBUS Histological and control studies of the Lophodermium needle cast disease of eastern white pine. 2368	
PIGMENTS (PLANT) Production of a red pigment by a mutant of Heiminthosporium hajodes. 3195	Effects of nutrition on the chiorotic dwarf disease on eastern white pine. 2396	
PIGWEED Large animai toxicologicai problems. 3160	Armiliaria meiiea root rot in a northern white pine pianta- tion. 2825	
PIINUS VILLIGER (REITER)	PINUS TAEDA Observations on Fomes annosus root-rot in natural stands of	
Locomotor activity of the hairy spider beetie at the surface of stored wheat. 2038	lobioly and shortleaf pine. 2399 Epidemics of pine needle rust in Arkansas. 2934	
PILOCARPINE Inhibition of fly-head choilnesterase in vitro by pilocar- pine and atropine. 2071	PINUS VIRGINIA Plnus radlata susceptible to pitch canker. 2512	
PIMIENTOS Effect of fruit shape on the occurrence of internai moid in cannery pimientos. 2389	PINUS VIRGINIANA First report of pine mortality caused by Fomes annosus root rot in Dhio. 2571	
PINE NEEDLE RUST Epidemics of pine needle rust in Arkansas. 2934	PIPER Susceptibility of native piper species to the coliar-rot pathogen of black pepper in Puerto Rico. 2792	
PINE NEEDLES Pine needle abortion in cattle. 3079	PIPER NIGRUM	
PINK ROOT (ONIONS) Pink root disease of onions in mendoza, argentina. 2598	Varietai differences in pepper to virus induced breakdown of fruit. 2320	
Screening of fungicides and chemotherapeutants for control of pink root of onions and shailots. 2611	A new species belonging to the genus Anonaepestis Ragnot (Lepidoptera, Phycitinae) attacking black pepper (Piper nigrum) in West Africa. 2961	
PINK RODT (SHALLOTS) Screening of fungicides and chemotherapeutants for controi of pink root of onions and shaiiots. 2611	PIRICULARIA DRYZAE Structure of rice leaves in relation to varietal suscepti- bility to rice blast, Piricularia oryzae. 2699	
PINUS Microorganisms in soll from Fomes annosus infected pine stands. 2259	Prevaience and distribution of pathogenic races of piricularia oryzae in the U. S. 3189	
Fomes annosus found in Nebraska. 2853	PIRICULARIA DRYZAE CAV. Rice biast In Ei Saivador. 2265	
Fomes annosus in southwestern Michigan. 2858	PISUM SATIVUM	
PINUS BALFOURIANA Dwarfmistietoe found on foxtali pine in Caiifornia. 2666	Reactions of plant introduction lines of Plaum sativum to alfalfa mosaic, clover yellow mosaic, and pea streak virus- es, and to powdery mildew. 2428	
PINUS BANKSIANA Paxliius atrotomentosus causes brown root rot in dead jack pine in plantations in wisconsin. 2384	PITCH CANKER (PINUS RADIATA) Pinus radlata susceptible to pitch canker, 2512	
PINUS CEMBROIDES MONOPHYLLA A staining-fungus root disease of ponderosa, Jefferey, and pinyon pines. 2905	PITTING DISEASE (CITRUS) The occurrence of pits and protuberances in the xylem of citrus varieties in Israel. 2736	

Alleration leadspot 2443 PLATE INFEDION A new type of resistance in corn to Melainthosperius tur- cicus. 2433 Present of theore breading lines to three species of put routines. 2433 Plate NUMBING Control of a back in sweet cherry. 2336 Plate NUMBING Control of a back in sweet cherry. 2336 Plate NUMBING Control of a back in sweet cherry. 2336 Plate NUMBING Control of a back in sweet cherry. 2336 Plate NUMBING Control of a back in sweet cherry. 2336 Plate NUMBING Control of a back in sweet cherry. 2336 Plate NUMBING Control of a back in sweet cherry. 2336 Plate NUMBING Control of a back in sweet cherry. 2341 Indexed mulation and cytalogical inwestigations in almostin. 2347 Plate NUMBING Control of a sweet policy of of a system in almostin. 2347 Plate NUMBING Philms pre-company control of a system in almostin. 2347 Plate NUMBING Philms pre-company control of a system in almostin. 2347 Pack in the sweet in almostin. 2347 Point in the sweet in almostin. 2347 Point in the sweet in almostin. 2347 Pack in the sweet in almostin. 2347 Point in the sweet in almostin.	PITTOSPORUM		
PLAT UNDER Definition of resistance in corp to Melainthoopprise turn 243 Response of tabacca breading lines to three species of resistance in corp. 243 Response of tabacca breading lines to three species of resistance in greenhause tails. 243 Response of tabacca breading lines to three species of resistance in greenhause tails. 243 PLAT UNDER 243 PLAT UNDER 244 PLAT UNDER 244 PLAT UNDER 245 PLAT UNDER 244 PLAT UNDER 244<		2843	2380
Paraness of lobaces brending lines to three species of roct-hold mediades in ground and differendes samp penuls in uncer- tibility to Scienting relations of the heat by the species and cell dash rate (herry. 236 PLAT DECK Part of decide dash rate in corn stalk lines. The decide and cell dash rate in corn stalk lines. The decide and cell dash rate in corn stalk lines. The decide and cell dash rate in corn stalk lines. The decide and cell dash rate in corn stalk lines. The decide and cell dash rate in corn stalk lines. The decide and cell dash rate in corn stalk lines. The decide and cell dash rate in corn stalk lines. The decide and cell dash rate in corn stalk lines. The decide and the decide and the decide in the decide and t	PLANT BREEDING A new type of resistance in corn to Heiminthosporium to	1-	parasitica var. nicotlanae. 2403
 Teochwoi messides is groenbawe lests. PLART 2001MC Detart 301MC Detart 301MC Detart 301MC Detart 301MC Detart 301MC PLART 2011MCS Pust 2011 <l< td=""><td></td><td></td><td></td></l<>			
Death of dermant budy in sweet cherry. 2336 PLANT CUTTURS Propil associated with defailation of Taxus cuttings. 2641 PLANT CUTURS PLANT CU			
PLANT CUTTINGS An Improved method for determining resistance to fuscing 2013 PLANT COTRUCY 2244 Lar crossed and cell death rate in corn stab lisue. 2244 Lar crossed and cell death rate in corn stab lisue. 2244 Lar crossed and cell death rate in corn stab lisue. 2244 Lar crossed and cell death rate in corn stab lisue. 2244 Lar crossed and cell death rate in corn stab lisue. 2244 Decked mutation and cytological investigations in Nei- 2247 Decked mutation and cytological investing in Nei- 2247 <tr< td=""><td></td><td>2336</td><td></td></tr<>		2336	
PLANT CYTULDGY Ear reways and cell death rate in corn stalk tissue. 2244 Car reways and cell death rate in corn stalk tissue. 2244 Date reways. 2244 Induced wutsion and cytological investigations in Management and the state of the state state of the state of the state of the stat		2861	An improved method for determining resistance to Fusarlum
Induced wuistion and cytological investigations in Heiminkhopper and cytological investigation in Heiminkhopper and cytological investigatin the Heiminkhopper and cytological investiga		2244	Nonspecific acquired resistance to pathogens resulting from
PLANT DISCAY 2217			Reaction of tomato varietles and breeding lines to Fusarlum
Decay 10 years after thiming of avertigm sprout clumps. Penicililus development in lemons treated with 2,6-dichio- re-i-hitremilline. Posthervest fungicide treatments for reduction of decay in Anjue parse. Reduction of posthervest decay of strawberries with chemical and heat treatment. PLANT DISCASE FUNCACING Cyclokesialde for havtner leaf post. PLANT DISCASE FUNCACING Cyclokesialde for havtnere			Susceptibility of sweetpotato varieties to yellow dwarf.
Panicililie development in lemons treated with 2,6-dichio- Tre-intronalline.A new type of resistance in corn to Heisinthesportus tur- clean.2233Posthervest fungicide treatments for reduction of decay in Anju pears.A new type of nearly isogenic rust-resistant isogenic clean.2233Reduction of posthervest decay of strewberries with chemical and hast treatents.3093Partial resistance to greenpoint cushion gail in case clean.2333PLANT DISCASE CONTROL Control of lear noid in a heavily infected tomato crop with a polybutem censiston.2212Partial resistance in foride of a will fuscile case of a spring tio to pathogenic rust of picture sistent is and his development.2213Provide system for controlling soil temperatures in the study of soil-borne plant pithogens.2214An ther appearance in floride of a will fuscile carles and r. for- tio to call resistant cose of Tilicia carles and r. for- tida.Provides decay inhibitors for postharvest use on florid oranges.2214The resistance of species of Telergonius to Xanthesona pelargonii.Provides of plant disease forecesting in an arid climate. to the host plant.2213Resistance in susceptibility of several clones core corePLANT DISEASE FORECASTING provides cells of resistant to fuscile signific rust. serial compared with three other Barlett peer clones. core to the host plant.2213Corectics of resistance to powdery sildew race 2 in susception oranis c. sprintlici as influenced by the stage of dward rogen of the host plant. serial is core plant is the susceptibility of Stevert serial and ausceptible is for lear susceptibility of control of align to ward contenplant. core rot. <td>Decay 10 years after thinning of sweetgum sprout clump:</td> <td></td> <td></td>	Decay 10 years after thinning of sweetgum sprout clump:		
ro-Anitronilline.3065cleur.2533Posithervest fungleide treatments for reduction of decay in Anjou press.3063Development of nearly isogenic rust-resistant lines of corn. 30632533Reduction of posithervest decay of stravberries with chenical and heat itreatments.3063Partial resistance to greenpoint cushion gail in eaco cleure completely resistant to flowry gail.2533PLANT DISCASE CONTROL Control of asenges and inact pests of erop plants in the soviet union.2240Sweet corn susceptibility to maic dust of pressione completely resistance completely resistance of a pressione completely resistance of a vite fusion.2536Fungleidsi control of asenge anthracose.2277Another appearance in Florids of a vite fusion of a vite fusion.2540Rusty spot of pack and its control in New Jersey.2377The reaction of avoice is and the clear soft and the control in New Jersey.2377An improved system for controlling soil temperatures in the study of soil-borne plant pathogens.2241The resistance of species of Pelargonius to Xanthogonas 2641Problems of plant disesse foreceasting in an arid climate. Tests of Phaseolus species for resistance to Fusarium root rot.2213The resistance of some environitibility of several control to the host plant.2264PLANT DISCASE RESISTANCE Greenhause test on fire blight susceptibility of Stevert appent of the host plant.2237Species of an on the University of lilinols campus resis- resistance in Trifice solitant of susceptibility of Stevert resistance in the host plant.2262Frequency of cotton plants resistant to fuarius will in asse in heo of cotton resis		2880	resistant and susceptible corn seedlings. 2519
Anjou peers.30692534Reduction of postharvest decay of strawberries with chemical and heat itreatants.30692534PLANT DISEASE CONTROL Control of lasenses and insect peets of crop plants in the soviet union.2240Steel con susceptibility to saize durif acoals.2535PLANT DISEASE CONTROL Control of lear moli in a heavily infected tomato crop with a polybuteme emulsion.2212Sweet con susceptibility to saize duerf acoals.2536An isproved system for controlling soil temperatures in the study of sail-borne plant pathogens.2212Another appearance in Florids of a wilt fusarius pathogen- ico race l-resistant to allow soils of varieties and hybrid selections of spring wheats to pathogenic reaces of Tilietie caries and 1. for tauty of sail-borne plant pathogens.2261Promising decay inhibitors for postharvest use on Florida oranges.2811The resistance of species of Plant goins and k. braallensis X. H. benthalands to two reaces of Dilant disease forecasting in an arid climate. 22312231Relative resistance or susceptibility of several clones of two strates of Phaseolus species for resistance to Fusarius roit. 22312231PLANT DISEASE for freesistance to powdery sildew race 2 in muskel- on. Centict os price so fire bilight susceptibility of Stewart grannis (-s. p. trilic as influenced by the stage of devi- opent of the host plant. The worth Aserican 1961 set of supplemental to fusarius wilt in resistance in resistance to powdery sildew race 2 in muskel- on. 23312331Resistance in resistance to powdery sildew race 2 in muskel- opent of the host plant. The worth Aserican 1961 set of supplemental to fusarius wilt in resistance in resistance			
and heat treatments.3091clones completely resistant to flowry goll.2533PLANT DISEASE CONTROL Control of diseases and insect pests of crop plants in the seviet union.2441Sweet com susceptibility to make duarf moment.2553Fungleidal control of mango anthracnose.2272Control of las and mango anthracnose.2272Control of leaf mold in a heavily infected tomato crop with a polybutene emulsion.2321Another appearance in Florids of a wilt Fusarium pathogen- tida.2563Rusty spot of peach and its control in New Jersey.2377The resistance of species of Florids of a wilt fusarium pathogen- tida.2562Preaking decay inhibitors for postharvest use on Florids oranges.2501The resistance of species of Pelargonius to Xanthomonas pelargonii.2662PLANT DISEASE TORECASTING Probless of plant disease for cesisting in an arid climate. Trats of Phaseolus species for resistance to Fusarium root tot.2731Relative resistance or susceptibility of several clones of pelargoniis.2662PLANT DISEASE RESISTANCE Trats of Phaseolus species for resistance to Fusarium root tot.2731Relative resistance or susceptibility of several clones of apple clonel rootstocks to celar apple rust.2741Cenetics of resistance to powery mildew race 2 in muskel- or entiets of resistance to powery mildew race 2 in muskel- or int.2731Relative resistance of the University of Illinois caspus resis- to to duck eightes.2742Cenetics of cotion resistant to fusarium vity2324Stewer test of fungleide appray on tomates resistance in tritices sof cotion resistant to fusarium vity			Development of nearly isogenic rust-resistant lines of corn. 2534
Control of diseases and insect pests of crop plants in the soviet union.2240 2241Fungleidal control of mango anthracnose.2272Control of leaf moid in a heavily infected tomato crop with a polybutene emulsion.2272Rusty spot of peach and its control in New Jersey.2377An improved system for controlling soil temperatures in the study of soil-borne plant pathogens.2501Premising decay inhibitors for postharvest use on Fiorida oranges.701Cycloheximide for hawthorn leaf spot.2011PLANT DISEASE FRECKSTING Problems of plant disease forecasting in an arid climate. oran.2013PLANT DISEASE RESISTANCE Tests of fraction species for resistant to susceptibility of severat darilet compared with three other Bariett peer clones. oran.2011Cenetics of resistance to powdery mildew race 2 in musikel- on.2011Resistance in Trilicua vulgare to infection by Erysiphe resistant to susceptibile to bacterial bilipht.111See lines of cotton plants resistant to fusarium wilt in some lines of cotton resistant or susceptible to bacterial bilipht.2011The North American 1961 set of supplemental differential wheat varieties for leaf rust race identification. 20222022The North American 1961 set of supplemental differential wheat varieties for leaf rust race identification. 20232024The North American 1961 set of supplemental differential wheat varieties for leaf rust race identification. 20242024The North American 1961 set of supplemental differential wheat varieties for leaf rust race identification. 20242024The North Americ			
Fungicidal control of mango anthracnose.2272Control of leaf mold in a heavily infected tomato crop with a polybutene emulsion.2272Rusty spot of peach and its control in New Jersey.2377An improved system for controlling soil temperatures in the study of soil-borne plant pathogens.2311Promising decay inhibitors for postharvest use on Florida oranges.2681Cycloheximide for hawthorn leaf spot.2913PLANT DISEASE FRECKSTING Problems of plant disease forecasting in an arid climate. Tests of Phaseolus species for resistance to Fusarium root roit.2111Genetics of resistance to powdery mildew race 2 in musikel- one lines of cotton resistant to fusarium will in some lines of cotton resistant to fusarium will in some lines of cotton resistant or susceptible to bacterial blight.2111The North American 1961 set of supplemental differential what varieties for leaf rust race identification. 22252265The North American 1961 set of supplemental differential what varieties for leaf rust race identification. 22262212The North American 1961 set of supplemental differential what varieties for leaf rust race identification. 22252225The North American 1961 set of supplemental differential what varieties for leaf rust race identification. 22252264The North American 1961 set of supplemental differential what varieties for leaf rust race identification. 22652265The North American 1961 set of supplemental differential what varieties for leaf rust race identification. 22652266The North American 1961 set of supplemental differential what varieties for leaf rust race id	Control of diseases and insect pests of crop plants in		
Control of leaf mold in a heavily infected tomato crop with a polybutene emulsion.An infected tomato crop with a polybutene emulsion.Z501An inproved system for controlling soil temperatures in the study of soil-borne plant polybutene for posthervest use on Florida oranges.The resistance of species of Pelargonius to Xanthomons pelargonius to Xanthomons pel			
Rusty spot of peach and its control in New Jersey.2377An improved system for controlling soil temperatures in the study of soil-borne plant pathogens.2501Promising decay inhibitors for postharvest use on Florida oranges.2601Cycloheximide for hawthorn leaf spot.2913PLANT DISEASE FORECASTING Problems of plant disease forecasting in an arid climate. Tests of Phaseolius species for resistance to Fusarium root roit.2714Cenetics of resistance to powdery mildev race 2 in muskeel- graminis f. sp. tritici as influenced by the stage of devel- opent of the host plant.2723Resistance in Triticum vulgare to infection by Erysiphe graminis f. sp. tritici as influenced by the stage of devel- opent of the host plant.2714Frequency of cotton plants realstant to Fusarium wili in sme lines of cotton resistant or susceptible to bacterial blight.Resistance of the Ukraine oat and derivatives. 2325The North American 1961 set of suppresental differential wheat varieties for leaf rust race identification. 23262326The North American 1961 set of suppresental differential wheat varieties for leaf rust race identification. 23262326The North American 1961 set of suppresental differential wheat varieties for leaf rust race identification. 23262326The North American 1961 set of suppresental differential wheat varieties for leaf rust race identification. 23262326The North American 1961 set of suppresental differential wheat varieties for leaf rust race identification. 23262326The North American 1961 set of suppresental differential wheat varieties for leaf rust race identification. 2326<	Control of leaf mold in a heavily infected tomato crop	with	
An improved system for controlling soil temperatures in the study of soil-borne piont pathogens.2501Premising decay inhibitors for postharvest use on fiorida oranges.2641The resistance of species of Pelargonium to Xanthomonas pelargonii.2662Cycloheximide for hawthorn leaf spot.2913Relative resistance or susceptibility of several ciones of Heve abrailings and H. brasilensis X. H. benthaalane to two races of Dothidella uiel.2662PLANT DISEASE FORECASTING Problems of plant disease forecesting in an arid climate. 270427042677PLANT DISEASE RESISTANCE Tests of Phaseolus species for resistance to Fusarium root rot.27042677Species of elm on the University of lilinois campus resis- 201122772701Genetics of resistance to powdery mildew race 2 in muskend- on.2111Species of elm on the University of lilinois campus resis- 2011Genetics of resistance to powdery mildew race 2 in muskend- orgent of the host piont.2111Influence of some environmental factors and growth substan- ces on the development of bariey yellow dwarf. 2015Frequency of cottom plants resistant to fusarium wilt in same ilines of cottom resistant to fusarium wilt in same lines of cottom resistant of supplemental infigure. 2016Resistance of the Ukraine oat and derivatives. 2016The North American 1961 set of supplemental infigure. fruit rot caused by Alternaria tenuis.2362Field susceptibility of peper varieties and selections to fruit rot caused by Alternaria tenuis.2364Stewart strain of Bartiett pear shows fire blight resis-		2377	wheats to pathogenic races of Tilletia carles and T. foe-
Promising decay inhibitors for postharvest use on Fiorlda oranges.2841Immunity to bean yellow mosale virus in cowpea.2608Cycloheximide for hawthorn ieaf spot.2913Retative resistance or susceptibility of several clones of Hevea brasiliensis and H. brasilensis X.H. benthamiane to two races of Dothledia ulei.2619PLANT DISEASE FORECASTING Problems of plant disease forecasting in an arid climate. 27342734Retative resistance or susceptibility of several clones of Hevea brasiliensis and H. brasilensis X.H. benthamiane to two races of Dothledia ulei.2619PLANT DISEASE RESISTANCE Tests of Phaseolus species for resistance to Fusarium root rot.22372267Genenhouse tests on fire blight susceptibility of Stewart Bartlett compared with three other Barlett pear clones. 23112311Relative resistance in sweetpotato to the internal cork virus. 2311Genetics of resistance to powdery mildew race 2 in muskmei- opment of the host plant. some lines of cotton plants resistant to Fusarium wilt in some lines of cotton plants resistant to Fusarium wilt in some lines of cotton resistant or susceptible to bacterial blight.Relative resistance of the Ukraine cot and derivatives. 2324The North American 1961 set of supplemental differential 			The resistance of species of Pelargonium to Xanthomonas
PLANT DISEASE FORECASTING Problems of plant disease forecesting in an arid climate.2734Heve brasiliensis and H. brasilensis X H. benthamiane to two races of Dothldelia uiel.2613PLANT DISEASE RESISTANCE Tests of Phaseolus species for resistance to Fusarium root rot.2734Susceptibility of various apple clonal rootstocks to cedar apple rust.2617PLANT DISEASE RESISTANCE Tests of Phaseolus species for resistance to Fusarium root rot.2734Susceptibility of various apple clonal rootstocks to cedar apple rust.2617Greenhouse tests on fire blight susceptibility of Stewart Barilett compared with three other Bariett pear clones. and2311Susceptibility of various apple clonal rootstocks to cedar apple rust.2617Genetics of resistance to powdery mildew race 2 in muskmel- on.2311Influence of some environmental factors and growth substan- ces on the development of barley yellow dwarr.2722Resistance In Triticum vulgare to infection by Erysiphe graminis f. sp. triticl as influenced by the stage of develo- opment of the host plant.2324Relayed harvest test of fungicide sprays on tomatoes resistant and susceptible to fruit cracking.2795The North American 1961 set of supplemental differential wheat varieties for leaf rust race identification. fruit rot caused by Alternaria tenuis.2362Reaction of alfalfa to Verticilifum albo-atrum.2840Dak leaf age and susceptibility to Cronartium fusiforme. Dak leaf age and susceptibility to Cronartium fusiforme. Stewart strain of Bartiett pear shows fire blight resis-2842			
Problems of plant disease forecasting in an arid climate. 2734Susceptibility of various apple clonal rootstocks to cedar apple rust.PLANT DISEASE RESISTANCE Tests of Phaseolus species for resistance to Fusarium root rot.Susceptibility of various apple clonal rootstocks to cedar apple rust.Greenhouse tests on fire blight susceptibility of Stewart Bartiett compared with three other Bariett pear clones. 2311Susceptibility of various apple clonal rootstocks to cedar apple rust.Genetics of resistance to powdery mildew race 2 in muskmel- on.2311Resistance in sweetpotato to the internal cork virus. 2311Resistance In Triticum vulgare to infection by Erysiphe gramins f. sp. tritici as influenced by the stage of devel- opment of the host plant.2324Frequency of cotton plants resistant to Fusarium wilt in some lines of cotton resistant or susceptibile to bacterial blight.Relation of alfalfa to Verticilium albo-atrum.The North American 1961 set of supplemental differential wheat varieties for leaf rust race identification. Frield susceptibility of pepper varieties and selections to fruit rot caused by Alternaria tenuls.2369Case of supplemental differential stewart strain of Bartiett pear shows fire blight resis-2840		2913	Hevea braslilensis and H. brasliensis X H. benthamlana
PLANT DISEASE RESISTANCE Tests of Phaseolus species for resistance to Fusarium root rot. 2287 Greenhouse tests on fire blight susceptibility of Stewart Bartlett compared with three other Barlett pear clones. 2311 Genetics of resistance to powdery mildew race 2 in muskmel- 2315 n. 2315 Resistance in Triticum vulgare to infection by Erysiphe 2315 graminis f. sp. tritici as influenced by the stage of devel- 2324 opment of the host plant. 2324 Frequency of cotton plants resistant to fusarium wilt in 2305 some lines of cotton resistant or susceptible to bacterial Cate of a cotton. blight. 2325 The North American 1961 set of supplemental differential Reaction of alfalfa to Verticiii um albo-atrum. 2840 Field susceptibility of pepper varieties and selections to 2369 Reaction of alfalfa to Verticiii um fusiforme. Cak leaf age and susceptibility to Cronartium fusiforme. 2842 Stewart strain of Bartlett pear shows fire blight resis-			Susceptibility of various apple clonal rootstocks to cedar
Bartlett compared with three other Barlett pear clones.2311Bartlett compared with three other Barlett pear clones.2311Genetics of resistance to powdery mildew race 2 in muskmel- on.2315Resistance In Triticum vulgare to infection by Erysiphe graminis f. sp. tritici as influenced by the stage of devel- opment of the host plant.2324Frequency of cotton plants resistant to Fusarium wilt in some lines of cotton resistant or susceptible to bacterial blight.Caster resistance of the Ukraine oat and derivatives. 2325The North American 1961 set of supplemental differential wheat varieties for leaf rust race identification. fruit rot caused by Alternaria tenuis.2360Field susceptibility of pepper varieties and selections to fruit rot caused by Alternaria tenuis.2369Stewart strain of Bartiett pear shows fire blight resis-	Tests of Phaseolus species for resistance to Fusarium m		Species of elm on the University of lijinols campus resis-
Influence of some environmental factors and growth substancesGenetics of resistance to powdery mildew race 2 in muskmei- on.2315Resistance in Triticum vuigare to infection by Erysiphe graminis f. sp. tritici as influenced by the stage of devei- opment of the host plant.2315Requency of cotton plants resistant to Fusarium wilt in some lines of cotton resistant or susceptible to bacteriai blight.A delayed harvest test of the Ukraine oat and derivatives. 2800The North American 1961 set of supplemental differentiai wheat varieties for leaf rust race identification.2362Field susceptibility of pepper varieties and selections to fruit rot caused by Alternaria tenuis.2369Stewart strain of Bartiett pear shows fire blight resis-			Resistance in sweetpotato to the internal cork virus. 2714
Resistance in Triticum vulgare to infection by Erysiphe graminis f. sp. tritici as influenced by the stage of devel- opment of the host plant.A delayed harvest test of fungicide sprays on tomatoes resistant and susceptible to fruit cracking.2795Frequency of cotton plants resistant to Fusarium wilt in 	Genetics of resistance to powdery mildew race 2 in mush		
opment of the host plant.2324Stem rust resistance of the Ukraine oat and derivatives.Frequency of cotton plants resistant to Fusarium wilt in some lines of cotton resistant or susceptible to bacterial blight.Stem rust resistance of the Ukraine oat and derivatives.The North American 1961 set of supplemental differential wheat varieties for leaf rust race identification.Ralzoctonia solani: Physiologic specialization among iso- 2810Field susceptibility of pepper varieties and selections to fruit rot caused by Alternaria tenuis.2369Stewart strain of Bartiett pear shows fire blight resis-	Resistance in Triticum vuigare to infection by Erysiphe		
Frequency of cotton plants resistant to fusarium wilt in some lines of cotton resistant or susceptible to bacterial blight.Rhizoctonia solani: Physiologic specialization among iso- 2018The North American 1961 set of supplemental differential wheat varieties for leaf rust race identification.Reaction of alfalfa to Verticifium albo-atrum.2840Field susceptibility of pepper varieties and selections to fruit rot caused by Alternaria tenuis.2369Cak leaf age and susceptibility to Cronartium fusiforme. 2840			Stem rust resistance of the Ukraine oat and derivatives. 2800
wheat varieties for leaf rust race identification. 2362 Field susceptibility of pepper varieties and selections to 2842 fruit rot caused by Alternaria tenuis. 2369 Stewart strain of Bartlett pear shows fire blight resis-	some lines of cotton resistant or susceptible to bacter	riai	Rhizoctonia solani: Physiologic specialization among iso-
Field susceptibility of pepper varieties and selections to fruit rot caused by Alternaria tenuis. 2369 Stewart strain of Bartlett pear shows fire blight resis-			Reaction of alfalfa to Verticiiiium albo-atrum. 2840
Stewart strain of Bartlett pear shows fire blight resis-	Field susceptibility of pepper varieties and selections	a to	Oak leaf age and susceptibliity to Cronartium fusiforme. 2842
Inheritance of resistance in bariey to bariey yellow dwarf. Development of Fusarium wilt on resistant varietles of to-	Inheritance of resistance in bariey to bariey yeilow do	arf.	Development of Fusarium wilt on resistant varietles of to-

PAGE 122

Fusarium oxysporum f. lycopersici.	2851	Effectiveness of Vapam in preventing root graft transmission of the dutch eim disease fungus.	s — 270:
	2855	Seed transmission of coffee ring spot by Excelsa coffee	
Polyphenoloxidase activity in cacao selections showing vable resistance to Phytophthora pod rot.	2894	(coffee Excelsa).	277
Field resistance of 29 additional strawberry varieties a selections to Verticilium, 1959.	an d 2902	The occurrence and transmission of maize dwarf mosaic in	
The inheritance of powdery mlidew resistance in cabbage.		Virginia. 2	277
Sources of resistance to the cowpea yellow mosaic virus	2909	Seed transmission of the Johnson grass strain of the suga cane mosaic virus in corn. 2	281
Several of must posistance in settlever	2919	A sap-transmissable virus associated with a new disease c corn in southern Iilinois.	287
		Properties and transmission of soll-borne oat mosaic viru	
Species of Fusarium found associated with willing of ton varieties resistant to F. oxysporum in Israel.	2954		287
Nature of resistance in certain citrus rootstocks to ci-	trus 3075	artist's airbrush inoculation. 2	287
Systemic acquired resistance against tobacco mosaic viru resulting from localized infections by Thielaviopsis	u s	Transmission of bean pod mottie virus by bean leaf beetle 2	291;
basicoja in tobacco leaves.	3201	Vector-virus relationship of sugarcane mosaic virus. III. Transmission of sugarcane mosaic virus by the rusty plum	
Resistance in oats to bariey yellow dwarf virus (BYDV) ! Washington.	in 3203	aphid (Hysteroneura setariae Thos.). 2	295
ANT DISEASE TRANSMISSION Sources, transmission, symptomatology, and distribution	of	Hoja bianca virus transmission to rice plants by virulife ous vectors.	er- 298
wheat streak mosaic virus in texas.	2283	Root infection in relation to spread of Pseudomonas solanacearum.	322
	2291	Prolonging the motility and virus-transmitting ability of	r
Transmission, movement, and vector relationships of toba ringspot virus in soybean.	2302	Dipidium zoospores with chemicals.	324
Studies on the transmission of the virus causing big ver iettuce.		Effect of elevation, rainfall and temperature upon the in	nci- 2314
Additional data on corn virus in arkansas.	2378	Retention of pathogenicity of the oak wiit fungus in cui- ture.	- 232
Infection of sugarcane with mechanically transmissible ovirus.	corn 2379	Reference to Meiiiotus italica, a new host for Uromyces	236
Experiments on mechanical transmission of citrus viruses	s. 2383		244
			249
History of black shank in Georgia flue-cured tobacco in-	_	Piant diseases threatening Theobroma cacao in the ⊎estern Hemisphere. 2	n 254
ciuding spread of the disease in 1959. Transmission of hoja bianca of rice by the pianthonner.	2443	Occurrence of certain plant diseases in Kentucky in 1964.	255
Sogata cubana.	2446	Occurrence of certain plant diseases in Kentucky in 1963.	
The potential of magdalis spp. in the transmission of Ceratocystis uimi (Buis.) Moreau.	2459	2	255
Progress in citrus virology: mechanical transmission.			262
	2468	New techniques for plant disease surveys and for appraise	
Vector anomalies affecting efficiency in plant virus transmission.	2518		266-
A mechanicaliy transmissible virus latent in apple.	2594		280
Mechanicai transmission of a virus causing leaf mottling peanuts.	g of 2609	1964 Snap bean disease survey in the Pacific Northwest.	282
Pokeweed crinkie leaf, caused by a virus transmitted by der from desert shrubs in southern California.	dod- 2613	Effect of host components and sucrose on infection by potato yellow dwarf virus.	292
Spread of apple chlorotic leaf spot virus from tree to t	tree. 1 2655		233
Leaf symptoms of tobacco ringspot virus infections after mechanical inoculation on different plant structures.		Cold-induced dormancy and its reversal in uredospores of Puccinla graminis var. tritici.	320
	1		
non-transmission of certain stramberry viruses by nemato	2669	detection of Ustilago nuda (Jens) Rostr. in barley	ne 257
Rapid spread of mottle and mild yellow-edge viruses into hybrid strawberry selections.	2672		
	Fusarium oxysporum f. lycopersici. An evaluation of the Cucurbita for scab resistance. Polyphenoloxidase activity in cacao selections showing able resistance to 29 additional strawberry varieties selections to Verticilium, 1959. The inheritance of powdery elidew resistance in cabbage Sources of resistance to the coupea yeliow mosaic virus Sources of resistance in safflower. Species of Fusarium found associated with wilting of to varieties resistant to F. oxysporum in Israel. Nature of resistance in certain citrus rootstocks to ci- nematode. Systemic acquired resistance against tobacco mosaic viru- resulting from localized infections by Thielaviopsis basicole in tobacco leaves. Resistance in oats to barley yellow dwarf virus (BYDV) vashington. ANT DISEASE TRAMSHISSION Sources, transmission, symptomatology, and distribution wheat streak mosaic virus in texas. Transmission, movement, and vector relationships of tob- ringspot virus in soybean. Studie on the transmission of the virus causing big ve- lettuce. Additional data on corn virus in arkanses. Infection of sugarcame with mechanically transmissible vi- virus. Experiments on mechanical transmission of citrus viruse Differential transmission of nineteen variations of str- berry motile virus by Aphis gossypil Glover. History of black shank in Georgis flue-cured tobacco in cluding spread of the disease in 1959. Transmission of hoja blanca of rice by the planthopper, Sogata cubana. The potential of magdalls spp. in the transmission of Ceratocystis ulai (buis.) Moreau. Progress in citrus virology: mechanical transmission. Vector anomalies affecting efficiency in plant virus transmission. A mechanicaliy transmissible virus latent in apple. Mechanical incursission of a virus causing leaf mottlin peanuts. Pokeweed crinkie leaf, caused by a virus transmitted by der from desert shrubs in southern California. Spread of apple chiorotic leaf spot virus infections after mechanical inocuistion on different plant structures. Non-tr	An evaluation of the Cucurbit for scab resistance. 2655 Polyphenoloxidase activity in cacao selections showing varia- 2019 Actions to Perticulium, 1959. 2019 Field resistance of powdery sildew resistance in cabbase. 2019 Sources of resistance to the coupes yellow nosaic virus. 2019 Sources of resistance in safflower. 2019 Sources of rust resistance in safflower. 2019 Sources of rust resistance in cartain citrus rootstocks to citrus resistance in oats to barley yellow dwarf virus (BVDV) in 2010 Resistance in oats to barley yellow dwarf virus (BVDV) in 2010 Resistance in oats to barley yellow dwarf virus (BVDV) in 2010 Resistance in oats to barley yellow dwarf virus (BVDV) in 2010 Resistance in oats to barley yellow dwarf virus (BVDV) in 2010 Resistance in oats to barley yellow dwarf virus (BVDV) in 2010 Resistance in oats to barley yellow dwarf virus (BVDV) in 2010 Resistance in oats to barley yellow dwarf virus (BVDV) in 2010 Resistance and resistance in texts. 2010 Fransfission, swptomatology, and distribution of virus in soybean. 2010 Resistance and the aster yellows virus to barley 2010 Transfission of the aster yellows virus to barley. 2011 Transfission of suparcane with mechanically transfissible corr 2015 Experiments on mechanical transfission of citrus virus. 2020 Differential transfission of nineteen variations of strat- 2020 Resistance in citrus virology: mechanical transfission of 2020 Resistance in citrus virology: mechanical transfission of 2020 Resistance in citrus virology: mechanical transfission of 2020 Resistance in citrus virology: mechanical transfission of 2020	 Fuszion supporter F. (Spöpersici. Fuszion F. (Spöpersici.

PLANT EXTRACTS

- PLANT EXTRACTS The extraction of viruses from fruit tree petais. 2884
- PLANT GALLS Loss of gall-inducing capacity on cacao, when Calonectria rigidiuscula passes from the conidiai (Fusarium) stage Loss through the perfect (ascospore) stage. 2540

Predisposition to cacao knob gall ln wounds where flowery 2541

A gall disease of cacao and mango ln Venezuela caused by 2645 Caionectria rigidiuscula.

PLANT GENETICS

Stripe rust resistance of Suwon 92 and its relationship to several morphological characteristics in wheat. 2254

Inheritance of resistance in barley to barley yellow dwarf. 2380

A second independent gene in blue lupine conditioning resistance to Stemphyllum solanl. 2424

Seasonal prevalence of stoion-rotting fungi in 24 lines of 2492

Reaction of tomato varieties and breeding lines to Fusarium oxysporum f. lycopersici race l. 251

new type of resistance in corn to Helminthosporium tur-2533 cícum.

Genetic control of the host-parasite relationship in wheat powdery miidew. 2754

The inheritance of powdery mlidew resistance in cabbage. 2909

PLANT GEOGRAPHY

Prevalence and distribution of pathogenic races of piricularia oryzae in the U. S. 3189

PLANT GRAFTING

Root grafting, a potential source of error in apple index 2482 ing.

The importance of root grafts in oak wilt spread in mlssouri 2570

Effectiveness of Vapam in preventing root graft transmission of the dutch eim disease fungus. 2702

PLANT GROWTH INHIBITORS

Growth inhibition and mortality in papaya seedlings result-ing from papaya tissue incorporated in the soil. 269 2697

An antagonistic variant of Corynebacterium insldiosum and some properties of the lnhibltor. 2705

Effect of some plant growth-retarding compounds on three 2863 fungal diseases and one viral disease.

PLANT HOST

Melifotus italica, a new host for Uromyces striatus. 2623 PLANT HOSTS Notes on the ecology and host specifity of Microlarinus iareynil and M. lypyrlformis (Coieoptera: CurculionIdae and the biological controi of puncture vine, Tribulus Curculionidae)

1993 terrestris.

Host-range studles with the sweetclover weevil and the 2018 sweetclover aphld.

Wild host plants of the corn earworm and the tobacco budworm in eastern North Carolina. 2022

Host preference for oviposition by the spruce budworm in the Lake States. 2230

Tobacco mosaíc virus ln Nicotiana giauca. 2290

Resistance in Triticum vuigare to infection by Erysiphe sp. tritlcl as influenced by the stage of develgraminis f. opment of the host plant. 2324

Reference to Melilotus Italica, a new host for Uromyces 2363

PAGE 124

A new host for Fomes annosus, Polyporus schwelnitzii and Fomes pini. 2367

Additional data on corn virus in arkansas. 2378

Influence of temperature on Inlation of crown gail in woody

New hosts for broom-causing fungi in the Southwest. 2626

Some previously unreported hosts of Armliiaria meilea in Californla.

The occurrence and transmission of maize d⊮arf mosaic in 2777 Virginla.

Cultural type of Verticlllium aibo-atrum in New Mexico. 2838

Host range and testing of Lotus species for disease resis-tance to Phomopsis blight of birdsfoot trefoil. 2899

Additional hosts of Diplodia tumefaciens (Shear) Zaiasky 2950 (>Macrophoma Tumefaciens Shear).

Arrowweed, Pluchea sericea, on the Colorado River is a host for root-knot nematodes. 3070

PLANT INJURIES The coefficient of expansion of wood in relation to frost 2241 cracks.

Sun scald of corn in Wisconsin in 1961. 2242

Low temperature injury as a contributing factor in Cyto-spora invasion of plum trees. 2510

Observations on new or unusual diseases of highbush biveber 2765 rv.

Apleal necrosis in ornamental foliage plants caused by rapid temperature changes.

Reduction of frost injury in cranberries by fungicide treatments.

PLANT INTRODUCTION

Reactions of plant introduction fines of Plsum sativum to aifalfa mosalc, clover yeilow mosalc, and pea streak vlrus es, and to powdery miidew. 24 2428

The influence of environmental stress on the cacao tree in determining the feeding sites of cacao thrips, Selenothrips rubrocinctus (Glard), on leaves and pods. 297 2973

PLANT METABOLISM Biological activity of the golden nematode hatching factor influence on Aspergilius awamori metabolism. 3211

PLANT MORPHOLOGY Stripe rust resistance of Suwon 92 and its relationship to several morphological characteristics in wheat. 22 2264

Some morphological and physiological fcatures of Clementine mandarin trees affected by cachexea. 2551

Morphology, taxonomy, and sexuality of the ascogenous stages of two Colletotrichum spp. that attsck cucurbits. 2552

Morphology and physiology of Helminthosporium victoriae and

2938 related species

PLANT MUTATION Induced mutation and cytological investigations in Hel-minthosporium oryzae. 3206

PLANT NEMATODE RESISTANCE

sourceptibility of some species and varieties of Citrus and some other rutaceous plants to the citrus nematode. J0 .1010

3029 Susceptibility of bluegrass to root-knot nematodes.

Susceptibility of jute strains to four root-knot nematodes (Meloidogyne spp.) in Eastern Nigeria. 30 3073

PLANT NEMATODES

Nematodes associated with citrus trees infected by four vi ruses and comments about nematode distribution in Fiorida. vi-2237 citrus groves.

Chemothcrapeutic action of dimethoate against a root-knot nematode in greenhouse tomato plants. 2507	
Ingress of Pratylenchus penetrans into alfalfa roots in relation to soll moisture content. 2573	Influence of nutrition and soil molature on development of Corticium red thread of Penniawn and Rainier red fescues. 2
Control of root-lesion nematode, Pratylenchus penetrans, on narcissus.	
Nematodes associated with the decline of azaleas in Wisconsin. $$301\end{tabular}$	PLANT PEST RESISTANCE Varietal resistance to seediing disease in cotton. 2442
Cccurrence, parasitism, and pathogenicity of nematodes associated with cranberry. 301:	
Citrus nematode on American persimmon in Israel. 301	7 Resistance of sweet corn varieties to the fall armyworm, Laphygma frugiperda. 2962
Studies of the host range of Meloldogyne incognita acrita. 301:	
Seasonal population variations of Pratylenchus penetrans in and about strawberry roots. 3021	alfalfa to the spotted alfalfa aphid and pea aphid. 2976
Decurrence of plant-parasitic nematodes in citrus blight) 511k balling and other factors associated with resistance of corn to corn earworm. 2984
areas. 302	7 Rating dent corn for resistance to rice weevlis. kirk, v m. 2985
Nematodes on raspberries in the eastern United States. 3030	
Aspects of the host-parasite relationship of nematodes associated with woody ornamentals. 303	7
Some consequences of a quantitative theory of nematode-root relations.	Some chemical requirements for the growth and sporulation of Aiternaria tomato. 2274
Stunt of small grains, a new disease caused by the nematode Tylenchorhynchus brevidens. 304	Combined relation of plant maturity, temperature, and soil moisture to charcoal stalk rot development in grain sorghum. 1
Role of certain plant-parasitic nematodes in infection of tomatoes by Pseudomonas solanacearum. 3042	Relative severity of legume viruses in peas measured by 2 plant growth reduction. 2427
An attempt to control root-knot nematode with Dactylaria thaumasia and Arthrobotrys arthrobotryoides. 304-	Dvergrowth in Malayan crop plants following infection by A Fusarium solani and F. decemcellulare. 2476
Elimination of nematodes from nursery plants by chemical bare-root dips. 3047	Some morphological and physiological features of Clementine 7 mandarin trees affected by cachexea. 2551
Effects of 7 nematode species on 10 cotton selections.	Infection, growth rate, and competitive ability of Fomes 8 annosus in inoculated Pinus echinata stumps. 2607
Significance of potassium fertilization in nematode infester cotton fields. 305	
A critical method for evaluating tolerant levels in nema- tized host plants. 305	Some physiological properties of leaves and bark of psorosis 5 — Infected Valencia orange trees. 2680
Potentially important plant-parasitic nematodes present in established orchards of newly-reclaimed sandy areas of the United Arab Republic. 3053	Morphology and physiology of Heiminthosporium victoriae and related species. 2938
Greenhouse studies on the control of root-knot nematodes on Hydrocotyle sibthorpiodes. 3051	
Interaction of Heterodera glycines and Meloidogyne incog- nita on soybeans. 3055	A critical method for evaluating tolerant levels in nema- tized host plants. 3055 9
Dccurrence of Xiphinema americanum Cobb in some Saskat- chewan solls. 3064	Changes in plant growth with chemicals used as soll fuml- gants. 3186
Root-knot nematode on kenaf in Guatemala. 306	Growth-regulating properties of deuterated 2,4-dichloro-
Parasitic nematodes on Oloscorea in Guatemala. 3064	
Wheat grain losses caused by nematodes, 305	Dipidium zoospores with chemicals. 3245
Orench treatment of roses in containers for root-lesion ne- matode disease. 3063	PLANT PROTECTION Protection of wheat seed with diatomaceous earth, 3093 5
Parasitic nematodes on Oloscorea spp. in eastern Nigeria. 3074	PLANT REGULATORS Effects of Etamycin upon seedling growth and chlorophyll
Population dynamics of nematodes in cranberry solls. 307	
A simple substitute for a Baermann funnel. 328	
LANT NUTRITION Effects of nutrition on the chlorotic dwarf disease on eastern white pine. 2399	Effect of plating medium and incubation temperature on the growth of fungi in soll-dilution plates. 3228
Nutritional requirements of Aphanomyces eutelches and its	5 Growth-regulating properties of deuterated 2,4-dlchloro- phenoxyacetic acid. 3243
	PACE

3069

PLANT REPOSITORIES	
PLANT REPOSITORIES Release of virus-indexed Prunus budwood from the interreg- lonal repository. 2437	PLATANUS New sycamore canker.
PLANT RESIDUES	PLATANUS OCCIDENTALIS New sycamore canker.
Effects of soll temperature and selected crop residues on the development and severity of Fusarium root-rot of bean. 2644	PLATANUS RACEMOSA A species of Clitocyb sycamore in Californi
PLANT RESISTANCE Effects of pea aphid on blackstem soverlty in alfalfa. 3190	PLUCHEA SERICEA Arrowweed, Pluchea se host for root-knot nc
PLANT SENESCENCE Dak loaf age and susceptibility to Cronartium fusiforme. 2842	PLUMERIA ACUTIFOLIA Cercospora plumerlae States.
PLANT TAXONOMY Morphology, taxonomy, and sexuality of the ascogenous stages of two Colletotrichum spp. that attack cucurbits. 2552	PLUMS Flrst year effects of frult and forest tree
Differentiation of Ustilago hordel races on several media. 3230	Low temperature injur spora invasion of plu
PLANT TEMPERATURE Stewart s disease: expected development on corn in illinois in 1961. 2315	Blossom bilght and gr pium caused by Botryt
Low temperature injury as a contributing factor in Cyto- spora invasion of pium trees. 2510	Pium rusty blotch In
Rhizopus rot of peaches as affected by postharvest tempera- ture and moisture. 2830	The occurrence of apr lfornla.
Cold-induced dormancy and its reversal in uredospores of Puccinia graminis var. tritici. 3202	POA Susceptibility of blu
Apical necrosis in ornamental foilage plants caused by rapid temperature changes. 3221	Effectlyeness of inse grass lawns.
Effect of piating medium and incubation temperature on the growth of fungl in soll-dilution piates. 3228	POA PRATENSIS The use of dimethyl s cides for controiling ky bluegrass.
PLANT TRANSLOCATION Translocation and titer increase studies of three pea virus isolates. 2769	Damage to turfgrasses duced by Marasmlus or
Difference in the translocatabliity of tobacco ringspot and southern bean mosalc viruses in bean. 2808	Varletal resistance t
PLANTATIONS Paxillus atrotomentosus causes brown root rot in dead jack plne in plantations in wisconsin. 2384	Varietal reaction of spot (Septoria macrop
PLANTHOPPERS Transmission of hoja bianca of rice by the planthopper,	Urea, an effective tr sis.
Sogata cubana. 2446 PLANTING	POD ROT Poiyphenoloxidase act able resistance to Ph
Nuceliar Balaninha orange as top in a rootstock-fertiliza- tion-spacing experiment, 2780	POD ROT (COWPEAS) Choanephora pod rot o
PLANTING DATE European corn borer damage to sweet corn as affected by the date of planting. 2967	PODOSPHAERA OXYACANTHAE Powdery mlidew on pea
PLANTS Separation of an antigenic plant protein from preparations of plant viruses. 2257	POGONOMYRMEX OCCIDENTAL Individuai colony con Pogonomyrmex occident
Influence of transient capillaries on the enzymatic degrada- tion of plant cell wails. 3207	Control of the wester talls, with polsoned
PLASMODIOPHORA &RASSICAE WOR. Testing crucifers for resistance to clubroot in New Hamp- shire. 2345	POISONING Toxlcologicai studies Prodenia litura. III. the stomach-polsoning
PLASMOPARA HALSTEDII Plasmopara halstedil and other diseases on Dimorphotheca. 2624	iarvae. POLYBUTENE
PLASTIC GROWTH POUCHES Use of disposable plastic growth pouches in phytopathologi- cal research. 3287	Control of leaf mold a polybutene emulsion POLYETHYLENE
PLASTICS	Incubation of soll an for improved recovery

PLATANUS RACEMOSA A species of Clitocybe associated with declining oak and sycamore in California. 2665
PLUCHEA SERICEA Arrowweed, Pluchea sericea, on the Colorado River is a host for root-knot nomatodes. 3070
PLUMERIA ACUTIFOLIA Cercospora plumeriae Chupp- A new report for the United States. 2790
PLUMS First year effects of 10 selected Cytospora isolates on 20 fruit and forest tree species and varieties. 2508
Low temperature injury as a contributing factor in Cyto- spora invasion of plum trees. 2510
Blossom bilght and green fruit rot of aimond, apricot and pium caused by Botrytis cinerea. 2711
Pium rusty blotch in California. 2748
The occurrence of apricot ring pox virus in pium in Cal- lfornia. 2906
POA Susceptibility of bluegrass to root-knot nematodes. 3029
Effectiveness of insecticides against white grubs in blue- grass lawns. 3163
POA PRATENSIS The use of dimethyl sulfoxide (Dmso) with certain fungi- cides for controiling Helminthosporium diseases of Kentuc- ky bluegrass. 2297
Damage to turfgrasses caused by cyanogenic compounds pro- duced by Marasmius oreades, a fairy ring fungus. 2419
Varietal resistance to flag smut in Kentucky biuegrass. 2448
Varietal reaction of Kentucky bluegrass to Septoria leaf spot (Septoria macropoda). 2449
Urea, an effective treatment for stripe smut on Poa praten- sis. 2639
POD ROT Poiyphenoloxidase activity in cacao selections showing vari- able resistance to Phytophthora pod rot. 2894
POD ROT (COWPEAS) Choanephora pod rot of cowpeas. 2877
PODOSPHAERA OXYACANTHAE Powdery mlidew on peach. 2580
POGONOMYRMEX OCCIDENTALIS Individual colony control of the western harvester ant, Pogonomyrmex occidentalis. 2992
Control of the western harvester ant, Pogonomyrmex occiden- talls, with poisoned balts. 3130
POISONING Toxicological studies on the Egyptian cotton leafworm, Prodenia litura. III. A modified technique for testing the stomach-poisoning effect of insecticides of leaf-feeding larvae. 3175
POLY8UTENE Control of leaf mold in a heavily infected tomato crop with a polybutene emuision. 2321
POLYETHYLENE Incubation of soll and root samples in polyethylene plastic for improved recovery nematodes. 3069

Polyethyiene bags for the study of soli microorganisms. 3274

3861

2881

PLASTICS Incubation of soil and root samples in polyethylene plastic for improved recovery nematodes. 3069

POWDERY MILDEW (POTATOES)

POLYHEDROSES Paraffinic and maphthenic oil fractions in combination with dDT and a Hellothis virus for corn earworm control. 3181	POTATOES Occurrence of iate biight disease
POLYOL DEHYDROGENASES Enzymatic pathways in the formation of sorbitoi and glycerol	Screening of potato fungicides in
in the diapausing egg of the slikworm, Bombyx mori - I. on the polyol dehydrogenases. 2073	Pathogenicity and population trend trans on potato and corn.
POLYPORUS Polyporus spp. assoclated with wood dccay of living peach	Control of potato mosaic diseases
trees in south carolina.	Aifaifa mosaic virus ln white clov
POLYPORUS BETULINUS The fauna of Polyporus betulinus (Builiard) Fries (Basidiomycetes: Polyporacea) in Gatineau Park, Quebec.	Potato blight as viewed in the ear callfornia.
2027	Powdery mlidew of potato in utah.
POLYPORUS SCHWEINITZII A new host for Fomes annosus, Polyporus schweinitzii and Fomes pini. 2367	Weather map anaiysis — an aid in f biight.
PONCIRUS TRIFOLIATA RAF.	Controi of potato aphids with syst
Quantitative determination of the free amino acids and amides in roots and leaves of healthy and exocortis-infected Citrus sinensis Osbeck on Poncirus trifoliata Raf. 2412	The use of systemic lnsectlcides f ieafhopper, Empoasca fabae, and ef
POPP S TECHNIQUE Modification and adaptation of Popp s technique to routine detection of Ustilago nuda (Jens) Rostr. In barley	The effect of storage temperature of potato seed pieces.
embryos. 2578	Relation of chlorogenic acid and f roots to infection by Verticilium
POPULATION Origin of populations of the six-spotted leafhopper, Macro- steles fascifrons, in Anoka County, Minnesota. 2019	POTENTIATION Programmed ceil death- I. Endocrin breakdown of the intersegmental mu
POPULATION (NEMATODES) Some effects of chemicai amendments and culturai conditions on population ievels of Xiphinema americanum. 3043	POTENTILLA
POPULATION STATISTICS A study of the age composition of Anopheles gamblae Glles and A. funestus Giles in north-eastern Tanzanla. 2005	Infection of Potentilia by Xanthom Pathogenicity of Phytophthora frag tilla species.
Seasonal abundance and dlurnal varlations in activity of some Stomoxys and Tabinidae in Uganda. 2008	POWDERY MILDEW Reactions of plant introduction ii
Pathogenicity and population trends of Pratylenchus pene- trans on potato and corn. 2392	aifalfa mosalc, ciover yeilow mosa es, and to powdery mildew.
POPULUS	Effect of some plant growth-retard fungai dlseases and one viral dise
Hypoxylon canker impact on aspen. 2270	POWDERY MILDEW (APPLES)
Life cycle and host range of Hypoxylon prulnatum and its pathogenesis on poplars. 2301	New materials for the control of a
Hypoxylon canker of aspen in Arizona. 2522	Evaluation of fungicides for contr well as other diseases, of apple.
POPULUS DELTOIDES Blackstem of cottonwood. 2472	POWDERY MILDEW (CA88AGE) The Inheritance of powdery mildew
POPULUS TREMULOIDES Hypoxylon canker of aspen in Arizona. 2522	The Inner Itance of powdery arritew
Decay of wood by species of the Xylariaceae. 2663	POWDERY MILDEW (CANTALOUPES) A new host for the cucurbit powder
Developmental morphology of Hypoxylon prulnatum in bark of quaking aspen. 2782	POWDERY MILDEW (GRAPES) Grape mildew as viewed in the eari
PORIA WEIRII Some probable relationships of soil fungi and zone lines to survival of Poria weirii in buried wood blocks. 2704	californla. POWDERY MILDEW (LETTUCE) Relation of microclimates to the d mildew of lettuce.
PORTHETRIA DISPAR Some effects of gamma irradiation on the gypsy moth, Por- thetria dispar. 2104	POWDERY MILDEW (MUSKMELONS) Genetics of resistance to powdery on-
POTASSIUM Significance of potassium fertilization in nematode infested cotton fields. 3053	POWDERY MILDEW (PEACHES) Powdery mildew on peach.
Influence of nitrogen and potassium on susceptibility of Chrysanthemum morifolium to 8otrytis cinerea. 3224	POWDERY MILDEW (PLANTS) Inheritance of powdery mildew resi curbita.
POTASSIUM GI88ERELLATE Irlsh potato seed plece treatment with various chemicals. 3241	POWDERY MILDEW (POTATOES) Powdery mildew of potato in utah.

POTATOES Occurrence of late blight disease of polatoes in Mont	ana. 2261
Screening of potato fungicides in 1959.	2333
Pathogenicity and population trends of Pratylenchus p trans on potato and corn.	ene- 2392
Control of potato mosaic diseases by exclusion.	2484
Aifaifa mosaic virus in white clover and potatoes.	2490
Potato blight as viewed in the early agricultural pre callfornia.	ss of 2834
Powdery mlidew of potato in utah.	2885
Weather map analysis — an aid in forecasting potato i blight.	ate 2911
Control of potato aphids with systemic insecticides.	2991
The use of systemic insecticides for control of the p ieafhopper, Empoasca fabae, and effect on potato yiel	
The effect of storage temperature and other factors o of potato seed pieces.	n decay 3087
Relation of chlorogenic acid and free phenois in pota roots to infection by Verticillium aibo-atrum.	to 3239
POTENTIATION Programmed ceil death- I. Endocrine potentiation of t breakdown of the intersegmental muscies of silkmoths.	he 2149
P OTENTILLA Infection of Potentilia by Xanthomonas fragarlae.	2585
Pathogenleity of Phytophthora fragariae to certain Po tiila species.	ten- 2681
POWDERY MILDEW Reactions of plant introduction iines of Pisum sativu aifalfa mosalc, ciover yeilow mosaic, and pea streak es, and to powdery mildew.	
Effect of some plant growth-retarding compounds on th fungai diseases and one viral disease.	ree 2863
POWDERY MILDEW (APPLES) New materials for the control of apple powdery mildew	2371
Evaluation of fungicides for control of powdery milde well as other diseases, of apple.	w, as 2579
POWDERY MILDEW (CA88AGE) The inheritance of powdery mildew resistance in cabba	ge. 2909
POWDERY MILDEW (CANTALOUPES) A new host for the cucurblt powdery mildew fungus.	2317
POWDERY MILDEW (GRAPES) Grape mildew as viewed in the early agricultural pres california.	s of 2832
POWDERY MILDEW (LETTUCE) Relation of microcllmates to the developement of powd mildew of lettuce.	ery 2806
POWDERY MILDEW (MUSKMELONS) Genetics of resistance to powdery mildew race 2 in mu on.	skmel- 2316
POWDERY MILDEW (PEACHES) Powdery mildew on peach.	2580
POWDERY MILDEW (PLANTS)	5000
Inheritance of powdery mildew resistance in the genus curbita.	Cu- 2772

PAGE 127

2885

POWDERY MILDEW (ROSA)

POWDERY MILDEW (ROSA) Comparison of standard fungicides recommended for control of powdery mildew of roses. proteinasc. PROTEINS Separation of an antigenic plant protein from preparations Systemic control of powdcry mildew of roses (Sphacrotheca pannosa) with the semicarbazone dcrivative of Actl-dionc. of plant viruses. 2565 PRUNES study of the European fruit lecanium scale, Lecanium Systemic control of powdery mildew of roscs, caused by the fungus Sphaerotheca pannosa, with derivatives of cyclohex Inide. corni, on prune. 2566 PRUNUS The importance of green ring mottic virus detection in a prunus virus indexing program. 243B POWDERY MILDEW (SAFFLOWER) The susceptibility of safflower varieties and species to several follage diseases in Israel. 2282 The host range of the virus of Lambert mottie of cherry, a progress report. 2632 Powdery mlidew of safflower. 2951 PRUNUS AMYGDALUS POWDERY MILDEV (VHEAT) Resistance in Triticum vulgare to infection by Erysiphe graminis f. sp. tritici as influenced by the stage of devel-Crown gail disease in Israel. PRUNUS BUDWOOD Release of virus-indexed Prunus budwood from the interreg-ional repository. opment of the host plant. 2326 The occurrence of powdery mildew of wheat in the Pacific 2584 PRUNUS DOMESTICA Heterogeneity in the Norka differential wheat variety to a new race of Erysiphe graminis tritici. 2721 fungi. Genetic control of the host-parasite relationship in wheat PRUNUS SERRULATA powdery mildew. 2754 PRATYLENCHUS PENETRANS Pathogenicity and population trends of Pratyienchus pene trans on potato and corn. PSEUDOMONADS 2392 in the tobacco leaf. Ingress of Pratylenchus penetrans into alfalfa roots in 2.572 relation to soli moisture content. Control of root-iesion nematode, Pratylenchus penetrans, on 3006 Seasonal population variations of Pratylenchus penetrans in and about strawberry roots. 3020 PSEUDOMONAS MARGINATA PRATYLENCHUS SCRIBNERI Reaction of white clover and five other crops to Pratylen-chus scribneri. 30 lus. 3049 PSEUDOMONAS PHASEOLICOLA PRATYLENCHUS SPP. Response of root-knot-resistant tobaccos to the nematode root disease complex caused by Pratylenchus spp. and Me-loidogyne incognita acrita. 3035 PRATYLENCHUS VULNUS Drench treatment of roses in containers for root-lesion ne matode disease. 3065 PSEUDOMONAS SOLANACEARUM PRATYLENCHUS ZEAE Pratylenchus zeae found on corn, milo, and three suspected new hosts in California. 3009 Role of certain plant-parasitic nematodes in infection of tomatoes by Pseudomonas solanacearum. 3 PRECIPITATION effect of temperature, relative humidity and precipitation on peanut leafspot. 2554 PRECIPITIN TEST Feeding habits of one Anopheline and three Culicine mosquitoes by the precipitin test. solanacearum. 2210 PSEUDOMONAS SPP. PREDACEOUS INSECTS #EDACEOUS INSECTS Collection of predaceous lady beetle, Hyperaspis trilin-1993 eata, in Barbados, and shipment to Hawaii. PSEUDOMONAS SYRINGAE The natural enemies of some banana insect pests in Costa 2009 Rica. States. Toxicity of insecticides to a Coccinellid predator of the 3182 PSEUDOPEZIZA MEDICAGINIS PRINCE EDWARD ISLAND Insect survey of forage crops in Prince Edward Island. PSEUDOTSUGA MENZIESII 2036 PROTEINASES PSILOTUM NUDUM Studles on the proteolytic activity of the beetles Temebrio and Triboiium. 2060 Studies on the digestive proteinase of clothes moth jarvae (Tineola bisseifielia)-I. Partial purification of the

Influence of location on invasion of dry-ice-kilied tissues on Italian prune trees by naturally disseminated Cytospora The epinasty virus reaction of Kwanzan and Shiro-fugen flowering cherry. Hypersensitive reaction induced by phytopathogenic bacteria 597 PSEUDOMONAS APTATA So-called beet latent virus is a bacterium. 2944 PSEUDOMONAS CICHORII (SWINGLE) STAPP A bacterial leaf spot of florists chrysanthemums, Chyrsanthemum morifolium. 26 2657 Control of bacterial scab and Fusarium corm rot of gladio-2712 Bacterial bilght of peas incited by Pseudomonas phaseolico ia (Surk) Dows. 24 2483 PSEUDOMONAS SAVASTANDI Systemic invasion of the host plant by the tumor-inducing bacterium, Pseudomonas savastanoi. 2735 The identification and persistence of an indigenous race of Pseudomonas solanacearum in soil in Georgia. 240 2402

Distribution and pathogenicity of strains of Pseudomonas solanacearum from virgin solis in Costa Rica. 3103 Root infection in relation to spread of Pseudomonas 3229 Gummosis and leaf spotting of sweet cherry, symptons associ-ated with bacterial infection. 2673 2673 Sacterial canker of stone fruits in the southeastern 2740

A method for screening alfalfa plants for resistance to Pseudopeziza medicaginis. 2439

Cytospora canker recurrence on Douglas-fir in Colorado. 2521

Gilociadium roseum (Link) Bainer on declining and dead stems of Psilotum nudum. 2543

PAGE 128 2178

2257

2904

2437

30 4 2

P	SOROSIS (CITRUS) Some physiological properties of leaves and bark of pson -infected Valencia orange trees.	osis 2680	PU
	Distribution and movement of psorosis and tristcza virus in citrus trees.	2719	ΡU
P	SDRDSIS (DRANGES) Detection of psorosis virus in leaves of sour orange by lodine test.	the 2408	DI
	Detection of psorosis virus infection in leaves of sour orange by the iodine test.	2409	ΡL
	Transmission of citrus viruses by dodder, Cuscata subin- clusa.	2915	
P:	ERIDIUM Bracken polsoning.	3159	PU
P	TERIDDPHYTA Review of the fern aphlds of North America with descriptions of a new species and a new genus.	2031	ΡU
P 1	TINUS VILLIGER Locomotor activity of the halry spider beetle at the sur of stored wheat.	face 2039	
	JCCINIA CARTHAMI Studles of tricarboxylic acid cycle intermediates in safflower infected with Puccinia carthami.	3200	PU
PL	ICCINIA CARTHAMI CDA. Sources of rust resistance in safflower.	2952	PU
	ICCINIA ERIANTHI Sugarcane rust in Tanganyika.	2914	PU
ગ	ICCINIA GRAMINIS Reaction of wheat seedlings to new isolates of wheat ste rust.	-m 2657	PU
	Stem rust resistance of the Ukraine oat and derivative	2800	
	Cold-induced dormancy and its reversal in uredospores of Puccinia graminis var. tritici.	3202	
	ICCINIA GRAMINIS TRITICI Physlologic races of Puccinia graminis tritici in Southe Korea.	2356	ΡU
	A long term experiment for preservation of uredlospores Puccinia graminis tritici in liquid nitrogen.	of 3233	PU
	CCINIA GRAMINIS VAR. TRITICI An extract produced by Helminthosporium sorokinlanum tox to Puccinia graminis var. tritici.	ic 2852	ΡY
	Freon-113 as a dispersal medium for urediospores of Pucc la graminis var. tritici.	in- 3237	ΡY
	ICCINIA HELIANTHI SCHW. Rust on sunflowers in the Mississippi Delta.	2376	ΡY
	ICCINIA HORDEI New pathogenic strains of Puccinia hordel among physiolo races identified in United states from 1959 through 1964		ΡY
ינ	CCINIA POLYSORA UNDERW. Occurrence of Puccinia polysora in illinois.	2532	
ינ	CCINIA RECONDITA The North American 1961 set of supplemental differentiai		ΡY
	wheat varieties for leaf rust race identification. Relative prevalence of NA61 races of Puccinia recondita	2362	ΡY
	in 1960 in Kansas and Oklahoma. An examination of vegetative recombination of urediospor	2564 e	ΡY
	color and virulence in mixtures of certain races of Puccinia recondita.	3193	PY
	ICCINIA RECOMDITA TRITICI The North American 1965 set of supplemental differential wheat varieties for identification of races of Puccinia condita tritici.		

PUCCINIA SURGHI SCHW. Occurrence of Puccinia polysora in illinois. 2532	2
PUCCINIA STAKMANII Preilminary studies on control of southwestern cotton rust- 2300	3
Obscrvations on cotton rust (Puccinia stakmanii) under	
severe disease conditions. 2837	,
PUCCINIA STRIIFORMIS Stripe rust resistance of Suwon 92 and its relationship to several morphological characteristics in wheat. 2264	j
Stripe-rust head infection in five Pacific Northwest wheats. 2758	3
PUCCINIASTRUM EPILOBII Pucciniastrum epiiobli on Fuchsia in Oregon. 2630)
PUERTO RICO Bacterial scab of tomato in Puerto Rico. 2739	,
Poinsettla scab-A new report for Puerto Rico. 2791	
Susceptibility of mative piper species to the collar-rot pathogen of black pepper in Puerto Rico. 2792	2
PULSE BEETLES Intergranular space as a limiting factor for the growth of pulse beetles. 2107	P
PUMPKINS An evaluation of the Cucurbita for scab resistance. 2855	ō
PUNCTURE VINE Notes on the ecology and host specifity of Microlarinus lareynil and M. iypyriformis (Coleoptera: Curculionidae) and the biologicai controi of puncture vine, Tribulus terrestris. 1993	3
PUPAE Tyrosinase in the silkworm during the pupation period. 2133	3
Physiology of sawfly metamorphosis I. Continuous re- spiration in diapausing prepupae and pupae. 2197	7
PUPAL CASES Collection of Neodiprion excitans sawfiy cocoons in tree bands. 3295	5
PUSTULES Effect of uredlospore concentration on determination of	
races of Uromyces phaseoll var, phaseoll. 2385	1
PYRENOCHAETA TERRESTRIS Pink root disease of onions in mendoza, argentina. 2598	3
PYRETHRUM Effectiveness of rotenone and pyrethrins when mixed with other chemicals for boll weevil control. 3153	3
PYRIDINETHIOL Effectiveness of mixtures of pyridinethiol derivatives and PCN8 (terrachior) for control of a complex of soll fungi. 3095	5
PYRUVIC ACID Effect of fungitoxic compounds on the permeablilty of yeast cells to the pyruvate ion. 3232	2
PYTHIUM The role of fungi in the peach repiant problem. 2523	3
PYTHIUM APHANIDERMATUM Pythlum pre-emergence damping-off of soybean in minnesota. 2327	,
PYTHIUM DE8ARYANUM Pythium pre-emergence damping-off of soybean in minnesota. 2327	,
PYTHIUM SPINDSUM Control of Pythlum root diseases with soil fungicides. 2865	5

PYTHIUM SPINOSUM

PYTHIUM SPP. PYTHIUM SPP. RADISHES The incidence of stem rots in tobacco transplants in rela-2720 tion to wireworm injury. Association of phycomycetous fungl with peach tree decline 2752 in Georgia PYTRIUM ULTINUM Pythium pre-emergence damping-off of soybean in minnesota. 2327 PYTOPHTHORA PALMIVORA Phytophthora canker of cacao in the Caroline Islands. 2949 QUANTITATIVE ANALYSIS Quantitative determination of the free amino acids and amides in roots and leaves of healthy and exocortis-infected Citrus sinensis Osbeck on Poncirus trifoiiata Raf. 2412 ry. QUARANTINE (PLANTS) A re-evaluation of the quarantine significance of Crypto-spora longispora Servazzi on imported seed of the Norfolk 2573 Island pine, Araucaria excelsa. QUEBEC The Trichoptera of St. Helen s Island, Montreal I.The species present and their relative abundance at light. 1999 OUEEN ANT The influence of the queen on brood rearing in ants of the 2064 genus Myrmica. QUEEN BEES Relation of semen volume to success in artificial insemination of queen honey bees. 2152 QUERCUS Retention of pathogenicity of the oak wilt fungus in culture. 2322 Oak wilt identified in Texas. 2397 The effect of conidial concentration on perithecial forma-2415 tion by the oak wilt fungus. The importance of root grafts in oak wiit spread in mis-2570 souri. QUERCUS AGRIFOLIA A species of Clitocybe associated with decining oak and sycamore in California. 2685 QUERCUS ALBA Symptoms in relation to infection pattern in white oak. 2319 QUERCUS NIGRA Oak leaf age and susceptibility to Cronartium fusiforme. 2842 QUERCUS RUBRA Decay of wood by species of the Xylariaceae. 2663 RADIATION Radiosterilation vs. chemosterilization in house flies and mosquitoes. 2192 Relation of radiation and temperature to the sporulation of Aiternaria tomato and other fungi. 2273 RADIOACTIVE CONTAMINATION Influence of gamma radiation dose rate on decay of citrus, 3197 pears, and peaches. RADIOACTIVE SUBSTANCES Penetration of excised apple cuticle by radioactive organic and inorganic compounds. 322 3220 RADIOACTIVE TRACERS Absorption, excretion, and metabolism of P32-labeled metepa by screw-worm and stable flies. 207 2072 P32-labeled semen for mosquito mating studies. 2084 Culture media for sporangial production in Phytophthora fragariae. Rearing and isotopic labeling of Fannia canicularis. 2100

Metabolic studies on the host-parasite complex of Albugo candida on radish. 2929 RADOPHOLUS SIMILIS Effectiveness of DBCP and fungicides for the control of Radopholus similis on citrus trees. 3068 RADOPHOLUS SIMILUS Attempts to improve the growth of Radopholus similis-in-fected citrus with under-tree drenches of Zinophos. 301B RAINFALL Effect of elevation, rainfall and temperature upon the inci-dence of corn diseases in Costa Rica. 2318 2318 Cavity spot disease of carrot and parsnip roots. 2480 Observations on new or unusual diseases of highbush blueber Observations on cotton rust (Puccinia stakmanii) under 2837 severe disease conditions. RANUNCULUS ASIATICUS Certain biological properties of a virus from Ranunculus asiaticus. 2514 RASP LEAF (CHERRIES) Tomato ring spot virus isolated from Eola rasp leaf of cherry in oregon. 2664 RASPBERRIES Filamentous viruses infecting fruit trees and raspberry and their possible mode of spread. 2332 Nematodes on raspberries in the eastern United States. 3030 RAY SPECK (CHRYSANTHEMUM) rot symptom associated with Stemphyllum ray speck 254B of chrysanthemum. RAY SPECK (GERBERA JAMESONII) Alternaria ray speck of Gerbera jamesonii. 2549 RED CLOVER D CLOVER Penetration and subsequent development of three fusarium 2352 Viruience of Rhizoctonia solani on alfalfa and red clover. 2353 Mechanism of wilting incited by Fusarium in red clover. 2354 Internal breakdown in crown of red clover. 2466 Green tomato fruits--a medium for inducing fruit rot and asexual sporulation with fungi isolated from clovers. 2592 Effects of Hypera nigrirostris, Hylastinus obscurus, and Sitona hispidula populations on red clover in southwestern Idaho. 3000 Effect of clover cyst nematode on growth of red and white 3016 clover. Effect of Heteroda trifoli on the growth of Trifoilum pratense and T. repens. 3205 RED RING (COCONUTS) The role of the palm weevil, Rhynochopphorus palmarum, a vector of red ring disease of coconuts. I. results of preliminary investigations. 2007 RED ROT (SUGARCANE) Studies on the disease cycle of red rot of sugarcane in 2426 Louisiana. RED STELE (STRAWBERRIES) D STELE (STRAWBERRIES) Pathogenicity of Phytophthora fragariae to certain Poten-2681

3217

DTCE		

REDPEPPERS (VEGETABLE)	RHIZOCTONIA SOLANI
A recently discovered unidentified foliar disease of pepp	
REFRIGERATION EQUIPMENT A long term experiment for preservation of urediospores o Puccinta graminis trittici in liquid nitrogen. 3	Viruience of Rhiz f 233
REGENERATION	Tests of soli fur trol of cotton da
RENIFORM NEMATODE The reniform nematode may be a serious pest of the sweet-	Fungicide toierar
RENIFORM NEWATODES New combinations of nematocides for control of reniform nematode of cotton. 3	Effect of PCN8 or field conditions
REPRODUCTION Autogeny in Aedes (Finlaya) togoi Theobald (Diptera,	Effect of pentact under fleid condi
	141 Rhizoctonia solar lates from cottor
	170 Long-term inhlbit 1,2-dibromo-3-chl
reference to Nauphoeta cinerea-I. first pre-oviposition	Adapted tolerance 190 zoctonia solani f
Hormonal control of respiratory metabolism during growth, reproduction, and diapause in female adults of Pyrrocoris apteris L. (Hemiptera). 2	RHIZOCTONIA SOLANI The effect of per 195
Differences in reproductive potential, feeding rate, and	RHIZOPUS SPP.
iongevity of boil weevils mated in the fail and in the fa and spring. 2	11 2,6-dichloro-4-ni 208 dump tank, the we
Mouiting and reproduction in the adult firebrat, Thermobi	of Rhizopus rot o
domestica (Packard) (Thysanura, Lepismatldae)-I. The	RHIZOPUS STOLINIFER 224 Rhizopus rot of p ture and moisture
Moulting and reproduction in the adult firebrat, Thermobi	
domestica (Packard) (Thysanura, LepismatidaeII. The reproductive cycles. 2	RHIZOPUS STOLONIFEF 225 2,6-dichloro-4-nl fruit rot of swee
	525 RHODE ISLAND Viruses of legumi
	223 RHODESIA Some aspects of 1
RHAGOLETIS POMONELLA Apple maggot emergence and seasonal activity in Wisconsin 2	040
Artificial diets for the apple maggot, Rhagoletis pomonel II. Reproductive potential. 2	170
RHIZOCTANIA SOLANI Influence of environment on disease of turfgrasses. 1.	RHODODENDRON Crown-gali diseas
effect of nutrition, pH, and soil moisture on Rhizoctonia	RHU8AR8 314 An apparently new
RHIZOCTONIA SOLANI KUHN Pectic enzymes associated with Rhizoctonia-infected tissu of bean. 3	RHYNCHOSPORIUM ORY2 es Leaf scald of ric 194
RHIZOCTONIA	RICE
An induced mechanism of tissue resistance to polygalactur ase in Rhizoctonia-infected hypocotyls of bean. 2	on- Hoja Bianca in El 293 Occurence of hoja
The role of fungi in the peach replant problem. 2	523 orizicola Muir, o
Rhizoctonia seed and root rot of avocado. 2	675 Relation of nitro iings infected wi
Rhizoctonia fruit rot of processing tomatoes. 2	811 Leaf scaid of rid
Effect of various herbicides on some soil fungi in cultur 3	
Stimulation of a new Rhizoctonia species by strawberry ro exudates.	
RHIZOCTONIA SOLANI KUEHN Rhizoctonia stem canker of tomatoes. 2	859 Rice diseases in
	A technique for 1

HIZOCTONIA SOLANI Effect of organic amendments and PCNB upon inoculum potential of Rhizoctonia solani in field soli, 2247

Viruience of Rhizoctonia solani on aifalfa and red clover. 2353

Tests of soli fungicides under uniform conditions for control of cotton damping-off caused by Rhizoctonia solani. 2730

Fungicide tolerance in Rhizoctonia solani influenced by temperature and serial transfer in fungicide-treated soli. 2262

Effect of PCN8 on isolates of Rhizoctonia solani under field conditions. 2016

Effect of pentachioronitrobenzene on Rhizoctonia solani under fleid conditions. 2817

Rhizoctonia solani: Physiologic specialization among isolates from cotton. 2818

Long-term inhibition of Rhizoctonia solani by a nematocide, 1,2-dibromo-3-chloropropane. 3007

Adapted tolerance to organic fungicides by isolates of Rhizoctonia solani from seedling cotton. 3216

RHIZOCTONIA SOLANI KUEHN The effect of pesticides on turfgrass disease incidence. 2641

2,6-dichloro-4-nitroaniline used in orchard sprays, the dump tank, the wet brusher and the hydrocooler for control of Rhizopus rot of harvested peaches. 3086

RHIZOPUS STOLINIFER (FR.) Rhizopus rot of peaches as affected by postharvest temperature and moisture. 2830

RHIZOPUS STOLONIFER 2,6-dichloro-4-nitroaniline effective against Rhizopus fruit rot of sweet cherries. 2724

Viruses of leguminous forage crops in Rhode Island. 2691

Some aspects of insecticidal and biological control of the wooily apple aphid, Erlosoma Lanigerum (Ham+) in rhodesla. 2965

Systates exaptus Mshl. (Col., Curculionidae) and related species as soil pests of maize in Rhodesia. 2993

Crown-gali disease on Rhododendron.

An apparently new root necrosis disease of rhubarb. 2696

RHYNCHOSPORIUM ORYZAE Leaf scald of rice, Rhynchosporium oryzae, in Costa Rica. 2504

ICE Hoja Bianca in El Saivador. 2267 Occurence of hoja bianca and its insect vector, Sogata orizicola Muir, on rice in Louisiana. 2285 Relation of nitrogen to disease development in rice seediings infected with Heiminthosporium oryzae. 2350

Leaf scald of rice, Rhynchosporium oryzae, in Costa Rica. 2504

Large inclusion bodies associated with virus diseases of rice. 2524

On the antigenicity of virus causing tungro disease of rice. 2556

Rice diseases in the Deita Area of Mississippi in 1959. 2561

A technique for laboratory evaluation of seed treatments to

PAGE 131

2413

CREEE NEEAPHOPPEN control rice seed rot. 2017 Laboratory tests of rice seed treatments in 1964 for control 2013 Creating of rice leaves in relation to varietal surception 2013 Structure of rice leaves in relation or yace of rice in Maylay 2013 Cashopper transmission of tungro disease of rice in Maylay 2013 Cashopper transmission of tungro disease of rice in Maylay 2013 Cashopper transmission of tungro disease of rice in Maylay 2013 Cashopper transmission of tungro disease of rice in Maylay 2013 Cashopper transmission of tungro disease of rice in Maylay 2013 Ring callus as a path for non-graft transmitted Acglopsis 2013 Chee CALUS 2016 Ring callus as a path for non-graft transmitted Acglopsis 2016 Chee CALUS 2016 Ring callus as a path for non-graft transmitted Acglopsis 2016 Chee CALUS 2016 Ring callus as a path for non-graft transmitted Acglopsis 2016 Chee CALUS 2016 Chee CALUS 2016 Chee SPOT (CARNATIONS) 2016 Chee SPOT (CANATIONS) 2016 Che splasty virus reaction of Acgropa spla da sour		300011
Laboratory tests of rice seed treatments in 1964 for control of seed rot. 2013 Structure of rice leaves in relation to varietal suscepti- billity to rice blast, Piricularia oryzaw. 2013 Virus nature of penyakit merah disease of rice in Maylay- leafhopper transmission of tungro disease of rice. 2775 Oowny mildew of rice in arkansas. 2869 Prevalence and distribution of pathogenic races of piricularia oryzaw in the U.S. 3169 Rice GREEN LEAFHOPPER Leafhopper transmission of tungro disease of rice. 2775 Ring Callus Ring callus as a path for non-graft transmitted Aeglopsis chevalisti vein-clearing virus. 2013 Ring Callus as a path for non-graft transmitted Aeglopsis chevalisti vein-clearing virus. 2013 Ring Callus as a path for non-graft transmitted Aeglopsis chevalisti vein-clearing virus. 2013 Ring Callus as a path for non-graft transmitted Aeglopsis chevalisti vein-clearing virus. 2013 Ring Callus as a path for non-graft transmitted Aeglopsis chevalisti vein-clearing virus. 2013 Ring CALUS Ring CALUS Ring CALUS Ring CALUS Ring CALUS Ring CALUS Ring CALUS Ring CALUS Caffee Careas Ring CALUS Ring CALUS Chevalisti of apricot ring pox virus in plum in Cal- ifornia. 2905 Ring SPOT (CARNATIONS) Chromatographic purification of the carnation ringspot, car- nation motitle, and tobacco necrois viruses. 2713 Ring SPOT (CARNATIONS) Chromatographic purification of necroile ring spot and sour cher- ry yelious viruses of stone fruits. 2458 Ring SPOT (FRUNS) The replid determination of necroile ring spot and sour cher- ry yelious viruses of stone fruits. 2458 Ring SPOT (PRUNUS) The replid determination of necroile ring spot and sour cher- ry yelious viruses of stone fruits. 2459 Ring SPOT (PRUNUS) The replid determination of necroile ring spot and sour cher- ry yelious viruses of stone fruits. 2459 Ring SPOT (PRUNUS) The replid determination of necroile ring spot and sour cher- ry yelious viruses of stone fruits. 2459 Ring care cherces in the transmission of tobacco ringspot vi	CE GREEN LEAFHOPPER	
of seed rot. 2013 Structure of rice leaves in relation to varietal suscepti- bility to rice blast, Piricularia organs. 2003 Virus nature of penyakit merah disease of rice in Maylay- sia. 2723 Leafhopper transmission of tungro disease of rice. 2775 Owny sildew of rice in arkansas. 2863 Prevalence and distribution of pathogenic races of piricularia organe in the U. S. 3189 RICE GREEN LEAFHOPPER Leafhopper transmission of tungro disease of rice. 2775 Ring Callus as path for non-graft transmitted Aeglopsis chevalieri vein-clearing virus. 2719 RING POX (APRICOTS) The association of the virus diseases twisted leaf of cherry and ring pox of apricot. 2863 RIME POX (PLUMS) The occurrence of apricot ring pox virus in plum in Cal- ifornia. 2905 RIME SDOT (CANATIONS) Chromotographic purification of the carnation ringspot, car- nation mottle, and tobacco necrosis viruses. 2903 RIME SDOT (CRUAT) The off canamission of coffee ring spot by Excelsa coffee (coffee Excelsa). RIME SDOT (CRUAT) The opid determination of necrolle ring spot and sour cher- ry yellows viruses of stone fruits. 2458 The offication of tobacco ringspot virus on black coupes [sourcence cherry. 2443] Rime SDOT (FRUAT) The rasty viruses of stone fruits. 2458 RIME SDOT (FRUATS) The rapid determination of necrolle ring spot and sour cher- ry yellows viruses of stone fruits. 2459 RIME SDOT (FRUATS) The rapid determination of necrolle ring spot and sour cher- ry yellows viruses of stone fruits. 2459 Rime SDOT (FRUATS) The rapid determination of necrolle ring spot and sour cher- ry yellows viruses of stone fruits. 2459 Rime SDOT (FRUATS) The rapid determination of necrolle ring spot and sour cher- ry yellows viruses of stone fruits. 2459 Rime SDOT (FRUATS) The rapid determination of necrolle ring spot and sour cher- ry yellows viruses of stone fruits. 2459 Rime SDOT (FRUATS) Eactors related to soil transmission of tobacco ringspot virus. 2576 Leaf symptoms of tobacco ringspot virus on black coupes [carises of Zinn	control rice seed rot.	2617
 billty to rice blast, Piricularia oryzae. 2633 Virus nature of penyakit merah disease of rice in Asylay- sia. 2723 Leafhopper transmission of tungro disease of rice. 2775 Oowny mildew of rice in arkansas. 2863 Prevalence and distribution of pathogenic races of piricularia oryzae in the U.S. 3183 RICE GREEN LEAFHOPPER Leafhopper transmission of tungro disease of rice. 2775 RING CALLUS Ring callus as a path for non-graft transmitted Aeglopsis chevalieri vein-clearing virus. 2719 RING CALLUS RING CALLUS RING callus as a path for non-graft transmitted Aeglopsis chevalieri vein-clearing virus. 2719 RING CALLUS RING CALUS RING CALUS RING CALUS RING SDOT (CARNATIONS) Chromatographic purification of the carnation ringspot, carnation mottle, and tobacco necrosis viruses. 2903 RING SDOT (CARNATIONS) Chromatographic purification of the carnation ringspot, carnation mottle, and tobacco necrosis viruses. 2003 RING SDOT (CARNATIONS) Chromatographic purification of heerotic ring spot and sour cherry yellows viruses of stone fruits. 2458 The epinasty virus reaction of Kwanzan and Shiro-fugen flowering cherry. 2465 RING SDOT (PRUNS) The readid determination of necrotic ring spot and sour cherry yellows viruses of stone fruits. 2459 RING SDOT (CARNACCD) In vitro reaction of tobacco ringspot virus on black coupea leaves. 2255 Transmission, movement, and vector relationships of tobacco ringspot virus. 2461 Response of Zinnia varieties to tobacco ringspot virus. 2461 Response of Zinnia varieties to tobacco ringspot virus. 2461 A survey of cucurbit viru		
sia. 2723 Leafhopper transmission of tungro disease of rice. 2775 Owny mildew of rice in arkansas. 2863 Prevalence and distribution of pathogenic races of piricularia oryzase in the U.S. 3189 RICE GREEN LEAFHOPPER Leafhopper transmission of tungro disease of rice. 2775 RING CALLUS RING CALLUS RING COLLUS RING COLLUS The association of the virus diseases twisted leaf of cherry and ring pox of apricot. 2719 RING POX (APRICOTS) The occurrence of apricot ring pox virus in plum in Cal- ifornia. 2905 RING SPOT (CARNATIONS) Chromatographic purification of the carnation ringspot, car- nation motile, and tobacco necrosis viruses. 2717 RING SPOT (CARNATIONS) Chromatographic purification of necrotic ring spot and sour cher- nation motile, and tobacco necrosis viruses. 2771 RING SPOT (CARNATIONS) Chromatographic purification of necrotic ring spot and sour cher- nation motile, and tobacco necrosis viruses. 2771 RING SPOT (CRUIT) The rapid determination of necrotic ring spot and sour cher- ry yellows viruses of stone fruits. 2458 Ring SPOT (FRUIT) The rapid determination of necrotic ring spot and sour cher- ry yellows viruses of stone fruits. 2459 Ring SPOT (FRUIDS) The rapid determination of necrotic ring spot and sour cher- ry yellows viruses of stone fruits. 2459 Ring SPOT (FRUID) In vitro reaction of tobacco ringspot virus on black cowpea leaves. 2459 Ring SPOT (TOBACCO) In virus ring spot virus. And vector relationships of tobacco ringspot virus in soybean. 2302 Factors related to soil transmission of tobacco ringspot virus. 2441 Response of Zinnia varieties to tobacco ringspot virus. 2450 Difference in the translocatability of tobacco ringspot virus. 2451 Difference in the translocatability of tobacco ringspot and southern bean mosaic virus in feetions after mechanics in oculation on different plant structures. 2576 Leaf supptoms of tobacco ringspot virus infections after mechanics in oculation on different structures. 2659 A survey of cucurbit viruses in the Lower Rio Grande Valley of Faxas preliminary report. 3060	Structure of rice leaves in relation to varietai suscep bility to rice biast, Piricularia oryzae.	
0 owny sildew of rice in arkansas.2663Prevaience and distribution of pathogenic races of pirceularis oryzae in the U.S.3189RIC GREEN LEAFHOPPER Leafnopper transmission of tungro disease of rice.2775RING CALLUS Ring callus as a path for non-graft transmitted Aeglopzis chevalieri vein-clearing virus.2719RING CALLUS Ring callus as a path for non-graft transmitted Aeglopzis chevalieri vein-clearing virus.2719RING CALLUS Ring callus as a path for non-graft transmitted Aeglopzis chevalieri vein-clearing virus.2719RING CALLUS Ring pox of apricot.119 pox virus in plum in Cal- (2006)RING POX (APRICOTS) The occurrence of apricot ring pox virus in plum in Cal- (2006)2006RING SPOT (CARNATIONS) Chromatographic purification of the carnation ringspot, car- (2007)2007RING SPOT (CARNATIONS) Chromatographic purification of necrotic ring spot and sour cherse (coffee Exceisa).2007RING SPOT (CARNATIONS) The rapid determination of necrotic ring spot and sour cherse vy ellows viruses of stone fruits.2007RING SPOT (FRUIT) The rapid determination of necrotic ring spot and sour cherse vy ellows viruses of stone fruits.2007RING SPOT (PRUNS) The rapid determination of necrotic ring spot and sour cherse vy ellows viruses of stone fruits.2007RING SPOT (PRUNS) The rapid determination of necrotic ring spot and sour cherse vy ellows viruses of stone fruits.2007RING SPOT (PRUNS) The rapid determination of necrotic ring spot and sour cherse vy ellows viruses of stone fruits.2007RING SPOT (PRUNS) The rapid determination of necrotic		
Prevalence and distribution of pathogenic races of piricularia oryzae in the U. S. 3183 RIC GREEN LEAFHOPPER 2775 RIMC CALLUS Ring callus as a path for non-graft transmitted Aeglopsis chevalieri vein-clearing virus. 2719 RIMC CALLUS Ring callus as a path for non-graft transmitted Aeglopsis chevalieri vein-clearing virus. 2719 RIMC CALLUS The association of the virus diseases twisted leaf of chersy and ring pox of apricot. 2700 RIMC POX (APRICOTS) The occurrence of apricot ring pox virus in plum in Calcifornia. 2905 RIMC SPOT (CRMATIONS) The occurrence of apricot ring pox virus in plum in Calcifornia. 2905 RIMC SPOT (CRMATIONS) Chromatographic purification of the carnation ringspot, carnation mottle, and tobacco necrosis viruses. 2771 RIMC SPOT (COFFEE) Seed transmission of coffee ring spot by Excelsa coffee (coffee Excelsa). 2771 RIMC SPOT (FRUIT) The rapid determination of necrotic ring spot and sour chersy yellows viruses of stone fruits. 2458 Ring CSDT (PRUMS) The rapid determination of necrotic ring spot and sour chersy yellows viruses of stone fruits. 2459 RIMC SPOT (TOBACCO) In vitro reaction of tobacco ringspot virus on black cowpeas leaves. 2459 RIMC SPOT (TOBACCO) In vitro reaction of tobacco ringspot virus on black cowpeas leaves. </td <td>Leafhopper transmission of tungro disease of rice.</td> <td>2775</td>	Leafhopper transmission of tungro disease of rice.	2775
piricularia oryzae in the U. S. 3183 RICE GREEN LEAFHOPPER Leafhopper transmission of tungro disease of rice. 2775 RING CALLUS Ring callus as a path for non-graft transmitted Aeglopsis chevalleri vein-clearing virus. 2719 RING POX (APRICOTS) The association of the virus diseases twisted leaf of cherry and ring pox of apricot. 2633 The occurrence of apricot ring pox virus in plum in Cal- ifornia. 2906 RING POX (PLUMS) The occurrence of apricot ring pox virus in plum in Cal- ifornia. 2905 RING SPOT (CARNATIONS) Chromatographic purification of the carnation ringspot, car- nation mottle, and tobacco necrosis viruses. 2903 RING SPOT (CARNATIONS) Ged transmission of coffee ring spot by Exceise coffee (coffee Exceise). 2771 RING SPOT (FRUIT) The rapid determination of necrotic ring spot and sour cher- ry yellows viruses of stone fruits. 2458 Ring SPOT (FRUNDS) The rapid determination of necrotic ring spot and sour cher- ry yellows viruses of stone fruits. 2458 Rio SPOT (FRUNDS) The rapid determination of necrotic ring spot and sour cher- ry yellows viruses of stone fruits. 2458 Rio SDOT (PRUNDS) The rapid determination of necrotic ring spot and sour cher- ry yellows viruses of stone fruits. 2459 Rio SDO Gem peach seediings as indicator hosts for the Prunus ring spot virus. 2743 RING SPOT (TOBACCO) In vitro reaction of tobacco ringspot virus on black cowpea leaves. 2255 Transmission, movement, and vector relationships of tobacco ringspot virus in soybean. 2302 Factors related to soil transmission of tobacco ringspot virus. 2659 A survey of cucurbit viruses in the Lower Rio Grande Valley of Texas: preliminary report. 2650 Difference in the translocatability of tobacco ringspot and souther bean mosaic viruses in bean. 2808 Efficiency of Xiphinema americanum as a vector of tobacco ringspot virus. 3046 A comparison of two ringspot-related viruses from red kidney beans. 3187	Oowny mildew of rice in arkansas.	2869
Leafhopper transmission of tungro disease of rice. 2775 RING CALLUS Ring calus as a path for non-graft transmitted Aeglopsis chevalieri vein-clearing virus. 2719 RING POX (APRICOTS) The association of the virus diseases twisted leaf of cherry and ring pox of apricot ring pox virus in plum in Cal- ifornia. 2906 RING POX (PLUMS) The occurrence of apricot ring pox virus in plum in Cal- ifornia. 2905 RING SPOT (CARNATIONS) Chromatographic purification of the carnation ringspot, car- nation mottle, and tobacco necrosis viruses. 2903 RING SPOT (CARNATIONS) Chromatographic purification of the carnation ringspot, car- nation mottle, and tobacco necrosis viruses. 2903 RING SPOT (COFFEE) Seed transmission of coffee ring spot by Excelse coffee (coffee Excelse). 2771 RING SPOT (FRUIT) The repid determination of necrotic ring spot and sour cher- ry yellows viruses of stone fruits. 2458 RING SPOT (PRUNUS) The apid determination of necrotic ring spot and sour cher- ry yellows viruses of stone fruits. 2459 Rio Oso Gem peach seedlings as indicator hosts for the prunus ring spot virus. 2459 Rio Oso Gem peach seedlings as indicator hosts for the prunus ring spot virus. 2302 Factors related to soil transmission of tobacco ringspot virus. 2441 Response of Zinnia varieties to tobacco ringspot virus. 2441 Response of Zinnia varieties to tobacco ringspot virus. 2576 Leaf symptoms of tobacco ringspot virus infections after mechanical inoculation on different plant structures. 2659 A survey of cucurbit viruses in the Lower Rio Grand virus. 2660 Difference in the translocatability of tobacco ringspot and souther bean mosaic viruses in the Lower Rio Grand Valley of Texas: preliminary report. 2660 Difference in the translocatability of tobacco ringspot and souther bean mosaic viruses in bean. 2608 Efficiency of Xiphinema americanum as a vector of tobacco ringspot virus. 3046 A comparison of two ringspot-related viruses from red kidney beans. 4 T -head inoculator for local-lesion assay of viruses		3189
Ring cailus as a path for non-graft transmitted Aeglopsis chevalieri vein-clearing virus. 2719 RING POX (APRICOTS) The association of the virus diseases twisted leaf of cherry and ring pox of apricot. 2633 The occurrence of apricot ring pox virus in plum in Cal- ifornia. 2906 RING POX (PLUMS) The occurrence of apricot ring pox virus in plum in Cal- ifornia. 2905 RING SPOT (CARNATIONS) Chromatographic purification of the carnation ringspot, car- nation motile, and tobacco necrosis viruses. 2903 RING SPOT (COFFEE) Seed transmission of coffee ring spot by Exceisa coffee (coffee Exceisa). 2771 RING SPOT (FRUIT) The rapid determination of necrotic ring spot and sour cher- ry yellous viruses of stone fruits. 2458 Ring SPOT (PRUMUS) The rapid determination of necrotic ring spot and sour cher- ry yellous viruses of stone fruits. 2459 RING SPOT (PRUMUS) The rapid determination of necrotic ring spot and sour cher- ry yellous viruses of stone fruits. 2459 Ring SPOT (PRUMUS) The rapid determination of necrotic ring spot and sour cher- ry yellous viruses of stone fruits. 2459 Ring SPOT (TUBACCO) In vitro reaction of tobacco ringspot virus on black cowpea leaves. 2255 Transmission, movement, and vector relationships of tobacco ringspot virus in soybean. 2302 Factors related to soil transmission of tobacco ringspot virus. 2441 Response of Zinnia varieties to tobacco ringspot virus. 2441 Response of Zinnia varieties to tobacco ringspot virus. 2441 A survey of cucurbit viruses in the Lower Rio Grande Valley of Texas: preliminary report. 2669 A survey of cucurbit viruses in the Lower Rio Grande Valley of Xiphinema americanum as a vector of tobacco ringspot virus. 3046 A comparison of two ringspot-related viruses from red kidney beans. 3046 A t -head inoculator for iocal-lesion assay of viruses.		2775
The association of the virus diseases twisted leaf of cherry and ring pox of apricot. 2634 The occurrence of apricot ring pox virus in plum in Cal- ifornia. 2905 RING PDX (PLUMS) The occurrence of apricot ring pox virus in plum in Cal- ifornia. 2905 RING SPOT (CARNATIONS) Chromatographic purification of the carnation ringspot, car- nation mottle, and tobacco necrosis viruses. 2903 RING SPOT (COFFE) Seed transmission of coffee ring spot by Excelsa coffee (coffee Excelsa). 2771 RING SPOT (FRUIT) The rapid determination of necrotle ring spot and sour cher- ry yellows viruses of stone fruits. 2458 The epinasty virus reaction of Kwanzan and Shiro-fugen flowering cherry. 2655 RING SPOT (PRUNUS) The rapid determination of necrotle ring spot and sour cher- ry yellows viruses of stone fruits. 2458 Rio Oso Gem peach seediings as indicator hosts for the Prunus ring spot virus. 2743 RING SPOT (TOBACCO) In vitro reaction of tobacco ringspot virus on black compea icaves. 2255 Transmission, movement, and vector relationships of tobacco ringspot virus in soybean. 2302 Factors related to soil transmission of tobacco ringspot virus. 2441 Response of Zinnia varieties to tobacco ringspot virus. 2459 A survey of cucurbit viruses in the Lower Rio Grande Valley of Texas: preliminary report. 2659 A survey of cucurbit viruses in the Lower Rio Grande Valley of Texas: preliminary report. 2650 Difference in the translocatability of tobacco ringspot and southern bean mosaic viruses in bean. 2608 Efficiency of Xiphinema americanum as a vector of tobacco ringspot virus. 3046 A comparison of two ringspot-related viruses from red kidney beans. 3187 A T -head inoculation for local-lesion assay of viruses.	Ring cailus as a path for non-graft transmitted Aeglops	
 ifornia. 2906 RING POX (PLUMS) The occurrence of apricot ring pox virus in plum in Cal- ifornia. 2905 RING SPOT (CARNATIONS) Chromatographic purification of the carnation ringspot, car- nation mottle, and tobacco necrosis viruses. 2903 RING SPOT (COFFEE) Seed transmission of coffee ring spot by Exceise coffee (coffee Exceise). RING SPOT (FRUIT) The rapid determination of necrotic ring spot and sour cher- ry yellows viruses of stone fruits. 2458 The epinasty virus reaction of Kwanzan and Shiro-fugen flowering cherry. 2665 RING SPOT (PRUMUS) The rapid determination of necrotic ring spot and sour cher- ry yellows viruses of stone fruits. 2458 Rio GSOT (PRUMUS) The rapid determination of necrotic ring spot and sour cher- ry yellows viruses of stone fruits. 2458 Rio Oso Gem peach seedings as indicator hosts for the Prunus ring spot virus. 2743 RING SPOT (TOBACCO) In vitro reaction of tobacco ringspot virus on black coupea leaves. 2302 Factors related to soil transmission of tobacco ringspot virus. 2441 Response of Zinnia varieties to tobacco ringspot virus. 2576 Leaf symptoms of tobacco ringspot virus infections after mechanical inoculation on different plant structures. 2659 A survey of cucurbit viruses in the Lower Rio Grande Valley of Texas: preliminary report. 2660 Difference in the translocatability of tobacco ringspot and southern bean mosaic viruses in bean. 2808 Efficiency of Xiphinema americanum as a vector of tobacco ringspot virus. 3046 A comparison of two ringspot-related viruses from red kidney beans. 3187 A T -head inoculator for iocal-lesion assay of viruses. 	NG POX (APRICOTS) The association of the virus diseases twisted leaf of c and ring pox of apricot.	herry 2634
The occurrence of apricot ring pox virus in plum in Cai- ifornia. 2905 RING SPOT (CARNATIONS) Chromatographic purification of the carnation ringspot, car- nation mottle, and tobacco necrosis viruses. 2903 RING SPOT (COFFEE) Seed transmission of coffee ring spot by Exceise coffee (coffee Exceise). 2771 RING SPOT (FRUIT) The rapid determination of necrotic ring spot and sour cher- ry geliows viruses of stone fruits. 2458 The epinasty virus reaction of Kwanzan and Shiro-fugen flowering cherry. 2655 RING SPOT (FRUNS) The rapid determination of necrotic ring spot and sour cher- ry geliows viruses of stone fruits. 2459 Rio Oso Gem peach seedlings as indicator hosts for the Prunus ring spot virus. 2743 RING SPOT (TOBACCO) In vitro reaction of tobacco ringspot virus on black cowpea leaves. 2302 Factors related to soil transmission of tobacco ringspot virus. 2441 Response of Zinnia varieties to tobacco ringspot virus. 2441 Response of Zinnia varieties in the Lower Rio Grande Valiey of rexas: preliminary report. 2660 Difference in the translocatability of tobacco ringspot and southern bean mosaic viruses in bean. 2808 Efficiency of Xiphinema americanum as a vector of tobacco ringspot virus. 3046 A comparison of two ringspot-related viruses from red kidney beans. 3187 A T -head inoculator for iocal-lesion assay of viruses.		
Chromatographic purification of the carnation ringspot, car- nation mottle, and tobacco necrosis viruses. 2903 RING SPOT (COFFEE) Seed transmission of coffee ring spot by Exceise coffee (coffee Exceise). 2771 RING SPOT (FRUIT) The rapid determination of necrotic ring spot and sour cher- ry yellows viruses of stone fruits. 2458 The epinasty virus reaction of Kwanzan and Shiro-fugen flowering cherry. 2655 RING SPOT (PRUNUS) The rapid determination of necrotic ring spot and sour cher- ry yellows viruses of stone fruits. 2458 Rio Oso Gem peach seedlings as indicator hosts for the Prunus ring spot virus. 2749 RING SPOT (TOBACCO) In vitro reaction of tobacco ringspot virus on black cowpea icaves. 2302 Factors related to soil transmission of tobacco ringspot virus. 2441 Response of Zinnia varieties to tobacco ringspot virus. 2459 A survey of cucurbit viruses in the Lower Rio Grande Valiey of Texas: preliminary report. 2660 Difference in the translocatability of tobacco ringspot and southern bean mosaic viruses in bean. 2808 Efficiency of Xiphinema americanum as a vector of tobacco ringspot virus. 3046 A comparison of two ringspot-related viruses from red kidney beans. 3187 A T -head inoculator for iocal-lesion assay of viruses.	The occurrence of apricot ring pox virus in pium in Cai	
Seed transmission of coffee ring spot by Exceise coffee (coffee Exceise). 2771 RING SPOT (FRUIT) The rapid determination of necrotic ring spot and sour cher- ry yellows viruses of stone fruits. 2458 The epinasty virus reaction of Kwanzan and Shiro-fugen flowering cherry. 2665 RING SPOT (PRUNUS) The rapid determination of necrotic ring spot and sour cher- ry yellows viruses of stone fruits. 2458 Rio Oso Gem peach seediings as indicator hosts for the Prunus ring spot virus. 2743 RING SPOT (TOBACCO) In vitro reaction of tobacco ringspot virus on black cowpea leaves. 2255 Transmission, movement, and vector relationships of tobacco ringspot virus in soybean. 2302 Factors related to soil transmission of tobacco ringspot virus. 2441 Response of Zinnia varieties to tobacco ringspot virus. 2576 Leaf symptoms of tobacco ringspot virus infections after mechanical inoculation on different plant structures. 2659 A survey of cucurbit viruses in the Lower Rio Grande Vailey of Texas: preliminary report. 2660 Difference in the translocatability of tobacco ringspot and southern bean mosaic viruses in bean. 2808 Efficiency of Xiphinema americanum as a vector of tobacco ringspot virus. 3187 A T -head inoculator for local-lesion assay of viruses.	Chromatographic purification of the carnation ringspot,	car- 2903
The rapid determination of necrotic ring spot and sour cher- ry yellows viruses of stone fruits. 2458 The epinasty virus reaction of Kwanzan and Shiro-fugen flowering cherry. 2665 RING SPOT (PRUNUS) The rapid determination of necrotic ring spot and sour cher- ry yellows viruses of stone fruits. 2458 Rio Oso Gem peach seediings as indicator hosts for the Prunus ring spot virus. 2749 RING SPOT (TOBACCO) In vitro reaction of tobacco ringspot virus on black cowpea icaves. 2302 Factors related to soil transmission of tobacco ringspot virus. 2441 Response of Zinnia varieties to tobacco ringspot virus. 2441 Response of Zinnia varieties to tobacco ringspot virus. 2576 Leaf symptoms of tobacco ringspot virus infections after mechanical inoculation on different plant structures. 2659 A survey of cucurbit viruses in the Lower Rio Grande Valley of Texas: preliminary report. 2600 Difference in the translocatability of tobacco ringspot and southern bean mesaic viruses in bean. 2008 Efficiency of Xiphinema americanum as a vector of tobacco ringspot virus. 3046 A comparison of two ringspot-related viruses from red kidney beans. 3187 A T -head inoculator for iocal-lesion assay of viruses.	Seed transmission of coffee ring spot by Excelsa coffee	
flowering cherry. 2665 RING SPOT (PRUNUS) The rapid determination of necrotle ring spot and sour cher- ry yellows viruses of stone fruits. 2458 Rio Oso Gem peach seediings as indicator hosts for the Prunus ring spot virus. 2749 RING SPOT (TOBACCO) In vitro reaction of tobacco ringspot virus on black cowpea icaves. 2302 Factors related to soil transmission of tobacco ringspot virus. 2441 Response of Zinnia varieties to tobacco ringspot virus. 2576 Leaf symptoms of tobacco ringspot virus infections after mechanical inoculation on different plant structures. 2659 A survey of cucurbit viruses in the Lower Rio Grande Valley of Texas: preliminary report. 2600 Difference in the translocatability of tobacco ringspot and southern bean mosaic viruses in bean. 2808 Efficiency of Xiphinema americanum as a vector of tobacco ringspot virus. 3187 A T -head inoculator for local-lesion assay of viruses.	The rapid determination of necrotic ring spot and sour	
The rapid determination of necrotic ring spot and sour cherry yellows viruses of stone fruits. 2458 Rio Oso Gem peach seediings as indicator hosts for the Prunus ring spot virus. 2749 RING SPOT (TOBACCO) In vitro reaction of tobacco ringspot virus on black cowpea leaves. 2255 Transmission, movement, and vector relationships of tobacco ringspot virus in soybean. 2302 Factors related to soil transmission of tobacco ringspot virus. 2441 Response of Zinnia varieties to tobacco ringspot virus. Leaf symptoms of tobacco ringspot virus infections after mechanical inoculation on different plant structures. 2659 A survey of cucurbit viruses in the Lower Rio Grande Valley of Texas: preliminary report. 2660 Difference in the translocatability of tobacco ringspot and southern bean mosaic viruses in bean. 2808 Efficiency of Xiphinema americanum as a vector of tobacco ringspot virus. 3046 A comparison of two ringspot-related viruses from red kidney beans. 3187 A T -head inoculator for iocal-lesion assay of viruses.		2665
Prunus ring spot virus.2743RING SPOT (TOBACCO) In vitro reaction of tobacco ringspot virus on black cowpea leaves.2255Transmission, movement, and vector relationships of tobacco ringspot virus in soybean.2302Factors related to soil transmission of tobacco ringspot virus.2441Response of Zinnia varieties to tobacco ringspot virus. 25762576Leaf symptoms of tobacco ringspot virus infections after mechanical inoculation on different plant structures. 26592659A survey of cucurbit viruses in the Lower Rio Grande Valley of Texas: preliminary report.2660Difference in the translocatability of tobacco ringspot and southern bean mosaic viruses in bean.2808Efficiency of Xiphinema americanum as a vector of tobacco ringspot virus.3046A comparison of two ringspot-related viruses from red kidney beans.3187A T -head inoculator for iocal-lesion assay of viruses.2743	The rapid determination of necrotic ring spot and sour	
In vitro reaction of tobacco ringspot virus on black cowpea icaves. 2255 Transmission, movement, and vector relationships of tobacco ringspot virus in soybean. 2302 Factors related to soil transmission of tobacco ringspot virus. 2441 Response of Zinnia varieties to tobacco ringspot virus. 2576 Leaf symptoms of tobacco ringspot virus infections after mechanical inoculation on different plant structures. 2659 A survey of cucurbit viruses in the Lower Rio Grande Valley of Texas: preliminary report. 2660 Difference in the translocatability of tobacco ringspot and southern bean mosaic viruses in bean. 2808 Efficiency of Xiphinema americanum as a vector of tobacco ringspot virus. 3046 A comparison of two ringspot-related viruses from red kidney beans. 3187 A T -head inoculator for local-lesion assay of viruses.	Rio Oso Gem peach seediings as indicator hosts for the Prunus ring spot virus.	2749
ringspot virus in soybean. 2302 Factors related to soil transmission of tobacco ringspot virus. 2441 Response of Zinnia varieties to tobacco ringspot virus. 2576 Leaf symptoms of tobacco ringspot virus infections after mechanical inoculation on different plant structures. 2659 A survey of cucurbit viruses in the Lower Rio Grande Valley of Texas: preliminary report. 2660 Difference in the translocatability of tobacco ringspot and southern bean mosaic viruses in bean. 2808 Efficiency of Xiphinema americanum as a vector of tobacco ringspot virus. 3046 A comparison of two ringspot-related viruses from red kidney beans. 3187 A T -head inoculator for local-lesion assay of viruses.	In vitro reaction of tobacco ringspot virus on black co	
virus. 2441 Response of Zinnia varieties to tobacco ringspot virus. 2576 Leaf symptoms of tobacco ringspot virus infections after mechanical inoculation on different plant structures. 2659 A survey of cucurbit viruses in the Lower Rio Grande Valiey of Texas: preliminary report. 2660 Difference in the translocatability of tobacco ringspot and southern bean mosaic viruses in bean. 2808 Efficiency of Xiphinema americanum as a vector of tobacco ringspot virus. 3046 A comparison of two ringspot-related viruses from red kidney beans. 3187 A T -head inoculator for local-lesion assay of viruses.		
2576 Leaf symptoms of tobacco ringspot virus infections after mechanical inoculation on different plant structures. 2659 A survey of cucurbit viruses in the Lower Rio Grande Vailey of Texas: preliminary report. 2660 Difference in the translocatability of tobacco ringspot and southern bean mosaic viruses in bean. 2008 Efficiency of Xiphinema americanum as a vector of tobacco ringspot virus. 3046 A comparison of two ringspot-related viruses from red kidney beans. 3187 A T -head inoculator for local-lesion assay of viruses.		
mechanical inoculation on different plant structures. 2659 A survey of cucurbit viruses in the Lower Rio Grande Vailey of Texas: preliminary report. 2660 Difference in the translocatability of tobacco ringspot and southern bean mosaic viruses in bean. 2808 Efficiency of Xiphinema americanum as a vector of tobacco ringspot virus. 3046 A comparison of two ringspot-related viruses from red kidney beans. A T -head inoculator for local-lesion assay of viruses.	Response of Zinnia varieties to tobacco ringspot virus.	2576
Valley of Texas: preliminary report. 2660 Difference in the translocatability of tobacco ringspot and southern bean mosaic viruses in bean. 2808 Efficiency of Xiphinema americanum as a vector of tobacco ringspot virus. 3046 A comparison of two ringspot-related viruses from red kidney beans. 3187 A T -head inoculator for local-lesion assay of viruses.		
southern bean mosaic viruses in bean. 2808 Efficiency of Xiphinema americanum as a vector of tobacco ringspot virus. 3046 A comparison of two ringspot-related viruses from red kidney beans. 3187 A T -head inoculator for local-lesion assay of viruses.		2660
ringspot virus. 3046 A comparison of two ringspot-related viruses from red kidney beans. 3187 A T -head inoculator for local-lesion assay of viruses.		
beans. 3187 A T -head inoculator for local-lesion assay of viruses.		
	A T -head inoculator for local-lesion assay of viruses	

RING SPDT (TOMATDES) Tomato ring spot virus isolated from Eola rasp leaf of cherry in oregon.	2664
ROOT ROT (PHASEOLUS) Tests of Phaseoius species for resistance to Fusarium roo rot.	ot 2287
ROOT KNOT (COTTON) Correlation between Fusarium wiit indices of cotton vari- ties with root-knot and with sting nematodes as predispo- ing agents.	2366
ROOT KNOT (KENAF) Root-knot nematode on kenaf in Guatemaia.	3062
ROOT KNOT (OKRA) An attempt to control root-knot nematode with Oactylaria thaumasia and Arthrobotrys arthrobotryoides.	3044
RODT KNOT (TOBACCO) Response of root-knot-resistant tobaccos to the nematode root disease complex caused by Pratylenchus spp. and Me- loldogyne incognita acrita.	3035
ROOT KNOT (TOMATDES) An attempt to control root-knot nematode with Dactylaria thaumasia and Arthrobotrys arthrobotryoides.	3044
ROOT KNOT NEMATODE Control of root-knot nematode and aphid on tobacco.	305C
ROOT ROT (ALFALFA) Phytophthora root and crown rot of aifalfa in the Ya- zoo-Mississippi Deita.	2562
RDDT RDT (AVDCAODS) Rhizoctonia seed and root rot of avocado.	2675
ROOT ROT (BEANS) Effects of soli temperature and selected crop residues on the development and severity of Fusarium root-rot of bea	n n. 2644
Chitin and the biological control of Fusarium diseases.	2676
Selective effects of barley residue on fungi of the pint bean root-rot complex.	5 3114
ROOT ROT (BLUEBERRIES) Observations on new or unusual diseases of highbush biue ry.	be r- 2765
RODT ROT (CITRUS) Tetrazolium, an indicator of extent of infection in Phyt- ophthora root rot of citrus.	2601
RDDT RDT (CLITOCYBE) Variation in isolates from Armillaria root disease in Nyasaiand.	2452
ROOT ROT (LENTILS) Fungi isolated from diseased ientii seedlings in 1963-64.	2937
ROOT ROT (LIRIODENDRON TULIPIFERA) A root and stem rot of yeilow-poplar caused by Cylindroci dium scoparium.	ia- 2581
ROOT ROT (NARCISSUS) Control of root-lesion nematode, Pratylenchus penetrans, narcissus.	on 3006
ROOT ROT (OKRA) Okra seed infection and seediing root rot caused by Fusarium solani.	2547
ROOT ROT (PEAS) Greenhouse evaluations of soll fungicides for the control pea root rot.	of 2488
Nutritional requirements of Aphanomyces euteiches and its relationship to common root rot toierance of peas.	2489

Soli fungicides for control of pea root rot in greenhouse tests. 3101

ROT	(PE	A	С	Н	E	S)
-----	---	----	---	---	---	---	---	---

OOT ROT (PINUS ECHINATA) Observations on Fomes annosus root-rot in natural stand iobioliy and shortlcaf pine.	s of 2399	
OOT ROT (PINUS ELLIOTTII) Fomes annosus on slash pine in the southeast.	2755	
OOT ROT (PINUS TAEDA) Observations on Fomes annosus root-rot in natural stand lobiolly and shortleaf pine.	is of 2399	
OUT ROT (PINUS) First report of pine mortality caused by Fomes annosus rot in Ohio.	root 2571	
Armillaria mellea root rot in a northern white pine pl tion.	anta- 2B25	
OOT ROT (SOYBEANS) Phytophthora root rot of soybean in Minnesota.	232B	
DDT ROT (TOBACCO) Response of root-knot-resistant tobaccos to the nematod root disease complex caused by Pratylenchus spp. and Me ioldogyne incognita acrita.		RC
OOT ROT (TURF) Turfgrass diseases in southern California.	2411	
OOT-KNOT NEMATODE Chemotherapeutic action of dimethoate against a root-kn nematode in greenhouse tomato plants.	ot 2507	
Response of Nicotiana repanda, N. sylvestris, and their Amphidiploid hybrid to root-knot nematodes.	3015	RC
Evaluation of DBCP formulations and application depths root-knot nematode control and phytotoxicity to tomatoe		
Responses of tobacco breeding lines to three species of root-knot nematodes in greenhouse tests.	3034	
Physiological studies on host-parasite relationship of root-knot nematode, Meloidogyne javanica.	the 3057	R
Greenhouse studies on the control of root-knot nematode Hydrocotyle slbthorpiodes.	9 on 305B	
Root-knot nematode on Dioscorea in Guatemala.	3063	
Arrowweed, Pluchea sericea, on the Colorado River is a host for root-knot nematodes.	3070	
Sweetpotato production on soil treated with soll fumiga	nts. 3072	
Susceptibliity of jute strains to four root-knot nemato (Meloldogyne spp.) in Eastern Nigeria.	des 3073	
Comparative effectiveness of various nematocides in the trol of root knot in muck soil.	con- 3104	RC
DDT-KNOT NEMATODES Studies of the host range of Meloidogyne incognita acri	ta.	
	3019	RC
Susceptibility of bluegrass to root-knot nematodes. Control of root-knot nematodes with organophosphate ins	3029 ecti-	RC
cides.	3040	
00TS Quantitative determination of the free amino acids and amides in roots and leaves of healthy and exocortis-inf Citrus sinensis Osbeck on Poncirus trifoliata Raf.	ected 2412	RC
Isolations from mycorrhizal roots of sweetgum.	241B	RC
The effect of competition by Peniophora gigantea on the growth of Fomes annosus in stumps and roots.	2526	RC
Ingress of Pratylenchus penetrans into alfalfa roots in relation to soil moisture content.	2572	
An apparently new root necrosis disease of rhubarb.	2696	

R

R

R

R R

R

R

RI

R

Root inoculation of oll palm seedlings with Ganoderma sp. 2700

Some consequences of a quantitative theory of nematode-root 1030 relations.

Incubation of soli and root samples in polycthylene plastic for improved recovery nematodes. 3069

Attraction of aphanomyces eutelches zoospores to host and 3208

Stimulation of a new Rhizoctonia species by strawberry root exudates.

Root infection in relation to spread of Pseudomonas 3229 solanacearum.

Relation of chlorogenic acid and free phenols in potato roots to infection by Verticillium albo-atrum. 32.39

Comparative efficiencies of three methods for extracting 3276

OOTSTOCK

IDISTUCK Lemon bud union overgrowth disorder and its relation to 2595 rootstock and tree age.

Susceptibility of various apple clonal rootstocks to cedar apple rust. 2677 apple rust.

Behaviour of 77 tristeza tolerant rootstocks with old and 2582 nuceilar clones of Barao orange scions.

Nuceilar Balaninha orange as top in a rootstock-fertiliza tion-spacing experiment. 2780

ODTSTOCKS

Citrus varlety reaction to tristeza virus in Brazil when used in various rootstocks and scion combinations. 2467

Effects of exocortis discase on four citrus rootstocks. 2827

Nature of resistance in certain citrus rootstocks to citrus nematode. 3075

OSA Comparison of standard fungicides recommended for control of powdery mildew of roses. 2387

Systemic control of powdery mildew of roses (Sphaerotheca pannosa) with the semicarbazone derivative of Acti-dione. 2565

the

- Systemic control of powdery mildew of roses, caused by the fungus Sphaerotheca pannosa, with derivatives of cyclohex-lmide. 25 2566
- Red spider mite control on roses in Florida. 3002

Drench treatment of roses in containers for root-lesion ne-matode disease. 3066

OSETTE (CHERRIES) Cherry rosette: Its nonldentity with Pfeffingerkrankheit and its possible affinity with Stecklinburger disease.

2455

OT (CANTALOUP) Myrotheclum rind rot of cantaloup. 2661

OT (CUCUMBERS) Control of anthracnose, scab, and soli rot of cucumbers in Florida. 2569

OT (GRAPES)

Metabollsm of organic acids during rot of grape berries by Diplodia viticola. 2857

ROT (MAZZARD CHERRIES) 2,6-dichloro-4-nitroaniiine effective against Rhizopus

fruit rot of sweet cherries. 2724 OT (PEACHES)

Rhizopus rot of peaches as affected by postharvest tempera ture and moisture. 28 2830

2,6-dichloro-4-nitroaniline used in orchard sprays, the dump tank, the wet brusher and the hydrocooler for control of Rhizopus rot of harvested peaches. 30 30B6 ROT (STRAWSERRIES)

ROT (STRAW8ERRIES)
ROT (STRAW8ERRIES) Initiation of strawberry fruit rot caused by Botrytis clnerea. 2753
Glocosporlum rot of strawberry frult. 2942
ROT (SUGARCANE) Evidence of a toxic substance produced by fungl involved in seed-picce rot of sugarcane. 2430
ROT (TOMATOES) Green tomato fruitsa medium for inducing fruit rot and ascxual sporulation with fungi isolated from clovers. 2592
Rhizoctonia fruit rot of processing tomatoes. 2811
ROT (WATERMELON) Three uncommon watermelon fruit rots in Florida. 2802
ROT (WATERMELONS) The development of Mycosphaerella black rot and Pellicu- laria rolfsll rot of watermelons at various temperatures. 2637
ROTENONE Effectiveness of rotenone and pyrethrins when mixed with other chemicals for boll weevil control. 3153
ROTYLENCHULUS RENIFORMIS Host-parasite studies on reniform nematode on cotton. 3198
ROUGH LEMON A virus-like disorder of Malvasio tangerine on rough lemon rootstock. 2757
Movement of Tylenchulus seml-penetrans lnto Rough lemon roots and ln soll and its relation to Fusarium in the roots. 3028
RU8US Occurrence of viruses causing raspberry mosaic in some com- mercial stocks of red raspberry in eastern United States. 2365
RUMINANTS Nitrate metabolism in the ruminant. 3145
RUSSIAN ALMONDS A blight of ground cherry and Russian almond seedlings caused by Gloeosporium fructigenum Berk. 2456
RUST (ALBIZIA) Sphaerophragmium rust discovered in Florida of Albizia lebbeck (L.) 8enth. 2650
RUST (APPLES) Susceptibility of various apple clonal rootstocks to cedar
apple rust. 2677 RUST (BEANS)
A new race of bean rust in Arkansas. 2460
Race 33 of Uromyces phaseoll var. typica Arth., a distinct physiologic race of bean rust from oregon. 2514
2-n-alkylmertapto-1,4,S,6-tetrahydropyrimldlnes, chemothera- peutlc agents for plant rusts. 2713
Phleomycln, an antiblotic markedly effective for control of bean rust. 2829
RUST (CANNA) 2-n-alkylmercapto-1,4,5,6-tetrahydropyrimidines, chemothera- peutic agents for plant rusts. 2713
RUST (CORN) Development of nearly isogenic rust-resistant lines of corn. 2534
RUST (COTTON) Preliminary studies on control of southwestern cotton rust. 2308
Observations on cotton rust (Puccinia stakmanli) under severe disease conditions. 2837

RUST (ITALIAN SWEETCLOVER) Melllotus Italica, a new host for Uromyces strlatus.	2623
RUST (PEANUTS) Inoculation and development of rust on peanuts grown in greenhouse.	the 2662
RUST (ROSES) Phragmldium rose rust epidemic ln Loulslana State Univer sity gardens.	- 2425
RUST (SAFFLOWER) Sources of rust resistance in safflower.	2952
RUST (SNAPDRAGON) 2-n-alkylmcrcapto-1,4,5,6-tetrahydropyrlmldlnes, chemoth peutlc agents for plant rusts.	e ra- 2713
RUST (SUGARCANE) Sugarcane rust in Tanganyika.	2914
RUST (SUNFLOWERS) Rust on sunflowers in the Mississippi Delta.	2376
RUST (TOBACCO) Rust on tobacco discovered in Honduras.	2693
RUST (WHEAT)	
2-n-alkylmercapto-1,4,S,6-tetrahydropyrimidines, chemoth	e r a- 2713
Wheat rust during the spanish era in California.	2831
Wheat rust as viewed in the early agricultural press of callfornia.	2835
RUST (ZOYSIA JAPONICA) A rust on Zoysia japonica new to North America.	2606
RUSTY BLOTCH (PLUMS) Plum rusty blotch in California.	2748
RUSTY SPOT (PEACHES) Rusty spot of peach and its control in New Jersey.	2377
RUTACEOUS PLANTS Susceptibility of some species and varieties of Citrus a some other rutaceous plants to the citrus nematode.	nd 3010
RYE Leptosphaerla herpotricholdes on rye in Clark County, Washington.	2847
SAFFLOWER Seed-borne Cercospora on safflower.	2281
The susceptibility of safflower varieties and species to several follage diseases in Israel.	2282
Identity of viruses from safflower affected with necrosi	s.
	2599
Pathogenicity and growth rates of Phytophthora drechsler isolates from safflower and sugarbeet.	1 28 07
Powdery mlldew of safflower.	2951
Sources of rust resistance in safflower.	2952
Studies of tricarboxylic acid cycle intermediates in safflower infected with Puccinia carthami.	3200
SALIVARY GLANDS (INSECTS) Studles on the sallvary physiology of plant bugs: the ch istry of formation of the sheath material.	cm- 2159
SALIX Willow blight in Michigan.	2502
SALT POISONING Large animal toxicological problems.	3160
SAMPLING A portable gas sampler sultable for measuring atmospheri oxidant.	c 3289

SANNINOIDEA EXITIOSA Scheduling insecticide applications for peach tree borer control. 2981

SAD PAULD The citrus Budwood Certification Program in the state of Sao Paulo.	ſ	ENT The fam
SAP A sap-transmissable virus associated with a new disease corn in southern Illinois.	of	HIS Lab of
SAPINDUS EMARGINATUS Two new diseases of soap-nut tree (Sapindus species) fro India.	om	HIZ Eff gre
SAPINDUS TRIFOLIATUS Two new diseases of soap-nut tree (Sapindus species) fro India.	O ID	ION Cit use
SAPROPHYTES Peilicularia filamentosa a common saprophytc on mature o ton stems in Louisiana.	cot-	LER Dow mis
SARCOPHAGIDAE Effects on the parasitoid Agria affinis (Fali.) (Diptera Sarcophagldae) of small molecules in diets.	2124	LER Est
SARCOSOMES Respiratory chain metabolism in the Colorado potato bes -Ii. Respiration and oxidative phosphorylation in sarce	tle p-	LER Sol um
somes from diapausing beeties. SASKATCHEWAN Occurrence of Xiphinema americanum Cobb in some Saskat-		LER Ext
chewan soiis. SATSUMA DWARF Researches on the indicator plants of Satsuma dwarf and		LER Rel iax
Hassaku dwarf viruses. SAUCER MAGNOLIA		LER Rei
Verticillum wilt of saucer magnolia, Magnolia soulanged SCAB (APPLES)	2810 SC	iax LER
Apple scab .effect of one application of fungicides on lesions on previously unsprayed trees. The inhibitory effects of certain fungicide formulations	2262	Fun
apple scab conidla. SCAB (CUCUMBERS) Control of anthracnose, scab, and soli rot of cucumbers	2751	Sci Hos Sci
Florida. SCAB (CUCURBITA)	2569 SC	tec LER
An evaluation of the Cucurbita for scab resistance. SCAB (PEACHES) Contact fungicides for peach scab control.		Sol of LER
SCAB (PECAN) 1964 Spray tests to control pecan scab.	2360	Eff
SCAB (PECANS) Effectiveness of certain protectant fungloides for contr ling pecan scab in Oklahoma during 1959.	2292	Whl of
Dodine, an outstanding fungicide for pecan scab control.		LER Scl col
Scab is now affecting the Stuart variety of pecan in Geo gia as well as in other southeastern states. Aerial application of fungicides for pecan scab control.	2361	LER Sci col
Contact fungicides for peach scab control.	2469 SC	LER Ino tib
SCAB (POINSETTIA) Polnsettla scab-A new report for Puerto Rico.	2791	Eff lng rol
SCAB (WHEAT) Fusarial head blight , serious disease of wheat in Guat mala.	2803	Sou The
SCAR SKIN (APPLES) Further observations on the scar skin diseases of apple.	2674 SC	tlo LER Spo

GLANDS GLANDS adult seent glands and seent of nine bugs of the super-2223 ily Coreoidea. STOCERCA GREGARIA boratory observations on factors affecting the movements hoppers of the desert iocust. 21 2118 APHIS GRAMINUM xPHIS GRAMINUM set of temperature on fecundity of two strains of the 2195 enbug. rus variety reaction to tristeza virus in Brazii when a in various rootstocks and scion combinations. 2 2467 ing mildew on small grains and two other grasses in slssippi, 1961. OPHTHORA MACROSPORA .789 OTIA imating germinability of sclerotia. 2544 OTINIA BULBORUM i-borne infection of buibous iris by Scierotinia buibor-controiled by bulb and soli treatments with PCNB. . 2461 OTINIA CAMELLIAE HARA ended cuituring of Scierotinia cameiilae. 3185 OTINIA FRUCTICOLA OTINIA FRUCTICOLA ative pathogenicity of two brown rot fungi, Scierotinia .a and Scierotinia fructicoia, on twigs and blossoms. 2725 OTINIA LAXA OTINIA LAXA ative pathogenicity of two brown rot fungi, Scierotinia a and Scierotinia fructicola, on twigs and blossoms. 2725 ROTINIA SCLEROTIORUM ngicldal control of Scierotinia wiit in green beans. 229B ect of some fungleides on pectolytic enzyme activity of erotinia sclerotiorum and Botrytls alili. 24 2479 t-parasite relationships in sunflower wilt incited by erotinia scierotiorum as determined by the twin hn ique . 2737 OTINIOSE l and foliar treatments for the control of Scierotiniose lettuce. 2381 DTIUM ect of various herbicides on some soli fungi in culture. 3094 OTIUM CEPIVORUM te rot disease of onion in relation to methods and dates inoculation, and its incidence in the seedbed. 276 2763 OTIUN COFFEICOLUN erotium disease of coffee incited by Sclerotium coffelum. 2405 ROTIUM DISEASE (COFFEE) erotium disease of coffee lnclted by Sclerotlum coffel-2405 um. OTIUM ROLFSII culum potential and differences among peanuts in suscep-liity to Scierotium rolfsil. 2447 iclency of various methods of appiying PCNB for prevent-soil-borne infestation of bulbous irls by Scierotium fs11. 2463 thern blight of annual ryegrass and winter oats. 2559 incidence of stem rots in tobacco transplants in reia-to wlreworm injury. 27 2720 n OTIUM ROLFSII SACCARDO tted leaf rot of plants- a new Sclerotial disease. 2B2B

SCLEROTIUM ROLFSII SACCARDO

SCREENED IMMERSION PLATE	
SCREENED IMMERSION PLATE Another screened immersion plate for isolating fungl from soli-3225	SEED-BORNE PLANT DISEASES Seed-borne Cercospora on saffiower. 2281
SCREENS	Seed transmission of coffee ring spot by Exceise coffee (coffee Excelse). 277i
Elevated screens for collecting boil weevils flying between hibernation sites and cottonficids. 3292	Seed transmission of the Johnson grass strain of the sugar- cane mosaic virus in corn. 2815
SCUTELLONEMA Parasitic nematodes on Dioscorea spp. in eastern Nigeria. 3074	Properties of a mosaic virus of cowpea and its relationship to the bean pod mottle virus. 2920
SCUTIGERELLA IMMACULATA	Cucumber mosaic virus is seedborne in blue lupines. 2920
Mass rearing of the garden symphylan, Scutigerclia immacu- lata in laboratory cuitures. 2214	Seed-borne fungi in Georgia-grown and western-grown peari millet seed on sale In Georgia during 1960. 2921
SD-7438 The disappearance of dimethoate and SD-7438 from alfaifa. 3118	SEEDBEDS White rot disease of onion in relation to methods and dates of inoculation, and its incidence in the seedbed. 2763
SEED ABORTION Occurrence of excessive seed abortion in citrus fruits af- fected with stubborn disease. 234i	SEEDLING DISEASE (COTTON) In-the-furrow application of soli fungicides for control of cotton seedling diseases. 2643
SEED ANALYSIS A re-evaluation of the quarantine significance of Crypto- spora iongispora Servazzi on imported seed of the Norfoik Island pine, Araucaria excelsa. 2573	SEEDLINGS Relation of nitrogen to disease development in rice seed- lings infected with Heiminthosporium oryzac. 2350
Relations of variety, temperature, and seed immaturity to pre-emergence damping-off of castorbean. 3245	A biight of ground cherry and Russian aimond seedlings caused by Gioeosporium fructigenum Berk. 2456
SEED DECAY The effect of storage temperature and other factors on decay of potato seed pieces. 3087	Host-pathogen relationship of Helminthosporium turcicum in resistant and susceptible corn seedlings. 2519
SEED GERMINATION Estimating germinability of sclerotia. 2544	Some seedilngs of the Van cherry found to be superior to Bing as indicators for the twisted leaf virus. 2633
The effect of variants of Diaporthe phaseoiorum on soybean germination and growth in New Jersey. 2745	Reaction of wheat seedlings to new isolates of wheat stem rust. 2667
Germination of cospopes of Peronospora mashurica. 3215	Crop rotation studies: I. Fungi isolated from cotton seed- lings from the permanent fertilizer experiment at 8ahtim.
Germination of grain sorghum and sudan grass seeds after fumigation with methyi bromide and hydrocyanic acid. 3244	2675 A recently discovered unidentified foilar disease of pepper
Relations of variety, temperature, and seed immaturity to pre-emergence damping-off of castorbean. 3245	seedlings in georgia. 2686 Root inoculation of oil paim seedlings with Ganoderma sp.
An improved technique for testing effects of soluble post- harvest fungicides on spore germination. 3267	2700 Río Oso Gem peach seedlings as indicator hosts for the Prunus ring soot virus. 2745
SEED ROT (RICE) A technique for laboratory evaluation of seed treatments to control rice seed rot. 2617	Prunus ring spot virus. 2745 Observations on deciining sour orange seediing trees in Spain. 2766
Laboratory tests of rice seed treatments in 1964 for control of seed rot. 2619	Some soil factors influencing reproduction of the citrus nemotode and growth reduction of sweet orange seedlings.
SEED TREATMENT Effect of chemical seed treatments on three different lots of the same variety of cotton. 2450	2901 The influence of gibberellic acld on seedling blight of corr 2926
A technique for laboratory evaluation of seed treatments to control rice seed rot. 2617	SEEDS Rhizoctonia seed and root rot of avocado. 2675
Laboratory tests of rice seed treatments in 1964 for control of seed rot. 2618	Evaluation of two systemic insecticides applied as seed treatment for the control of Meloidogyne incognita acrita
Control of conifer damping-off in South Australia. 2900	attacking cotton. 2716 Seed exudation and its influence on pre-emergence damping-
Effects of seed inoculation, soll fumigation, and cropping sequences on nodulation of soybeans grown in soybean-cyst- nematode-infested soil. 302i	off of bean. Fungi isolated from unstored corn seed in Indiana in 1956-
Nematocidal seed treatment for control of Heterodera gly-	1958. 2893
cines in soybeans. 3023	Fungi of bariey seed and their associative effects. 2896
Storage of fungicide-treated pea and cucumber seeds. 3184	A high incidence of Diaporthe phaseolorum occurring in the seed of soybeans from southwestern Ontario. 2910
Effect of seed-treatment fungicides on grain yield and stands of winter and spring wheat. 3231	SEMEN P32-iabeled semen for mosquito mating studies. 2084
Irish potato seed piece treatment with various chemicais. 3241	Relation of semen volume to success in artificial insemi- nation of queen honey bees. 2152
Seed disinfectation with phenacridane chioride, a broad- spectrum bactericide-fungicide. 3242	

SOAP-NUT TRE	c

SENSE DRGAMS The sense organs of the ovipositor of the biowfly, Phormia regina Meigen. 2220	SHELL OS-1836 The systemic insecticidal action of Shell OS-1836 and Bidrin on several insects associated with conifers. 3180
SEPTOCYLINDRIUM AROMATICUM Septocylindrium aromaticum on sweet flag. 2553	SHIRD-FUGEN FLOWERING CHERRY The epinasty virus reaction of Kwanzan and Shiro-fugen flowering cherry. 2665
SEPTORIA An inverse relationship between the severities of Helminth- osporium leaf-blade and Septoria leaf-sheath symptoms on barley. 2687	SHORT STEM (MAZZARD CHERRIES) short stem virosis of sweet cherries. 2260
SEPTORIA APII Dis reduce sporulation of Septoria on celery. 2935	SIGATOKA (BANANAS) A practical method for evaluating low volume spray oil de- posits in the control of sigatoka disease of bananas. 2258
SEPTORIA ERIDBOTRYAE MAFFEI Septoria eriobotryae Maffei: A first report for the United States. 2653	Importance of source of spray oils for sigatoka disease con- troi and phytotoxicity to banana ieaves. 2334
SEPTORIA MACROPODA Varietal reaction of Kentucky biuegrass to Septoria leaf spot (Septoria macropoda). 2443	Control of Cercospora leaf spot of bananas with application of oil sprays based on the disease cycle. 2596
SEPTORIA TRITICI Septoria leaf biotch, important disease of wheat in Guate- maia. 2804	SILK BALLING Silk bailing and other factors associated with resistance of corn to corn earworm. 2984
SERIAL TRANSFER Fungicide tolerance in Rhizoctonia solani influenced by temperature and serial transfer in fungicide-treated soli.	SILKMOTHS Programmed ceii death- I. Endocrine potentiation of the breakdown of the intersegmental muscles of siikmoths. 2149
2762 SEROLOGICAL TESTS Serological comparison of Cronartium fusiforme, C. cere- brum, and C. ribicola. 2239	SILKWORMS Enzymatic pathways in the formation of sorbitoi and giyceroi in the diapausing egg of the siikworm, 8ombyx mori - I. on the poiyoi dehydrogenases. 2073
SESAME Reaction of sesame to Fusarium wilt in South Carolina. 2775	Effect of sugars on feeding of larvae of the silkworm, Bombyx mori. 2127
Effect of photoperiod and nitrogen on reaction of sesame to Pseudomonas sesami and Xanthomonas sesami. 3247	Tyrosinase in the silkworm during the pupation period. 2133
SEX Morphology, taxonomy, and sexuality of the ascogenous stages of two Colletotrichum spp. that attack cucurbits. 2552	SILVER NITRATE Silver nitrate Increases infection by tobacco mosaic virus. 2453
SEX ATTRACTANTS Apparent loss of sex attractiveness by the female of the	SILVICIDES Consideration of the use of persimmon wiit as a silvicide for weed persimmons. 2933
Virginia-pine sawfiy, Neodiprion pratti pratti. 2062 Naturai sex attractant of the lesser peach tree borer. 2075	SITONA CYLINDRICOLLIS Host-range studies with the sweetclover weevil and the sweetclover aphid. 2018
A sex attractactant for female boil weevlls from males. 2134	SITONA HISPIDULA Flight study of the clover root curculio. 2028
A sex pheromone in the housefiy, Musca domestica L. 2189 Electrophysiological investigation on the oifactory	SITOPHILUS DRYZAE Rating dent corn for resistance to rice weeviis. kirk, v m. 2985
specificity of sexual attracting substances in different species of moths. 2193	SMUT (BARLEY) Effect of temperature and point of inoculation on the symp-
Collection of the sex attractant from female american cockroaches. 2232	tomatology of barley covered smut. 2589 SMUT (CYMBDPOGON CITRATUS)
SEX BEHAVIOR Apparent loss of sex attractiveness by the female of the Virginia-pine sawfiy, Neodiprion pratti pratti. 2062	A new smut of iemon grass from India. 2764 SMUT (ONIONS) Onion smut control experiments with granule formulations in
P32-labeled semen for mosquito mating studies. 2084	greenhouse and field. 2710
The effect of photoperiod, light intensity, and temperature on copulation, oviposition, and fertility of the Mexican fruit fly. 2102	SMUT (RICE) Rice diseases in the Deita Area of Mississippi in 1959. 2561
Some aspects of the mating and oviposition behavior of the codiing moth, Carpocapsa pomonella. 2103	SMUT (SORGHUM) Assessment of loss due to grain smut of jowar miliet (Sorg- hum vulgare) in India. 2651
SEX DETERMINATION Sexing large numbers of Drosophila melanogaster adults by a size differential. 2012	SNOW MOLD (GRASSES) Control of snow mold by regulating winter soli temperature.
Aspirator for rapid sexing and transfer of eye gnats, Hipp- eiates pusio. 3285	2621 SDAP-NUT TREE Two new diseases of soap-nut tree (Saplndus species) from
SHEEP Toxicity to sheep of three fungicidal compounds (captan, ceresan m, and zineb). 3151	India. 2732

SODIUM ORTHOPHENYLPHENATE	
SODIUM ORTHOPHENYLPHENATE Use of foam washers for treating poststorage lemons with so-	bean root-rot complex.
dium orthophenyiphenate. 3269	Plate-profile technique ties of some soli micro
SODIUM USNATE Sodium usnate as an antibiotic for plant diseases. 3120	The value of plant-grow Isolating soll fungl.
SOGATA CUBANA Transmission of hoja blanca of rice by the planthopper, Sogata cubana. 2446	Vermiculite media for g
SDGATA DRIZICOLA MUIR Decurence of hoja bianca and its insect vector, Sogata orizicola Muir, on rice in Louisiana. 2285	SOIL FUNGICIDES Tests of soli fungicide trol of cotton damping-
SDIL ANALYSIS Methods for estimating numbers of resting sporangla of Synchystrium endobloticum in soli. 2705	SOIL INSECTICIDES The disappearance of dl
SOIL CHEMISTRY	Effectlyeness and resid against the eye gnat, H
Effect of plating medium and incubation temperature on the growth of fungi in soll-dilution plates. 3228	SOIL MICROBIOLOGY
SOIL CONTAMINATION Invasion of peanut pods in the soil by Aspergillus flavus. 2394	Temperature and the qua a modified Baermann fun SOIL NICRODRGANISMS
Decurrence of Xiphinema americanum Cobb in some Saskat- chewan solis. 3060	Microorganisms in soil stands.
SOIL DILUTION PLATES	The identification and Pseudomonas solanacearu
Effect of certain fungal isolation agar media on Thielaviopsis basicola and on its recovery in soli diiu- tion plates. 2891	Plate-profile technique ties of some soli micro
SOIL FUMIGATION Control of Fusarium yellows of celery by means of soil fum- lastion. 2289	Polyethyiene bags for t
Preliminary trials on the control of Verticiliium wilt of eggplants by soli fumigation. 2493	SOIL MOISTURE Combined relation of pl moisture to charcoal st
In-the-furrow application of soil fungicides for control of cotton seedling diseases. 2643	Ingress of Pratylenchus
Control of Pythium root diseases with soil fungicides. 2865	relation to soil moistu Rhizopus rot of peaches
Control of root-lesion nematode, Pratylenchus penetrans, on narcissus. 3006	ture and moisture. Influence of soli moist
Effects of seed inoculation, soll fumigation, and cropping sequences on nodulation of soybeans grown in soybean-cyst- nematode-infested soll. 3021	in a mineral soli to in Influence of nutrition Corticium red thread of
Evaluation of two soil fumigants in Easter lily bulb pro- duction. 3099	SOIL ROT
Soll fungicides for control of pea root rot in greenhouse tests. 3101	Comparative effects of and damping-off of cucu
A preliminary report on two experimental soll fumigants. 3102	SOIL SAMPLING Some probable relations survival of Porla weirl
Changes in plant growth with chemicais used as soli fuml- gants. 3186	Pratylenchus zeae found new hosts in California
A simple substitute for a Baermann funnei. 3283	Occurrence of Xiphinema chewan solis.
SOIL FUNGI The role of fungi in the peach replant problem. 2523	Incubation of soil and for improved recovery n
Some probable relationships of soli fungi and zone lines to survival of Poria weirli in buried wood blocks. 2704	Two new nematode subsam
Comparative study of quantitative methods used for estimat- ing the population of Thielaviopsis basicola in soli.	A simple substitute for
2890 Effect of various herbicides on some soli fungi in cuiture.	SOIL SAMPLING (NEMATODES) Temperature and the qua a modified Baermann fun
3094 Effectiveness of mixtures of pyridinethiol derivatives and PCN8 (terrachior) for control of a complex of soll fungi.	SOIL TEMPERATURE Influence of temperatur hosts.
3095 In vitro effects of Streptomyces rimosus on some soil-in-	An improved system for study of soil-borne pla
habiting pathogenic fungl. 3097 Selective effects of barley residue on fungl of the pinto	Control of snow mold by

late-profile technique for isolating and studying activi-ies of some soli microorganisms. 31 3188 he value of plant-growth regulators in a basal medium for solating soll fungl. 3210 ermiculite media for growing fungi. 3248 L FUNGICIDES ests of soli fungicides under uniform conditions for conests of soli fungicides under uniform conditions for con-rol of cotton damping-off caused by Rhizoctonia solani. 2730 L INSECTICIDES he disappearance of dimethoate from soil. 3096 ffectlyeness and residual activity of new compounds in soil gainst the eye gnat, Hippelates collusor. 3155 L MICROSIOLOGY emperature and the quantitative recovery of nematodes with modified Baermann funnel. 300 3005 L MICROORGANISMS icroorganisms in soil from Fomes annosus infected pine tands. 2259 he identification and persistence of an indigenous race of seudomonas solanacearum in soil in Georgia. 240 2402 late-profile technique for isolating and studying activiies of some soli microorganisms. 3188 olyethylene bags for the study of soli microorganisms. 3274 L MOISTURE combined relation of plant maturity, temperature, and soil coisture to charcoal stalk rot development in grain sorghum ngress of Pratylenchus penetrans into aifaifa roots in 2572 elation to soil moisture content. hizopus rot of peaches as affected by postharvest tempera ure and moisture. 2830 nfluence of soli molsture on the toxicity of insecticides n a mineral soli to insects. 31 3140 nfluence of nutrition and soli moisture on development of orticium red thread of Penniawn and Rainier red fescues. 3238 L ROT iomparative effects of soil fungicide treatments on soil rot nd damping-off of cucumber. 2568 L SAMPLING ome probable relationships of soil fungi and zone lines to urvival of Porla weiril in buried wood blocks. 2704 ratylenchus zeae found on corn, milo, and three suspected 3009 ew hosts in California. ccurrence of Xiphinema americanum Cobb in some Saskat-3060 hewan solls. ncubation of soil and root samples in polyethylene plastic or improved recovery nematodes. 3069 wo new nematode subsampling tools. 3264 simple substitute for a Saermann funnel. 3283 L SAMPLING (NEMATODES) emperature and the quantitative recovery of nematodes with modified Baermann funnel. 300 3005 L TEMPERATURE nfluence of temperature on iniation of crown gall in woody osts. 2388 n improved system for controlling soil temperatures in the tudy of soil-borne plant pathogens. 250 2501

3114

Control of snow mold by regulating winter soli temperature. 2621

SOUTHERN SLIGHT (LOLIUM)

SORGHO Black root-rot development on pinto beans, incited by selec-ted Thielaviopsis basicola isolates, as influenced by dif-ferrent soil temperatures. 2642 Anthracnose inoculation of sorgo with a tractor-mounted 2386 sprayer. SORGHUM Effects of soli temperature and selected crop residues on the development and severity of Fusarium root-rot of bean. Combined relation of plant maturity, temperature, and soli moisture to charcoal stalk rot development in grain sorghum 2644 406 SOIL TREATMENT Outbreak of zonate leafspot of sorghum-sudan hybrids in and foliar treatments for the control of Sclerotiniose 2481 Alabama. of lettuce. 2381 Effect of loose kernel smut on vegetative growth of Johnson Soll-borne infection of bulbous irls by Scierotinia bulbor-um controlled by bulb and soil treatments with PCNB. . 2640 grass and sorghum. 2461 Assessment of loss due to grain smut of jowar millet (Sorg-2651 hum vulgare) in India. Greenhouse evaluations of soil fungicides for the control of Germination of grain sorghum and sudan grass seeds after pea root rot. 2489 fumigation with methyl bromide and hydrocyanic acid. 3244 Fungicide tolerance in Rhizoctonia solani influenced by temperature and serial transfer in fungicide-treated soli. SORGHUM HALEPENSE 2762 Effect of loose kernel smut on vegetative growih of Johnson grass and sorghum. 2640 Sweetpotato production on soll treated with soli fumigant. Seed transmission of the Johnson grass strain of the sugar 3072 cane mosaic virus in corn 2819 SOIL-SORNE PESTS Evaluation of treatments for the control of soli-borne pests SORGHUM VULGARE SUDANENSE of tomato. Outbreak of zonate leafspot of sorghum-sudan hybrids in 24B1 Alabama. Germination of grain sorghum and sudan grass seeds after 3244 fumigation with methyl bromide and hydrocyanic acid. 2461 SOUR CHERRY NECROTIC RING SPOT (CHERRIES) Efficiency of various methods of applying PCN8 for prevent-ing soil-borne infestation of bulbous iris by Scierotium The frequency of necrotic ring spot, sour cherry yellows, and green ring mottie viruses in naturally infected sweet rolfsil. 2463 and sour cherry orchard trees. 2457 An improved system for controlling soil temperatures in the study of soil-borne plant pathogens. 2501 SOUR CHERRY YELLOWS (CHERRIES) The frequency of necrotic ring spot, sour cherry yellows, and green ring mottle viruses in naturally infected sweet Properties and transmission of soil-borne oat mosalc virus. and sour cherry orchard trees. 2457 Transmission of soli-borne oat mosaic virus increased by 2879 The rapid determination of necrotic ring spot and sour cherry yellows viruses of stone fruits. 245 2458 SOUR ORANGES Schavlor of Phytophthora palmivora in soil. 2896 Detection of psorosis virus in leaves of sour orange by the lodine test. 240B SOILS The influence of in-covering soil fungicides on the covering soil microflora in relation to cotton seedling disease Detection of psorosis virus infection in leaves of sour orange by the iodine test. 2409 2306 occurrence. Studies on Petri s variegation of sour orange leaves. 2645 Inherent germinability and survival of spores of Cochlio-2355 Observations on declining sour orange seedling trees in 2768 Factors related to soil transmission of tobacco ringspot Spain. 2441 vlrus. SOUR ROT (CITRUS) Taxonomy and physiological properties of fungus causing sour rot of citrus fruit. 2331 Some soll factors influencing reproduction of the citrus nematode and growth reduction of sweet orange seedlings. 2901 SOUTH CAROLINA Comparative efficiencies of three methods for extracting nematodes from root and soll samples. 3276 Observations on cotton boll rot at Florence, South Caro-iina in 1964. 2648 The separation of nematodes from soil by a modified Baer SOUTH CAROLINA Polyporus spp. associated with wood decay of living peach trees in south carolina. 2 3294 mann funnel technique. 2741 Another screened immersion plats for isolating fungl from 3295 Reaction of sesame to Fusarium wilt in South Carolina. soil. 2776 SOLENOPSIS SAEVISSIMA RICHTERI The acceptabllity of some fats and olis as food to imported SOUTHEAST 2150 Bacterial canker of stone fruits in the southeastern fire ants. States. 2740 Imported fire ant toxic balt studies: evaluation of carriers for oll baits. 3149 An evaluation of cycloheximide (Acti-dione) for control of white pine blister rust in the Southeast. 27 2756 SOPHORA JAPONICA Fusarium canker of Sophora japonica. 2744 SOUTHERN BLIGHT Southern blight of annual ryegrass and winter oat. 2560 SORBUS AUCUPARIA Fusicoccum canker of mountain ash in Illinois. 2809 SOUTHERN BLIGHT (LOLIUM) Southern blight of annual ryegrass and winter oats. 2559

SOUTHERN BLIGHT (OATS) SOUTHERN BLIGHT (DATS) SPHAEROTHECA FULIGINEA Southern blight of annual ryegrass and winter oats. 2559 Zinnia elegans a new host of Sphaerotheca fuilginea. SOUTHERN BLIGHT (TOMATOES) SPHAEROTHECA PANNOSA Ineffectiveness of calcium nitrate and other calcium sources in reducing southern blight incidence on Rutgers tomato function control of powdery mildew of roses, caused by the fungus Sphaerotheca pannosa, with derivatives of cyclohex-2941 under epiphytotic conditions. imide. SOUTHERN MOSAIC (BEANS) Difference in the translocatability of tobacco ringspot and southern bean mosaic viruses in bean. 2809 2803 SOUTHERN POTATO WIREWORM SPIDERS The southern potato wireworm, a new pest of tobacco. 2971 SOUTHERN STEM ROT Effect of some plant growth-retarding compounds on three fungal diseases and one viral disease. 2863 SPINACH SOUTHWEST New hosts for broom-causing fungi in the Southwest. 2625 SOVIET UNION Control of diseases and insect pests of crop plants in the SPIRACLES 2240 soviet union. SUYBEANS Transmission, movement, and vector relationships of tobacco ringspot virus in soybean. 230 2302 Pythium pre-emergence damping-off of soybean in minnesota 2327 Phytophthora root rot of soybean in Minnesota. 2329 Stunt disease of soybeans caused by Corynebacterium sp. SPORANGIA 2404 Penetration and development of Heterodera glycines in soy bean roots and related anatomical changes. 2410 The effect of variants of Diaporthe phaseolorum on soybean germlnation and growth In New Jersey. 27 2746 Corynespora cassiicola on soybean in Ontario. 2813 A leaf-crinkling bacterium of soybeans. 2862 A high incidence of Diaporthe phaseolorum occurring in the 2910 seed of soybeans from southwestern Ontario. Effects of seed inoculation, soll fumigation, and cropping sequences on nodulation of soybeans grown in soybean-cyst nematode-infested soil. 3021 Nematocidal seed treatment for control of Heterodera gly-3023 Interaction of Heterodera glycines and Meloidogyne incog-3059 Carbaryl toxicity symptoms on soybeans. 3162 trap. SPAIN Observations on decilning sour orange seedling trees in 2763 Spain. SPANISH PEANUTS SPORES Sources of inoculum for Aspergillus niger disease of Span-2284 ish peanuts. Chemical control of Meloidogyne arenaria on Spanish pea-3073 SPECTROPHOTOMETRY Histochemical and spectrophotometrical studies on several dehydrogenases of carbohydrate metabolism in Oniscus 2117 asellus. SPHACELOMA POINSETTIAE Poinsettia scab-A new report for Puerto Rico. 2791 SPHAEROPHRAGHIUM ACACIAE Sphaerophragmium rust discovered in Fiorida of Albizia lebbeck (L.) Benth. 2650 SPHAEROTECA PANNOSA Sporulation by Cercosporelia herpotrichoides on artificial Systemic control of powdery mildew of roses (Sphaerotheca pannosa) with the semicarbazone derivative of Acti-dione. media. 2565

SPHINGIDAE Microbiai and chemical control of hornworms attacking to-2959 bacco in Ontario. Populations of certain insects and spiders on cotton piants following insecticide applications. 202 Infectivity differences between Olpidium from roots of spinach and lettuce. 2773
 SPINDLE TUBER (POTATOES)

 Some factors affecting the transmission and stability of po-tato spindle tuber virus.
 2537
 The body temperature of the tsetse fiy, Glossina morsitans Westwood (Diptera, Muscidae). 20 2095 SPODOPTERA FRUGIPERDA Rearing the fail armyworm under greenhouse conditions. 2186 Resistance of sweet corn varieties to the fail armyworm, 2962 Methods for estimating numbers of resting sporangia of Synchytrium endobioticum in soil. 2706 SPORANGIUM Culture media for sporangial production in Phytophthora 3217 fragariae. SPORE CONCENTRATION Effect of uredispore concentration on determination of races of Uromyces phaseoli var, phaseoli. 2385 SPORE DISPERSAL The effect of weather on dispersal of Alternaria spores in a semi-arid region of Israel. 2787 SPORE GERMINATION Inherent germinability and survival of spores of Cochlio-bolus sativus. 2 2355 SPORE SURVIVAL Inherent germinability and survival of spores of Cochilobolus sativus. 2355 SPORE TRAP ORE TRAP A portable, inexpensive, and continuously sampling spore 3282 SPORE TRAPS ORE INAPS A spore trap for studying spore release from basidlocarps. 3284 Nuclei in spores and mycelium of verticillium. 2788 Cold-induced dormancy and its reversal in uredospores of Puccinia graminis var. tritici. 3202 Violent spore release in Stemphylium botryosum wallr. 3236 An improved technique for testing effects of soluble post harvest fungicides on spore germination. 3 3267 A spore trap for studying spore release from basidiocarps. 3284 SPORULATION Relation of radiation and temperature to the sporulation of Alternaria tomato and other fungi. 2273

2555

2566

2349

SPOTTED LEAF ROT Spotted leaf rot of	f plants- a new S	Sclerotial disease.		STEM A p
			2829	L.)
SPOTTED WILT (TOMATON Bacterial canker as trai Great Plains.	:S) nd spotted wlit (of tomato in the we	st-cen- 2872	STEM Rhi STEM
SPRAY RETENTION Physico-chemical s retention of spray		ltural sprays. IV. surfaces.	The 3218	Ste
SPRAYER		lth a tractor-mount		Fun
sprayer.			2386	STEM Ar diu
A practical method posits in the contr	for evaluating 1 rol of slgatoka (low volume spray ol disease of bananas.	1 de- 2258	STEM Lep
Apple scab .effec lesions on previous		tion of fungicldes ees.	on leaf 2262	Was STEM
Importance of source trol and phytotoxic		for sigatoka disea eaves.	se con- 2334	An ste
1964 Spray tests to	control pecan s	scab.	2360	STEM The tlo
Contact fungicides	for peach scab o	control.	2471	STEM
Control of Cercospo of oll sprays based	ora leaf spot of d on the disease	bananas with appli cycie.	cation 2595	Inh tar
Control of tobacco	brown spot by fi	ield spraying with	dyrene. 2636	STEM Ste
Cycloheximide for H	awthorn leaf spo	ot.	2913	STEM
Timing of insectic gation water agains		follar sprays and l salis in Korea.	n lrrl- 2957	Phy Kor
Abscence of residue dimethoate.	es in milk after	barns were sprayed	with 3105	Rea rus
Physico-chemical s retention of spray		ltural sprays. IV. surfaces.	The 3218	Eff fun
SPRAYING EQUIPMENT Spray deposits on a three types of spra		owing applications	by 3265	STEM Dis con
SPRINKLER IRRIGATION Effectlveness of DI Radopholus simills		es for the control	of 3068	STEMP A S
SQUASH Some epiphytotic as	spects of squash	mosalc.	2625	VIC
STALK ROT (CORN) Stalk deterloration	n of plants susce	eptible to corn sta	lk rot. 2423	STEMP A f
fungl assoclated wi	Ith corn stalk ro	arative pathogenici ot.	ty of 2745	STEMP A s tan
STAR CRACKING (APPLES Symptoms and transm of apple in Washing	nission of a sta	ar cracking type d	lsease 2312	STEMS Abs
STARCHES Amylase of digestiv starch in the silks		ilzatlon of dextrin L.	and 2167	STERI Ste aph
Inheritance and lin tances and starch i		st and loose smut r	esls- 2815	Lat
STARVATION Phosphory iethanolar	line and phosphor	ylchoilne in the h	aemo-	Rad
lymph of larvae of tlon.	Gallerla mellone	elia L. during star	va- 2143	mos
STATISTICS	functoria i	1050	2333	gen
Screening of potato				STERC
Cherry rosette: Its and Its possible at	finity with Stee	th Pfefflngerkrankh sklinburger disease	•	of
			2455	Eff

STEM BLIGHT (YELLOW LUPINE) A phomopsis stem bilght of geliow lupine (Lupinus luteu L.).	³ 2728
STEM CANKER (TOMATDES) Rhizoctonia stem canker of tomatoes.	2859
STEM CAVITY RUSSET (APPLES) Stem cavity russet of apples.	2310
STEM ROT (LENTILS) Fungl isolated from diseased ientli seedlings in 1963-6	4. 2937
STEM ROT (LIRIODENDRON TULIPIFERA) A root and stem rot of yellow-poplar caused by Cylindro dium scoparlum.	cla- 2581
STEM ROT (RYE) Leptosphaerla herpotricholdes on rye in Clark County, Vashington.	2847
STEM ROT (SWEETPOTATOES) An improved method for determining resistance to Fusari stem rot of sweetpotatoes.	um 2497
STEM ROT (TOBACCO) The incidence of stem rots in tobacco transplants in re tion to wireworm injury.	1a- 2720
STEM RUST (BARLEY) Inheritance and linkage of stem rust and loose smut res tances and starch type in barley.	ls→ 2815
STEM RUST (DATS) Stem rust resistance of the Ukraine oat and derivativ	es. 2800
STEM RUST (WHEAT) Physiologic races of Puccinia graminis tritici in South Korea.	ern 2356
Reaction of wheat seedlings to new isolates of wheat st rust.	em 2667
Effect of some plant growth-retarding compounds on thre fungal diseases and one viral disease.	e 2863
STEM TUMORS Distinguishing tissue of normal and pathological origin complex media.	on 2849
STEMPHYLIUM A Stemphyllum leaf spot disease of gram.	2382
STEMPHYLIUM BOTRYOSUM WALLR. Vloient spore release in Stemphyilum botryosum walir.	3236
STEMPHYLIUM FLORIDANUM A flower rot symptom associated with Stemphyllum ray sp of chrysanthemum.	eck 2548
STEMPHYLIUM SOLANI A second independent gene in blue lupine conditioning r tance to Stemphylium solani.	esls- 2424
STEMS Absorption of gas bubbles in cuttings and injected stem	s. 3212
STERILIZATION Sterlilzation of the face fiy, Musca autumnalis, with aphoiate and tepa.	2111
Laboratory studles on sterliization of the boil weevil apholate.	wlth 2I47
Radiosterilation vs. chemosteriiization in house files mosquitoes.	and 2192
Production of sterile onlon bulbs and roots for the p genicity of fungus isolates.	atho- 2915
STEROLS The nutritional requirments of locusts II. Utilization of sterols.	n 2082
Effects of sterols on feeding and nutrition of the slik	WORD.

Effects of sterols on feeding and nutrition of the slikworm, Bombyx mori L. \$2129\$

PAGE 141

STEROLS

STEWART S DISEASE	
STEWART S DISEASE	5669
Stewart s disease: expected development on corn in fiflnois in 1961. 2315	Rapid spread of mottie and mild yellow-edge viruses into hybrid strawberry selections. 2672
STIMULANTS Stimulation of a new Rhizoctonia species by strawberry root exudates. 3225	Initiation of strawberry fruit rot caused by Botrytis cinerea. 2753
STING NEMATODE Influence of sting nematode control with 0,0-dlethyi 0-2-	Field resistance of 29 additional strawberry varietles and selections to Verticilium, 1959. 2902
pyrazinyi phosphorothicate on yieid and quality of peanuts. 3061	Gioeosporium rot of strawberry fruit. 2942
STINKING SMUT (WHEAT) Wheat smut as viewed in the early agricuitural press of cal- ifornia. 2836	Seasonal population variations of Pratylenchus penetrans in and about strawberry roots. 3020
Isolation and in vitro cuiture of the wheat bunt fungi Tii- ietia caries and T. controversa. 2895	Reduction of postharvest decay of strawberries with chemical and heat treatments. 3091
STOLONS	Stimulation of a new Rhizoctonia species by strawberry root exudates.
Fungi associated with white clover stolons in selected areas of the southeast during mid-summer, 1959. 2491	STREAK (PEAS) Reactions of piant introduction lines of Pisum sativum to
Seasonal prevaience of stoion-rotting fungl in 24 lines of white clover. 2492	aifalfa mosaic, clover yellow mosaic, and pea streak virus- es, and to powdery mildew. 2428
STOMOXYS CALCITRANS Absorption, excretion, and metabolism of P32-labeled metepa by screw-worm and stable flies. 2072	Translocation and titer increase studies of three pea virus isolates. 2769
STORAGE Locomotor activity of the hairy spider beetle at the surface of stored wheat. 2033	STREAK MOSAIC (WHEAT) Sources, transmission, symptomatology, and distribution of wheat streak mosaic virus in texas. 2283
Long term storage of the sugarcane mosaic virus. 2876	STREPTOMYCES RIMOSUS In vitro effects of Streptomyces rimosus on some soil-in- habiting pathogenic fungi. 3097
Motifity and infectivity of Meloidogyne javanica as affect- ed by storage time and temperature in water. 3071	STRIATE MOSAIC (WHEAT)
Water core in Lady variety apples during storage. 30B5	Wheat striate mosaic observed in Montana. 2494 Dverwintering of wheat striate mosaic virus in North Dako-
Environmental influences on development of glume blotch in wheat. 3090	ta. 2873
Storage of fungicide-treated pea and cucumber seeds. 3184	STRIDULATION Analysis of songs of Japanese cicadas. 2110
STORAGE DISEASES Heat curing treatments of gladiolus corms compared with fun- gicidai dips in controlling Fusarium disease. 2286	STRIPE MOSAIC (BARLEY) Effect of barley stripe mosaic on wheat. 2420
The effect of storage temperature and other factors on decay of potato seed pieces. 3087	Heat treatments fail to inactivate barley stripe mosaic vi- rus in seed. 2874
Postharvest fungicide treatments for reduction of decay in Anjou pears. 3089	STRIPE RUST (WHEAT) Stripe rust resistance of Suwon 92 and its relationship to several morphological characteristics in wheat. 2264
STURAGE TEMPERATURE The effect of storage temperature and other factors on decay	Stripe-rust head infection in flve Pacific Northwest wheats. 275B
of potato seed pieces. 3087 STORED-PRODUCT INSECTS	STRIPE SMUT (BENTGRASS) Stripe smut damage on Pennlu creeping bentgrass. 2505
Intergranular space as a limiting factor for the growth of pulse beetles. 2107	STRIPE SMUT (POA PRATENSIS) Urea, an effective treatment for stripe smut on Poa praten-
Nitrofurans as chemosterilants of stored-grain insects. 2213	sis. 2639
Detection by witraviolet light of stored-product insects in- fected with Mattesia dispora. 3092	STUBBLE Alfalfa weevil control by stubble treatment. 2990
Protection of wheat seed with diatomaceous earth. 3093	STUBBORN DISEASE (CITRUS) Occurrence of excessive seed abortion in citrus fruits af- fected with stubborn disease. 2341
A laboratory device for observing insects and mites involved In heating of stored grain. 3263	Research on stubborn disease in Morocco. 2344
STRAWBERRIES Macrosiphum rosae, Acyrthosiphon porosum, and Aphis gos- sypii as vectors of strawberry viruses in Louisiana. 2342	STUMPS The effect of competition by Peniophora glgantea on the growth of Fomes annosus in stumps and roots, 2526
Effect of mottie virus on the runner production and fruit yield of two Louisiana strawberry seedlings. 2343	STUNT (CORN) Symptoms and distribution of corn stunt disease in Missouri in 1964. 2335
Differential transmission of nineteen variations of straw- berry mottle virus by Aphis gossypii Glover, 2432	The status of corn stunt disease in Georgia in 1964. 2603
Taxonomy of the bacterium causing angular leaf spot on strawberry. 2586	STUNT (GRAINS) Stunt of small grains, a new disease caused by the nematode Tylenchorhynchus brevidens. 3041
Non-transmission of certain strawberry viruses by nematodes.	

PAGE 142

		SYSTEMIC INSE	CTICIDE
STUNT (SOYBEANS) Stunt disease of soybeans caused by Corynebacterium sp.		of losses.	2668
2: STUNTING (TREES) Association of dagger nematode, Xiphinema americanum, witi	2404	SUWUN 92 Stripe rust resistance of Suwon 92 and its relationship several morphological characteristics in wheat.	to 2264
stunting and winterkill of ornamental spruce. 24	2475	SWEET FLAG Septocylindrium aromaticum on sweet flag.	2553
SUBARCTIC REGIONS Review of the species of Tetratocoris Fieber, with description of a new species from the Neararctic region (Hemiptera: Miridae). 2/	2015	SWEET ORANGES Greening disease of sweet orange in South Africa.	2722
SUBGENUAL DRGAM An investigation into the mode of action of the subgenual organ in the termite, Zootermopsis angusticoliis Emerson,		SWEET POTATOES Relation of insects to internal cork of sweet potato in Louisiana.	2980
SUBSTRATES	2125	SWEETCORN Sweet corn susceptibility to maize dwarf mosaic.	2550
Boli weevil oviposition responses in cotton squares and various other substrates. 21	093	Resistance of sweet corn varieties to the fail armyworm Laphygma frugiperda.	2962
SUCCINIC DEHYDROGENASE Effect of DDT and toxaphene alone and in combination on succinic dehydrogenase activity in homogenates of the bol		European corn borer damage to sweet corn as affected by date of planting.	2967
weevii. 3: SUCROSE	154	Toxicity of new insecticides to corn earworms on sweet	3119
Effect of host components and sucrose on infection by potato yellow dwarf virus. 2: SUDAN	2923	SWEETPOTATOES Attempts to control dissemination of internal cork viru sweetpotatoes with insecticides.	s of 2485
A new virus disease of tomato from the Sudan. 23	945	An improved method for determining resistance to Fusari stem rot of sweetpotatoes.	um 2497
SUGAR BEETS Pathogenicity and growth rates of Phytophthora drechsieri isolates from safflower and sugarbeet. 21	807	Heat treatments for eliminating virus from sweet potato plants.	2516
Effect of strains of the beet mosaic virus on the yield of sugarbeets. 20	of 821	Susceptibility of sweetpotato varieties to yellow dwarf	2517
Chemical control of the beet webworm on sugar beets in southern Alberta. 29	985	Resistance in sweetpotato to the internal cork virus.	2714
SUGARCANE		Bilster, a new disease of sweetpotato.	2715
	379	Thermotherapy for root-knot nematodes, Meloidogyne spp. sweetpotato and tarragon propagating stocks.	, of 2870
Studies on the disease cycle of red rot of sugarcane in Louisiana. 24	425	The reniform nematode may be a serious pest of the swee potato.	t- 3045
Evidence of a toxic substance produced by fungi involved i seed-piece rot of sugarcane. 24	in 430	Sweetpotato production on soil treated with soil fumiga	nts. 3072
Sugarcane rust in Tanganyika. 25	914	CYNANTHEDON DIGTIDES	0012
Vector-virus relationship of sugarcane mosaic virus. III. Transmission of sugarcane mosaic virus by the rusty plum aphid (Hysteroneura setariae Thos.). 22	953	SYMANTHEDON PICTIPES Natural sex attractant of the lesser peach tree borer.	2075
SUGARS Effect of sugars on feeding of larvae of the slikworm,	2127	SYNCHYTRIUM ENDOBIOTICUM Methods for estimating numbers of resting sporangia of Synchytrium endobioticum in soli.	2706
Changes in sugars and amino acids of cucumber fruits in-	:654	SYNTHETIC DIETS Nutrition of the silkworm, Bombyx mori-VII. An aseptic culture of larvae on semi-synthetic diets.	2128
SUMMER BUNCH ROT (GRAPES) Etiology of summer bunch rot of grapes in California. 25	:513	SYRINGES An improved technique for testing effects of soluble po harvest fungicides on spore germination.	st- 3267
SUN SCALD (CORN) Sun scaid of corn in Wisconsin in 1961. 22	242	SYSTEMIC INSECTICIDES Granular in-furrow treatments with phorate and Di-systo against the pea aphids in peas.	n 2968
SUNFLOWERS Rust on sunflowers in the Mississippi Deita. 23	375	Control of potato aphids with systemic insecticides.	2991
Phoma black stem of sunflowers. 20	655	The use of systemic insecticides for controi of the pot ieafhopper, Empoasca fabae, and effect on potato yield.	
Host-parasite relationships in sunflower wilt incited by Scierotinia scierotiorum as determined by the twin technique. 27	737	Control of the face fly on cattle with co-ral in grain	3003
	904	on pasture.	3082
SURVEYS Insect survey of forage crops in Prince Edward Island.		Systemic effectiveness of insecticides against boli wee larvae and other cotton pests.	vil 3126
20	:036	Further evaluation of animal systemic insecticides, 196	3. 3132
New techniques for plant disease surveys and for appraisa	i		

SYSTEMIC INSECTICIDES

TAGETES MINUTA

Control of the southwestern corn borer with an experimental systemic insecticide.	S
Laboratory studies with systemic insecticides for control o the orientai rat flea on white rats. 314	
Control of certain insects and mites on cotton with three systemic organophosphorus compounds. 314	9
Control of birch leaf miner with systemics. 317	1
TAGETES MINUTA Bacterial wilt of Tagetes minuta. 240	1
TANGANYIKA Sugarcane rust in Tanganyika. 291	4
TANZANIA A study of the age composition of Anopheles gamblae Giles and A. funestus Giles in north-eastern Tanzania. 200	6
TASTE TESTING A note on water uptake and gustatory discrmination in a predatory Reduviid (Hemiptera). 209	6
TAXONOMY Taxonomy of the bacterlum causing angular leaf spot on strawberry. 258	5
TAXU5 Leaf drop of Taxus. 286	0
Fungi associated with defoliation of Taxus cuttings. 286	1
TELONE Sweetpotato production on soll treated with soll fumigants. 307	2
TEMPERATURE	
The effect of photoperiod, light intensity, and temperature on copulation, oviposition, and fertility of the Mexican fruit fly. 210	
Effects of food, temperature and oviposition site on iongevity and fecundity of the army cutworm. 217	э
Effect of temperature on fecundity of two strains of the greenbug. 219	5
Relation of radiation and temperature to the sporulation of Alternaria tomato and other fungi. 227	
Influence of temperature on growth of Fomes annosus iso- lates. 237	2
Combined relation of piant maturity, temperature, and soii moisture to charcoal staik rot development in grain sorghum 240	
Low temperature injury as a contributing factor in Cyto- spora invasion of plum trees. 251	0
High temperature foliowing infection checks downy mildew of iima bean. 254	
The effect of temperature, relative humidity and precipi- tation on peanut leafspot. 255	4
Identification of wheat leaf rust resistance combinations b differential temperature effects. 256	
Effect of temperature and point of inoculation on the symp- tomatology of barley covered smut, 258	
The development of Mycosphaereila black rot and Peliicu- laria roifsli rot of watermelons at various temperatures. 2835	7
Fungicide tolerance in Rhizoctonia solanl influenced by temperature and serial transfer in fungicide-treated soll. 276	2
Observations on new or unusual diseases of highbush blueber ry. 276	
Influence of temperature and humidity on resistance in aifaifa to the spotted aifaifa aphid and pea aphid. 297	5
Temperature and the quantitative recovery of nematodes with	c

a modified Baermann funnel. 3005

Motility and infectivity of Meioldogyne javanica as affect ed by storage time and temperature in water. 30 3071 The cooling of heating grain by transfer during cold weather. 3084 Some effects of temperature, humidity, age, and sex on the toxicity of dieldrin and ethion to resistant onion maggots, Hylemya antiqua. 3135 Relations of variety, temperature, and seed immaturity to pre-emergence damping-off of castorbean. 3 3246 TENNESSEE Phytophthora heveae from eastern Tennessee and western North Carolina. 2339 TEPA Effect of pH on sterilizing activity of tepa and metepa in male house files. 20 2063 Sterlization of the face fly, Musca autumnalis, with apholate and tepa. 2111 Effect of tepa and metepa on ovarian development of house 2165 TEPHRITIDAE Effects of gamma radiation of various stages of three fruit fly species. 205 2053 Ethylene dibromide water dips for destroying fruit fly infestations of quarantine signifigance in papayas. 2963 Pad method of recovering fruit flies from infested fruit. 3278 TERMITES Response of twenty-one termite species to aqueous extracts of wood invaded by the fungus Lenzites trabea Pers. ex Fr. 2046 An investigation into the mode of action of the subgenuai organ in the termite, Zootermopsis angusticollis Emerson, and in the cockroach, Periplaneta americana L. 2 2125 Progress report on granular formulations of insecticides for controlling termites. 3122 TERPENES RPENES Volatile terpenes from Nasutitermes soldiers (Isoptera, 2164 termitidae). TETRANYCHIDAE Control of splder mites on cotton. 2988 TETRANYCHUS ATLANTICUS The effect of jate season infestations of the strawberry spider mite, Tetranychus atlanticus, on cotton production. 2964 TETRANYCHUS URTICAE Effects of gamma radiation on the fertility of the two-spotted spider mite and its progeny. 2119 A recessive factor for organophosphate-resistance in populations of the two-spotted spider mlte, Tetranychus telarlus. 2234 Red spider mite control on roses in Florida. 3002 TETRAZOLIUM Tetrazolium, an indicator of extent of Infection in Phyt-ophthora root rot of citrus. 2 2601 TEXAS Winter survival of the boliworm in central Texas. 2024 Relative seasonal abundance of two species of heliothis on cotton in an area of brazos county, texas. 20 2034

Seasonal variations in activity of the southern pine beetle 2035 in east Texas.

Sources, transmission, symptomatology, and distribution of wheat streak mosalc virus in texas. 22 2283

Dak wiit identified in Texas. 2397

'U			

A survey of cucurbit viruses in the Lower Rio Grande Valiey of Texas: preiiminary report.	2650	TISSUE ANALYSIS Distlnguishing tissue o complex medla.
Chemicai control of Meloidogyne arenaria on Spanish pea nuts in Texas.	3073	TISSUE CULTURE Distinguishing tissue o
THERIGAPHIS MACULATA Resistance of Moapa aifalfa to the spotted alfaifa aphi commerciai-size fields in south-centrai Arlzona.	d in 2953	complex media. TISSUES
Infiuence of temperature and humidity on resistance in aifalfa to the spotted aifalfa aphld and pea aphld.	2975	An induced mechanism of ase in Rhlzoctonia-Infe
THERIDAPHIS RIEHMI Host-range studies with the sweetclover weevii and the sweetclover aphid.	2018	Isolation of Xanthomona sicum annuum. TITER INCREASE
THERMOTHERAPY Thermotherapy for root-knot nematodes, Meioidogyne spp.		Transiocation and tlter isojates.
sweetpotato and tarragon propagating stocks. THIELAVIOPIS BASICOLA Nonspecific acquired resistance to pathogens resuiting	2870	TOBACCD Effect of certain cuitu tobacco hornworms, toba tobacco after harvest.
locallzed infections by Thielaviopsis basicola or virus in tobacco leaves.		Tobacco mosalc virus ln
THIELAVIOPSIS BASICOLA Black root-rot development on pinto beans, incited by s ted Thielaviopsis basicoia isoiates, as influenced by d		Enation symptoms in tob
ferrent soll temperatures. A fungal complex assoclated with the sudden wllt syndro	2642 meln	Nonspecific acquired re iocailzed infections by in tobacco ieaves.
California cotton. Comparative study of quantitative methods used for esti	2805 mat-	Hypersensitive reaction in the tobacco leaf.
ing the population of Thielaviopsis basicola in soli.	2890	The incidence of stem r tion to wireworm injury
Effect of certain fungai isolation agar media on Thieiavlopsis basicola and on its recovery in soli diju		Appearance of tobacco b
tion plates. Systemic acquired resistance against tobacco mosaic vir resulting from iocalized infections by Thielaviopsis	2891 us	Electrotaxis of Phytoph possible roie in infect
basicing in obacco leaves. THINNING (TREES)	3201	Phytophthora parasitlca irrlgatlon.
Fomes annosus on slash plne in the southeast.	2755	A moblie assay of tobac
Decay 10 years after thinning of sweetgum sprout clumps	2880	Mlcrobial and chemlcal bacco in Ontario.
THIOSULFATE SULFURTRANSFERASE Rhodanese in the biow-fly, Caillphora vomitoria L.	2175	The southern potato wir Insecticides for the co
THIRAM Seed-borne Cercospora on safflower.	2281	shade-grown tobacco. Response of Nicotiana r
Control of Pythium root diseases with soil fungicldes.	2865	Amphldiplold hybrld to
THYRIDOPTERYX EPHEMERAEFORMIS Late season controi of bagworms.	2977	Responses of tobacco br root-knot nematodes in
TILLETIA CARIES The reaction of varietles and hybrid selections of spri wheats to pathogenic races of Tilletia carles and T. fo		Response of root-knot-r root dlsease complex ca ioidogyne incognita acr
tida. Two new pathogenic races of Tilletla caries.	2582 2583	Response of selected to javanica and M. incogni trials.
Isolation and in vitro cuiture of the wheat bunt fungi letia caries and T. controversa.	Tii- 2885	Control of root-knc ne
TILLETIA CONTROVERSA The incidence of dwarf bunt in the Pacific Northwest an its occurrence on Gaines wheat.	2528	Systemic acquired resis resuiting from iocalize baslcola ln tobacco iea
Isoiatlon and in vitro cuiture of the wheat bunt fungi letia caries and T, controversa.		TOLUCA VALLEY The Toiuca Valley, an o cides on potatoes under blight (Phytophthora in
TILLETIA FOETIDA The reaction of varieties and hybrid selections of spri wheats to pathogenic races of Tilietia caries and T. fo tida.		TOMATOES Evaluation of treatment of tomato.
TIPBURN (CABBAGE) Cabbage varietles in relation to tipburn.	2903	Additionai hosts for to ium michiganese.

560	TISSUE ANALYSIS Distinguishing tissue of normal and pathological origin on complex media. 2849
073	TISSUE CULTURE Distinguishing tissue of normal and pathological origin on complex media. 2849
in 953	TISSUES An induced mechanism of tissue resistance to polygalacturon-
976	ase in Rhlzoctonia-Infected hypocotyis of bean. 2293
	Isolation of Xanthomonas vesicatoria from tissues of Cap- sicum annuum. 2375
018 of	TITER INCREASE Transiocation and tlter increase studies of three pea virus isolates. 2769
B70	TOBACCD
	Effect of certain cuitural practices on the abundance of tobacco hornworms, tobacco budworms, and corn earworms on
m	tobacco after harvest. 2030
50 S	Tobacco mosalc virus in Nicotlana glauca. 2290
ec-	Enation symptoms in tobacco induced by alfalfa mosaic virus. 2429
542	Nonspecific acquired resistance to pathogens resulting from
ln 305	iocailzed infections by Thielaviopsis basicola or viruses in tobacco leaves. 2506
t-	Hypersensitive reaction induced by phytopathogenic bacteria in the tobacco leaf. 2597
390	The incidence of stem rots in tobacco transplants in reia- tion to wireworm injury. 2720
391	Appearance of tobacco blue mold in Israei. 2733
	Electrotaxis of Phytophthora parasitica zoospores and its possible roie in infection of tobacco by the fungus. 2889
201	Phytophthora parasitica var. nicotianae spread by overhead irrigation. 2932
755	A moblie assay of tobacco necrosis virus. 2945
380	Microbial and chemical control of hornworms attacking to- bacco in Ontario. 2959
	The southern potato wireworm, a new pest of tobacco. 2971
175	Insecticides for the controi of the green peach aphid on shade-grown tobacco. 2995
281	Response of Nicotiana repanda, N. sylvestris, and their Amphidipiold hybrid to root-knot nematodes. 3015
365	Responses of tobacco breeding lines to three species of root-knot nematodes in greenhouse tests. 3034
977	
	Response of root-knot-resistant tobaccos to the nematode root disease complex caused by Pratyienchus spp. and Me- ioidogyne incognita acrita. 3035
582	Response of selected tobacco varieties to Meloidogyne
583	javanica and M. incognita acrita ln fieid pathogenicity trials. 3036
i- 385	Control of root-kn; nematode and aphid on tobacco. 3050
005	Systemic acquired resistance against tobacco mosaic virus resulting from iocalized infections by Thielaviopsis basicola in tobacco ieaves. 3201
528	
1- 386	TOLUCA VALLEY The Toiuca Valley, an outstanding area for testing fungi- cides on potatoes under naturai conditions against late blight (Phytophthora infestans). 2347
	TOMATOES
582	Evaluation of treatments for the control of soil-borne pests of tomato. 2238
903	Additionai hosts for tomato canker organism, Corynebacter- ium michiganese. 2275
	Control of ieaf mold in a heavily infected tomato crop with

TORCH			
a polybutene emulaion.	2321	the Egyptian cotton leafworm.	3133
Chemotherapeutic action of dimethoate against a root-kn nematode in greenhouse tomato piants.	ot 2507	Toxicological studies on the Egyptian cotton leafworm, Prodenia litura. I. Susceptibility of different [arvai instars of Prodenia to insecticides.	3134
Another appearance in Fiorida of a wiit Fusarium pathog ic to race 1-resistant tomato varieties.	2567	Some effects of temperature, humidity, age, and sex on the toxicity of dieidrin and ethion to resistant onion maggo	he
Comparative incidence of graywall and internal browning tomato and sources of resistance.	01 2694	Hylemya antiqua	3135
Some factors influencing infection and disease developm of Phytophthora parasitica dast, on tomato.	2723	The toxicity of insecticides to iarvae of the codiing mo Cydia pomoneiia (L.). I Intrinsic toxicity and persistence.	th, 3137
Rhizoctonia fruit rot of processing tomatoes.	2811	Influence of soll moisture on the toxicity of insecticide in a mineral soll to insects.	es 3140
Influence of variety and pruning on non-infectious leaf of tomato.	roii 2823	Comparative toxicity of some phosphoramidothioates and pi phoramidates to susceptible and acaracide-resistant strai	hos~
Field and host studies of parasitism by Heiminthosporiu sorokinianum.	m 2843	of Tetranychus pacificus and Panonychus citri.	3145
Distinguishing tissue of normal and pathological origin complex media.	on 2849		3151
Rhizoctonia stem canker of tomatoes.	2859		3160
Bacterial canker and spotted wilt of tomato in the west	-cen-	Carbaryi toxicity symptoms on soybeans.	3162
traj Great Plains.	2872	Contact toxicities of 22 insecticides to the cocoa mirid Distantieiia theobroma(Dist.) (Hemiptera, Miridae).	3167
Crown gali disease in Israei.	2904	Toxicological studies on the Egyptian cotton leafworm,	
A new virus disease of tomato from the Sudan.	2946	Prodenia iitura. III. A modified technique for testing the stomach-poisoning effect of insecticides of ieaf-fee:	
Dwarfing of summer tomatoes by crease stem.	2948	iarvae.	3175
Species of Fusarium found associated with wiiting of to varieties resistant to F. oxysporum in Israei.	2954	Residual and topical toxicity of certain insecticides to laboratory-reared face files.	3178
Performance of certain nematocides and nematocide-ferti mixtures applied to vegetable crops in North Carolina.	iizer 3003	Effect of fungitoxic compounds on the permeability of year cells to the pyruvate ion.	ast 3232
Evaluation of DBCP formulations and application depths root-knot nematode control and phytotoxicity to tomatoe	· S •		3250
Role of certain plant-parasitic nematodes in infection tomatoes by Pseudomonas solanacearum.		OXINS Evidence of a toxic substance produced by fungl involved seed-piece rot of sugarcane.	in 2430
Effect of various insecticides in the control of caterpillars attacking tomato in california.	3152	Reduction in pathogenicity and toxin production in disea: Heiminthosporium victoriae.	3ed 2627
Dyrene phytotoxicity effects on tomato.	3227	Toxin production and pathogenicity in Heiminthosporium vitoriae.	íc- 2801
TORCH		Extracellular enzyme and toxin production by Fusarium oxy	y-
The use of a petroieum hydro-carbon torch in the asepti transfer of microorganisms and in routine laboratory gi blowing.	a 9 9	RACHEAL FLUIDS	2887
TOXAPHENE Toxicological studies on the Egyptian cotton leafworm,		Wiit pathogens and oxygen levels in tracheal fluid of st	3213
Prodenia litura. II. Reversion of toxaphene resistance the Egyptian cotton leafworm.	in T 3133	RANSGLYCOSYLATION Transglycosylation in the desert locust, Schistocerca gregaria Forsk.	2176
Effect of DDT and toxaphene alone and in combination on succinic dehydrogenase activity in homogenates of the b weevil.		REE AGE Lemon bud union overgrowth disorder and its relation to	
Pour-on treatments of DDT or toxaphene for horn fly control.	3168 1	REE BANDS	2595
TOXICOLOGY Reduction in pathogenicity and toxin production in dise Heiminthosporium victoriae.		Collection of Neodiprion excitans sawfly cocoons in tree bands. REE DISEASES	3295
The toxicity of insecticides to larvae of the codiing m Cydia pomoneiia (L.). II. maintenance of a toxic deposi	t		2303
in the field.	3110 3120	A generalized life cycle of pathogens of trees.	2414
Sodium usnate as an antibiotic for plant diseases. Changes in serum transaminase activities associated wit			2508
plant and mineral toxicity in sheep and cattle.	3127	New hosts for Cercospora thujina Piakidas.	2527
The immediate and long-term effects of the herbicide MC on soli arthropods.	PA 3131	Cycloheximide for hawthorn leaf spot.	2913
Toxicological studies on the Egyptian cotton leafworm, Prodenia litura. II. Reversion of toxaphene resistance	in		

PAGE 146

U		

	ULMU
TREES The relationship of some bark factors to canker suscepti- bility. 2304	TURF Nematodes associated with melting-out of turfgrass. 2245
Influence of necrotic ringspot virus on growth and yield of peach trees. 2747	Influence of environment on disease of turfgrasses. i. effect of nutrition, pH, and soli moisture on Rhizoctonia brown patch. 2314
TREFOIL	Turfgrass diseases in southern Caiifornia. 2411
Host range and testing of Lotus species for disease resis- tance to Phomopsis blight of birdsfoot trefoli. 2899	Damage to turfgrasses caused by cyanogenic compounds pro- duced by Marasmius oreades, a fairy ring fungus. 2419
TRIBULUS TERRESTRIS L. Notes on the ecology and host specifity of Microlarinus lareynii and M. lyppriformis (Coleopters: Curculionidae)	New experimental and commercial fungicides for controi of Fusarium patch disease of bentgrass turf. 2462
and the biological control of puncture vine, Tribulus terrestris. 1993	Fungicidai tests for control of Fusarium patch disease of turf. 2464
TRIBULUS TERRESTRIS Pratylenchus zeae found on corn, milo, and three suspected new hosts in California. 3009	Ophiobolus patch disease of turf in western Washington. 2465
TRICARBOXYLIC ACID CYCLE Studies of tricarboxylic acid cycle intermediates in	The effect of pesticides on turfgrass disease incidence. 2641
saffiower infected with Puccinia carthami. 3200	TURFGRASS
TRICHLORFON Toxicological studies on the Egyptian cotton leafworm, Prodenia litura. II. Reversion of toxaphene resistance in	Control of snow mold by regulating winter soll temperature. 2621
the Egyptian cotton ieafworm. 3133	TURKEY MULLEIN A new host for the cucurbit powdery mildew fungus. 2317
TRICHODORUS CHRISTIEI Influence of soil depth and sampling date on population levels of Trichodorus christiei. 303B	TURKEYS Problems resulting from the misuse of lindane for chigger
TRINIDAD Citrus virus diseases of Trinidad, Jamaica, and British.	control on turkey ranges as related to residue edibie tissues. 3113
TRISTEZA (CITRUS)	TURNIPS Fungicidal control of anthracnose and white spot of turnip greens. 2348
Systemic spread of tristeza in one Valencia orange tree. 2329	TWIST (DACTYLIS GLOMERATA) Twist disease of orchardgrass in Virginia. 2927
Citrus variety reaction to tristeza virus in Brazli when used in various rootstocks and scion combinations. 2467	TWISTED LEAF (CHERRIES) Some seedlings of the Van cherry found to be superior to
Behaviour of 77 tristeza tolerant rootstocks with old and nuceliar ciones of Barao orange scions. 2682	Bing as indicators for the twisted leaf virus. 2633 The assoclation of the virus diseases twisted leaf of cherry
Distribution and movement of psorosis and tristeza viruses in citrus trees. 2719	and ring pox of apricot. 2634
Transmission of citrus viruses by dodder, Cuscata subin- ciusa. 2916	Occurrence of Dityienchus radicicoia (Nematoda: Tyienchl- dae) in the u. s. and on a new host. 3067
TRITICI Cold-induced dormancy and its reversal in uredospores of Puccinia graminis var. tritici. 3202	TYLENCHURHYNCHUS BREVIDENS Stunt of smail grains, a new disease caused by the nematode Tylenchorhynchus brevidens. 3041
TRITICUM VULGARE Resistance in Triticum vuigare to infection by Erysiphe graminis f. sp. tritici as influenced by the stage of devei-	TYLENCHORHYNCHUS BREVIDENS ALLEN Wheat grain losses caused by nematodes. 3065
opment of the host plant. 2324 Septoria leaf blotch, important disease of wheat in Guate-	TYLENCHULUS SEMI-PENETRANS Movement of Tylenchuius semi-penetrans into Rough lemon roots and in soll and its relation to Fusarium in the
mala. 2804	roots. 3028
TROMBICULIDAE Problems resulting from the misuse of lindane for chigger control on turkey ranges as related to residue edible tissues. 3113	TYLENCHULUS SEMIPENETRANS Nature of resistance in certain citrus rootstocks to citrus nematode. 3075
tissues. 3113 TROPICAL YANS Parasitic nematodes on Dioscorea in Guatemala. 3064	TYLENCHULUS SEMIPENETRANS COBB Citrus nematode on American persimmon in Israel. 3017
TUNG OIL TREE Effect of orchard sanitation on development of angular leaf	TYLENCHULUS SEMIPENITRANS COBB. Citrus-root nematode in Iraq in 1965. 3051
spot of tung. 2255 Cercospora leaf spot of tung in mississippi. 2289	TYLENCHUS SEMIPENETRANS COBB Some soli factors influencing reproduction of the citrus nematode and growth reduction of sweet orange seedlings.
TUNGRO	2901
Leafhopper transmission of tungro disease of rice. 2775 TUNGRO DISEASE	UGANDA Seasonai abundance and diurnai variations in activity of some Stomoxys and Tabinidae in Uganda. 2008
On the antigenicity of virus causing tungro disease of rice. 2556	ULMUS Juglans regia apparentiy not susceptible to eim and cherry isolates of Verticiiium aibo-atrum. 2671
	Species of elm on the University of Iilinois campus resis-

tant to dutch eim disease. 2701 ULTRAVIOLET RAYS Detection by ultraviolet light of stored-product insects in-fected with Mattesia dispora. 3092 UNITED STATES Some corn (maize) virus diseases in the United States in 2854 1964. UNITED ARAB REPUBLIC ITED ARAB REPUBLIC Nigrospora cob rot of corn in the United Arab Republic. 2678 Potentially important plant-parasitic nematodes present in established orchards of newly-reclaimed sandy areas of the United Arab Republic. 305 3056 UNITED STATES New pathogenic strains of Puccinia hordel among physiologic races identified in United states from 1959 through 1964. 2683 Prevalence and distribution of pathogenic races of piricuiarla oryzae In the U.S. 3189 UNIVERSITY OF ILLINOIS Species of elm on the University of Illinois campus resis-tant to dutch elm disease. 27 2701 UREA Urea, an effective treatment for stripe smut on Poa pratensls. 2639 Pine trees near power substations damaged by urea herbl-3098 UREA HERBICIDES Pine trees near power substations damaged by urea herblcides. 3099 UREA POISONING Large animal toxicological problems. 3160 UREDIA Variability in the physiologic race populations of oat crown rust isolated from aecia and uredia. 2421 UREDIOSPORE Effect of uredlospore concentration on determination of races of Uromyces phaseoll var, phaseoll. 2385 UREDIGSPORES A long term experiment for preservation of urediospores of Puccinia graminis tritici in ilquid nitrogen. 32 3233 Freon-113 as a dispersal medium for urediospores of Puccinla graminis var. tritici. 3237 UREDOSPORES Intra- and inter-regional movement of uredospores of black stem rust in the upper Mississippi Vailey. 22 2280 URIC ACID Uric acld and urate storage in the iarva of Chrysopa carne Stephens (Neuroptera, Chrysopidae). 21 2193 URDCYSTIS AGROPYRI Varletal resistance to flag smut in Kentucky bluegrass. 2448 URONYCES PHASEOLI A new race of bean rust in Arkansas. 2460 Phleomycln, an antibiotic markedly effective for control of bean rust. 2829 UROMYCES PHASEOLI VAR. PHASEOLI Effect of urediospore concentration on determination of races of Uromyces phaseoli var, phaseoli. 2385 URONYCES PHASEOLI VAR. TYPICA ARTH. Race 33 of Uromyces phaseoli var. typica Arth., a distinct physiologic race of bean rust from oregon. 25: 2514 UROMYCES STRIATUS Reference to Meiilotus Itailca, a new host for Uromyces striatus . 2363 Meliiotus Italica, a new host for Uromyces striatus. 2623 PAGE 148

URUGUAY Virus diseases in Saito (Uruguay).	2892
USTILAGO NUDA (JENS) ROSTR. Modification and adaptation of Popp s technique to rout detection of Ustilago nuda (Jens) Rostr. In barley embryos.	ine 2578
Induced hybridization between graminicolous species of Ustilago.	3225
USTILAGO AVENAE Mode of inheritance of pathogenicity in some race hybrid Ustilago avenae.	ds of 2530
USTILAGO HORDEI Differentlation of Ustliago hordel races on several med	la. 3230
USTILAGO STRIIFORMIS Urea, an effective treatment for stripe smut on Poa pra sls.	ten- 2639
USTILAGO STRIIFORMIS (VEST.) Stripe smut damage on Penniu creeping bentgrass.	2505
USTILAGO TRITICI Fallure of loose smut to bulld up in winter wheats expo to abundant inoculum naturaily disseminated.	sed 28 97
UTAH Powdery mlldew of potato in utah.	2885
VACUUM Effects of a high vacuum on insect mortailty.	2212
VALENCIA ORANGES Some physiclogical properties of leaves and bark of pso -infected Valencia orange trees.	rosis 2680
VAPAM Effectiveness of Vapam in preventing root graft transmi ion of the dutch eim disease fungus.	35- 2702
VARIOLA (CITRUS) Varlola - a probable virus disease of cltrus.	2796
VASCULAR WILT Status of persimmon wiit, 1959.	2882
VEGETABLES Performance of certain nematocldes and nematoclde-ferti mixtures applied to vegetable crops in North Carolina.	iizer 3008
VEIN ENATION (CITRUS) Transmission of citrus viruses by dodder, Cuscata subin clusa.	2916
VEIN-CLEARING (CITRUS) Ring callus as a path for non-graft transmitted Aeglops chevalleri vein-clearing virus.	ls 2719
VENEZUELA A gail disease of cacao and mango ln Venezueia caused by Calonectria rigidiuscuia.	y 2646
VERMICULITE Vermiculite media for growing fungi.	3248
VERTICICLADIELLA A stainlng-fungus root disease of ponderosa, Jefferey, plnyon pines.	and 2905
VERTICILLIUM New type of symptoms on Verticiliium wilt of cotton.	2295
Nuclel in spores and myceiium of verticillium.	2788
Occurrence of Verticiiium wilt on Russian wilt.	2839
Fleld resistance of 29 additional strawberry varieties selections to Verticiliium, 1959.	and 2902
VERTICILLIUM ALBO-ATRUM Verticillum wilt of smoke bush.	2340
Prellmlnary trials on the control of Verticililum wiit of eggplants by soli fumigation₀	2493

ULTRAVIOLET RAYS

	Jugians regia apparently not susceptible to eim and cho isolates of Verticiliium albo-atrum.	2671
	A fungai complex associated with the sudden wilt syndrom California cotton.	ne in 2805 R
	Verticiliium wlit of saucer magnolia, Magnolia soulange	ana. p 2810
	Cuitural type of Verticiiilum albo-atrum in New Mexico.	T S 2839
	Reaction of aifaifa to Verticiliium aibo-atrum.	2840 s
	Relation of chiorogenic acid and free phenois in potato roots to infection by Verticillium albo-atrum.	3239 A
V	ERTICILLIUM ALSO-ATRUM REINKE AND BERTH Verticilium wiit of potato in northern Indiana.	2473 r
V	ERTICILLIUM DAHLIAE KLE8 Verticiiiium wilt of hops in Oregon.	2535 r
v	ICTORIA 8LIGHT (DATS) Permeablility changes associated with Victoria blight of oats.	A 3199 N
v	IGNA UNGUICULATA Sources of resistance to the cowpea yellow mosaic virus.	R 2919
v	INAS DISEASE (COFFEE) Vinas disease of coffee (Coffea arabica) in Guatemaia.	2245 C
v	IRGINIA The occurrence and transmission of maize dwarf mosaic in Virginia.	
	Twist disease of orchardgrass in Virginia.	2927 T
	Autumn weather in relation to subsequent occurrence of bacco black shank in Virginia.	to- S 2931 1
	Field tests with new insecticides for control of the southern corn rootworm attacking peanuts in virginia.	E f 3125
V	IRGINIA-PINE SAWFLY Apparent loss of sex attractiveness by the female of the	
u .	Virginia-pine sawfiy, Neodiprion pratti pratti. IROLOGISTS	2062 L
	Proceedings of the third conference of the International Organization of Citrus Virologists.	2251 A
	IROLOGY Progress in citrus virology: mechanicai transmission.	P 0 2460 VIR
V	IRULENCE Influence of resistant varieties on viruience level with natural populations of Phytophthora parasitica var. nice tianae.	I nin v 0- 2271 VIR
	Virulence in Ceratocystis uimi.	2529 i
V	IRUS DISEASES (PLANTS) Nematodes associated with citrus trees infected by four ruses and comments about nematode distribution in Fioric	
	citrus groves.	2237 VIR D
	Virus diseases of citrus in the Philippines.	2254
	short stem virosis of sweet cherries.	2260 VIR S 2309 0
	A spur type growth of Bing cherry caused by virus. Varietal differences in pepper to virus induced breakdow	an of E
	fruit. Filamentous viruses infecting fruit trees and raspberry	
	their possible mode of spread.	2332 1
	Macrosiphum rosae, Acyrthosiphon porosum, and Aphis gos- sypil as vectors of strawberry viruses in Louisiana.	2342 s
	Virus diseases of the papaya in Florida.	2364 H
	Experiments on mechanical transmission of citrus viruses	3.

2383 'he provaience of latent viruses in Dregon apple trees. 2395 Relative severity of legume viruses in peas measured by plant growth reduction. 2427 ransmission of hoja bianca of rice by the planthopper, 2446 logata cubana. he relationship of severe bean mosaic virus from Mexico to outhern bean mosaic virus and its related strain in cowpea-2477 ifalfa mosaic virus in white clover and potatoes. 2490 arge inclusion bodies associated with virus diseases of 2524 In the antigenicity of virus causing tungro disease of 2556 Ice. corn disease in Iowa. 2615 Ion-transmission of certain strawberry viruses by nematodes 2669 lesistance in sweetpotato to the internal cork virus. 2714 irus nature of penyakit merah disease of rice in Maylay-2729 ia. itrus virus diseases of Trinidad, Jamaica, and British. 2794 arioia - a probabie virus disease of citrus. 2796 esting citrus trees for viruses. 2798 ome corn (maize) virus diseases in the United States in 2854 ffect of some plant growth-retarding compounds on three ungal diseases and one viral disease. 2863 sap-transmissable virus associated with a new disease of orn in southern lilinois. 2871 ong term storage of the sugarcane mosaic virus. 2876 irus diseases in Saito (Uruguay). 2892 new virus disease of tomato from the Sudan. 2946 roionging the motility and virus-transmitting ability of lipidium zoospores with chemicals. 3 3245 US DISEASES PLANTS US DISEASES PLANTS infection of sugarcane with mechanically transmissible corn 2379 US INDEXING (PLANTS) elease of virus-indexed Prunus budwood from the interregonal repository. oot grafting, a potential source of error in apple index-2482 US SEROLOGY etection of cauliflower mosaic virus by immune adherence. 2703 USES separation of an antigenic plant protein from preparations of plant viruses. 22 2257 ffects of four viruses on yield and quality of King Carinai carnations. 2323 tudies on the transmission of the virus causing big vein of ettuce. the relationship of severe bean mosaic virus from Mexico to southern bean mosaic virus. 2478

Heat treatments for eliminating virus from sweet potato piants. 2516

PAGE 149

VIRUSES

	50000001	INDLA
VISCOMETRY		
Vector anomaijes affecting efficiency in plant virus transmission.	2518	WEATHE Chem
Some factors affecting the transmission and stablilty o tato spindie tuber virus.	f po- 2537	WEATHE Veat
The association of the virus diseases twisted leaf of c and ring pox of apricot.	herry 2634	blig WEEDS
The epinasty virus reaction of Kwanzan and Shiro-fugen flowering cherry.	2665	Addi ium
Influence of necrotic ringspot virus on growth and yiel peach trees.	d of 2747	Cons for
The extraction of viruses from fruit tree petals.	2884	WEIGHT Deca
Effect of host components and sucrose on infection by potato yellow dwarf virus.	2923	WEST V Dak
A T-head inoculator for local-lesion assay of viruses	3253	WESTER A co
VISCOMETRY	£ 11 £ + 17	iini
Measurement of pectinolytic and cellulolytic enzyme act by rotating spindle viscometry.	3289	WESTER The
VITIS VINIFERA VAR. THOMPSON SEEDLESS Time of infection and latency of Diplodia viticola in V tis vinifera var. Thompson Seedless.	2855	Lake WESTER
VOLATILE SUBSTANCES	2000	Plan Hemi
Voiatiie terpenes from Nasutitermes soldiers (Isoptera, termitidae). VALNUTS	2164	WESTER Leuc
Control of the walnut aphid and codiing moth on walnuts northern California.	in 3004	broo WESTER Host
WASHINGTON Pear decline trends in Washington orchards.	2294	
Symptoms and transmission of a star cracking type dis		WHEAT Loco
of apple in Washington. Ophiobolus patch disease of turf in western Washington.	2312	of s Stri
ophiootids patch discuss of torr in western washingtone	2465	seve
Pea diseases in Washington and Oregon, 1964.	2495	Intr stem
Controiling mildew on appies at Wenatchee, Washington i 1960.	2845	I noc smut
Leptosphæeria herpotrichoides on rye in Clark County, Washington.	2847	Effe
Resistance in oats to barley yellow dwarf virus (BYDV) Washington.	in 3203	Natu
WATER		Whea
Motility and infectivity of Meloidogyne javanica as aff ed by storage time and temperature in water.	3071	The its
WATER CORE (APPISS) Water core in Lady variety appies during storage.	3085	Loca whea
WATERMELONS Three uncommon watermelon fruit rots in Florida.	2802	Iden diff
Vector-virus relationships of watermeion mosaic virus a the green peach aphid, myzus persicae.	nd 2875	The whea
WEATHER High temperature following infection checks downy milde iima bean.	₩ of 2542	tida The Nort
The effect of weather on dispersal of Alternaria spores a semi-arid region of Israel.		Pred to i
Weather map analysis — an aid in forecasting potato lat	e	Hete
biight. Autumn weather in relation to subsequent occurrence of		new Stri
bacco biack shank in Virginia. The cooling of heating grain by transfer during coid	2931	whea Fus
weather.	3084	mala
Environmental influences on development of glume biotch wheat.	in 3090	Sept
54.65 350		

PAGE 150

ATHER FLECK (TOBACCO)
Chemical control of weather fleck in flue-cured tobacco. 2907
ATHER FORECASTING Weather map analysis — an aid in forecasting potato late blight. 2911
EDS Additional hosts for tomato canker organism, Corynebacter- ium michiganese. 2275
Consideration of the use of persimmon wiit as a silvicide for weed persimmons. 2933
CIGHT LOSS (WOOD) Decay of wood by species of the Xylariaceae. 2663
ST VIRGINIA Oak wilt surveys in West Virginia. 2454
STERN FLOWER THRIPS A color preference of the western flower thrips, Frank- linieila occidentalis. 2021
STERN GALL RUST (PINUS) The distribution of eastern and western gail rusts in the Lake States. 2268
STERN HEMISPHERE Plant diseases threatening Theobroma cacao in the Western Hemisphere. 2545
STERN UNITED STATES Leucoptera spartifoliciia, an introduced enemy of Scotch broom in the western United States. 2436
STERN YELLOWS (SUGAR BEETS) Host relationships of beet western yellows virus strains. 2400
IEAT Locomotor activity of the hairy spider beetie at the surface of stored wheat. 2038
Stripe rust resistance of Suwon 92 and its relationship to several morphological characteristics in wheat. 2264
Intra- and inter-regional movement of uredospores of black stem rust in the upper Mississippi Valley. 2280
Inoculum supply as a variable in the epiphytology of loose smut of barley and wheat. 2417
Effect of barley stripe mosaic on wheat. 2420
Natural occurrence of Hoja blanca on wheat and oats. 2451
Wheat striate mosaic observed in Montana. 2494
The incidence of dwarf bunt in the Pacific Northwest and its occurrence on Gaines wheat. 2528
Local epidemic outbreaks of fungus ieaf spots on gaines wheat in 1964. 2531
Identification of wheat ieaf rust resistance combinations by differential temperature effects. 2563
The reaction of varieties and hybrid selections of spring wheats to pathogenic races of Tilletia caries and T. foe- tida. 2582
The occurrence of powdery mildew of wheat in the Pacific Northwest. 2584
Predisposition of wheat by Erysiphe grammis f. sp. tritici to infection with Erysiphe grammis f. «p. hordei. 2690
Heterogeneity in the Norka differential wheat variety to a new race of Erysiphe graminis tritici. 2721
Stripe-rust head infection in five Pacific Northwest vheats. 2758
Fusariai head biight , serious disease of wheat in Guate- mala. 2803

Septoria leaf blotch, important disease of wheat in Guatemain. 2804 3065

WILDRICE

VIL1

. 9

		í
spot disease on 2296	spot	

WILT (OUFRCUS)

Wiit pathogens and oxygen levels in tracheal fiuid of stems. 3213

severe epidemic of Helminthosporium brown

cultivated wild rice in northern Minnesota.

WILT (ALFALFA) Further studies on the pathogenicity of three forms of Fusarium oxysporum causing wiit of alfalfa. 2279

Infection of aifaifa seedlings by inoculating wounded cotyledons with wilt bacterla. 2605

An antagonistic variant of Corynebacterlum insidiosum and some properties of the inhibitor. 2705

WILT (BANANAS) Basis for host specificity among vascular invaders of banana roots. 3196

WILT (CHRYSANTHEMUM)

Wilt of chrysanthemum caused by race 1 of the co≄pea Fusarium. 2278 WILT (CORN)

Stewart's disease: expected development on corn in lilinois in 1961. 2315

WILT (COTTON) New type of symptoms on Verticiiiium wilt of cotton. 229S

Fusarium wilt of cotton in Arizona. 2307

Frequency of cotton plants resistant to Fusarium wilt in some iines of cotton resistant or susceptible to bacterial blight. 2325

Correlation between Fusarlum wiit indices of cotton varieties with root-knot and with sting nematodes as predisposing agents. 2366

A fungal complex assoclated with the sudden wilt syndrome in California cotton. 2805

WILT (COWPEAS) Wilt of chrysanthemum caused by race 1 of the cowpea Fusarlum. 2278

ILT (FLAX)				
Extraceliuiar en sporum f. lini.	zyme and toxin	production by	Fusarlum	oxy- 2887

The HCN content of flax in relation to flax will resistance. 2888

- WILT (FUSARIUM) Reaction of sesame to Fusarium wiit in South Caroiina. 2776 WILT (GREEN BEANS) Fungicidai control of Scierotinia wiit in green beans. 2298
- WILT (HOPS)
 Verticiiium wilt of hops in Oregon.
 2536

 WILT (OLIVES)
 Decurrence of Verticiilum wilt on Russian wiit.
 2839
- WILT (PERSIMMON) Status of persimmon wilt, 1989. 2882 Consideration of the use of persimmon wilt as a silvicide for weed persimmons. 2933
- WILT (POTATOES) Verticillium wilt of potato in northern Indiana, 2473
- WILT (QUERCUS) Retention of pathogenicity of the oak wilt fungus in cuiture. 2322 Dak wilt identified in Texas. 2397 The effect of conidiai concentration on peritheciai formation by the oak wilt fungus. 2415
- Oak wilt surveys in West VirgInla.

2454

Wheat rust as viewed in the early agricultural press of california. 2835 Wheat smut as viewed in the early agricultural press of california. 2836

Overwintering of wheat striate mosalc virus in North Dakota. 2873

Fallure of loose smut to bulid up in winter wheats exposed to abundant inocuium naturally disseminated. 2897

The North American 1965 set of supplemental differential wheat varietles for identification of races of Puccinia recondita tritici. 2947

Wheat grain iosses caused by nematodes.

Environmental influences on development of glume biotch in 3090

Protection of wheat seed with diatomaceous earth. 3093

Aerial application of insecticides to control spring infestations of the cereal leaf beetle on small grains. 3169

- Effect of seed-treatment fungicides on grain yield and stands of winter and spring wheat. 3231
- WHITE CLOVER
 - Light and light quality as factors in the growth and development of two species of Leptosphaerulina pathogenic on white clover. 2249

Aifalfa mosaic virus in white clover and potatoes. 2490

Fungi associated with white clover stolons in selected areas of the southeast during mid-summer, 1959. 2491

Seasonal prevalence of stoion-rotting fungl in 24 lines of white clover. 2492

Fioral infection of Ladino white clover, incited by Curvularia trifolii. 2590

Green tomato fruits--a medium for inducing fruit rot and asexual sporulation with fungi isolated from clovers.

Effect of clover cyst nematode on growth of red and white clover. 3016

Reaction of white clover and five other crops to Pratylenchus scribneri. 3043

Effect of Heteroda trifoli on the growth of Trifollum pratense and T. repens. 3205

WHITE GRUBS

Effectiveness of insecticides against white grubs in bluegrass lawns. 3163

WHITE ROT (ONIONS)

White rot disease of onion in relation to methods and dates of inoculation, and its incidence in the seedbed. 2763

WHITE RUST (CRUCIFERS)

Metabolic studles on the host-parasite complex of Albugo candida on radish. 2929

WHITE SPOT (TURNIPS)

Fungicidai control of anthracnose and white spot of turnip greens. 2343

WHITE SPOTS

The susceptibility of safflower varieties and species to several foliage diseases in Israel. 2282

WHITE-ROT Decay resistan

Decay resistance of extractive-free coniferous woods to white-rot fungi. 2742

WHOLE-HOUNT TECHNIQUE

A whole-mount technique for studying infected leaves. 3271

WILT (RADISHES)

The importance of root grafts in oak wilt spread in mis- souri. 2570
Oak wilt in Nebraska. 2943
WILT (RADISHES) Chitin and the bloiogical control of Fusarium diseases. 2675
₩ILT (SAUCER MAGNOLIA) Verticliiium wilt of saucer magnolia, Magnolia soulangeana. 2810
VILT (SMOKE BUSH) Verticiliyum wiit of smoke bush. 2340
WILT (STRAWBERRIES) Field resistance of 29 additional strawberry varieties and
selections to Verticiliium, 1959. 2902 WILT (TDMATDES)
Reaction of tomato varieties and breeding lines to Fusarium oxysporum f. (ycopersici race l. 2511
Another appearance in florida of a wilt Fusarium pathogen- ic to race 1-resistant tomato varietles. 2567
Development of Fusarium wilt on resistant varieties of to- mato caused by a strain different from race I isolates of Fusarium oxysporum f. lycopersici. 2851
Species of Fusarium found associated with wilting of tomato varieties resistant to F, oxysporum in Israel, 2954
WILT (WHITE DAK) Symptoms in relation to infection pattern in white oak. 2319
WILT DISEASE (SUNFLOWER) Host-parasite relationships in sunflower wilt incited by Scierotinia scierotiorum as determined by the twin technique. 2737
WILTING Mechanism of wiiting incited by Fusarium in red clover. 2354
VIND TUNNELS Laboratory observations on factors affecting the movements of hoppers of the desert focust. 2113
WINTER BURNING Effect of winter burning on some pests of alfalfa. 2995
WINTERKILL (SPRUCE) Association of dagger nematode, Xiphinema americanum, with stunting and winterkili of ornamental spruce. 2475
WISCONSIN An ecological study of arthropod populations on apple in northeastern Wisconsin: insect species present. 2023
Apple maggot emergence and seasonal activity in Wisconsin. 2040
Sun scald of corn in Wisconsin in 1961. 2242
Characteristics of rose powdery mildew fungl in Wisconsin. 2373
Paxifius atrotomentosus causes brown root rot in dead jack pine in plantations in wisconsin. 2384
Haio biight and bacterial brown spot of bean in Wisconsin in 1964. 2487
A new kernel rot disease of corn in wisconsin. 2535
Nematodes assoclated with the decline of azaleas in ⊎iscon- sin. 3011
WDOD DECAY Decay of wood by species of the Xylariaceae. 2663
Polyporus spp. associated with wood decay of ilving peach trees in south carolina. 2741
Decay 10 years after thinning of sweetgum sprout clumps. 2880

WOOD DESTROYING FUNGI DD DESINGTING FORGE Response of twenty-one termite species to aqueous extracts of wood invaded by the fungus Lenzites trabea Pers. ex 2046 Response of Reticulitermes flavipes to fractions from fungus-infected wood and synthetic chemicals. Decay of wood by species of the Xylariaceae. 2663 A species of Ciltocybe associated with decilning oak and sycamore in California. Decay resistance of extractive-free coniferous woods to 2742 A staining-fungus root disease of ponderosa, Jefferey, and 2005 WOOD DURASTLITY Decay resistance of extractive-free coniferous woods to white-rot fungi. 2742 XANTHOMONAS FRAGARIAE Infection of Potentilla by Xanthomonas fragariae. 2585 XANTHOMONAS MALVACEARUM Longevity of Xanthomonas malvacearum on and in cotton seed. 2538 XANTHOMONAS PELARGONII The resistance of species of Pelargonium to Xanthomonas pelargonii. 2602 XANTHOMONAS SPP. Gummosls and leaf spotting of sweet cherry, symptons assocl-ated with bacterial infection. 2673 XANTHOMONAS VESICATORIA Control of pepper bacterial spot by fertilizer and by foilar sprays. 2374 Isolation of Xanthomonas vesicatoria from tissues of Cap-2375 slcum annuum. A microaggiutination test for identifying Xanthomonas vesi-catoria in pepper leaf lesion. 268 2688 Sacterial scab of tomato in Puerto Rico. 2739 The relation of plant fertility to bacterial spot of pepper. 2883 Evaluation of bactericidal and non-bactericidai compounds for control of bacterial spot of pepper. 2925 XENOPSYLLA CHEOPIS Laboratory studies with systemic insecticides for control of the oriental rat fiea on white rats. 3143 XEROPHYTES Pokeweed crinkle leaf, caused by a virus transmitted by dod-der from desert shrubs in southern California. 2613 XIPHENEMA AMERICANUM COBB PHENEMA AMERICANUM COBB Occurrence of Xiphinema americanum Cobb in some Saskat-3060 chewan solls. XIPHENEMA AMERICANUM Association of dagger nematode, Xiphinema americanum, with stunting and winterkili of ornamental spruce. 24 2475 XIPHINEMA AMERICANUM Some effects of chemical amendments and cuitural conditions on population levels of Xiphinema americanum. 304 3043 Efficiency of Xiphinema americanum as a vector of tobacco ringspot virus. 3046 XYLARIACEAE Decay of wood by species of the Xylarlaceae. 2663 XYLEN The occurrence of pits and protuberances in the xyless of citrus varietles in Israel. 2736 YAMS Root-knot nematode on Dioscorea in Guatemala. 3063 Parasitic nematodes on Dioscorea 1n Guatemala. 3064

1,2-DIBROMO-3-CHLOROPROPANE

Parasitic nematodes on Dioscorea spp. in eastern Nigeria. 3074	ZINEB Effectiveness of certain protectant fungicides for control- ling pecan scab in Oklahoma during 1959. 2292
YEASTS Effect of fungltoxic compounds on the permeability of yeast cells to the pyruvate ion. 3232	Preliminary studies on control of southwestern cotton rust. 2308
YELLOW BUD MOSAIC Studies on yellow bud mosalc virus. 2577	Control of Pythlum root diseases with soli fungicides. 2865
YELLOW BUD MOSAIC (PEACHES) Yellow bud virus endemic along California coast. 2431	Toxleity to sheep of three fungleidal compounds (captan, ceresan m, and zineb). 3161
YELLOW DWARF (BARLEY) The effect of bariey yellow dwarf virus on the biology of its vector the English grain aphid, Macrosiphum granarium.	Irlsh potato seed plece treatment with various chemicals. 3241 ZINGIBERACEAE
2160	A new leaf spot of cardamon from India. 269B
Inheritance of resistance in barley to barley yellow dwarf. 2380	ZINNIA ELEGANS Zinnia elegans a new host of Sphaerotheca fullginea. 2555
Occurrence of barley yellow dwarf virus (BYDV) in Israei. 2500	ZINNIA ELEGANS JACQ. Response of Zinnia varietles to tobacco ringspot virus. 2876
Aphlds and the epidemiology of barley yeliow dwarf virus in New Brunswick. 2726	ZINOPHOS Attempts to improve the growth of Radopholus similis-in-
Influence of some environmental factors and growth substan- ces on the development of barley yellow dwarf. 2727	fected citrus with under-tree drenches of Zinophos. 301B Observations of some insects after treatment with Zinophos.
Possible shift in predominating strains of barley yellow dwarf virus in New York. 2778	blanchard, r a. 3179 ZIRAM
Variation in barley yellow dwarf of oats in nature. 2779	Irlsh potato seed piece treatment with various chemicals. 3241
Resistance in oats to bariey yellow dwarf virus (BYDV) in Washington. 3203	ZONAL LEAF SPOT (COFFEE) Appearance of zonal leaf spot of coffee caused by Cephalo-
YELLOW DWARF (POTATOES) Effect of host components and sucrose on infection by potato yellow dwarf virus. 2923	sporlum zonatum In Costa Rica. 2795 ZONATE LEAFSPOT
YELLOW DWARF (SWEETPOTATOES) Susceptibility of sweetpotato varieties to yellow dwarf.	Outbreak of zonate leaf∍pot of sorghum-sudan hybrld∍ in Alabama. 24B1
2517 YELLOW EDGE (STRAWBERRIES)	ZONE LINES (VOOD) Some probable relationships of soli fungi and zone lines to survival of Poría welrii in burled wood blocks. 2704
Rapid spread of mottle and mild yeilow-edge viruses into hybrid strawberry selections. 2672	ZOOSPORES Electrotaxis of Phytophthora parasitica zoospores and lts
YELLOW MOSAIC (BEANS) Immunity to bean yellow mosalc virus in cowpea. 2608	possible role in infection of tobacco by the fungus. 2889 Prolonging the motility and virus-transmitting ability of
Viruses of leguminous forage crops in Rhode Island. 2691	Olpidium zoospores with chemicals. 324S
YELLOW MOSAIC (CLOVER) Reactions of plant introduction lines of Pisum sativum to alfaifa mosaic, clover yellow mosaic, and pea streak virus-	ZOYSIA JAPONICA Rust of Zoysia spp. in Florida. 2435
es, and to powdery mlldew. 2428	A rust on Zoysia japonlca new to North America. 2606
YELLOW MOSAIC (COWPEA) Sources of resistance to the cowpea yellow mosalc virus. 2919	ZOYSIA MATRELLA Rust of Zoysia spp. in Florida. 2435
YELLOW MOSAIC (MOONG) The effect of vector control on yellow mosalc incidence on	ZOYSIA PUNGENTIS Rust of Zoysla app. in Florida. 2435
moong (mung bean) in Indla. 2652 YELLOWS (BEETS)	1,2-DIBROMO-3-CHLOROPROPANE Long-term inhibition of Rhizoctonia solani by a nematocide, 1,2-dibromo-3-chloropropane. 3007
Migrant green peach aphids and the spread of yellows viruses In seed beet fields of Arlzona. 2959	Performance of certain nematocides and nematocide-fertilizer mixtures applied to vegetable crops in North Carolina.
YELLOWS (CELERY) Control of Fusarlum yellows of celery by means of soll fum- igation. 2289	300B Evaluation of DBCP formulations and application depths for
ZAMBIA A note on the nocturnal resting sites of Giossina morsitans	root-knot nematode control and phytotoxicity to tomatoes. 3031
Westw. In the Republic of Zambla. 2187 ZEADIATRAEA GRANDIOSELLA	Efficacy of DBCP fiood irrigation in estabilshed citrus. 3054
Control of the southwestern corn borer with an experimental systemic insecticide. 3142	Effectiveness of DBCP and fungicides for the control of Radopholus similis on citrus trees. 3068
ZINC CHLORIDE Ceratocystis ulml and zinc chioride experiment. 2486	Sweetpotato production on soil treated with soll fumigants. 3072

1,3-DICHLOROPROPENE

- 1,3-DICHLOROPROPENE Factors affecting control of onion bloat by fumigants con-taining 1,3-dichloropropene in organic solls in southern New York. 2305
- 1,3-DICHLOROPROPENE-1,2-DICHLOROPROPANE Changes in plant growth with chemicals used as soil fumi-3185 gants.
- 2-CHLORALLYL DIETHYLDITHIOCAR8AMATE Interactions of ED8, CDEC, and irrigation on control of Meloidogyne incognita acrita. 3032
- 2-N-ALKYLHERCAPTO-1,4,5,6-TETRAHYDROPYRINIDINE 2-n-alkylmercapto-1,4,5,6-tetrahydropyrimidines, chemothera-peutic agents for plant rusts. 2713

2,4-D

Growth-regulating properties of deuterated 2,4-dichloro-phenoxyacetic acid. 3243

2,6-DICHLORD-4-NITROANILINE 2,6-dichloro-4-nitroaniline effective against Rhizopus fruit rot of sweet cherries. 2724

2,6-dichloro-4-nitroaniline used in orchard sprays, the dump tank, the wet brusher and the hydrocooler for control of Rhizopus rot of harvested peaches. 30 3086

Penicillium development in lemons treated with 2,6-dichio-3089 ro-4-nltroanlline.

8- QUINOLINOL

Reversal of fungitoxicity of 8-quinolinol by amino acids and other chelators. 3250

A	10:	s i	n,	2	1																						
											th																2047
A.:					Ë,		. 1			63	0	1	ne	aı		1											2043
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A)1 19					ra	th	01	og	y													2262
	De	ev	e l	op					itl	ho	r i	ty	0	ſ	TI	ne	H	leb	rew	Ur	ni v	., J	leri	lael	em,	Is	rael 2049
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									u	٢a	1	Еx	pe	r i	m e	en	t	st	ati	on,	C	bile	ge	Sta	tlo	n	
A	c t e	e 1	۱.	Я																							2283
	No	٥r	tĥ	C	ar	01						е	Co	11	eç	je	,	Ra	lel	gh							
Α.	De JCC					Er	11	0	10	10	gу																2051
	Но	n c	t i	cu	11		r a	i	Cı	ro	рs	R	e s	ea	r	:h	S	ta	tlo	n,	Ca	st]e	H	ayne			3008
Ba					E		0			٦r	т	hø	c	1.4		m	n 1	ve	r = 1	+ 12	n۴	New	. v.	ork,	ч.	Υ.	
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Be								сu	13	t u	r a	1	Ex	De	r i	m	PN	+ :	sta	tlo	n						2958
Ba	it∈	e ma	an	9	D	F												•									
Be	Ne	st: fe:		na L	1 P	In	15	ti	tı	ut	es	0	ſ	He	al	t	h										2293
	Ti	re	e	Fr	u 1	t	E	хp	eı	-1	mei	n t	S	ta	ti	0	n,	W	ena	tch	ee	, Wa	sh.				2294
Be	e t Zc	t si oo	na lo	, al	J	1	٥	ſ	TH	ne	U	n 1	ve	rs	14	v		Gr	on l	noe		Net	her	lan	ds		2056
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81	au Co	12,	te ne	in 11	ຳ	M In 1	P	e r	si	. t.	v																
	D€	P	t.	0	1	Zc	00	10	g s	1																	2061
					La		a	te	ı	Jn	ivi	e r	s 1	tv		s	ti	11	vat	er							3105
Br	et	÷t,		С	н																						0200
								na ep			pe	r l	ne	n t	2	iti	a t	10	۰,	Ral	elę	gh					2962
Br	ez	ze:	۶k	1,	H	N.	1												_	_							
	In Pr	151	ty	tu un	t ia	Wa N	ir: lei	zy ma	wr tr	11	cti og:	พ a 1 เ	9	Sk	ie	: r	n í	ew	ice	, P	018	ind					2237
	10	1 k e	e r l	ho	11		L	A																			
	Ok rt					Ag	r	lc	u)	l t	ur	a 1	E	×P	er	1	ne	nt	st	atl	on,	, st	111	wat	er		2325
	De	۶Pł	٩r	tm	en	t	0	ſ	sc	:1	e n '	t I	f 1	с	Ar	d	I	nd	Jst	rla	1 F	lese	arc	:h			206S
Bu	rt D.	ιτ. 	, i 5.	E I	т •	R.																					2067
Ca	mp	,	Н	B					c .																		
											vlo e (Н	ea	1 t	h											
	Dl	lvi	i s	i o	n	0f	. 1	Re	se	a	r cl	h	Gr	an	ts	1											3109
					S En		g	y	Es	st.	a b i	11	sh	me	n t	,	Т	roi	nba	у,	Bos	bay	, 1	ndl	a		
	Bi	0	lo	gy	D	1 v	1	s 1																			2070
					L ub			н	e l	la	th	s	er	v l	ce												
	Di	v	is	i o	n												Sc	ie	nce	9							2071
LI	an Th	ig ie	c	t hi	г са	go		Me	di	c	a 1	s	ch	00	1,		n	1.									
	In	ISI	ti	tu	te	0	11	H	ec	11	cal	L	Re														2340
Ch								En S			010	og.	y														2349
	Uπ	11	/e	r s	1 t	У	0	ſ	W1	s	COL	n s	1 n	9	Ma	d	i s	on									2250
Ch	at	to	P	ad	hy	ay		S	E	Э	the																2350
	U۳	11	/e	r s	1 t	У	0	ſ	WI	is	cor	15	in	9	Ma	d	i s	on									3200
Ch	De In	P1	 	H	ĭ	٢١	a	nτ	+	-a	the	01	og	y													3206
	Me	eti	0	ро							e r :	s i	ty	9	To	k	90	, ,	Jap	an							2073
Co								lo or			Ame	er	lc	an	W	he	20	t 1	lea	f R	ust	Re	sea	rch	Wo		
	Ok	d a	shi	om	a														at								2362
0	ok ₩a	, , 151	1	ng	to	n	A	gr	ic	u	1 t .	ır	al	E	хр	e	-1	mei	h t	Sta	tlo	n					
																				ion							2968

Coudriet, D L	
U. S. Dept. Of Agriculture, Sumner, ∀ash. Agricultural Research Service	
Entomology Research Division	5.169
Cowling, E B National Science Foundation	2372
Crittenden, H W Delaware Agricuitural Experiment Station, Newark	3019
Crosswhite, C D National Science Foundation	2000
Dale, J L Arkansas Agriculturai Experiment Station	°37₿
Dauterman, W C Cornell University, Ithaca, N. Y.	
Dept. Of Entomology	r.085
Davey, K G Research Fellow Of Gonvliie And Caius College, Cambridg	
Davison, A D	2087
University Of Arizona, Tuscon Dickerson, O J	238S
North Carolina Centrai-39 Regional Research Fund	2392
Dimalla, G G University Of California, Riverside.	239S
Dixon, J C U. S. Forest Service, Asheville, N. C. Dogger, J R	2001
Handb Dalada Chaha Hatsaaalka Daasa	
Depts Of Entomology Durbin, R D	2972
University Of Wisconsin, Madison	3262
Dept. Of Plant Pathoiogy Earie, N W	
National Science Foundation Eaton, J L	2093
U. S. Public Health Service Division Of General Medicai Sciences	2094
Elmosa, H M University Of Baghdad	
College Of Agriculture	313S
Evans, ₩ A L Chelsea College Of Science And Technology, London, Engl	
Ford, R E	2097
Oregon State University, Corvaills Botany And Piant Pathology Dept.	2428
Ford, R E	2120
Oregon State University, Corvaills Botany And Plant Pathology Dept.	2429
Frick, K E U. S. Dept. Of Agriculture, Rome, Italy	
Agricultural Research Service Entomology Research Division	2436
Froellch, R C Forest And Wood Products Disease Laboratory, Guifport,	Miss.
Furmldge, C G L	3098
Woodstock Agricultural Research Centre, Sittingbourne,	
Gillies, M T	321B
Britlsh Museum (Natural History), London Dept. Of Entomology	2006
Good, J M Georgia Coastal Plain Experiment Station, Tifton	3031
Graham, S D	3221
State Of Washington Initiative Measure Graham, T W	
South Carolina Agricultural Experiment Station, Florence	e 3034
Graham, T W South Caroilna Agricultural Experiment Station, Florence	e
Gratwlck, M	3036
Ministry Of Agricuiture, Fisheries And Food, Harpenden,	U.K. 3110
Plant Pathology Laboratory Gratwlck, M	
Ministry Of Agriculture, Fisherles And Food, Harpenden, Plant Pathology Laboratory	U.K.
Plant Pathology Laboratory Grlffln, G D	3137
Utah State University, Logan	2470
Crops Research Laboratory Hagen, A F	247S
University Of Nebraska, L1ncoln Dept. Of Entomology	2974
Halr, J A Virginia Polytechnic Inst., Blacksburg	
Dept. Of Entomology Hanec, W	2111
University Of Wisconsin, Madison	

Hanec, ¥

•

Hanson, Jr., F E	
Dept. Of Entomology	2112
Hanaon, Jr., F E Zoological Laboratories, University Of Pa., Philadelphi	
Hardee, D D	2113
U. S. Dept. Of Agriculture, State College, Miss. Boli Weevil Research Laboratory	2975
Harrison, M D Diin Mathleson Chemical Corp.	2501
Henneberry, T J U. S. Dept. Of Agriculture, Riverside, Calif.	
Agricultural Research Service Entomology Research Division	2012
Hiii Jr, A A. \$ T. College Of North Carolina	3143
Hine, R B University Of California, Davis	
Dept. Of Plant Pathology Hiral, T	2523
Ministry Of Education, Japan Scientific Research Expenditure	2524
Hobbs, E L Weber State College, Ogden, Utah	3224
Hodgson, E U. S. Pubilc Health Service	
National Institutes Of Health Holmes, F W	2123
National Science Foundation Hoppe, P E	2529
Wisconsin Agriculturai Experiment Station, Madison Hoppe, P E	2242
Wisconsin Agriculturai Experiment Station Horner, C E	2535
Dregon State University, Corvailis Howse, P E	2536
Zoologisches Institut Der Universitaet, Bern, Switzeria	2125
Hulsingh, D North Carolina State University Dept. Of Plant Pathology	3270
Isaak, A	5270
U. S. Dept. Of Agriculture, Manhattan, Kan. Agriculturai Research Service Crone Research Division	2976
Crops Research Division Jay Jr, E G University Of Fiorida, Gainesville	2970
Dept. Of Entomology Jenkins, A E	2130
Instituto Agronomico, Campinas, Brazil John, V T	2553
Dept. Df Agriculture, Vancouver 8, B. C. Canada Research Station	2556
Johnson, H W Mississippi Agricultural Experiment Station, Stonevilie	
Johnson, L B	2560
National Science Foundation Summer Feilowship	2563
Kanungo, K U. S. Public Health Service National Institutes Of Heaith	2131
Keiler, J C International Atomic Energy Agency, Kartnerring, Austri	
Kesseler Jr, K J	2134
Northern Hardwood Laboratory, Marquette, Mich. Khan, M R	2588
West Pakistan Agricuitural University, Lyalipur Dept. Of Entomology	2136
Klipatrick, R A University Of New Hampshire, Durham	
Dept. Of Botany And Agronomy Klipatrick, R.A.	2590
University Of New Hampshire, Durham Depts. Of Botany And Agronomy	2591
Klipatrick, R A University Of New Hampshire, Durham	
Depts. Of Botany And Agronomy Klipatrick, R A	2592
University Of New Hampshire, Durham Dept. Of Botany And Entomology	2593
Kiisiewicz, J M University Of California, Davis	
Dept. Of Piant Pathology Kreasky, J B	2599
Montana State College Dept. Of Entomology	2137
Kuiik, M M U. S. Army Blological Warfare Lab., Fort Derrick, Md.	2611
Lambremont, E N	2011

PAG	E	٦.	56

Louisiana State University, Baton Rouge Dept. Of Entomology	
Louisiana Agricultural Experiment Station	2139
Langdon, K R Florida Dept. Of Agricuiture, Gainesviile	
Division Of Piant Industry Larsen, J R	2519
University Of Wyoming, Laramle Lathan, A J	2140
Gulf Oli Corp., Merriam, Kansas Research Center	
Spencer Chemical Division Leben, C	3252
National Science Foundation Levenbook, L	2622
National Heart Institute (H-1917c)	2145
Levinson, 2 H Research Councii Of Israei	
Sir Simon Marks Feliowship Littreli, R H	2146
Florida Gulf Coast Experiment Station, Bradenton Lockshin, R A	2629
Institute Of Animal Genetics, Edinburgh, Scotland Luepschen, N S Western Slope Branch Experiment Station	2149
Western Siope Branch Experiment Station Maler, C R	263B
California Spray-chemical Co., Richmond, Calif. Malca, I	2643
University Of California, Riverside Dept. Of Plant Pathology	2647
Maio, S University Of Fiorida, Gainesville	
Dept. Of Fruit Crops Maitais, J B	3276
Coiombo Plan, Salgon, Viet Nam	2154
Matthysse, J G U. S. Public Health Service	3151
McFadden, L A Florida Flower Association	
Martin County Flower Growers Association McLean, D M Texas Agricultural Experiment Station, Welasco	2657
Mehrotra, K N	2660
Cornell University Dept. Of Entomology	2157
Metcaif, R L U. S. Public Health Service	2 1 5B
Middiekauff, W W University Df California, Stockton	3152
Miller, J W Baidwin-wallace College, Berea, Dhlo	
Blology Dept. Minton, N A	2160
Coastal Plain Experiment Station, Tifton, Ga. Mitcheli, C J	3049
Johns Hopkins University Mitcheli, C J	2020
Johns Hopkins University	
Schooi Of Hygiene And Public Health Dept. Of Pathobiology	2161
Morl L. Ajinomoto Co., Inc., Tsurumi-ku, Yokahama, Japan	2166
Morrison, R H University Of Minnesota, St. Paul,	
Dept. Df Plant Pathology And Physiology Mukalyama, F	2685
Tokyo Noko Unlversity, Koganel Faculty Of Agriculture	
Dept. Of Sericulture Murashige, T	2167
Stanford Research Institute, Stanford, Callf. Nayar, J K	2697
University Of Manitoba, Winnipeg Dept. Of Entomology	2169
Veal Jr, J W U. S. Public Health Service	
National Institutes Of Health Neunzlg, H H	2999
North Carolina Agricultural Experiment Station, Haielgh	2022
Entomology Dept. Nickeli, L G	2022
Chas. Pfizer And Co., Groton, Conn. Boyce Thompson Institute For Plant Research, Yonwers, N	Y.
Datman, E R	2713
University Of California, Riverside Dept. Of Bloiogical Control	2023
Orr, C W U. S. Public Health Service	2172
Drr, C W M	

U. S. Public Health Service	2173
Pass, 8 C Chemagro Corporation	3163
Payne, D W	0100
Chelsea College Of Science And Technology	
Blology Dept. Petersen, D H	2176
South Carolina Agricultural Experiment Station, Cicmson	
Ditta C H	2741
Pltts, C ₩ Shell Chemicai Co.	3083
Powelson, R L	
General Foods Corporation Birds Eye Division	2753
Powers Jr, H R	2.00
U. S. Dept. Of Agriculture, Asheville, N. C.	
Forest Service Southeastern Forest Experiment Station	2754
Prins, G	
Canada Dept. Of Agriculture, Chatham, Ontario	3167
Entomology Laboratory Purdy, L H	5167
U. S. Dept. Of Agriculture	
Agricultural Research Service Crops Research Division	2759
Race, S R	2109
U. S. Dept. Of The Interior	
Bureau Of Land Management Rakshpal, R	2992
Macdonald College Of McGill University, Montreal, Canada	
Dept. Of Entomology And Plant Pathology	2182
Reiling, T P Green Giant Co., Dayton, Wash.	2769
Revelo, M A	
Centro Nacional De Inv. Agric. Tibaitata, Bogota, Columb	ia 2186
Rivera, C T	2100
Manila Hotel, Philippines	2775
Rochow, W F Cornell University, Ithaca, N. Y.	
Dept. Of Plant Pathology	2778
Rochow, W F	
Cornell University, Ithaca Roeder, K D	277Э
National Institutes Of Health	2189
Rogers, J D	
Washington State University, Pullman Roth, J N	2782
Goshen Coilege, Goshen, Ind.	
	2785
Schafer, J F U. S. Dept. Of Agriculture	
Agricultural Research Service	
Crops Research Division Agricultural Experiment Station	2800
Schnathorst, W C	
University Of California, Davis	2005
Dept. Of Plant Pathology Schneider, D	2805
Deutsche Forschungsanstalt Fur Psychlatrie, Munich	
Max- Planck- Institut	2193
Self, L S U. S. Public Health Service	
Division Of Environmental Engineering And Food Protectio	
Selman, 8 J	2236
British Museum (natural H1story)	
	2194
Shanks Jr, C H South Western Washington Experiment Station, Vancouver	
	3286
Singh, S R U. S. Dept. Of Agriculture	
U. S. Dept. Of Agriculture Agricultural Research Service	
U. S. Dept. Of Agriculture Agricultural Research Service Entomology Research Division	2195
U. S. Dept. Of Agriculture Agricultural Research Service Entomology Research Division Smale, 8 C	
U. S. Dept. Of Agriculture Agricultural Research Service Entomology Research Division Smaie, 8 C Northern Utilization Research And Devel. Div., Peoria, I	2195 11. 2829
U. S. Dept. Of Agriculture Agricultural Research Service Entomology Research Division Smaie, 8 C Northern Utilization Research And Devel. Div., Peoria, I Sprague, R	11. 2829
U. S. Dept. Of Agriculture Agricultural Research Service Entomology Research Division Smale, B C Northern Utilization Research And Devel. Div., Peoria, I Sprague, R Washington State University, Pullman	11.
U. S. Dept. Of Agriculture Agricultural Research Service Entomology Research Division Smaie, 8 C Northern Utilization Research And Devel. Div., Peoria, I Sprague, R Washington State University, Pullman Spurr Jr, H W Michlgan State University, East Lansing	1 i . 2829 2847
U. S. Dept. Of Agriculture Agricultural Research Service Entomology Research Division Smale, 8 C Northern Utilization Research And Devel. Div., Peoria, I Sprague, R Washington State University, Pullman Spurr Jr, H Michigan State University, East Lansing Dept. Of Botany And Piant Pathology	11. 2829
U. S. Dept. Of Agriculture Agricultural Research Service Entomology Research Division Smale, B C Northern Utilization Research And Devel. Div., Peoria, I Sprague, R Washington State University, Pullman Spurr Jr, H W Michigan State University, East Lansing Dept. Of Botany And Piant Pathology Spurr Jr, H W Rockefeller Foundation	1 i . 2829 2847
U. S. Dept. Of Agriculture Agricultural Research Service Entomology Research Division Smale, 8 C Northern Utilization Research And Devel. Div., Peoria, I Sprague, R Washington State University, Pullman Spurr Jr, H W Michigan State University, East Lansing Dept. Of Botany And Plant Pathology Spurr Jr, H W Rockefeller Foundation Sreams, F A	11. 2829 2847 2849
U. S. Dept. Of Agriculture Agricultural Research Service Entomology Research Division Smale, & C Northern Utilization Research And Devel. Div., Peoria, I Sprague, R Washington State University, Pullman Spurr Jr, H W Michigan State University, East Lansing Dept. Of Botany And Piant Pathology Spurr Jr, H W Rockefeller Foundation Sreams, F A U. S. Dept. Of Agriculture, Moorestown, N. J.	11. 2829 2847 2849
U. S. Dept. Of Agriculture Agricultural Research Service Entomology Research Division Smale, B C Northern Utilization Research And Devel. Div., Peoria, I Sprague, R Washington State University, Pullman Spurr Jr, H W Michigan State University, East Lansing Dept. Of Botany And Piant Pathology Spurr Jr, H W Rockefeller Foundation Sreams, F A U. S. Dept. Of Agriculture, Moorestown, N. J. Agricultural Research Service	11. 2829 2847 2849

	TARWOOD, C E
National Council For Agricultural Research	2203
Strobel, G A Montana State College, Bozeman	
Dept. Of Botany And Bacteriology Strobel, G A	2856
Montana State College, Bozeman Dept. Of Botany And Bacterlology Strong, R G	2857
Agricultural Experiment Station, Riverside	3244
Swihart, S L National Science Foundation Templeton, G E	2207
Templeton, G E U. S. Dept. Of Agriculture	
Agricultural Research Service Crops Research Division	2868
Thomason, I J University Of California	
Cancer Research Funds Thyr, 8 D	3071
Cheyenne Horticultural Field Station, Wyoming Toba, H H	2872
Purdue University, Lafayette, Ind.	2875
Toler, R W University Df Georgia, Tifton	
College Of Agriculture Coastal Plain Experiment Station	2879
Toole, E R Stonevllie Research Center	2881
Treshow, M Utah State University, Logan	
Dept. Of 8otany And Plant Pathology Trione, E J	2885
Oregon State College, Corvallis Science Research Institute	2887
Trione, E J Dregon State College, Corvallis	
Science Research Institute	2888
Tsao, C H University Of Georgia	2998
Tsao, C H University Of Georgia, Athens	3177
Turner, P D Dil Palm Research Statlon, Banting, Malaya	2894
Turner, P D Dil Palm Research Station, Banting, Malaya	2896
Vaartaja, D Forest Pathology Laboratory, Maple, Ontario, Canada	2900
van Regenmortei, M H V Public Health Services Research Grani	2257
Vanderzant, E S Foundation For Cotton Research And Education	2216
Vanderzant, E S Texas Agricultural Experiment Station, College Stat	
Waiker, E K	2218
Canada Dept. Of Agriculture, Harrow, Ontario	2907
Waiker, J C University Of Wisconsin	2000
Dept. Of Plant Pathology Walker, J C	2908
National Kraut Packers Association Wallis, D I	2909
Marischal College, Aberdeen, Scotland Dept. Of Physiology	2220
Watanabe, T Kyushu University, Fukuoka, Japan	
Dept. Of Agricultural Chemistry Watson, J A L	2221
Western Reserve University, Cleveiand, Dhio Developmental Blology Center	2224
Watson, J A L Western Reserve University, Cleveland, Dhio	
Developmental Biology Center Wells, D G	2225
Nigerian Western Region Ministry Of Agric., Ibadan,	
Whitcomb, R F	2919
National Science Foundation Whitten, J M	2923
National Science Foundation Wicker, E F	2227
Forestry Sciences Laboratory, Moscow, Idaho Wiiiiams, P H	2924
National Institutes Of Health Public Health Research Service	
Allergy And Infectious Diseases Section Yarwood, C E	2929
Agricultural Research Council, Cambridge, England Virus Research Unit	2944

· ·

AUTHOR INDEX

							Colberg, C
Adam, A V	225B 2259	Ayoub, S M	3009	Bitters, W P	2595	Bynum, H H	2666
Adams Jr, J T Adams, R E	3005	Baggett, J R 2427, 242B	22B7	3010 Black, H S	3199	Cadman, C H Caffey, H R	2332 2561
3042		Balley, C F	2955	Blake Jr, G H	3121	Cairns, E S	3048
Addy, S K Adkins Jr, T R	3220 2111	Balley, S F Baln, D C	2956 22BB	Blank, L M	2307	Calavan, E C	2341
3105	2111	3094	2200	230B Blaustein, M P	2061	Caldwell, R M 3193	2800
Adkisson, P L	2955	Balnes, R C	3010	Blodgett, E C	2309	Callahan, P.S.	3256
Afanaslev, M M 2261	2260	Bajpal, G K 2652	2651	2310, 2311, 2313, 2B14	2312	Callbeck, L C Calpouzos, L	2333 2334
Agosin, M	2043	Baker, J T	2100	Bloom, J R	2314	Calvert, D H	2335
Agrawal, H C	2174 2763	Baker, R 2525	2289	Bobb, M L	2062	Cameron, H R	2336
Ahmed, A A Alchele, M D	2309	Balboni, E R	2052	Boewe, G H Bohn, G W	2315 2316	Camp, H B Campana, R J	3109 2337
2311, 2312,	2313	Bald, J G	2290	2317, 2917,	291B	Campbell, R N	2338
Akov, S 2045	2044	Baldaccl, E Balock, J W	2B14 2053	Bohn, ₩ R Bolar, M L	3096 3200	Campbell, W A Camphell, W A	2339 2752
Alaban, C	2254	2963	2000	Bollenbacher, K	2442	Canerday, T D	2964
Albert, J J	2262	Banersee, A K	2652	Bolston, L H	310B	Canetta, A C	2890
Alexander, M Alexander, M W	2676 3125	Banfield, W M Bang, Y H	236B 2957	Bondi, A 3106	2060	Cannon, O S Carlton, C C	2885 2393
Alford, D M	3185	Banttarl, E E	2291	Bonilha, S	2785	Carlton, R C	2285
Allam, E K	2263	3190 Barba C D	3191	Boothroyd, C W	231B	Carnegle, A J M	2965
Allan, R E 275B	2264	Barba, C D Bariola, L A	2219	Boreham, M M Borkovec, A B	3254 2063	Caroselli, N E 3234	2340
Allen, N	2971	Barker, K R	3011	Bosher, J E	3060	Carpenter, J B	2341
Alien, T C Allen, W R	2046 2BB4	3192 Barlon, J S	2235	Bottini, A T Boudreaux, H B	3120 2342	Carr, C A H	2064 3257
Almeydal, N	2792	Barlow, J S	2124	Boulanger, L W	3124	Carter, C I Carter, J C	2701
Altman, J	2391	Barnes, G L	2292	Boush, G M	3125	Carthy, J D	206B
31B6 Alumot, E	3106	3095 Barnes, O L	2054	Bove, J M Bowman, D H	23B3 2559	Cartler, J J Carver, R G	2966 2342
Amacher, R H	3193	295B		2560, 27B9		2343	
Amman, G D Ancalmo, O	1992 2265	Barr, A R Barr, R	3254 3193	Bowman, J N Boyce Jr, J S	2B31 2319	Casida, J ∟ Cassin, J	2221 2344
2266, 2267		Barrass, R	2095	2755, 2867		Castano, J J	2345
Andersen, A L 31BB	3187	Bartlett, A	23B7	Boyle, J S	2320	Catovic-Catani, S	2346
Anderson, D S	2047	Bartlett, F J 3149	2150	Boyle, L W Bozarth, R F	2554 3201	Catton, W T 2067	2066
Anderson, G W	226B	Barton Browne, L	2055	Bradbury, J F	2321	Catts, E P	2069
Anderson, L D Anderson, R L	3119 2269	Bass, M H Basson, W J	3121 2722	Bradley, J D Brady Jr, V E	2961 3126	Ceponls, M J Cercos, A P	3085 3204
2270		Bastida, R	2962	Brandsberg, J	2937	Cervantes, J	2347
Andres, L A Angalet, G W	1993 1993	Bateman, D F 2506, 3194	2293	Brandt, W H Brann, J L	27B8 2710	Chadha, M S Chadwlck, L E	2070 2071
Anzalone Jr, L	2379	Batjer, L P	2294	2711	2710	Chamberlain, W F	2072
Apple, J L	2271	Bazan de Segura, C	2295	Brantley, B B	260B	Chambers, A Y	3021
2403 Applebaum, S W	1994	Beal, R H Bean, G A	3122 2296	Breece, J R Brennan, E	2906 2377	3022, 3023 Chandler, J A	234B
204B, 2049		2297, 3195		Brett, C H	24B5	Chang, E P	2349
Apt, W J Aragakl, M	3006 2272	Bean, JL Beck, SD	1995 2112	2962 Bretz, T W	2322	Chang, S C Chapin, J	2063 2013
2273, 2274,	2697	Becker Jr, G C	3180	Brezeskl, M W	2237	Chapman, G A	2177
2723 Arant, F S	2964	Beckman, C H Beckman, K M	3196 229B	Brian, M V Brierley, P	2064 2323	Chapman, R A 3016, 3205	2557
Ark, P A	2275	Beeson, K C	3123	Briggle, L W	2324	Charpentler, L J	2953
2276, 2277,	2944	Beetsma, J	2056	Brinkerhoff, L A	2325	Chattopadhyay, S B	2350
3120 Armbruster, D	2785	Begg, J A Bell, A H	2959 3066	253B Brister, C D	261B	3206 Chen, T	2351
Armstrong, G M	227B	Beltz, A D	2189	Britton, M P	2505	Chi, C C	2352
2279 Armstrong, J K	227B	Benatena, H N Benjamin, D M	2299 2001	Brodie, B B Bromfleld, K R	2366 3202	2353, 2354, Chiang, H C	3097 2967
2279		3180		Brooks, R F	2023	325B	
Arny, D C Arthur, B W	2727 3109	Bennet-clark, H C Bennett, C W	2057 2300	Browder, L E 2947, 3255	2326	Chiarappa, L 2B14	2513
3126	0109	Benschoter, C A	205B	Brown, G E	2327	Chllders, W R	2352
Arya, H C	3107	2960		232B		2353	
Asal, G N 3275	2280	Benson, N R Benson, O L	2294 1996	Brown, R T Bruehl, G W	2B27 23B0	Childs, D P Childs, J F L	3259 3027
Asegueda, H A	2693	Beraha, L	2942	2847, 3203		Chinn, S H F	2355
Ashrl, A 22B2	22B1	3197 Berbee, J G	2301	Buck, W B Bull, D L	3127 312B	Chino, H Chorin, M	2073 2551
Ashworth Jr, L	22B3	27B2		Bumblerls, M	2900	Chrlstenson, L D	2053
Ashworth Jr, L J 22B4, 3007	2247	Bergeson, G B Berry, C R	2302 2303	Burbutls, P P Burditt Jr, A K	2374 2053	Christlansen, D W Chung, B K	2341 2356
Asquith, D	2050	Berry, D W	3001	2963		Chung, H S	2356
3265		Berry, F H	2322	Burges, H D	2065	Clesla, W M	1997
Astln Jr, J S Athow, K L	2367 2302	Bhattacharya, S K Bier, J E	2692 2304	Burk, L G Burkholder, ∀ E	3015 3092	Clntra, A F Clark, E W	27B5 3260
Atkins, J G	22B5	Blgger, J H	2059	Burnett, H C	2329	Clark, W A	3233
31B9 Auclair, J L	2154	Blgley, W S Binns, W	2177 3123	Bursell, E Burton, V E	21B1 29B2	Clark, W R Clarke, K L	3293 2074
2200		3127		Burtt, E T	2066	Clarke, O F	3010
Augustin, C L Austenson, H M	1999 3203	Blrchfleld, W 319B	3012	2067 Bushong, J W	2330	Cleveland, M L Cobb Jr, F W	2075 2415
Averre I II., c W	3103	Bird, G W	2305	Butler, E E	2331	Cochran, H L	2389
Axelrod, H	3157	3013, 3014	2706	2513	25.05	Coffee, E G	3040
Axtell, R C Aycock, R	2051 2286	Blrd, L S 2357	2306	Butler, J D Butler, L	2505 296B	Cognee, M Cohn, E	2357 3017
300B		Blek, Y	2060	Buttram, J R	3109	Colberg, C	2334
							DACE 15

Coie, J

AUTHOR INDEX

Coie, J							
Colc, J	2358	Davis, R A	3184	2719		Frederiksen, R A	2434
Coic, J R	2359	Davison, A D	2385	El-Halderí, H	3051	Freeman, T E	2435
2360, 2361		Day, M F	2703	El-Shchedi, A A	2763	Freitag, J H	2433
Coles, L W Coilíns, R J	1998 3018	de Reyes, L C de Ruíter, L	2646 2056	Eldefrawi, M E 3134, 3175	3133	French, D d	2436
Committee Of North A	2362	de Wiide, J	2056	Eiglndi, D M	3055	Frick, K E Fridlund, P R	2430
Complin, J O	3145	Dean, J L	2386	3057		2438	
Compton, L E	2800	Dcarden, M	2089	Elkishen, S A	3133	Friedman, 8 A	3065
Compton, D C	3240	Deba, R	2919	Eliett, C W	2407	Froelich, R C	3098
Concienne, E J Conkiln, J G	3141 2593	Deema, N H Decp, I W	2550 2387	Eifiot, A M Elmosa, H M	3287 3135	Froshelser, F I Fuentes, S F	2439 2440
Conners, I L	2363	2388	2007	Elsaid, H M	2408	Fukuto, T K	2158
Connin, R V	2076	Degman, E S	2294	2409, 3216		Fuiton, J P	2441
Connola, D P	3129	del Rosario, M S	2254	Endo, 8 Y	2410	Fulton, N D	2442
Conover, R A	2364	del Rosario, M S E	2041	Endo, R M	2411	Funagalli, A	2803
Converse, R H 2681	2365	Dclí, T R Dempsey, A H	2399 2389	English, H Enns, W R	2725 2989	2804 Furmidge, C G L	3218
Cook, H C	2968	Derr, R F	2090	Epps, J M	3021	Futreil, M C	2283
Cook, R J	2812	Desai, M V	2390	3022, 3023		Fye, RL	2083
Coon, 8 F	2160	Dewey, J E	2091	Epps, W M	2629	Galnes, J G	2443
2779 Cooper, G R	3261	DeWolfe, T A 2601	2600	Epstein, A H 3011	2475	Gailndo A., J 3219	2444
Cooper, W E	2366	deZeeuw, D J	2255	Erkeiens-Nannlnga, K	2903	Galiegly, M E	2339
2394, 3061		2576, 3184,	3253	Escobar, P	3062	Galvez, G E	2445
Coppel, H C	2046	Dí Edwardo, A A	3020	Esser, R P	3264	2446	
Corbet, P S 2077	1999	Diab, K A Dicke, R J	3053 3092	Evans, W A L 2176	2097	Gans, G Garren, K H	3286 2447
Corbett, D C M	2452	Dickens, L E	2391	Everett, PH	2569	Gaskin, T A	2448
Corbett, M K	2468	Dickerson, O J	2392	Everett, T R	2098	2449, 3029	2440
2920		Dickey, R S	2864	2099, 2983		Gay, J D	2450
Cordeii, C E	2367	Dickson, J G	2350	Fairchild, M L	2335	Gehring, R D	2103
Costonls, A C Couch, H 8	2368 2314	3206 Dickson, R C	2614	Falcon, L A Farkas, G L	3004 2597	Gentlle, A G Gentry, T	2497 3259
3238	2014	Diener, U L	2393	Fassuliotis, G	3024	George, J C	2168
Coudriet, D L	2969	2394		Fathf, S M	2678	Gibler, J W	2451
Courter, J W	2369	Dímalla, G G	2395	Fauikner, L R	3025	Gibson, I A S	2452
2823	2330	Dimond, A E	3212	Fay, R W	2100	Glbson, P 8	2492
Covey Jr, R P 2371	2370	3213 Dishon, I	2520	Featherston, P E Feder, W A	2968 3026	Gilbertson, R L Gilby, A R	2825 2223
Cowilng, E 8	2241	Ditman, L P	3115	3028	0020	G111, C C	2453
2372, 2742,	3207	Dittrich, V	2234	Feldman, A W	2412	Gill, D L	3099
Cowverse, R	3030	Díxon, J C	2001	3018, 3068		Gillenwater, H 8	3266
Cox, J A	2970	Dobson, R C	3080 2396	Feldmesser, J 3028	30 27	Giilespie, W H	2454 2006
Coyier, D L Craigmiles, J P	2373 2640	Dochinger, L S Doepel, R F	2750	Fellx, E L	3217	Giilies, M T Gllmer, R M	2455
Creech, J L	3273	Dogger, J R	2972	Fennah, R G	2002	2456, 2457,	2458
Creighton, C S	2971	Dooling, O J	2397	2973		Ginsburg, O	2768
Cressman, A W	2078	Dopson Jr, R N	2398	Fenner, L M	2413	Gloding Jr, G V	2239
Crittenden, H W	3019 2374	Dopson, R N Dowler, W M	2285 2740	Fenwick, H S Fergus, C L	2483 2414	Godwin, P A Goeden, R D	2104 2459
Crossan, D F 2375, 2883,	2925	3214	2740	2415, 2612	2414	Goenaga, A	2713
Crosswhite, C D	2000	Driscoll, G R	3003	Fezer, K D	2416	Goh, K G	2729
Crowell, H H	3130	Driver, C H	2399	2417		Gold, A H	2431
Crum, R A	3184	Dropkin, V H	3015	Fieldhouse, D J	2374	2433, 3245	210.2
Crystal, M M 2080	2079	Drummond, R D DuCharme, E P	3132 3068	Figaro, P 2846	2371	Goldberg, M Golden, A M	2109 3030
Culp, T W	2376	Duffus, J E	2400	Filer Jr, T H	2418	3052, 3067	0000
Cunningham, J L	3208	Dukes, P D	2401	2419		Gonzales, C Q	3152
3209		2402, 2403,	2877	Finney, G L	2101	Good, J M	3031
Curl, E A	3210	Dunieavy, J	2404	Fischer, G W	3225 2321	3032, 3033, Goodchild, D J	3099 2290
Currin, R E Dadd, R H	3035 2081	3215 Dunleavy, J M	2615	Fisher, R W Fitzgerald, P J	2420	Goode, M J	2460
2082	2001	Durbin, R D	3262	Flanders, S E	2003	Gooding Jr, G V	2513
Dahlstrom, R V	3211	3270		Fleischmann, G	2421	2581	
Daines, R H	2377	Dustan, G G	2092	Flitters, N E	2102	Goodman, L J Goodman, R N	2068 26 7 3
3086 Dale, J L	2378	Dutky, S R Earle, N W	3281 2093	Flower, J W Foguet, J L	2004 2422	Goodman, R N 2989, 3220	2075
2379		2098		Foley, D C	2423	Goos, R D	2474
Dame, D A	2083	Eaton, J L	2094	Forbes Jr, I	2920	Gordon, P N	2713
2084, 2192		Ebeling, W	3293	Forbes, I	2424	Goren, R	2680
Damsteegt, V D	2380	Echandl, E	2405	Forbes, I L 2426	2425	Gorz, H J Gorzycl, L J	2018 2147
3203 Darby, J F	2238	2795 Eckert, J ₩	2331	Ford, J 8	2136	Goss, R L	2462
2381	2200	Eddy, G W	2088	Ford, R E	2427	2464, 2465	
Darling, H M	2392	EdgIngton, L V	2908	2428, 2429,	2495	Gottlleb, D	3214
Das, G N	2382	2913	0405	Ford, Z T	3035	Gouck, H K	2105
Daubeny, H A Dauterman, W C	2738 2085	Edmunds, L K Edney, E B	2406 2095	Fordyce Jr., C Fordyce, C	2810 2473	Gould, C J 2462, 2463,	2461 2464
2123	2000	Edwards, J S	2096	Forgash, A J	2114	2465, 3006	
Dauthy, D	2383	Edwardson, J R	2424	2115		Graham, J H	2466
Davey, K G	2086	Eglítís, M	2465	Forrest, W D	2430	Graham, S D	3221
2087	2124	Elchhorn, J L	3026	Forsythe Jr, H Y	2005	Graham, T W 3035, 3036	3034
Davich, T 8 2135, 2147	2134	Eide, C J Eieldhouse, D J	3087 2925	2975 Foulk, J D	3136	3035, 3036 Granett, P	3138
Davldson, R W	2384	Elghme, L E	3263	Fraenkei, G	2169	Grant, T J	2467
Davls Jr, S H	2744	Einspahr, D W	2269.	Frazler, N W	2431	2468	
Davls, 8 N K	3131	Eisner, T	2070	2432	00	Gratwick, M	3110
Davis, G R F	2132 2088	Elssa, F M	3054 2719	Frazler, W A Frazlez, N W	2287 2433	3137 Graves Jr. C H	2469
Davis, H G Davis, N D	2394	El-Attar, S El-Banna, M T	2719	Frear, D E H	3265	2470, 2471	2405
PAGE 160							

AUTHOR INDEX

Kohier, P H

							KONTEEP F
Gray, L E	2472	2117		2343		2566	
Greeley, L W	2689	Hartmann, G C	2503	Horner, C E	2536	Jones, C M	3052
2690	2472	Hartweii, W V	3211	Horsfall, J G	3250	Jones, J P	2567
Green Jr., R J	2473	Haskeli, P T	2118	Hosein, I	2794	2568, 2569,	3227
2810 Green, G ₩	2106	Hason, E W Hassan, S	2354 3175	Houck, L G	3088	Jones, J R	2522
Greene, G L	2474	Hastings de Gutierre	2504	House, H L 2235	2124	Jones, M D R Jones, T d	3272 2570
3267		Hawksworth, F G	2626	Houston, 8 R	2490	2571	2010
Griffin, G D	2392	Hawn, E J	2737	Hoveland, C 5	2481	Joranson, P N	2269
2475		Hays, K L	3109	Howse, P E	2125	Juska, FV	2606
Griffiths, D A	2476	Hays, 5 8	3269	Hoyt, 5 C	3144	Kable, P F	2572
Grogan, R G	2338	Heald, C M	3037	Huber, D	3187	Kae, 8 M	2957
2477, 2478	0,000	Healey, M J	2505	3188		Kahn, R P	2573
Grover, R K	2479 3100	Hebert, T T	2878	Huber, D M	2483	2574, 3273	
Grzenda, A R Guba, E F	2480	2879 Hecht, E I	2506	Huddleston, E.W.	3111	Kalani, 1 K	2575
Gudauskas, R T	2481	3201	2000	Huffaker, R C Huislngh, D	2647 3270	Kantack, E J	2980 2131
Guengerich, H W	2482	Hedin, P A	2162	Hunter, J E	2537	Kanungo, K Karas, J G	2576
2673, 2674		Heinrich, G H	2010	Hunter, R E	2325	Karle, H P	2577
Gundurao, H R	2107	2011		2538		Kashiwagi, Y	2524
Guthrie, D M	2108	Helton, A W	2507	Hurt Jr, 8 C	2470	Kasting, R	2132
Guthrie, F E	2180	2508, 2509,	2510	2471		3277	
2236, 2720		Henderson, W J	2391	Husain, 5 5	3226	Katsanos R A	2244
Guthrie, J W	2483	Henderson, W R	2511	Hussin, H	2388	Kaufman, D D	3228
2484	2006	Hendrick, R D	2616	Hutchins, L M	2539	3274	0570
Gyrisco, G G 2029, 2975,	2005 3111	2983 Hondaly (5 5 5	2607	2540, 2541	30.26	Kavanaoh, T	2578
2029, 2975, 3159	5414	Hendrix Jr, F F 2731	2007	Hutchins, P C Hyre, R A	3026 2542	Kawase, 5	2133 2129
Haard, R T	2606	Henneberry, T J	2012	Illman, W I	2543	Kawashima, K Keane, F W L	2632
Haas, J H	2865	2119, 2120	0010	2544	2010	2633, 2634	0000
Habeck, D H	2485	Henry, 5 E	2868	Imie, E P	2545	Kearby, W H	3180
Hackmann, R H	2109	Hensley, 5 D	2013	Irzykiewlcz, H	2178	Keariey, E O	3146
Hacskaylo, J	3128	3141, 3142		Isaac, P K	3271	Keaster, A J	2335
3249		Henson, L	2557	Isaak, A	2976	Keil, H L	2579
Haenseler, C M	2377	Hepting, G H	2512	Isaak, L W	3157	2580	
Hafsted, G E	2486	Herr, R R	2240	Ishaaya, I	2060	Keiler, J C	2134
Hagedorn, D J 3208, 3209	2487	Herrington, L Heuberger, J W	2241	Ishi, M	2272	2135	2772
Hagen, A F	2974	Hewitt, W 8	2262 2513	Ishikawa, 5 Ito T	2126 2127	Keiman, A 2581, 3229,	2372 3288
Hagiwara, 5	2110	2856	2010	Ito, T 2128, 2129,	2166	Kelton, L A	2014
Hagley, E A C	2007	Hikida, H R	2514	2167	DAGO	2015	U.L.
Haglund, W A	2488	Hildebrand, D C	2515	Jacklin, 5 ₩	2977	Kendrick, E L	2528
2489		3222		Jackson, C R	2394	2582, 2583,	2584
Hair, J A	2111	Hildebrand, E M	2121	2546, 2547,	2548	Kennedy, 8 🖌	2327
Halevy, A H	2863	2516, 2517,	2518	2549		2328, 2585,	2596
Halisky, P M	2490	Hildebrandt, A C	2373	Jain, J 5	2651	Kern, F D	2587
Hail, I M	3119	2849, 3107	2342	James, L	3127	Kerr, T	2649
Haimos, 5 Haipin, J.F.	3196	Hill Jr, A	3143	James, L F	3123	Kesseier Jr, K J Khap M P	2538
Haipin, J E	2249	Hili, J H	2852	James, W	2208	Khan, M R	2136
Haipin, J E 2491, 2492	2249	Hili, J H Hilier, W	2852 2 736	James, W Janson, 8 F		Khan, M R Khera, S	2136 3077
Haipin, J E 2491, 2492 Hamelri, Y		Hili, J H Hilier, W Hilu, H M	2852	James, W Janson, 8 F 2550	2208	Khan, M R Khera, 5 Kieckhefer, R <i>4</i>	2136
Haipin, J E 2491, 2492	2249 2493	Hili, J H Hilier, W	2852 2736 2519	James, W Janson, 8 F	2208 2407	Khan, M R Khera, S	2136 3077 2050
Haipin, J E 2491, 2492 Hamelri, Y Hamiiton, E W	2249 2493 2072 2260	Hili, JH Hilier, W Hilu, HM Himelick, E8	2852 2736 2519 2702	James, W Janson, 8 F 2550 Jardeny, A	2208 2407 2551	Khan, M R Khera, 5 Kieckhefer, R <i>4</i> Kiesiing, R L	2136 3077 2050 2589 3112
Haipin, J E 2491, 2492 Hamelri, Y Hamiiton, E W Hamiiton, R I 2494 Hamner, C L	2249 2493 2072 2260 2576	Hili, JH Hilier, W Hilu, HM Himelick, E8 Hindi, E Hinds, TE 2522	2852 2736 2519 2702 2520 2521	James, W Janson, 8 F 2550 Jardeny, A Jarnevíc, N 8 Jaworski, C A Jay Jr, E G	2208 2407 2551 3040 2402 2130	Khan, M R Khera, S Kieckhefer, R J Kiesiing, R L 2848, 3230 Kiigemagi, U Kiigemagi, U Kiiby, W J	2136 3077 2050 2589 3112 2256
Haipin, J E 2491, 2492 Hamelri, Y Hamilton, E W Hamilton, R I 2494 Hamner, C L Hampton, R O	2249 2493 2072 2260 2576 2495	Hili, JH Hilier, W Hilu, HM Himelick, E8 Hindi, E Hinds, TE 2522 Hine, R8	2852 2736 2519 2702 2520 2521 2523	Janes, W Janson, 8 F 2550 Jardeny, A Jarnevic, N 8 Javorski, C A Jay Jr, E G Jedlinski, H	2208 2407 2551 3040 2402 2130 2779	Khan, M R Khera, S Kieckhefer, R J Kiesling, R L 2048, 3230 Kligemagi, U Kilpy, W J Kilpytrick, J J	2136 3077 2050 2589 3112
Haipin, J E 2491, 2492 Hamelri, Y Hamiiton, E W Hamilton, R I 2494 Hammer, C L Hampton, R O Hancock, J G	2249 2493 2072 2260 2576 2495 2495 2496	Hili, J H Hilier, W Hilu, H M Himelick, E 8 Hindi, E Hinds, T E 2522 Hine, R 8 Hinman, F G	2852 2736 2519 2702 2520 2521 2523 2963	James, W Janson, 8 F 2550 Jardeny, A Jarnevic, N 8 Jaworski, C A Jay Jr, E G Jedlinski, H Jenkins Jr, 5 F	2208 2407 2551 3040 2402 2130	Khan, M R Khera, S Kieckhefer, R J 2848, 3230 Kiigemagi, U Kilby, W J Kilpatrick, J J 3147	2136 3077 2050 2589 3112 2256 2100
Halpin, J E 2491, 2492 Hamelri, Y Hamilton, R W Hamilton, R I 2494 Hamer, C L Hampton, R O Hancock, J G Hancoc, W	2249 2493 2072 2260 2576 2495 2496 2112	Hili, J H Hilier, W Hilu, H M Himelick, E 8 Hindi, E Hinds, T E 2522 Hine, R 8 Hinman, F G Hinton, H E	2852 2736 2519 2702 2520 2521 2523 2963 2122	Janes, W Janson, 8 F 2550 Jardeny, A Jarnevic, N 8 Javorski, C A Jay Jr, E G Jedlinski, H Jenkins Jr, 5 F 2402, 2552	2208 2407 2551 3040 2402 2130 2779 2401	Khan, M R Khera, 5 Kieckhefer, R J 2048, 3230 Kiigemagi, U Kiiby, W J Kiipatrick, J J 3147 Kipatrick, R A	2136 3077 2050 2589 3112 2256 2100 2590
Haipin, J E 2491, 2492 Hamelri, Y Hamilton, E W Hamilton, R I 2494 Hammer, C L Hampton, R O Hancock, J G Hanec, W Hanks, R W	2249 2493 2072 2260 2576 2495 2496 2112 2412	Hili, J H Hilier, W Hilu, H M Himelick, E 8 Hinds, T E 2522 Hine, R 8 Hinman, F G Hinton, H E Hinto, S D	2852 2736 2519 2702 2520 2521 2523 2963 2122 3168	Janes, W Janson, 8 F 2550 Jardeny, A Jarnevic, N 8 Jaworski, C A Jay Jr, E G Jedlinski, H Jenkins Jr, 5 F 2402, 2552 Jenkins, A E	2208 2407 2551 3040 2402 2130 2779 2401 2553	Khan, M R Khera, S Kieckhefer, R J Lesting, R L 2848, 3230 Kligemagi, U Kilby, W J Silby, W J 3147 Kilpatrick, R A 2591, 2592,	2136 3077 2050 2559 3112 2256 2100 2590 2593
Halpin, J E 2491, 2492 Hamelri, Y Hamilton, E W Hamilton, R I 2494 Hamer, C L Hampton, R O Hancok, J G Hanec, W Hanks, R W Hanks, G C	2249 2493 2072 2260 2576 2495 2495 2496 2112 2412 2412 2497	Hili, J H Hilier, W Hilu, H M Himelick, E 8 Hindi, E 2522 Hine, R 8 Hinman, F G Hinton, H E Hintz, S D Hiral, T	2852 2736 2519 2702 2520 2521 2523 2963 2122 3168 2524	James, W Janson, 8 F 2550 Jarnevic, N 8 Javorski, C A Jay Jr, E G Jedlinski, H Jenking Jr, 5 F 2402, 2552 Jenkins, A E Jenkins, J N	2208 2407 2551 3040 2402 2130 2779 2401	Khan, M R Khera, 5 Kleckhefer, R J 2848, 3230 Kligemagi, U Kliby, W J Kliby, W J Klipatrick, J J 3147 Klipatrick, R A 2591, 2592, Kimble, K A	2136 3077 2050 2589 3112 2256 2100 2590
Haipin, J E 2491, 2492 Hamelri, Y Hamilton, E W Hamilton, R I 2494 Hamner, C L Hampton, R O Hancock, J G Hanec, W Hanks, R W Hanna, G C Hanna, R L	2249 2493 2072 2260 2576 2495 2496 2112 2412	Hili, J H Hilier, W Hilu, H M Himelick, E 8 Hinds, T E 2522 Hine, R 8 Hinman, F G Hinton, H E Hinton, H E Hintz, 5 D Hirtal, T Hirschmann, H	2852 2736 2519 2702 2520 2521 2523 2963 2122 3168	Janes, W Janson, 8 F 2550 Jardeny, A Jarnevic, N 8 Jadvorski, C A Jay Jr, E G Jedlinski, H Jenkins Jr, 5 F 2402, 2552 Jenkins, A E Jenkins, J N 2978	2208 2407 2551 3040 2402 2130 2779 2401 2553	Khan, M R Khera, 5 Kieckhefer, R J L2848, 3230 Kligemagi, U Klipatrick, J J 3147 Klipatrick, R A 2591, 2592, Kimbie, K A 2478, 2497	2136 3077 2050 2559 3112 2256 2100 2590 2593
Haipin, J E 2491, 2492 Hamelri, Y Hamilton, E W Hamilton, R I 2494 Hamner, C L Hampton, R O Hancock, J G Hanec, W Hanks, R W Hanna, G C Hanna, R L	2249 2493 2072 2260 2576 2495 2495 2496 2112 2412 2412 2497	Hili, J H Hilier, W Hilu, H M Himelick, E 8 Hindi, E 2522 Hine, R 8 Hinman, F G Hinton, H E Hintz, S D Hiral, T	2852 2736 2519 2520 2521 2523 2963 2122 3168 2524 3223	Janes, W Janson, 8 F 2550 Jardeny, A Jarnevic, N 8 Javorski, C A Jay Jr, E G Jedlinski, H Jenkins Jr, 5 F 2402, 2552 Jenkins, J N 2978 Jenkins, P Jenkins, W R	2208 2407 2551 3040 2402 2130 2779 2401 2553 2135	Khan, M R Khera, 5 Kieckhefer, R J L2848, 3230 Kiigemagi, U Kiiby, W J Kiipatrick, J J 3147 Kipatrick, R A 2591, 2592, Kimbie, K A 2478, 2497 Xinura, 1 Kinard, W 5	2136 3077 2050 2589 3112 2256 2100 2590 2593 2477 2524 2971
Haipin, J E 2491, 2492 Hamelri, Y Hamiiton, E W Hamiiton, R I 2494 Hamner, C L Hampton, R O Hancock, J G Hancock, J G Hancock, J G Hanks, R W Hanna, G C Hanna, G C Hanna, R L 2955, 2999 Hansen, A J Hansens, E J	2249 2493 2072 2260 2576 2495 2496 2112 2412 2412 2497 2034 3191 3138	Hili, J H Hilier, W Hilu, H M Himelick, E 8 Hinds, T E 2522 Hine, R 8 Hinman, F G Hinton, H E Hinton, H E Hintz, S D Hiral, T Hırschmann, H Hix, S M Hobbs, E L Hodges, C S	2852 2736 2519 2702 2520 2521 2523 2963 2122 3168 2524 3223 2525	Janes, W Janson, 8 F 2550 Jardeny, A Jarnevic, N 8 Jaworski, C A Jay Jr, E G Jedlinski, H Jenkins Jr, 5 F 2402, 2552 Jenkins, A E Jenkins, A E Jenkins, A N 2978 Jenkins, W R 3014, 3037	2208 2407 2551 3040 2402 2130 2779 2401 2553 2135 2309 3013	Khan, M R Khera, 5 Kieckhefer, R J Le848, 3230 Kligemagi, U Kily, W J Sily, W J Sily, W J Sily, W J Sily, 2592, Kimble, K A 2478, 2497 Kimura, 1 Kinard, W 5 King, D R	2136 3077 2050 2589 3112 2256 2100 2593 2477 2593 2477 2524 2971 2981
Halpin, J E 2491, 2492 Hamelri, Y Hamilton, E W Hamilton, R I 2494 Hamner, C L Hampton, R O Hancok, J G Hancok, J G Hancok, W Hanks, R W Hanks, R W Hanna, R L 2955, 2999 Hansen, A J Hansens, E J Hanson, C H	2249 2493 2072 2260 2495 2495 2495 2495 2412 2412 2412 2497 2034 3191 3138 2972	Hili, J H Hilier, W Hilu, H M Himelick, E 8 Hindi, E Hinds, T E 2522 Hine, R 8 Hinman, F G Hinton, H E Hintz, 5 D Hiral, T Hirschmann, H Hix, 5 M Hobbs, E L Hodges, C 5 2527	2852 2736 2519 2702 2520 2521 2963 2122 3168 2524 3223 2525 3224 2526	James, W Janson, 8 F 2550 Jardeny, A Jarnevic, N 8 Javorski, C A Jay Jr, F G Jedlinski, H Jenkins, Jr, 5 F 2402, 2552 Jenkins, J N 2978 Jenkins, W R 3014, 3037 Jenning, P R	2208 2407 2551 3040 2402 2130 2779 2401 2553 2135 2309	Khan, M R Khera, 5 Kleckhefer, R J L2848, 3230 Kligemagi, U Kliby, W J Kilpatrick, J J 3147 Kilpatrick, R A 2591, 2592, Kimble, K A 2478, 2497 Kimara, 1 Kinard, W 5 King, D R King, H L	2136 3077 2050 2589 3112 2256 2100 2593 2477 2524 2971 2981 3135
Halpin, J E 2491, 2492 Hamelri, Y Hamilton, R W Hamilton, R I 2494 Hamner, C L Hampton, R O Hancock, J G Hancock, J G Hanes, W Hanks, R W Hanna, R L 2955, 2999 Hansen, A J Hanson, C H Hanson, C H	2249 2493 2072 2260 2576 2495 2496 2112 2412 2412 2497 2034 3191 3138	Hili, J H Hilier, W Hilu, H M Himelick, E 8 Hindi, E Hinds, T E 2522 Hine, R 8 Hinman, F G Hinton, H E Hinton, H E Hinto, T Hirschmann, H Hix, 5 M Hobbs, E L Hodges, C 5 2527 Hodgeon, C J	2852 2736 2519 2702 2520 2521 2523 2963 2122 3168 2524 3223 2625 3224 2526 2525 3224 2526	Janson, 8 F 2550 Jardeny, A Jarnevic, N 8 Jayorski, C A Jay Jr, E G Jedlinski, H Jenkins, Jr, 5 F 2402, 2552 Jenkins, A E Jenkins, J N 2978 Jenkins, W R 3014, 3037 Jennings, P R 2446, 2451	2208 2407 2551 3040 2402 2130 2779 2401 2553 2135 2309 3013 2445	 Khan, M R Khera, 5 Kieckhefer, R J Kiesling, R L 2848, 3230 Klipatrick, J J 3147 Klipatrick, R A 2591, 2592, Kimbie, K A 2478, 2497 Kinara, 1 King, D R King, H L King, R C 	2136 3077 2050 2589 3112 2256 2100 2593 2477 2524 2971 2981 3135 3152
Halpin, J E 2491, 2492 Hamelri, Y Hamilton, E W Hamilton, R I 2494 Hammer, C L Hampton, R O Hancock, J G Hancock, J G Hance, W Hanks, R W Hanna, R L 2955, 2999 Hansen, A J Hanson, C H Hanson, C H Hanson, C W 3097	2249 2493 2072 2260 2576 2495 2495 2495 2412 2412 2412 2412 2497 2034 3138 2972 2352	Hili, J H Hilier, W Hilu, H M Himelick, E 8 Hindi, E 2522 Hine, R 8 Hinman, F G Hinton, H E Hintz, S D Hiral, T Hirschmann, H Hix, S M Hobba, E L Hodgeon, C J Hodgson, E	2852 2736 2519 2702 2520 2521 2963 2122 3168 2524 3223 2525 3224 2526	James, W Janson, 8 F 2550 Jardeny, A Jarnevic, N 8 Javorski, C A Jay Jr, E G Jedlinski, H Jenkins, Jr, 5 F 2402, 2552 Jenkins, J N 2978 Jenkins, W R 3014, 3037 Jennings, P R 2446, 2451 Jense, H J	2208 2407 2551 3040 2402 2130 2779 2401 2553 2135 2309 3013 2445 2669	Khan, M R Khera, 5 Kleckhefer, R J 2848, 3230 Kligemagi, U Kliby, W J Kliby, W J Klipatrick, J J 3147 Kilpatrick, R A 2591, 2592, Kimble, K A 2478, 2497 Kinura, 1 Kinard, W 5 King, D R King, H L King, R C King, T H	2136 3077 2050 2589 3112 2256 2100 2593 2477 2524 2971 2981 3135
Haipin, J E 2491, 2492 Hamelri, Y Hamilton, R W Hamilton, R I 2494 Hammer, C L Hampton, R O Hancock, J G Hancock, J G Hancock, J G Hancock, J C Hans, R W Hanks, R W Hanna, G C Hanna, R L 2955, 2999 Hansen, A J Hansens, E J Hanson, C H Hanson, F E	2249 2493 2072 2260 2576 2496 2496 2112 2412 2497 2034 3191 3138 2972 2352 2113	Hili, J H Hilier, W Hilu, H M Himelick, E 8 Hindi, E Hinds, T E 2522 Hine, R 8 Hinman, F G Hinton, H E Hintz, 5 D Hiral, T Hirschmann, H Hix, 5 M Hobbs, E L Hodges, C S 2527 Hodgson, C J Hodgson, E 2236	2852 2736 2519 2702 2521 2523 2963 2122 3168 2524 3223 2625 3224 2526 2993 2123	Janes, W Janson, 8 F 2550 Jardeny, A Jarnevic, N 8 Jay Jr, E G Jedlinski, H Jenkins Jr, 5 F 2402, 2552 Jenkins, J N 2978 Jenkins, W R 3014, 3037 Jenning, P R 2446, 2451 Jensen, H J Jensen, R E	2208 2407 2551 3040 2402 2130 2779 2401 2553 2135 2309 3013 2445 2669 2554	<pre>Khan, M R Khera, 5 Kleckhefer, R J Kleshing, R L 2048, 3230 Kligemagi, U Kliby, W J Klipatrick, J J 3147 Klipatrick, R A 2591, 2592, Kmble, K A 2478, 2497 Xinura, 1 Kinard, W 5 King, D R King, H L King, T H 2586, 2769</pre>	2136 3077 2050 2589 3112 2256 2100 2593 2477 2524 2971 2981 3135 3152 2489
Halpin, J E 2491, 2492 Hamelri, Y Hamiiton, E W Hamiiton, R I 2494 Hammer, C L Hampton, R O Hancock, J G Hance, W Hanks, R W Hanna, G C Hanna, R L 2955, 2999 Hansen, A J Hanson, C H Hanson, C H Hanson, C H Hanson, Jr., F E Hardee, D D	2249 2493 2072 2260 2576 2495 2495 2495 2412 2412 2412 2412 2497 2034 3138 2972 2352	Hili, J H Hilier, W Hilu, H M Himelick, E 8 Hindi, E Hinds, T E 2522 Hine, R 8 Hinman, F G Hinton, H E Hinton, H E Hinton, H E Hintz, S D Hiral, T Hirschmann, H Hix, 5 M Hobbs, E L Hodges, C 5 2527 Hodgson, C J Hodgson, E 2236 Hodson, A C	2852 2736 2519 2702 2520 2521 2523 2963 2122 3168 2524 3223 2525 3224 2526 3224 2526 2993 2123 2123	Janes, W Janson, & F 2550 Jardeny, A Jarnevic, N & Jadvorski, C A Jay Jr, E G Jedlinski, H Jenkins Jr, 5 F 2402, 2552 Jenkins, A E Jenkins, N R 2978 Jenkins, W R 3014, 3037 Jennings, P R 2446, 2451 Jensen, H J Jensen, R E Jeppson, L R	2208 2407 2551 3040 2402 2130 2779 2401 2553 2135 2309 3013 2445 2669 2554 3145	 Khan, M R Khera, 5 Kieckhefer, R J Kiesling, R L 2848, 3230 Klipatrick, J J 3147 Klipatrick, R A 2591, 2592, Kimbie, K A 2478, 2497 King, D R King, H L King, T H 2586, 2769 	2136 3077 2050 2589 3112 2256 2100 2593 2477 2524 2971 2981 3135 3152
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Halpin, JE 2491, 2492 Hamelri, Y Hamilton, R W Hamilton, R I 2494 Hamner, C L Hampton, R O Hancock, J G Hanec, W Hanks, R W Hanks, R W Hanks, R C Hana, R L 2955, 2999 Hansen, A J Hanson, C H Hanson, C H Hanson, Jr., F E Hardee, D D 3111, 3159 Harding, P R	2249 2493 2072 2260 2576 2495 2495 2495 2412 2412 2412 2497 2034 3191 3138 2972 2352 2113 2975 3268	Hili, J H Hilier, W Hilu, H M Himelick, E 8 Hindi, E Hinds, T E 2522 Hine, R 8 Hinman, F G Hinton, H E Hinton, H E Hintz, 5 D Hiral, T Hirschmann, H Hix, 5 M Hobbs, E L Hodges, C 5 2527 Hodgson, C J Hodgson, C J Hodgson, E 2236 Hodson, A C Hoff, J K Hoffman, J A	2852 2736 2519 2702 2520 2521 2523 2963 2122 3168 2524 3223 2525 3224 2526 3224 2526 2993 2123 2123	Janson, 8 F 2550 Jardeny, 8 F 2550 Jardeny, A Jarnevic, N 8 Jay Jr, E G Jedlinski, H Jenkins, Jr, 5 F 2402, 2552 Jenkins, A E Jenkins, A 2978 Jenkins, W R 3014, 3037 Jennings, P R 2446, 2451 Jensen, H J Jensen, R E Jeppson, L R Jerath, M L 3074	2208 2407 2551 3040 2402 2130 2779 2401 2553 2135 2309 3013 2445 2669 2554 3145 3073	 Khan, M R Khera, 5 Kieckhefer, R J Kiesling, R L 2848, 3230 Klipatrick, J J 3147 Klipatrick, R A 2591, 2592, Kimbie, K A 2478, 2497 Kinara, 1 King, R C King, T H 2506, 2769 Kinman, M L 2776 Kirman, M L 2776 Kirman, M L 2776 Kirman, M L 2776 Kirman, M L 2776 	2136 3077 2050 2589 3112 2256 2100 2593 2477 2524 2971 2981 3135 3155 2489 2376 2534
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Haipin, J E 2491, 2492 Hamelri, Y Hamilton, R W Hamilton, R I 2494 Hampton, R O Hancock, J G Hancock, J G Hancock, J G Hancock, J G Hancock, J G Hancock, J G Hancock, J G Hanson, R U 2955, 2999 Hansen, A J Hanson, C H Hanson, C H Hanson, C H Hanson, C H Hanson, Jr., F E Hardee, D D 3111, 3159 Harding, P R Harein, P K Harjung, M K	2249 2493 2072 2260 2576 2496 2412 2497 2034 3191 3138 2972 2352 2113 2975 3268 2498 3268 2498 3266 2916	Hili, J H Hilier, W Hilu, H M Himelick, E 8 Hindi, E Hinds, T E 2522 Hine, R 8 Hinman, F G Hinton, H E Hintz, 5 D Hiral, T Hirschmann, H Hix, 5 M Hodges, C 5 2527 Hodgeon, C J Hodgeon, C J Hodgon, E 2236 Hodson, A C Hoffman, J A 3225 Hoffman, R A Holcomb, G E Hodgeon, G L	2852 2736 2519 2702 2521 2523 2953 2122 3168 3223 2524 3223 2525 3224 2526 2993 2123 2993 2123 2993 2123 2967 3038 2528 3081 2849 2819	Janes, W Janson, & F 2550 Jardeny, A Jarnevic, N & Javorski, C A Jay Jr, F G Jedlinski, H Jenkins, Jr, S F 2402, 2552 Jenkins, A E Jenkins, J N 2978 Jenkins, P Jenkins, W R 3014, 3037 Jenning, P R 2446, 2451 Jensen, H J Jensen, R E Jepson, L R Jensen, M L 3074 Jenst, M L 3074 Jenser, M J Jenser, M J Jordy, J 5 Joffe, A Z	2208 2407 2551 3040 2402 2130 2779 2401 2553 2135 2309 3013 2445 2669 2554 3145 3073 3292 3145 2555 2555	 Khan, M R Khera, 5 Kleckhefer, R J Kiesling, R L 2848, 3230 Kiligemagi, U Kilby, W J Kilpatrick, J J 3147 Kilpatrick, R A 2591, 2592, Kimble, K A 2478, 2497 Xinura, 1 King, D R King, T L 2586, 2769 Kinman, M L 2776 Kirkpatrick, H C Kirkpatrick, H D 3071, 3075 Kishi, K Kiebesadei, L J 	2136 3077 2050 2589 3112 2256 2100 2593 2477 2524 2971 2981 3135 3152 2489 2376 2594 2595 2896 2595
Haipin, J E 2491, 2492 Hamelri, Y Hamiiton, E W Hamiiton, R I 2494 Hammer, C L Hampton, R O Hancock, J G Hance, W Hanks, R W Hanna, G C Hanna, G C Hansen, A J Hansen, A J Hansen, E J Hanson, C H Hanson, C H Hanson, Jr., F E Hardee, D D 3111, 3159 Hare, W W 2499 Harein, P K Harjung, M K Harly, J M B	2249 2493 2072 2260 2576 2495 2495 2495 2495 2412 2412 2412 2497 2034 3191 3138 2972 2352 2113 2975 3268 2498 3266 2916 2908	Hili, J H Hilier, W Hilu, H M Himelick, E 8 Hindi, E E Z522 Hine, R 8 Hinman, F G Hinton, H E Hintz, S D Hiral, T Hirschmann, H Hix, S M Hobbs, E L Hodges, C S 2527 Hodgson, E 2236 Hodgson, C J Hodgson, C S257 Hodgson, C Hodfen, J K Hoffman, J A S225 Hoffman, R A Holcomb, G E Hodleman, Q L	2852 2736 2519 2702 2521 2523 2963 2122 3168 2524 3223 2525 3224 2526 2993 2123 2997 3038 2528 3081 2849 2819 3123	Janes, W Janson, & F 2550 Jardeny, A Jarnevic, N & Jayorski, C A Jay Jr, E G Jedlinski, H Jenkins, Jr, 5 F 2402, 2552 Jenkins, A E Jenkins, N R 2078 Jenkins, W R 3014, 3037 Jennings, P R 2446, 2451 Jensen, H J Jensen, R E Jeppson, L R Jerath, M L 3074 Jernigan, C E Jesser, M J Jhooty, J 5 Joffe, A Z John, V T	2208 2407 2551 3040 2402 2130 2779 2401 2553 2135 2309 3013 2445 2669 2554 3145 3073 3292 3145 2555 2954 2556	<pre>Khan, M R Khera, 5 Kieckhefer, R J Kiesling, R L 2848, 3230 Kiigemagi, U Kilby, W J Kilpatrick, J J 3147 Kilpatrick, R A 2591, 2592, Kimbie, K A 2478, 2497 Kinura, 1 Kinard, W 5 King, H L King, R C King, T H 2586, 2769 Kinman, M L 2776 Kirkpatrick, H C Kirkpatrick, H C Kirkpatrick, J D 3071, 3075 Kishi, K Kiebesadei, L J Kieh, H H</pre>	2136 3077 2090 2589 3112 2256 2100 2590 2593 2477 2524 2971 2981 3135 3152 2489 2376 2595 2866 2037 2596
Haipin, J E 2491, 2492 Hamelri, Y Hamilton, E W Hamilton, R I 2494 Hamner, C L Hampton, R O Hancock, J G Hanco, W Hanks, R W Hanks, R W Hanna, R L 2955, 2999 Hansen, A J Hanson, C H Hanson, C H Hanson, J F., F E Hardee, D D 3111, 3159 Harding, P R Hare, W 2499 Harein, P K Harley, J M 8 Harmon, D L	2249 2493 2072 2260 2576 2495 2496 2112 2412 2497 2034 3191 3138 2972 2352 2113 2975 3268 2498 3266 2916 2008 3233	Hili, J H Hilier, W Hilu, H M Himelick, E 8 Hindi, E Hinds, T E 2522 Hine, R 8 Hinman, F G Hinton, H E Hintz, 5 D Hiral, T Hirschmann, H Hix, 5 M Hobs, E L Hodges, C 5 2527 Hodgson, C J Hodgson, C J Hodgson, C J Hodgson, A C Hoff, J K Hoffman, J A 3225 Hoffman, R A Holcomb, G E Holdeman, Q L Holley, R W	2852 2736 2519 2520 2521 2523 2623 2963 2122 3168 2524 3223 2625 3224 2526 2993 2123 2993 2123 2967 3038 2528 3081 2849 2819 3123 3039	Janes, W Janson, & F 2550 Jardeny, A Jarnevic, N & Jay Jr, E G Jedlinski, H Jenkins, Jr, 5 F 2402, 2552 Jenkins, J N 2978 Jenkins, W R 3014, 3037 Jenning, P R 2446, 2451 Jensen, H J Jensen, R E Jeppson, L R Jersiga, C E Jesser, M J Jensing, J S Joffe, A Z John, V T Johnson, E M	2208 2407 2551 3040 2402 2130 2779 2401 2553 2135 2309 3013 2445 2669 2554 3145 3073 3292 3145 2555 2555	<pre>Khan, M R Khan, M R Khera, 5 Kleckhefer, R J Klesling, R L 2848, 3230 Kligemagi, U Kliby, W J Kilpatrick, J J 3147 Kilpatrick, R A 2591, 2592, Kimble, K A 2478, 2497 Kimura, 1 Kinard, W 5 King, D R King, H L King, R C King, H L 2776 Kinkpatrick, H C Kirkpatrick, H C Kirkpatrick, H D 3071, 3075 Kishi, K Kiebesadei, L J Kiein, H H Kiein, M</pre>	2136 3077 2050 2589 3112 2256 2100 2593 2477 2524 2971 2981 3135 3152 2489 2376 2534 2595 2866 2037 2596 2596 2596 2596
Halpin, JE 2491, 2492 Hamelri, Y Hamilton, R W Hamilton, R I 2494 Hampton, R O Hancock, J G Hancock, J G Hansen, R U 2955, 2999 Hansen, A J Hanson, C H Hanson, C H Hanson, C H Hanson, F E Hardee, D D 3097 Hanson, Jr., F E Hardee, D D 3111, 3159 Harding, P R Hare, W W 2499 Harein, P K Harley, J M 8 Harmon, D L Harnden, A A	2249 2493 2072 2260 2576 2496 2496 2412 2412 2412 2412 2412 2412 2437 2034 3138 2975 3252 2113 2975 3268 2498 3266 2916 2008 3233 2148	Hili, J H Hilier, W Hilu, H M Himelick, E 8 Hindi, E Hinds, T E 2522 Hine, R 8 Hinman, F G Hinton, H E Hinton, H E Hintz, 5 D Hiral, T Hirschmann, H Hix, 5 M Lodges, C 5 2527 Hodgson, C J Hodgson, C J Hodgson, C J Hodgson, C J Hodgson, A C Hoff, J K Hoffman, R A Holcomb, G E Hoffman, R A Holcomb, G E Hofdeman, Q L Hotley, R W Hollis, J P Holmes, F W	2852 2736 2519 2702 2521 2523 2963 2122 3168 2524 3223 2525 3224 2526 2993 2123 2993 2123 2967 3038 2528 3081 2849 2819 3123 3039 2529	Janes, W Janson, & F 2550 Jardeny, A Jarnevic, N & Jayorski, C A Jay Jr, E G Jedlinski, H Jenkins, Jr, 5 F 2402, 2552 Jenkins, J N 2978 Jenkins, W R 3014, 3037 Jennings, P R 2446, 2451 Jensen, H J Jensen, R E Jeppson, L R Jerpson, L R Jernigan, C E Jesser, M J Jhooty, J 5 Joffe, A Z Johnson, E M 2558	2208 2407 2551 3040 2402 2130 2779 2401 2553 2135 2309 3013 2445 2669 2554 3145 3073 3292 3145 2555 2954 2556 2556 2557	<pre>khan, M R Khera, 5 Kieckhefer, R J Kiesling, R L 2048, 3230 Kiigemagi, U Kilby, W J Kilpatrick, J J 3147 Kilpatrick, R A 2591, 2592, Kimbie, K A 2478, 2497 Xinura, 1 Kinard, W 5 King, D R King, H L King, R C King, T H 2586, 2769 Kinman, M L 2776 Kirkpatrick, H C Kirkpatrick, J D 3071, 3075 Kishi, K Kiebn, H H Kiein, H H Kiein, M Kiement, Z</pre>	2136 3077 2050 2589 3112 2256 2100 2593 2477 2593 2477 2981 3135 3152 2489 2376 2594 2595 2866 2037 2596 2596 2596 2596 2597
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Haipin, J E 2491, 2492 Hamelri, Y Hamilton, R W Hamilton, R I 2494 Hamer, C L Hampton, R O Hancock, J G Hancock, J G Hancock, J G Hancock, J G Hancock, J G Hans, R W Hanks, R W Hanks, R W Hanson, G C Hanson, C H Hanson, C H Hanson, C H Hanson, C H Hanson, F E Hardee, D D 3111, 3159 Harding, P R Harein, P K Harjung, M K Harley, J M 8 Harley, J M 8 Harden, A A Hargaz, I 2500	2249 2493 2072 2260 2576 2496 2496 2112 2412 2497 2034 3191 3138 2972 2352 2113 2975 3268 2498 3268 2498 3266 2916 2008 3233 2148 2060	Hili, J H Hilier, W Hilu, H M Himelick, E 8 Hindi, E Hinds, T E 2522 Hine, R 8 Hinman, F G Hinton, H E Hintz, 5 D Hiral, T Hirschmann, H Hix, 5 M Hobbs, E L Hodges, C 5 2527 Hodgson, C J Hodgson, C J Hodgson, C J Hoffman, J A 3225 Hoffman, R A Holcomb, G E Hofley, R W Holley, R W Holley, R W Holmes, F W Holmes, F W	2852 2736 2519 2702 2521 2523 2963 2122 3168 2524 3223 2525 3224 2526 2993 2123 2993 2123 2967 3038 2528 3081 2849 2819 3123 3039 2529	Janes, W Janson, & F 2550 Jardeny, A Jarnevic, N & Jayorski, C A Jay Jr, E G Jedlinski, H Jenkins, Jr, 5 F 2402, 2552 Jenkins, J N 2978 Jenkins, W R 3014, 3037 Jennings, P R 2446, 2451 Jensen, H J Jensen, R E Jeppson, L R Jeratin, M L 3074 Jernigan, C E Jesser, M J Jhooty, J 5 Joffe, A Z Johnson, E M 2558 Johnson, H G Johnson, H G	2208 2407 2551 3040 2402 2130 2779 2401 2553 2135 2309 3013 2445 2669 2554 3145 3073 3292 3145 2555 2555 2954 2556 2557 2416 2559	<pre>Khan, M R Khera, 5 Kleckhefer, R J Klechhefer, R J L 2848, 3230 Kligemagi, U Kliby, W J Klipatrick, J J 3147 Klipatrick, R A 2591, 2592, Kimble, K A 2478, 2497 Kimura, 1 Kinard, W 5 King, D R King, H L King, R C King, H L King, R C King, T H 2586, 2769 Kirkpatrick, H C Kirkpatrick, J D 3071, 3075 Kishi, K Klebesadei, L J Klein, H H Klein, M Klement, Z Kline, D M Klinger, A</pre>	2136 3077 2050 2589 3112 2256 2100 2593 2477 2524 2971 2981 3135 4152 2489 2376 2594 2595 2896 2037 2595 2896 2037 2595 2896 2597 2709 2598
Haipin, J E 2491, 2492 Hamelri, Y Hamilton, E W Hamilton, R I 2494 Hammer, C L Hampton, R O Hancock, J G Hancock, J G Hanco, W Hanks, R W Hanks, R W Hansen, R L 2955, 2999 Hansen, A J Hasson, C H Hanson, Jr., F E Hardee, D D 3111, 3159 Harding, P R Hare, W W 2499 Harein, P K Harjung, M K Harmon, D L Harmon, D L Harmen, A A Harpaz, I 2500	2249 2493 2072 2260 2576 2495 2496 2112 2412 2412 2497 2034 3191 3138 2972 2352 2113 2975 3268 2498 3266 2916 2916 2008 3233 2148 2060 2648	Hili, J H Hilier, W Hilu, H M Himelick, E 8 Hindi, E Z522 Hine, R 8 Hinman, F G Hinton, H E Hintz, S D Hiral, T Hirschmann, H Hix, S M Hobbs, E L Hodges, C S 2527 Hodgson, E 2236 Hodgson, C J Hodgson, A C Hoff, J K Hoffman, J A 3225 Hoffman, R A Holcomb, G E Hoideman, Q L Hoideman, Q L Hoideman, C S 2530, 2531	2852 2736 2519 2702 2520 2521 2523 2963 2122 3168 2524 3223 2525 3224 2526 2993 2123 2967 3038 2528 3081 2849 2819 3123 3039 2528	James, W Janson, & F 2550 Jardeny, A Jarnevic, N & Jay Jr, E G Jedlinski, H Jenkins, Jr, 5 F 2402, 2552 Jenkins, A E Jenkins, J N 2978 Jenkins, W 3014, 3037 Jennings, P R 2446, 2451 Jensen, H J Jensen, R E Jepson, L R Jerath, M L 3074 Jernigan, C E Jesser, M J Jhoaty, J 5 Joffe, A Z Johnson, E M 2550 Johnson, H G Johnson, H G	2208 2407 2551 3040 2402 2130 2779 2401 2553 2135 2309 3013 2445 2669 2554 3145 3073 3292 3145 2555 2954 2555 2954 2556 2557 2416	<pre>Khan, M R Khan, M R Khera, 5 Kleckhefer, R J Kleisling, R L 2848, 3230 Kligemagi, U Kliby, W J Klipy, W J Klipatrick, J M 3147 Kilpatrick, R A 2591, 2592, Kimble, K A 2478, 2497 Kinura, 1 Kinard, W 5 King, D R King, H L King, R C King, T H 25866, 2769 Kinwan, M L 2776 Kirkpatrick, H C Kirkpatrick, H C Kirkpatrick, H C Kirkpatrick, H C Kikebesadei, L J Kiein, H H Kiein, M Kiemat, Z Kiing, M Kiingner, A Kiisgner, A Kissika, M</pre>	2136 3077 2050 2599 3112 2256 2100 2593 2477 2524 2971 2981 3135 3155 2489 2376 2595 2489 2376 2595 2666 2037 2596 2596 2596 2597 2596 2597 2596 2597 2598
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Haipin, J E 2491, 2492 Hamelri, Y Hamilton, R W Hamilton, R I 2494 Hamer, C L Hampton, R O Hancock, J G Hancock, J G Hancock, J G Hancock, J G Hancock, J G Hanson, R U 2955, 2999 Hansen, A J Hanson, C H Hanson, C H Hanson, C H Hanson, C H Hanson, J C, F E Hardee, D D 3111, 3159 Harding, P R Harein, P K Harjung, M K Harley, J M 8 Harley, J M 8 Harnea, I 2500 Harrell, D C Harris, C R Harris, H 8 Harrisn, J O	2249 2493 2072 2260 2576 2496 2496 2496 2412 2497 2034 3191 3138 2972 2352 2113 2975 3268 2498 3268 2498 3266 2916 2008 3233 2148 2060 2648 3139 3140 2640 2609	Hili, J H Hilier, W Hilu, H M Himelick, E 8 Hindi, E Hinds, T E 2522 Hine, R 8 Hinman, F G Hinton, H E Hintz, 5 D Hiral, T Hirschmann, H Hix, 5 M Hobbs, E L Hodges, C 5 2527 Hodgson, C J Hodgson, C J Hodgson, E 2236 Hoffman, A C Hoffman, J A 3225 Hoffman, R A Holcomb, G E Holdeman, Q L Holley, R W Holley, R W Holley, R W Holley, R S Hofforas, N D Holton, C 5 2530, 2531 Honderas. Hooker, A L 2532, 2533, Hopkins, A R	2852 2736 2519 2702 2521 2523 2963 2122 3168 2524 3223 2524 2525 2993 2123 2993 2123 2993 2123 2967 3038 2528 3081 2849 2819 3123 3039 2529 2032 2528 2032 2528 2032 2528	Janes, W Janson, & F 2550 Jardeny, A Jarnevic, N & Jayorski, C A Jay Jr, E G Jedlinski, H Jenkins, Jr, 5 F 2402, 2552 Jenkins, A E Jenkins, V R 3014, 3037 Jennings, P R 2466, 2451 Jensen, H J Jensen, R E Jeppson, L R Jeratin, M L 3074 Jernigan, C E Jesser, M J Jhooty, J 5 Joffe, A Z Johnson, E M 2560, 2561, 2664 Johnson, H Ø Johnson, J Ø Johnson, L 8 Johnson, N E	2208 2407 2551 3040 2402 2130 2779 2401 2553 2135 2309 3013 2445 2669 2554 3145 2669 2554 3145 2555 2954 2556 2557 2416 2559 2562 2189 2563 2979	 Khan, M R Khera, 5 Kleckhefer, R J Kleckhefer, R J Kleckhefer, R J Kleckhefer, R J Klipy, W J Klipy, W J Klipatrick, J J 3147 Klipterick, R A 2591, 2592, Kimble, K A 2478, 2497 Kimura, 1 Kinard, W 5 King, D R King, T H 2586, 2769 Kirkpatrick, H C Xirkpatrick, H C Xirkpatrick, H C Kirkpatrick, J D 3071, 3075 Kishi, K Kiehesadei, L J Kiehe, D M Kiine, D M Kiine, D M Kiine, L J Kiehesadei, L J Kiehes, J M Kiewicz, J M Kiotz, L J 2601 Knaus, J F 	2136 3077 2050 2589 3112 2256 2100 2593 2477 2524 2971 2981 3135 3152 2489 2376 2594 2595 2866 2037 2595 2896 2597 2595 2896 2597 2599 2600 3143 2602
Haipin, J E 2491, 2492 Hamelri, Y Hamilton, E W Hamilton, R I 2494 Hammer, C L Hampton, R O Hancock, J G Hanco, W Hanks, R W Hanks, R W Hanna, R L 2955, 2999 Hansen, A J Hanson, C H Hanson, C H Hanson, C H Hanson, Jr., F E Hardee, D D 3111, 3159 Harding, P R Hare, W 2499 Harein, P K Harley, J M 8 Harmon, D L Harnden, A A Harpaz, I 2500 Harris, C R Harris, H 8 Harrison, J O Harrison, J O Harrison, J O Harrison, M D	2249 2493 2072 2260 2576 2495 2496 2112 2412 2412 2497 2034 3191 3138 2972 2352 2113 2975 3268 2498 3266 2916 2008 3233 2148 2060 2608 3139 3140 2640 2009 2501	Hili, J H Hilier, W Hilu, H M Himelick, E 8 Hindi, E 2522 Hine, R 8 Hinman, F G Hinton, H E Hinton, H E Hint, T Hirschmann, H Hit, S D Hiral, T Hirschmann, H Hix, S M Hobbs, E L Hodges, C 5 2527 Hodgson, C J Hodgson, E 2236 Hoffson, A C Hoff, J K Hoffman, J A 3225 Hoffman, R A Holcomb, G E Hoideman, Q L Hoides, F W Hollis, J P Hoimes, F W Holines, N D Hoiton, C 5 2530, 2531 Honduras. Hooker, A L 2532, 2533, Hopkins, A R Hopkins, T L	2852 2736 2519 2702 2520 2521 2523 2963 2122 3168 2524 3223 2525 3224 2526 2993 2123 2993 2123 2993 2123 2967 3038 2528 3081 2849 2819 3123 3039 2528 2032 2528 2794 2519 2534 2534 2534 2534 2534 2534 2534 2534	James, W Janson, & F 2550 Jardeny, A Jarnevic, N & Jay Jr, E G Jedlinski, H Jenkins, Jr, 5 F 2402, 2552 Jenkins, A E Jenkins, J N 2978 Jenkins, W 3014, 3037 Jenning, P R 2446, 2451 Jensen, H J Jensen, R E Jepson, L R Jernigan, C E Jesser, M J Johnson, E M 2558 Johnson, H G Johnson, H G Johnson, H G Johnson, J O Johnson, L & Johnson, L & Johnson, L & Johnson, C O	2208 2407 2551 3040 2402 2130 2779 2401 2553 2135 2309 3013 2445 2669 2554 3145 3073 3292 3145 2555 2555 2555 2555 2556 2557 2416 2559 2562 2189 2563	<pre>khan, M R Khan, M R Khera, 5 Kleckhefer, R J Kiesling, R L 2848, 3230 Kiigemagi, U Kilby, W J Kilpatrick, J M 3147 Kilpatrick, R A 2591, 2592, Kimble, K A 2478, 2497 Kinura, 1 Kinard, W 5 King, D R King, H L King, R C King, T H 25866, 2769 Kinman, M L 2776 Kirkpatrick, H C Kirkpatrick, H C Kirkpatrick, J D 3071, 3075 Kishi, K Kiebesadei, L J Kien, H Kiein, M Kiement, Z Kiingen, A Kistz, L J Kingen, F W Knauss, J F Knutson, H Kanon, H Kinan, H</pre>	2136 3077 2050 2599 3112 2256 2100 2593 2477 2524 2991 3135 3135 3155 2499 2376 2594 2595 2499 2376 2594 2595 2866 2037 2596 2596 2596 2596 2596 2596 2596 2596
Haipin, JE 2491, 2492 Hamelri, Y Hamilton, R I 2494 Hamner, C L Hampton, R O Hancock, J G Hancock, J G Hancock, J G Hancock, J G Hancock, J G Hancock, J G Hanson, R L 2955, 2999 Hansen, A J Hansen, A J Hansen, C H Hanson, C H Hanson, C H Hanson, C H Hanson, C H Hanson, F E Hardee, D D 3111, 3159 Harding, P R Hare, W 2499 Harein, P K Harley, J M 8 Harnden, A A Harpaz, I 2500 Harrell, D C Harris, H 8 Harrison, J D Harrison, J D Harrison, J D Harrison, J D Harrison, M D Harshorger, J C	2249 2493 2072 2260 2576 2496 2496 2496 2412 2497 2034 3191 3138 2972 2352 2113 2975 3268 2498 3268 2498 3266 2916 2008 3233 2148 2060 2648 3139 3140 2640 2609	Hili, J H Hilier, W Hilu, H M Himelick, E 8 Hindi, E Hinds, T E 2522 Hine, R 8 Hinman, F G Hinton, H E Hintz, 5 D Hiral, T Hirschmann, H Hiz, 5 M Hobs, E L Hodges, C 5 2527 Hodgson, C J Hodgson, C J Hodgson, C J Hodgson, C A 2236 Hoffman, A C Hoffman, A C Hoffman, R A Holcomb, G E Hoideman, Q L Hoiley, R W Hoimes, F W Hoimes, F W Hoimes, F W Hoimes, R D Hoiton, C 5 2532, 2533, Hopkins, A R Hopkins, A R	2852 2736 2519 2702 2521 2523 2963 2122 3168 2524 3223 2524 2525 2993 2123 2993 2123 2993 2123 2967 3038 2528 3081 2849 2819 3123 3039 2529 2032 2528 2032 2528 2032 2528	James, W Janson, & F 2550 Jardeny, A Jarnevic, N & Jay Jr, E G Jedlinski, H Jenkins, Jr, 5 F 2402, 2552 Jenkins, A E Jenkins, J N 2978 Jenkins, W R 3014, 3037 Jenning, P R 2446, 2451 Jensen, H J Jensen, R E Jeppson, L R Jernigan, C E Jesser, M J Jhooty, J 5 Joffe, A Z Johnson, E M 2558 Johnson, H G Johnson, H G Johnson, H G Johnson, J O Johnson, L B Johnson, N E Johnson, N E	2208 2407 2551 3040 2402 2130 2779 2401 2553 2135 2309 3013 2445 2669 2554 2555 2954 2555 2954 2555 2954 2556 2557 2416 2559 2562 2189 2563 2979 2326	<pre>Khan, M R Khan, M R Khera, 5 Kleckhefer, R J Klesling, R L 2848, 3230 Kligemagi, U Kliby, W J Kilpatrick, J J 3147 Kilpatrick, R A 2591, 2592, Kimble, K A 2478, 2497 Kinura, 1 Kinard, W 5 King, D R King, H L King, R C King, H L King, R C King, T H 2586, 2769 Kirkpatrick, H C Kirkpatrick, H C Kirkpatrick, H C Kirkpatrick, J D 3071, 3075 Kishi, K Kiebesadei, L J Kiehn, M Kiement, Z Kiine, D M Kiingner, A Kiisiewicz, J M Kiotz, L J 2601 Knapp, F W Knauss, J F Knutson, H Koehler, C 5</pre>	2136 3077 2050 2589 3112 2256 2100 2593 2477 2524 2971 2981 3135 3152 2489 2376 2594 2595 2866 2037 2595 2896 2597 2595 2896 2597 2599 2600 3143 2602
Haipin, JE 2491, 2492 Hamelri, Y Hamilton, E W Hamilton, R U 2494 Hammer, C L Hampton, R O Hancock, J G Hance, W Hanks, R W Hanks, R W Hansen, R L 2955, 2999 Hansen, A J Hanson, C H Hanson, C H Hanson, C H Hanson, Jr., F E Hardee, D D 3111, 3159 Hardee, D D 3111, 3159 Hardee, D W 2499 Harein, P K Harjung, M K Harly, J M 8 Harmon, D L Harnden, A A Harpaz, I 2500 Harris, C R Harris, C R Harris, C R Harris, C R Harris, J O Harshbarger, J C 2115	2249 2493 2072 2260 2576 2495 2496 2112 2412 2412 2497 2034 3191 3138 2972 2352 2113 2975 3268 2498 3266 2916 2916 2916 2916 2008 3233 2148 2060 2648 3139 3140 2640 2009 2501 2114	Hili, J H Hilier, W Hilu, H Himelick, E 8 Hindi, E Z522 Hine, R 8 Hinman, F G Hinton, H E Hinton, H Hinton, H Holos, C Z236 Hodgson, E Z236 Hodgson, E Z236 Hodgson, C J Hodgson, C Z236 Hodf, J Hoffman, A Hoffman, A Hoffman, A Hoffman, C Hoffman, C Hoffman, C Hoffman, S Homes, N Holomes, N Holomes, N Holomes, A Hopkins, A Hopkins, A Hopkins, A Hopkins, T Hoppe, P E Z535	2852 2736 2519 2702 2520 2521 2523 2963 2122 3168 2524 3223 2525 3224 2526 2993 2123 2967 3038 2528 3081 2849 2819 3123 3039 2528 2032 2528 2794 2534 25519 2534 22528	James, W Janson, & F 2550 Jardeny, A Jarnevic, N & Jay Jr, E G Jedinski, H Jenkins, Jr, 5 F 2402, 2552 Jenkins, A E Jenkins, J N 2978 Jenkins, W R 3014, 3037 Jennings, P R 2446, 2451 Jensen, H J Jensen, R E Jepson, L R Jerath, M L 3074 Jernigan, C E Jesser, M J Johnson, R M 2558 Johnson, H G Johnson, H G Johnson, J O Johnson, L 8 Johnson, C O 2564 Johnson, T H	2208 2407 2551 3040 2402 2130 2779 2401 2553 2135 2309 3013 2445 2669 2554 3145 3073 3292 3145 2555 2954 2556 2557 2416 2559 2562 2189 2563 2979 2326 2868	Khan, M R Khan, M R Khera, 5 Kleckhefer, R J 2848, 3230 Kligemagi, U Kliby, W J Kilpatrick, J W 3147 Kilpatrick, R A 2591, 2592, Kimble, K A 2478, 2497 King, K C King, H L King, H L King, R C King, H L 2776 Kirkpatrick, H C Kirkpatrick, J D 3071, 3075 Kishi, K Kiebesadei, L J Kiein, H Kiein, H Kiein, H Kiein, H Kiein, H Kiein, H Kiein, H Kiein, H Kiein, H Kiein, J Sofol Knapp, F W Knauss, J F Knutson, H Koehier, C 5 2982	2136 3077 2050 2599 3112 2256 2100 2593 2477 2524 2971 2981 3135 3135 3135 2489 2376 2594 2595 2489 2376 2596 2596 2596 2596 2596 2596 2597 2596 2597 2598 2599 2599 2600 3143 26143 2016
Haipin, JE 2491, 2492 Hamelri, Y Hamilton, R I 2494 Hamner, C L Hampton, R O Hancock, J G Hancock, J G Hancock, J G Hancock, J G Hancock, J G Hancock, J G Hanson, R L 2955, 2999 Hansen, A J Hansen, A J Hansen, C H Hanson, C H Hanson, C H Hanson, C H Hanson, C H Hanson, F E Hardee, D D 3111, 3159 Harding, P R Hare, W 2499 Harein, P K Harley, J M 8 Harnden, A A Harpaz, I 2500 Harrell, D C Harris, H 8 Harrison, J D Harrison, J D Harrison, J D Harrison, J D Harrison, M D Harshorger, J C	2249 2493 2072 2260 2576 2495 2496 2112 2412 2497 2034 3191 3138 2972 2352 2113 2975 3268 2498 3266 2916 2008 3233 2148 2060 2608 3139 3140 2640 2009 2501	Hili, J H Hilier, W Hilu, H M Himelick, E 8 Hindi, E Hinds, T E 2522 Hine, R 8 Hinman, F G Hinton, H E Hintz, 5 D Hiral, T Hirschmann, H Hiz, 5 M Hobs, E L Hodges, C 5 2527 Hodgson, C J Hodgson, C J Hodgson, C J Hodgson, C A 2236 Hoffman, A C Hoffman, A C Hoffman, R A Holcomb, G E Hoideman, Q L Hoiley, R W Hoimes, F W Hoimes, F W Hoimes, F W Hoimes, R D Hoiton, C 5 2532, 2533, Hopkins, A R Hopkins, A R	2852 2736 2519 2702 2520 2521 2523 2963 2122 3168 2524 3223 2525 3224 2526 2993 2123 2993 2123 2993 2123 2967 3038 2528 3081 2849 2819 3123 3039 2528 2032 2528 2794 2519 2534 2534 2534 2534 2534 2534 2534 2534	James, W Janson, & F 2550 Jardeny, A Jarnevic, N & Jay Jr, E G Jedlinski, H Jenkins, Jr, 5 F 2402, 2552 Jenkins, A E Jenkins, J N 2978 Jenkins, W R 3014, 3037 Jenning, P R 2446, 2451 Jensen, H J Jensen, R E Jeppson, L R Jernigan, C E Jesser, M J Jhooty, J 5 Joffe, A Z Johnson, E M 2558 Johnson, H G Johnson, H G Johnson, H G Johnson, J O Johnson, L B Johnson, N E Johnson, N E	2208 2407 2551 3040 2402 2130 2779 2401 2553 2135 2309 3013 2445 2669 2554 2555 2954 2555 2954 2555 2954 2556 2557 2416 2559 2562 2189 2563 2979 2326	<pre>Khan, M R Khan, M R Khera, 5 Kleckhefer, R J Klesling, R L 2848, 3230 Kligemagi, U Kliby, W J Kilpatrick, J J 3147 Kilpatrick, R A 2591, 2592, Kimble, K A 2478, 2497 Kinura, 1 Kinard, W 5 King, D R King, H L King, R C King, H L King, R C King, T H 2586, 2769 Kirkpatrick, H C Kirkpatrick, H C Kirkpatrick, H C Kirkpatrick, J D 3071, 3075 Kishi, K Kiebesadei, L J Kiehn, M Kiement, Z Kiine, D M Kiingner, A Kiisiewicz, J M Kiotz, L J 2601 Knapp, F W Knauss, J F Knutson, H Koehler, C 5</pre>	2136 3077 2050 2599 3112 2256 2100 2593 2477 2524 2991 3135 3135 3155 2499 2376 2594 2595 2499 2376 2594 2595 2866 2037 2596 2596 2596 2596 2596 2596 2596 2596

Konsler, T R

Konsler, T R						
Konsier, T R	2855	Lovrckovich, L	2597	McVey, D V	2662	Musford, D L
Kosuge, T	2857	Lownsbery, 8 F	3043	Meade, A 8	2019	Murakishi, H H
Kottke, H D	3232	Lowry, V L	2997	Medier, J T	2000	2695
Kozeinicky, G M	2603	2998, 3177	2636	Mediey, J G	3082	Murakishi, H M
Kramer, C L 2930	2604	Lucas, G 8 Luckmann, W H	2636 2151	Mehrotra, K N Meinwald, J	2157 2070	Murashige, T
Kreasky, J 8	2137	2984	2.0.	Melville, D R	3142	Murdock, L L Murphy, H C
Kreltlow, K W	2605	Luepschen, N S	2637	Menzer, R E	3115	2938
2606		2638		Mcredlth, D 5	3236	Murray, E L
Kruil, C F	2451	Lueschow, W C	2486	Merrili, W	2663	Muse, D P
Kuhlman, E G	2607	Lukens, R J	2639	Metcalf, R L	2158	Muse, R R
Kuhn, C W	2608	Luttrell, E 5	2640	Meyer, H M	2660	Muth, O H
2609, 2610 Kullk, M.M	2611	Lyda, 5 D	2724 3291	Michel, L J	2826	Muthappa, 8 N
3275	2011	Lyon, H MacGowan, J B	3264	Mlddlekauff, W W Mlelke, J L	3152 2905	Naegele, J A Nagdy, G A
Kunisaki, J	2697	Machado, W	3142	Milbrath, J A	2395	Nair, KS3
Kurtz, E 8	2612	Mackensen, O	2152	2664, 2665		Nakadalra, J T
LaBrecque, G C	2105	Madison, J H	2641	Miles, PW	2159	Nakahara, M
2165		Madsen, H F	2103	Mllholland, R D	2286	Nakakihara, H
Lackey, C F	2613	2226, 3004	2400	Miller, A C	2153	Nakanishi, K
Lagerspetz, K	2138 2614	Magle, A R 2935	2490	Miller, D R	2666	Nakazawa,
Laird Jr, E F Lambe, R C	2615	Mahadevan, A	3234	Mllier, H N Miller, J D	3047 2667	Natour, R M Nault, L R
Lambremont, E N	2017	Mahdy, 4 T	2699	Miller, J W	2160	Navaratnam, S J
2139		Mal, Ŵ F	2572	Miller, P M	2243	2729
Lamey, H A	2616	3038		Miller, P R	2668	Nayar, J K
2617, 2618,	2983	Maler, C R	2642	Miller, P W	2669	Nayudu, M V
Lane, C L	2259	2643, 2644,	3114	2670, 2671,	2672	Neal Jr, J W
Langdon, K R 3041	2619	Majorana, G Majurdan, S.K	2645 2107	M111er, V L 2464	2462	Neal, A L
Langley, 8 C	2284	Majumder, S K Malaguti, G	2646	Milier, Wm E	3237	Neeley, D 2702
3007, 3078	2204	Malca, I	2647	Millikan, D F	2482	Neilson, W T A
Langlois, 8 E	3113	Mailis, A	2153	2673, 2674		Nelson, D 5
Larsen, J R	2140	Malo, 5	3276	Minton, É 8	30 48	Neison, E E
Lassmann K, D	3063	Maitals, J 8	2154	Minton, N A	3049	Neison, G A
Lathan, A J	3252	Mangiltz, G R	2018	Minz, G	3017	2706
Lauffer, C H	2285 2141	Mankau, R	3044 3134	Mircetich, 5 M	2675	Nelson, M R
Laurence, 8 R Lavigne, R J	2990	Mansour, N Manwiller, A	2985	Mistric Jr, ∀ J 2988, 3153	2987	Nelson, O A Nelson, P E
Laviolette, F A	2302	Manzer, F E	3261	Mitchell, C J	2020	2864
Leach, J G	2620	Marlconl, F A M	3150	2161		Nelson, R R
3042		Marsh, P 8	2648	Mitcheil, E 8	2134	2801
Leader, J P	2142	2649		Mitchell, J T	30 4 3	Neunzig, H H
Lebeau, J 8	2621	Marshali Jr, H V	2030	Mltcheli, R	2676	2030
Leben, C	2622 2023	Martin, J A	2776 2901	Mittenlin, N	2162	Nevo, D
Legner, E F Leigh, T F	3148	Martin, J P Martin, W J	2901	Mitterling, L A Moffitt, H R	2677 2021	Newhall, A G 2711
Leininger, L N	2952	3045	2300	Mohamed, H A	2678	Newson, L D
Lemmlen, W A	2858	Martinez, A P	2248	2679		2093, 2285,
Lenartowicz, E	2143	2650		Mohammed, J	3051	Newton, R C
2144		Martinson, C	2289	Monro, A	2070	2466
Leone, I	2377	Marzke, F O	2155	Monroe, R L	2573	Nichols, L P
Leong, C K Leppik, E E	2700 2623	Mason, H C Mathur, R S	2012 2651	Monsellse, S P 2680	2551	Nicholson, H P
2624, 2625	2023	2652	2031	Montgillion, M D	2829	Nickeil, L G Nickie, W R
Levenbook, L	2145	Matthysse, J G	3136	3242	2025	Nielsen, L W
Levinson, Z H	2146	3151		Mooney, J W	3259	2714, 2715
Lewis, W A	2256	Mattson, V J	3139	Moore Jr, R F	2163	Niemierko, 5
Llbman, G	3042	Maxwell, F G	2135	3154		2144
Lightle, P C	2626	2978	2147	Moore, B P	2164	Nigh Jr, E
2882 Lim, W C	2476	Mayer, M 5 McAilan, J W	2147 2170	Moore, J N 2902	2681	Nilmura, M Nitzany, F E
Limburg, A M	2063	McCarter, S M	2491	Moore, M 8	2291	Norman, C
Lindberg, G D	2285	McClain, L A	2653	Moorhouse, J E	2118	Norris Jr, D M
2627		McCiure, T T	2830	Morehart, A L	2375	Norris, D M
Lindgren, D L	3244	McCombs, C L	2654	Moreira, S	2467	Nour-Eldin, F
Lindner, R C	2594	McCormick, W J	3141	2682, 2683,	2796	2719
Lindquist, D A 3128	2147	McCrum, R C McDonald, S	2655 2032	Morelio, A Morgan, F L	2043 2562	Nour, M A Novak, V J A
Lindquist, O H	2148	2986	2032	2684	2362	Nusbaum, C J
Linn, M 8	3252	McDonald, W C	2656	Morgan, O D	3050	Nyquist, W E
Lipscomb, H A	2628	McFadden, L A	2657	Morgan, P B	2165	Oatman, E R
Liska, J	3113	McGinnls, A J	2132	Mori L.	2166	2040
Litton, C C	2558	3277		Moriera, S	2780	Oberholzer, P C J
Littrell, R H	2567	McGovern, W L	2012	Morrison, R H	2685	Obrero, F C
2629	2501	2120 McGulne J M	3046	Morton, D J 2402 2686	2401 2687	Ochme, F W
Llvingston, C H Lockshin, R A	2149	McGulre, J M McIntosh, D L	2658	2402, 2686, 2688, 2941	2007	Ogawa, J M 2725
Lockwood, J L	3101	McKeen, W E	3226	2000, 2941 Mosch, W H M	2903	Ogura, K
Loegering, W Q	3233	McKibben, G	2134	Moseman, J G	2689	Orlob, G 8
Lofgren, C S	2150	McKinney, H E	2870	2690		2727
3149		3072		Mostert, G C	3113	Orr, C W
Long, W H	3141	McKlnney, H H	3233	Motsinger, R E	3050	Orr, C W M
Lopez, A A	2265	McKinnon, 8 A	2898	Mousques, R P	2892	Ortman, E E
Lorbeer, J W Loring, L 8	2496 2630	McLean, D M 2660, 2661	2659	Mueller, W C Mukalyama, F	2691 2167	Ortuno, C Osgood Jr, E A
Loring, L 8 Lortle, M	2630	McLeod, D G R	2156	Mukherji, S K	2692	Oshima, N
Lott, T 8	2632	McMiiilan, W W	2616	Mulla, M 5	3155	Ostazeski, 5 A
2633, 2634		McOnle, K C	3235	3156, 3157		Otelfa, 8 A
Lourdes de la Isla,	2440	McPhail, M	3278	Muller, A 5	2693	3054, 3055,
PAGE						

AUTHOR INDEX

Spurr Jr, H W

							Spurr Jr, H
3057		Powning, R F	2178	Rosen, D	1994	Self, L S	2236
Ou, S H	2729	Prescott, H W	2028	Rosetti, V	2785	Selman, 8 J	2194
2775	24.60	Pridham, T G	2829	Ross, A F	3201	Semenluk, G	270 S
Owen, JH 2730, 2731,	24S0 27S2	Pringle, R 8 Prins, G	2801 3167	Ross, J P Rossettl, V	3059	Sen Gupta, P K	2382
Paden, J W	2915	Prokopy, R J	2029	Rotem, J	2786 2787	Sequelra, L 3229	3103
Pady, S M	2326	Protaclo, D 8	3279	Roth, J N	2788	Shaflee, F A	3054
Pal, H S	2732	Provvídentl, R	2811	Roth, L F	2630	Shalla, T A	2914
Palmer, J S	3161	Pruess, K P	2179	Roth, L M	2190	Shands, R G	2815
Paltl, J 2733, 2734,	2493 2954	Pujol, A R 27S7	2299	Rothman, P G 2560, 2789	2559	Shanks Jr, C H	3286
Pant, R	2174	Purcifull, D E	2338	2S60, 2789 Rothschild, M	2175	Shatla, M N 2817, 2818	2816
Papasolomontos, A	273S	Purdy, L H	2758	Rubin, H L	2653	Shaw, F R	3118
Pappells, A J	2244	2759, 3231		2790, 2791		Shaw, P D	3214
Parencla Jr, C R	2024	Quebral, F C	2369	Rubio, R	2347	Shepherd, R J	2819
Parker, 8 L Parker, J	2091 2241	Quintela, R D Raabe, R D	2892 2760	Rudzisz, 8 Rule, H D	2144 2104	2820, 2821	3066
Parker, M 8	3162	2761	2700	Ruppel, E G	2792	Sher, S A Sherman, M	3172
Parrot, W L	2978	Rabb, R L	2030	Ruppel, R F	3169	Sherrod, L L	3287
Parsons, J	217S	2180, 2720		3182		Sherwood, R T	3288
Parsons, J E	2298	Race, S R	2992	Rusden, PL	2793	Shigo, A L	2822
Partridge, A D Paskin, M W J	2S70 2118	Radeleff, R D Raffray, J 8	3116 2762	Russell, T S 2463	2461	Shlh, M Shoemaker, R A	2862 2813
Pass, 8 C	3163	Ragab, M M	2763	Russeli, W A	2\$34	Showers, W 8	2983
3164		Raghunath, T	2764	Salama, A	3133	Shurtleff, M C	2369
Pass, H	306S	Rajagopal, P K	2181	317S		2823	
Patel, K P	2390	Rakshpal, R	2182	Salas, A	240S	Sllber, G	3289
Patel, P N Patll, S S	2487 3239	Ralph, C L Ramsey, G 8	2183 2942	279S Salibe, A A	2467	Silbernagel, M J Siliezar, G R	2824 226 7
Patric, J H	3100	Randall, D D	2090	2683, 2785,	2796	S111 Jr, W H	2041
Patt, J	2736	Ranlere, L C	2765	2797, 2798		Silier, L R	2539
Patterson, F L	2800	Ratcliffe, T J	2686	Salisbury, P J	3060	Sllllbourne, J M	3110
Patton, R F Pavgl, M S	2384	Raun, E S Rawlins, T E	2186	Salpeter, M M	2228	3137	0000
Pawlowskl, S H	2828 2737	Rawson, J W	2766 3126	2229 Samson, R ₩	2473	Silverborg, S B Simons, M D	282S 2826
Payne, D W	2097	Ray, J W	2184	2799	2410	Simpson, M E	2648
2176		Rebois, R V	3027	Sanchez, F F	3172	Sinclair, J 8	2408
Peck, O	202S	3028		Sanchez, L O	3280	2409, 2762,	
Pence, R J Boole H S	3165	Reddy, G S	2767	Sancheznavarrete, F	2426	2817, 2818,	
Pepln, H S Pepper, E H	2738 2245	Redfern, R E Reeves, W C	218S 2210	Sando, W J Sasser, J N	2754 3008	318S, 3216, Singh, S R	3241 2195
Perez, J E	2739	Refatti, E	2814	3061	0000	Singh, U P	2828
Perry, V G	3047	Reichert, I	2768	Saunders, D S	2191	Sinha, R C	2923
Persons, T D	228S	Reiling, T P	2769	Savage, D C	3268	Sisler, H D	3232
Perttunen, V	2138	Reinert, R A	2558	Sbur, D E	3093	Skelly, J M	2940
Petersen, D H 2741	2740	Reinhart, J H Reinking, O A	3117 2770	Scales, A L Scarameili, N	2147 2043	Slama, K 2196, 2197	2171
Peterson, A G	2019	Resconich, E C	2944	Schaefers, G A	3170	Slaramuzzl, G	264S
Peterson, C A	2742	Revelo, M A	2186	Schafer, J F	2563	Sleeth, 8	2661
Peterson, G A	2687	Reyes, T T	2771	2800		Smale, 8 C	2829
Peterson, G W	2743	Reynolds, J E	2664	Scharen, A L	2324	3242	2100
2943 Peterson, J L	2744	Rhoades, H L Rhodes, A M	3102 2772	3090 Schechter, M S	3281	Smlth Jr, V K Smlth Jr, W L	3122 2830
2745, 2746	2	2984	2772	Scheffer, R P	2801	3091	2000
Peterson, R C	3080	Rhykerd, C L	2466	Schelber, E	3062	Smith, A	3173
Pfadt, R E	2990	Rich, A E	2346	Schenck, N C	2802	Smith, A L	3048
3166	2026	2593	2022	3282	2246	Smith, D S	2032
Pfrimmer, T R Phillipe, M R	2026 2871	Rlch, A R Rich, S	2S37 2773	Schieber, E 2803, 2804,	2246 3063	Smlth, F F 2977	2120
Philips, D J	2289	3250	2110	3064	0000	Smlth, H A	230S
Pickard, L S	2035	Richardson, C D	2217	Schindler, A F	3283	Smlth, K M	2944
Pielou, D P	2027	2218		Schlegel, D E	2944	Smlth, L R	2247
Pierce, A R Bioneen C F	3077	Richardson, L T	2774	Schlehuber, A M	3065	Smlth, M A	2942
Pierson, C F Pimentel, D	3089 2199	Riker, A J 3107	2849	Schmld, F Schmldt, C H	1999 2084	Smlth, M S Smith, R E	3243 2831
Pinckard, J A	3012	Riley Jr, J A	2911	2192	2004	2832, 2833,	2854
Pine, T S	2747	Rivera, C T	2729	Schmldt, R A	241S	2835, 2836	
2748, 2749		2775		3284		Smith, T A	3254
Pires, E G	3249	Rivers, G W	2776	Schnathorst, W C	280S	Smlth, T E	2837
Pirone, T P Pitts, C W	242S 3083	Roane, C W Roberts, A N	2777 3240	2806 Schneider, C L	2807	2838, 2839, Smoot, J J	2840 2841
Plapp Jr, F W	2177	Roberts, R H	3081	Schneider, D	2193	Smythe, R V	2046
Plapp, F W	2189	Robinson, A G	2031	Schnelder, I R	2808	Snow, G A	2842
Podger, F D	2750	Robinson, G G	2187	Schneiderman, H A	2061	3098	0.000
Pokorny, F A Polen, P 8	30S8 3116	Rochow, W F 2779	2778	Schoeneweiss, D F Schoof, H F	2809 3147	Snow, J W Snyder, G	2033 3215
Pond, D D	2991	Rodriguez, A E	2440	School, H r Schrader, R M	2017	Sobers, E K	2843
Pontis-Videla, R E	2598	Rodriguez, O	2780	Schread, J C	3171	Sobers, Ek	2248
Pool, M C	2218	Rodriguez, R A	2781	Schrelber, L R	2810	Soo Hoo, C F	3290
Pope, D T	2714	Roeder, K D	2188	Schroeder, W T	2811	Sorenson, E L	2976
Pound, G S Powell, D	2929 2330	Roessing, C 2786, 2798	2682	Schroth, M N 2812, 3222	2515	Soria, J Sosa, O N	2559 3062
2751	2000	Rogers, J D	2301	Schwartz Jr, P H	328S	Soto, C A	2844
Powell, W L	3125	2782		Schwartz, R	2296	Sowell Jr, G	2608
Powell, W M	2731	Rogoff, W M	2189	Scott, D H	2681	Spiegler, P E	2198
2752, 3058	2722	3168 Berraha B B	2702	2902	2074	Spink, W T	228 S
Powelson, R L 3239	2753	Romanko, R R Romero C., M	2783 2 7 84	Scott, H A 2918	2574	Sprague, R 2846, 2847	2845
Powers Jr, H R	2239	Roncadorl, R W	2842	Seaman, W L	2813	Spurr Jr, H W	2848
2754, 2755,	2756	Rose, D J W	2993	Sed, S T	2963	2849	

Sreams, F A Sreams, F A Srlvastava, P N Stadeiman, W J Staley, J M 3291 Stall, R E Stambaugh, W J 2415 Starkweather, R J Steguid Jr, W A Steguee, D 2204 Steib, R J

Steib, R J

Sternburg, J Stessel, G J 3067

Stevenson, A 8 Stewart, D M 2852 Stourst

Stewart, J L 2853

Stewart, K W Stipes, R J Stoner, W N

Strong, F C Strong, F E Strong, M C

Strong, M C Strong, R G 3244 Struble, F 8 Stuckey, I H 2861

Sudia, T W Suit, R F Sullivan, W N 2212.

Suzuki, N

Swailes, G E Swartwout, H G 2566

Sweet, R C Swihart, S L

Taft, H M 2208,

Talens, A Tammen, J

Tahdri, A S Tahori, A S

Tammen, J 2864, Tanaka, S Tappan, W 8 Tarjan, A C 3060

Tauber, M Taylor, Jack Taylor, W K Taylorson, R 8 Teakle, D S Teasley, J I Teiich C., J Tempelis, C H Templeton, G E

Templeton, G E Terahara, A Terriere, L C

Terzian, L A Tew, R P

Thames Jr, W H 3078 Thatcher, R C Thayer, D W Thayer, P L Theaker, T L Thomas, C A 3247

Tew, R P 3137

Tachibana, H

3154.

2212, 3281 Summer, D R Sundman, J A Suttie J W

Stoner, W N Strandtmann, R W Streieckl, R F Strider, D L Stringer, C E 3149 Strobel, G A 2857 Strobel, F C

Thomason, I J 3070, 3071, Thompson, A E Thompson, G E Thompson, H E 2930 Thompson, J P 2276, 2277, Thompson, L S Thompson, L S Thornberry, H H Thornton, 8 C Thorpe, D R Thorston, H D Thurston, H D Thurston, R Thyr, 8 D Tlcknor, R L Ticknor, R L Till, 8 8 Timlan, R G 2873, Timmer, L W Tims, E C Tinline, R D Tippins, H H Toba, H H Toba, H A Toler, R W 2878, Tonks, 4 V Toole, E H Toole, E H Toole, E R 2880, 2,994 2855 2859 2880, Toppozada, A 2881, Townsley Jr, W Townsley Jr, W Traylor, J A Treece, R E Tremalne, J H Treshow, M Triantaphyllou, A C Triane, E J 2887, 2888 Troutman, J L Z998, 2998, Tsao, P H 2891, Tsue, K M Tuccl, J C Tuccl, J C Tucker, J S Tuite, J Turner Jr, E C Turner, P D 2895, 2896 Tyler, L J 2897 2863 Tyner, L E Ui, T Ulistrup, A J Unny, K L 3074 Upadhyay, J Usherwood, P N R Vaartaja, O Vaileau, W D van Asperen, K 2085 van der 2wet, T Van Doren, A Van Gundy, S D 2868 2901, 3070, 3075 van Kammen-Wertheim, Van Peit, H M van Regenmortel, M H VanDenburgh, R Vanderzant, E S 2217, Varney, E H 3248 Vaughan, E K Veia, A C Venekamp, J H Vickers, D H Viegas, A P

Vogel, O A Volcani, 2 Volcani, 2 von Standen, D F A Waddle, 8 A Waddle, 8 M Wagener, W W Wagner, R F Wagnon, H K Waigenbach, D D Waigenbach, D D Walker Jr, J K 3249 Walker, E K Walker, J C 2909, 3 Waiker, J K Walker, J K Walker, J K Wallen, V R Wallen, V R Wallin, J R Wallin, D I Walters, H J Walton, G S Walton, G S Waiton, R R Wang, C M Wann, E V Ware, G W Warid, W A Washburn, R H Watanabe, T Waterhouse, D F 2223 Waterhouse, D 2223 Waters, N D Waters, W E 3224 Watson, A Watson, D R W Watson, J A L 2225 Watson, R D Watson, R D Watson, R D Watson, R D Watson, R L 3084 Weathers, L G Webb, R E 2318 22.22 Webb, R E 2918 Weber, D J Weber, D J Weldhaas, D E Welis, D G Weiis, H D 2728, 2920, Wester, R E Wester, R E Weseler, H Wheeler, H Wheeler, W H Whisnant, F F Whitaker, T W 2317 Whitcomb. R F Whitcomb, R F White, K E Whitten, J M Wicker, E F Wiebel, F J Wigglesworth, V 8 Wigglesworth, V 8 2229 Wigglesworth, V 8 2229 Wilcoxson, R D 3296 Wilkes, T J Wilkinson, R C Williams, A S Williams, C M Williams, F J Williams, H E 2906 Williams, L E 3226, 3274 Williams, P H 2929 Willis, Wm G Willis, W H 2931, 2932 Wilcoxson, R D 20.06 2931, Wiloxson, R D Wilson, C L Wilson, E E Wilson, J D 3104, 3104, Wilson, L F 2230

Wiison, M C	3169
Wlison, N 2231	5074
Wlison, R A 2580	2579
Wiison, V E 2938	2937
Wingo, C W	1996
Winstead, E E	2921
Vinstead, N N 2552. 2654	2511
Winton, M Y	2158
2628	2259
Wolf, F A	2939
Woifenbarger, D A	3181
Wolfenbarger, 0 O	3002
Wong, T T Y	3004
Wood Jr, E A Wood, F A	2195
Wood, F A	26€3
2940, 3284,	3296
Worf, G L	3011
Worley, R E	2941
Worthington III, j T	3091
Wressell, H 8	3003 2222
Wright, n	
Wright, w a	2942 2472
Wright, M Wright, W R Wycoff, H 8 Wysong, D S	2943
Yanada, S	2866
Yamada, S Yamoto, R	2232
Yarwood, C E	2431
2453, 2944,	2945
Yassin, A M	2946
Yasuhiro, H	2167
Yeomans, A H	2012
Young Jr. H C	2564
2997. 3091.	3065
Young, P A Young, R A Young, R E	2948
Young, R A	3239
Young, R E	2480
rounis, H	2733
Yun, Y M	3182
Zaiger, D	2949
Zaiasky, H	2950
Zeid, M	3134
Zeidler, G	2863
Zentmyer, G A	2246
2444, 2675, 2949, 3250	2750
2949, 5250 2erkei, R S	3095
	2233
	3118
2iener, ¥ H 2inmer, D E	2807
2951, 2952	2007
2scheile Jr, F P	2647
Zuckerman, 8 M	3077
3251	
Zummo, N	2953

Hilson M.C.

AUTHOR INDEX

2036

2345

2719

3264 2257

PAGE 164

Thomas, C E Thomas, H E

Thomasine, S M

	(JRGANE
A. And M. College Of Texas, College Station		
Dept. Of Plant Sciences		3007
Agotecnica del Valle, Mexicaii, B. C., Mexico Agricultural Experiment Station, Gainesville, Fl	a.	2716 3047
Agricultural Experiment Station, Rio Piedras, Pu	erto Rico	
Dept. Of Plant Pathology And Botany		2739
Agriculturai Research Council, Slough, England Biochemistry Dept.		
Pest Information Laboratory		2184
Agricultural Research Institute, Nicosia, Cyprus Agricultural Research Station, Belt Dagan-Rehovo		2 7 3S
Agricultural Research Station, Beit Dagan-Rehovo	t, Israel	0.717
Division Of Plant Pathology Agricultural Research Station, Umudike-Umuahia,	Nigeria	2717
3074		
Agricultural University, Wageningen, Netherlands		
Entomological Laboratory		2056
Agricultural University, Wageningen, Netherlands Laboratory For Entomology		2203
Laboratory For Entomology Agricultural University, Wageningen, The Netherl	ands	
Laboratory For Entomology		2204
Alaska Agricultural Experiment Station, Palmer American Cocoa Research Institute, Washington, D	c	2037 2545
American Cyanimid Co., Princeton, N. J.	• ••	2040
Agricultural Center		3096
Anti-locust Research Centre, London		2118
Auburn University Agricultural Experiment Station		
Agricultural Experiment Station Chilton Area Horticultural Substation		2393
Auburn University		
Agricultural Experiment Station		0.001
Dept. Of Zoology-entomology Auburn University Agricultural Experiment Statio	o. Ala.	2964
Dept. Of Zoology-entomology	119 ALG.	3126
Auburn University, Ala. Auburn University, Ala.		3210
Auburn University, Ala.		
Agricultural Experiment Station Dept. Of Botany And Plant Pathology		24B1
Auburn University, Ala.		2401
Agricultural Experiment Station		
Zoology-entomology Dept.		3109
Auburn University, Ala. Botany And Plant Pathology Dept.		2394
Botany And Plant Pathology Dept. Auburn University, Auburn, Ala.		2007
Agricultural Experiment Station		
Dept. Of Zoology-entomology Auburn University, Auburn, Ala.		3121
Agricultural Experiment Station		
Zoology-entomology Dept.		3269
Banaras Hindu University, India		
College Of Agriculture Bartlett Tree Research Laboratory, N. Stamford,	Conn.	2828
2793		
Blological Laboratories, Poona, India		
Maharashtra Association For The Cultivation Of Dept. Of Mycology And Plant Pathology	Science	2075
Bishop Museum, Honolulu, Hawaii 2020	2039	2S75 2161
2231		
Bright Tobacco Disease Research Station, Chatham	, Va.	
2932 Brunel College, London, England		
Dept. Of Biology		3272
C. D. A. Research Station, Winnepeg, Manitoba		2421
C. S. 1. R. D., Canberra, Australia	2164	
Division Of Entomology C.S.L.B.G., canberra, A.C.T., australia	2164	2223
C.S.l.R.D., canberra, A.C.T., australia Division Of Entomology	2055	217B
C.S.l.R.O., Canberra, Australia Division Of Entomology		
Division Of Entomology	2109	3290
C.S.I.R.O., Canberra, Australia. Division Of Entomology		2222
Cairo University		
College Of Agriculture		2763
Cairo University, U. A. R. Faculty Of Agriculture		
racuity of Agriculture		
Plant Protection Dept.	30SS	3057
Plant Protection Dept. Cairo University, United Arab Republic	30SS	3057
Cairo University, United Arab Republic Faculty Of Agriculture	30SS	
Cairo University, United Arab Republic Faculty Of Agriculture Plant Protection Department	30SS	3057 3056
Cairo University, United Arab Republic Faculty Of Agriculture Plant Protection Department Cairo University, United Arab Republic	3055	
Cairo University, United Arab Republic Faculty Of Agriculture Plant Protection Department Cairo University, United Arab Republic Faculty Of Agriculture Plant Protection Dept.		30S6 30S4
Cairo University, United Arab Republic Faculty Of Agriculture Plant Protection Department Cairo University, United Arab Republic Faculty Of Agriculture Plant Protection Dept. California Agricultural Experiment Station, Berk		3056
Cairo University, United Arab Republic Faculty Of Agriculture Plant Protection Department Cairo University, United Arab Republic Faculty Of Agriculture Plant Protection Dept. California Agricultural Experiment Station, Berk. 2433		30S6 30S4
Cairo University, United Arab Republic Faculty Of Agriculture Plant Protection Department Cairo University, United Arab Republic Faculty Of Agriculture Plant Protection Dept. California Agricultural Experiment Station, Berk 2433 California Dept. Of Agriculture, Sacramento Bureau Of Plant Pathology		30S6 30S4
Cairo University, United Arab Republic Faculty Of Agriculture Plant Protection Department Cairo University, United Arab Republic Faculty Of Agriculture Plant Protection Dept. California Agricultural Experiment Station, Berk 2433 Callfornia Dept. Of Agriculture, Sacramento Bureau Of Plant Pathology California State Dept. Of Public Health, Fresno	eley	30S6 30S4 2432 3009
Cairo University, United Arab Republic Faculty Of Agriculture Plant Protection Department Cairo University, United Arab Republic Faculty Of Agriculture Plant Protection Dept. California Agricultural Experiment Station, Berk. 2433 California Dept. Of Agriculture, Sacramento Bureau Of Plant Pathology California State Dept. Of Public Health, Fresno Bureau Of Vector Control	eley	30S6 30S4 2432 3009 32S4
Cairo University, United Arab Republic Faculty Of Agriculture Plant Protection Department Cairo University, United Arab Republic Faculty Of Agriculture Plant Protection Dept. California Agricultural Experiment Station, Berk 2433 California Dept. Of Agriculture, Sacramento Bureau Of Plant Pathology California State Dept. Of Public Health, Fresno Bureau Of Vector Control California State Polytechnic College, Pomona	eley 2906	30S6 30S4 2432 3009 32S4 26BS
Cairo University, United Arab Republic Faculty Of Agriculture Plant Protection Department Cairo University, United Arab Republic Faculty Of Agriculture Plant Protection Dept. California Agricultural Experiment Station, Berk. 2433 California Dept. Of Agriculture, Sacramento Bureau Of Plant Pathology California State Dept. Of Public Health, Fresno Bureau Of Vector Control	eley 2906	30S6 30S4 2432 3009 32S4 26BS

I (DNAL INDEX	
	Canada Agricultural Research Station, Lethbridge, Albert	0
	Entomology And Chemistry Section	3.77
	Canada Agricuiture Research Station, Lethbridge, Alberta 2032 2132	
	Canada Agriculture Research Station, Lethbridge, Alberta Plant Pathology Section	2021
	Canada Agriculture Research Station, Lethbridge, Alberta	
	Plant Pathology Section	
	Cereal Breeding Section Canada Agriculture, Summerland, B. C.	2737
	Research Station 2633 2634	2658
	Canada Agriculture, Summerland, British Columbia Research Station	2632
	Canada Department Of Agriculture, Ottawa, Canada	
	Entomology Research Institule Canada Dept. Of Agriculture	1999 3097
	Canada Dept. Of Agriculture Canada Dept. Of Agriculture	
	Plant Research Institute Canada Dept. Of Agriculture	2910
	Research Branch	
	Experimental Farm Canada Dept. Of Agriculture	2706
	Research Branch	
	Research Station Canada Dept Of Agriculture Research Slation	273B
	Canada Dept. Of Agriculture Research Slation University Sub Post Office, Saskatchewan	2355
	University Sub Post Office, Saskatchewan Canada Dept. Of Agriculture, Belleville, Ontario Entomology Research Institute For Biological Control	
	223S	
	Canada Dept. Of Agriculture, Belleville, Ontario	
	Research Institute Research Branch	2124
	Canada Dept. Of Agriculture, Chatham, Ontario	
	Entomology Laboratory 2156 3003 Canada Dept. Of Agriculture, Chatham, Ontario	3140
	Research Branch	2050
	Entomology Laboratory Canada Dept. Of Agriculture, Frederiction, New Brunswick	2959
	Research Branch	
	Research Station Canada Dept. Of Agriculture, Fredericton, New Brunswick	2991
	Research Station	2170
	Entomology And Plant Pathology Canada Dept. Of Agriculture, London, Ontario	2170
	Research Branch	077/
	Pesticide Research Institute Canada Dept. Of Agriculture, Ottawa	2774
	Entomology Research Institute	2014
	Canada Dept. Of Agriculture, Ottawa Plant Research Institute	2813
	Canada Dept. Of Agriculture, Sttawa	0.26.2
	Research Branch Canada Dept. Of Agriculture, Ottawa	2363
	Research Branch	2020
	Entomology Research Institute 2010 2011 Canada Dept. Of Agriculture, Ottawa	2025
	Research Station Canada Dept. Of Agriculture, Ottawa, Canada	2353
	Entomology Research Institute 2015 2027	2077
	Canada Dept. Of Agriculture, Prince Edward Island	2333
	Research Laboratory Canada Dept. Of Agriculture, Quebec	2333
	Research Station	2966
	Canada Dept. Of Agriculture, Saanichton, British Columbi 3060	u.
	Canada Dept. Of Agriculture, Saint-Jean, Quebec	
	Research Branch Research Laboratory	22.00
	Canada Dept. Of Agriculture, St. Jean, Quebec Research Branch	
	Research Laboratory	2154
	Canada Dept. Of Agriculture, Vineland Station, Ontario 2092	
	Canada Dept. Of Agriculture, Vineland Station, Ontario	
	Research Branch Research Laboratory 2321	2884
	Canada Dept. Of Agriculture, Vineland Station, Ontario	
	Research Station Carleton University, Ottawa, Canada 2543	2994 2544
	Central Experiment Station, Centeno, Trinidad, West Indi	
	2007	23B1
	Central Food Technological Research Inst., Mysore, India	
	Division Of Infestation Control And Pesticides	2107
	Centro de Investigaciones Agronomicas, Maracay, Venezuel 2646	a
	Chemagro Corp., Kansas City, Mo. Research Dept.	
	Field Research Section	3040
	Clemson Agricultural College, S C	3105
		PAGE

	0110711122
Clemson College, Clemson, S. C. Clemson University, Clemson, S. C. Clemson University, S. C. Clemson University, S. C.	2249 2111 2629
Clemson University, S. C. Dept. Of Sotany And Bacterlology 2278 Coastal Plain Experiment Station, Ga. Coastal Plain Experiment Station, Tifton, Ga.	2279 2941 2688
Colombian Ministry Of Agriculture, Palmira 2445 Colorado State University, Fort Collins Colorado State University, Fort Collins	2446 2289
Dept. Of Sotany And Plant Pathology 2391 2525 3186	2501
Colorado State University, Grand Junction Columbian Agric. Prog. Rockefeller Foundation, 80gota 2451	2638
Commonwealth Institute Of Entomology 2002 2961 Compania Sananera De Costa Rica, Palmer	2973
Palmer Research Station Connecticut Agricultural Experiment Station, New Have	2009 n
2773 Connecticut Agricultural Experiment Station, New Have Dept. Of Plant Pathology And Botany	n 2243
Cornell University Dept. Of Piant Pathology	2293
Cornell University Dept. Of Plant Pathology	
Ornamentals Research Laboratory Cornell University, Ithaca, N. Y. 2005 2029 2349 2572 2897 3111 Cornell University, Ithaca, N. Y.	2708 2318
Dept. Of Agronomy Laboratory Of Soll Microbiology	2676
Cornell University, Ithaca, N. Y. Dept. Of Chemistry And Dept. Of Entomology	2070
Cornell University, Ithaca, N. Y. Dept. Of Entomology 2131 2199	2234
2975 3136 3151 3159	2254
Cornell University, Ithaca, N. Y. Dept. Of Plant Pathology 2305 2506 Cornell University, Ithaca, New York	2710
Dept. Of Plant Pathology 2351 Cornell University, N Y	3038 2051 2307
Crops Research Division, Tempe, Arizona Czechoslovac Academy Of Sciences, Praha	
Entomological Institute Czechoslovak Academy Of Sciences, Prague Entomological Dept.	2171 2197
Czechoslovak Academy Of Sciences, Prague Entomological Institute	
Dept. Of Insect Physiology Delaware Agricultural Experiment Station, Newark Dept. Of Plant Pathology 2374	2196 2925
Delta Branch Experiment Station, Stoneville, Miss. Dept. Of Forestry Of Canada, Sault Ste. Marle, Ontario	2684 o
Forest Research Laboratory Dept. Of Veterlnary Services And Tsetse Control, Zamb	2148 la
2187 Direccion General de Investigaciones Agronomicas, El :	Salv.
Entomology Dept. Division Of Agriculture, Kuala Lumpur, States Of Mala 2700	2267 ya
Downing Street, Cambridge Zoology Laboratory	2087
Duke University, Durham E. R. Squibb And Sons, New Brunswick, New Jersey	2939
Division Of Olin Mathleson Chemical Corp. East African Institute Of Malaria, Amani, Tanya, Tanza	3117 anla
2006 East African Trypanosomiasis Res. Organ., Tororo, Uga 2008	
Egyptian Agricultural Organization, Calro, U. A. R. Bahtim Experiment Station 2678	2679
Ein Shams University, Cairo, United Arab Republic Faculty Of Agriculture	
Dept. Df 8otany Escueda Agricola Panamericana, Honduras	2263 2693
Experimental Farm, Charlottetown, Prince Edward Island 2036	
Experimental Farm, Saanichton, 8ritish Columbia Facuity Of Agriculture, Shambat, Khartoum, Sudan	2214 2946
Florida Agricultural Experiment Station Florida Agricultural Experiment Station, Galnesville	2851 3295
Florida Agricultural Experiment Station, Gainesville Dept. Of Plant Pathology	2435
Florida Agricultural Experiment Stations, Leesburg	
Watermelon And Grape Investigations Laboratory Florida Citrus Experiment Station, Lake Alfred	2802 2237
3068 Florida Dept. Of Agriculture	3064
Division Of Plant Industry PAGE 166	3264
EAVE 100	

Florida Dept. Of Agriculture, Gainesville Division Of Plant Industry	2843
Florida Dept. Of Agriculture, Winter Haven	2329
Florida State Dept. Of Agriculture, Galnesville	2248
Florida State Dept. Of Agriculture, Galnesville Division Of Plant Industry	2650
Forest Department, Kikuyu, Kenya	2452
Forest Insect Lab., Saulte Ste. Marle, Ontarlo, Canada	
2106	0050
Forest Pathology Laboratory, Saskatoon, Saskatchewan Forest Research Institute, Kelmscott, Western Australia	2950
Forestry And Timber Sureau	
Dept. Of National Development	2750
Forestry Commission Research Station, Farnham, England Alice Holt Lodge	2252
Fort Detrick, Frederick, Maryland	3257
U.s. Army Slological Laboratorles	3202
George Washington University, Washington, D. C.	
Dept. Of Botany Georgia Coastal Plain Experiment Station, Tifton	2240 2402
Georgia Coastal Plain Experiment Station, Tifton	2402
Plant Pathology Dept.	2546
Georgia Cotton Insect Control Association	2033
Georgia Experiment Station Georgia Experiment Station, Experiment 2608	2389 2609
2640 2640	2003
Georgia Experiment Station, Experiment	
Dept. Of Plant Pathology	2610
Georgia Experiment Station, Experiment, Ga. Georgia Experiment Station, Ga.	2996 2348
Georgia Mountain Experiment Station, Slairsville	3162
Ghana Academy Df Sciences, New Tafo	
Cocoa Research Institute Government Df Guam	3157
Dept. Of Agriculture	2770
Government Of West Sengal, Calcutta, India	
State Agricultural Research Institute Guinobatan Experiment Station, Albay, Philippines	2692
Philipine Sureau Of Plant Industry	3279
Gulf Coast Experiment Station, Bradenton, Fla.	2567
2568 3224 3227 Gulf Coast Experiment Station, Bradenton, Florida	2569
Gulf Research And Development Co., Plttsburgh, Pa.	2153
Harvard University, Cambridge, Mass.	
8lological Laboratories Hawallan Sugar Planters Association, Honolulu	2149
Experiment Station	2713
Experiment Station Hebrew University, Jerusalem, israel	
Experiment Station Hebrew University, Jerusalem, Israel Dept. Of Botany Hebrew University, Rehovot, Israel	2713 2954
Experiment Station Hebrew University, Jerusalem, Israel Dept. Of Botany Hebrew University, Rehovot, Israel Dept. Of Entomology	
Experiment Station Hebrew University, Jerusalem, Israel Dept. Of Botany Hebrew University, Rehovot, Israel Dept. Of Entomology Hebrew University, Rehovot, Israel	2954 2500
Experiment Station Hebrew University, Jerusalem, Israel Dept. Of Botany Hebrew University, Rehovot, Israel Dept. Of Entomology	2954
Experiment Station Hebrew University, Jerusalem, Israel Dept. Of Botany Hebrew University, Rehovot, Israel Dept. Of Entomology Hebrew University, Rehovot, Israel Faculty Of Agriculture Faculty Of Agriculture	2954 2500 2060 2049
Experiment Station Hebrew University, Jerusalem, Israel Dept. Of Botany Hebrew University, Rehovot, Israel Dept. Of Entomology Hebrew University, Rehovot, Israel Faculty Of Agriculture Paculty Of Agriculture Idaho Agricultura Experiment Station, Moscow	2954 2500 2060
Experiment Station Hebrew University, Jerusalem, Israel Dept. Of Botany Hebrew University, Rehovot, Israel Dept. Of Entomology Hebrew University, Rehovot, Israel Faculty Of Agriculture Paculty Of Agriculture Faculty Of Agriculture Idaho Agricultural Experiment Station, Parma	2954 2500 2060 2049
Experiment Station Hebrew University, Jerusalem, Israel Dept. Of Botany Hebrew University, Rehovot, Israel Dept. Of Entomology Hebrew University, Rehovot, Israel Faculty Of Agriculture Faculty Of Agriculture Idaho Agricultural Experiment Station, Moscow Idaho Agricultural Experiment Station, Parma Dept. Of Entomology Illinois Agricultural	2954 2500 2060 2049 2510 3000
Experiment Station Hebrew University, Jerusalem, Israel Dept. Of Botany Hebrew University, Rehovot, Israel Dept. Of Entomology Hebrew University, Rehovot, Israel Faculty Of Agriculture Paculty Of Agriculture Idaho Agricultural Experiment Station, Moscow Idaho Agricultural Experiment Station, Parma Dept. Of Entomology Illinols Agricultural Experiment Station, Urbana Dept. Of Plant Pathology	2954 2500 2060 2049 2510
Experiment Station Hebrew University, Jerusalem, Israel Dept. Of Botany Hebrew University, Rehovot, Israel Dept. Of Entomology Hebrew University, Rehovot, Israel Faculty Of Agriculture Idaho Agricultural Experiment Station, Moscow Idaho Agricultural Experiment Station, Parma Dept. Of Entomology Illinois Agricultural Experiment Station, Urbana Dept. Of Plant Pathology Illinois Institute Of Technology, Chicago	2954 2500 2060 2049 2510 3000
Experiment Station Hebrew University, Jerusalem, Israel Dept. Of Botany Hebrew University, Rehovot, Israel Dept. Of Entomology Hebrew University, Rehovot, Israel Faculty Of Agriculture Idaho Agricultural Experiment Station, Moscow Idaho Agricultural Experiment Station, Parma Dept. Of Entomology Illinois Agricultural Experiment Station, Urbana Dept. Of Plant Pathology Illinois Institute Of Technology, Chicago Dept. Of Bology Illinois Natural History Survey, Urbana 2059	2954 2500 2060 2049 2510 3000 2751
Experiment Station Hebrew University, Jerusalem, Israel Dept. Of Botany Hebrew University, Rehovot, Israel Paculty Of Agriculture Faculty Of Agriculture Idaho Agricultural Experiment Station, Moscow Idaho Agricultural Experiment Station, Urbana Dept. Of Plant Pathology Illinois Agriculture Of Technology, Chicago Dept. Of Biology 111inois Natural History Survey, Urbana 2059 2701 2702 2809 2984	2954 2500 2060 2049 2510 3000 2751 2899 2151
Experiment Station Hebrew University, Jerusalem, Israel Dept. Of Botany Hebrew University, Rehovot, Israel Dept. Of Entomology Hebrew University, Rehovot, Israel Faculty Of Agriculture 2048 Hebrew University, Rehovoth, Israel Faculty Of Agriculture 2048 Idaho Agricultural Experiment Station, Moscow Idaho Agricultural Experiment Station, Parma Dept. Of Entomology Illinois Agricultural Experiment Station, Urbana Dept. Of Plant Pathology Illinois Natural History Survey, Urbana 2059 2701 2702 2809 2984	2954 2500 2060 2049 2510 3000 2751 2899
Experiment Station Hebrew University, Jerusalem, Israel Dept. Of Botany Hebrew University, Rehovot, Israel Dept. Of Entomology Hebrew University, Rehovot, Israel Faculty Of Agriculture Calaba Agricultural Experiment Station, Moscow Idaha Agricultural Experiment Station, Parma Dept. Of Entomology Illinois Agricultural Experiment Station, Urbana Dept. Of Plant Pathology Illinois Institute Of Technology, Chicago Dept. Of Blology Illinois Natural History Survey, Urbana 2059 2701 2702 2809 2984 Illinois State Natural History Survey, Urbana Imperial College Of Science. And Technology, London Dept. Of Zoology	2954 2500 2060 2049 2510 3000 2751 2899 2151
Experiment Station Hebrew University, Jerusalem, Israel Dept. Of Botany Hebrew University, Rehovot, Israel Dept. Of Entomology Hebrew University, Rehovot, Israel Faculty Of Agriculture Idaho Agricultural Experiment Station, Moscow Idaho Agricultural Experiment Station, Parma Dept. Of Entomology Illinois Agricultural Experiment Station, Urbana Dept. Of Plant Pathology Dillinois Institute Of Technology, Chicago Dept. Of Bology Illinois Natural History Survey, Urbana 2701 2702 2809 2984 Illinois State Natural History Survey, Urbana Imperial College Of Science. And Technology, London Dept. Of Zoology Imperial College, London	2954 2500 2060 2049 2510 3000 2751 2899 2151 2315 2082
Experiment Station Hebrew University, Jerusalem, Israel Dept. Of Botany Hebrew University, Rehovot, Israel Dept. Of Entomology Hebrew University, Rehovot, Israel Facuity Of Agriculture Idaho Agricultural Experiment Station, Moscow Idaho Agricultural Experiment Station, Parma Dept. Of Entomology Illinois Agricultural Experiment Station, Urbana Dept. Of Plant Pathology Illinois Institute Of Technology, Chicago Dept. Of Biology Illinois State Natural History Survey, Urbana Imperial Coilege Of Science.And Technology, London Dept. Of Zoology Imperial Coilege, London Dept. Of Zoology And Applied Entomology	2954 2500 2060 2049 2510 3000 2751 2899 2151 2315 2082 2081
Experiment Station Hebrew University, Jerusalem, Israel Dept. Of Botany Hebrew University, Rehovot, Israel Dept. Of Entomology Hebrew University, Rehovot, Israel Faculty Of Agriculture Idaho Agricultural Experiment Station, Moscow Idaho Agricultural Experiment Station, Parma Dept. Of Entomology Illinois Agricultural Experiment Station, Urbana Dept. Of Plant Pathology Illinois Institute Of Technology, Chicago Dept. Of Biology 2701 2702 2809 2984 Illinois State Natural History Survey, Urbana Imperial College Of Science. And Technology, London Dept. Of Zoology Imperial College, London Dept. Of Zoology And Appled Entomology Inst. For Phytopathological Res., Wageningen, Netherland 2903	2954 2500 2060 2049 2510 3000 2751 2899 2151 2315 2082 2081
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Experiment Station Hebrew University, Jerusalem, Israel Dept. Of Botany Hebrew University, Rehovot, Israel Dept. Of Entomology Hebrew University, Rehovot, Israel Faculty Of Agriculture Idaho Agricultural Experiment Station, Moscow Idaho Agricultural Experiment Station, Parma Dept. Of Entomology Illinois Agricultural Experiment Station, Urbana Dept. Of Entomology Illinois Institute Of Technology, Chicago Dept. Of Bology 1111nois Natural History Survey, Urbana 2701 2702 2809 2984 Illinois State Natural History Survey, Urbana Imperial College Of Science. And Technology Institute Of Technology Instended Adaptile Entomology Instended Adaptile Entomology 2701 2702 2809 2984 Illinois State Natural History Survey, Urbana Imperial College, London Dept. Of Zoology Inst. For Phytopathological Res., Wageningen, Netherland 2003 Inst. Interamericano De Clencias Agricolas, Turrialba, C 2541 2795	2954 2500 2060 2049 2510 3000 2751 2899 2151 2315 2082 2081
Experiment Station Hebrew University, Jerusalem, Israel Dept. Of Botany Hebrew University, Rehovot, Israel Dept. Of Entomology Hebrew University, Rehovot, Israel Faculty Of Agriculture 2048 Hebrew University, Rehovoth, Israel Faculty Of Agriculture 2048 Hebrew University, Rehovoth, Israel Faculty Of Agriculture 2048 Idaho Agricultural Experiment Station, Moscow Idaho Agricultural Experiment Station, Parma Dept. Of Entomology Illinois Agricultural Experiment Station, Urbana Dept. Of Plant Pathology Illinois Institute Of Technology, Chicago Dept. Of Biology 1111nois State Natural History Survey, Urbana 2059 2701 2702 2809 2984 Illinois State Natural History Survey, Urbana Imperial College Of Science. And Technology, London Dept. Of Zoology Inst. For Phytopathological Res., Wageningen, Netherland 2903 Inst. Interamericano De Ciencias Agricolas, Turrialba, C 2405	2954 2500 2060 2049 2510 3000 2751 2899 2151 2315 2082 2081 5 . R.
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Experiment Station Hebrew University, Jerusalem, Israel Dept. Of Botany Hebrew University, Rehovot, Israel Dept. Of Entomology Hebrew University, Rehovot, Israel Faculty Of Agriculture 2048 Hebrew University, Rehovoth, Israel Faculty Of Agriculture 2048 Hebrew University, Rehovoth, Israel Faculty Of Agriculture Idaho Agricultural Experiment Station, Moscow Idaho Agricultural Experiment Station, Vibana Dept. Of Entomology Illinois Agricultural Experiment Station, Urbana Dept. Of Plant Pathology Illinois Natural History Survey, Urbana Imperial College Of Science. And Technology, London Dept. Of Zoology Imperial College, London Dept. Of Zoology And Applied Entomology Inst. For Phytopathological Res., Wageningen, Netherland 203 Inst. Interamericano De Diencias Agricolas, Turrialba, C 2405 Inst. Mac. de Tecnologia Agropecuaria, Castelar, Argenti Inst. Sagropecuarias Equipo de Antibioticus Instifica Garopecuarias Equipo de Antibioticus Instifica Garopecuarias Equipo de Antibioticus	2954 2500 2060 2019 2510 3000 2751 2315 2082 2081 . R. . R. . R. . M.
Experiment Station Hebrew University, Jerusalem, Israel Dept. Of Botany Hebrew University, Rehovot, Israel Dept. Of Entomology Hebrew University, Rehovot, Israel Faculty Of Agriculture Idaho Agricultural Experiment Station, Moscow Idaho Agricultural Experiment Station, Parma Dept. Of Entomology Illinois Agricultural Experiment Station, Urbana Dept. Of Plant Pathology Illinois Institute Of Technology, Chicago Dept. Of Plant Pathology 2701 2702 2809 2984 Illinois State Natural History Survey, Urbana Imperial College Of Science. And Technology, London Dept. Of Zoology Inst. For Phytopathological Res., Wageningen, Netherland 2903 Inst. Interamericano De Clencias Agricolas, Turrialba, C 2405 Inst. Nac. de Tecnologia Agropecuaria, Castelar, Argenti Institute Of Agriculture, Anand, India Dept. Of Palculture, Anand, India Dept. Of Palculture, Sand, India Dept. Of Palculture, Anand, India	2954 2500 2060 2049 2510 2751 2315 2082 2081 • R. • R. • R. • R. • 3204 2390
Experiment Station Hebrew University, Jerusalem, Israel Dept. Of Botany Hebrew University, Rehovot, Israel Dept. Of Entomology Hebrew University, Rehovot, Israel Facuity Of Agriculture Idaho Agricultural Experiment Station, Moscow Idaho Agricultural Experiment Station, Parma Dept. Of Entomology Illinois Agricultural Experiment Station, Urbana Dept. Of Entomology Illinois Institute Of Technology, Chicago Dept. Of Bology Illinois Natural History Survey, Urbana Imperial College Of Science. And Technology, London Dept. Of Zoology Imperial College, London Dept. Of Zoology And Applied Entomology Inst. Interamericano De Clencias Agricolas, Turrialba, C 2405 Inst. Interamericano De Diencias Agricolas, Turrialba, C 2405 Inst. Interamericano De Diencias Agricolas, Turrialba, C 2405 Inst. Mac. de Tecnologia Agropecuaria, Castelar, Argenti Industias Agropecuarias Equipo de Antibioticus Institute Of Agriculture, Anand, India Dept. Of Plant Pathology	2954 2500 2060 2019 2510 3000 2751 2315 2082 2081 . R. . R. . R. . M.
Experiment Station Hebrew University, Jerusalem, Israel Dept. Of Botany Hebrew University, Rehovot, Israel Dept. Of Entomology Hebrew University, Rehovot, Israel Facuity Of Agriculture Idaho Agricultural Experiment Station, Moscow Idaho Agricultural Experiment Station, Parma Dept. Of Entomology Illinois Agricultural Experiment Station, Urbana Dept. Of Entomology Illinois Institute Of Technology, Chicago Dept. Of Bology Illinois Natural History Survey, Urbana Imperial College Of Science. And Technology, London Dept. Of Zoology Imperial College, London Dept. Of Zoology And Applied Entomology Inst. Interamericano De Clencias Agricolas, Turrialba, C 2405 Inst. Interamericano De Diencias Agricolas, Turrialba, C 2405 Inst. Interamericano De Diencias Agricolas, Turrialba, C 2405 Inst. Interamericano E Clencias Agricolas, Turrialba, C 2405 Inst. Interamericano E Clencias Agricolas, Turrialba, C 2405 Inst. Interamericano E Clencias Agricolas, Turrialba, C 2405 Inst. Interamericano E Agropecuaria, Castelar, Argenti Industias Agropecuarias Equipo de Antibioticus Institute Of Agriculture, Anand, India Dept. Of Plant Pathology Institute Of Agriculture, Anand, India Dept. Of Jant Pathology Institute Of Agriculture, Anand, India Dept. Of Plant Pathology Institute Of Agriculture, Anand, India Dept. Of Plant Pathology Institute Of Agriculture, Anand, India Dept. Of Plant Pathology Institute Agropecuario Nacional, Guatemala C. A.	2954 2500 2060 2049 2510 2751 2315 2082 2081 • R. • R. • R. • R. • 3204 2390
Experiment Station Hebrew University, Jerusalem, Israel Dept. Of Botany Hebrew University, Rehovot, Israel Dept. Of Entomology Hebrew University, Rehovot, Israel Faculty Of Agriculture 2048 Hebrew University, Rehovoth, Israel Faculty Of Agriculture 2048 Hebrew University, Rehovoth, Israel Faculty Of Agriculture 2048 Hebrew University, Rehovoth, Israel Faculty Of Agriculture 2048 Idaho Agricultural Experiment Station, Moscow Idaho Agricultural Experiment Station, Urbana Dept. Of Entomology Illinols Agricultural Experiment Station, Urbana Dept. Of Plant Pathology Illinols Institute Of Technology, Chicago Dept. Of Biology 2701 2702 2809 2984 Illinols State Natural History Survey, Urbana Imperial College Of Science. And Technology, London Dept. Of Zoology Imperial College, London Dept. Of Zoology And Applied Entomology Inst. For Phytopathological Res., Wageningen, Netherland 2903 Inst. Interamericano De Ciencias Agricolas, Turrialba, C 2405 Inst. Interamericano De Diencias Agricolas, Turrialba, C 2405 Inst. Interamericano De Diencias Agricolas, Turrialba, C 2405 Inst. Nac. de Tecnologia Agropecuaria, Castelar, Argenti Inst. Mac. de Tecnologia Equipo de Antibioticus Institute Of Agriculture, Anand, India Dept. Of Plant Pathology Instituto Agropecuario Nacional, Guatemala 2803 3062 3064 Instituto Agropecuario Nacional, Guatemala	2954 2500 2060 2049 2510 2751 2315 2082 2081 . R. . R. . R. . R. . 3204 2390 2284
Experiment Station Hebrew University, Jerusalem, Israel Dept. Of Botany Hebrew University, Rehovot, Israel Dept. Of Entomology Hebrew University, Rehovot, Israel Facuity Of Agriculture Idaho Agricultural Experiment Station, Moscow Idaho Agricultural Experiment Station, Parma Dept. Of Entomology Illinois Agricultural Experiment Station, Urbana Dept. Of Entomology Illinois Institute Of Technology, Chicago Dept. Of Bology Illinois Natural History Survey, Urbana Imperial College Of Science. And Technology, London Dept. Of Zoology Imperial College, London Dept. Of Zoology And Applied Entomology Inst. Interamericano De Clencias Agricolas, Turrialba, C 2405 Inst. Interamericano De Diencias Agricolas, Turrialba, C 2405 Inst. Interamericano De Diencias Agricolas, Turrialba, C 2405 Inst. Interamericano E Clencias Agricolas, Turrialba, C 2405 Inst. Interamericano E Clencias Agricolas, Turrialba, C 2405 Inst. Interamericano E Clencias Agricolas, Turrialba, C 2405 Inst. Interamericano E Agropecuaria, Castelar, Argenti Industias Agropecuarias Equipo de Antibioticus Institute Of Agriculture, Anand, India Dept. Of Plant Pathology Institute Of Agriculture, Anand, India Dept. Of Jant Pathology Institute Of Agriculture, Anand, India Dept. Of Plant Pathology Institute Of Agriculture, Anand, India Dept. Of Plant Pathology Institute Of Agriculture, Anand, India Dept. Of Plant Pathology Institute Agropecuario Nacional, Guatemala C. A.	2954 2500 2060 2019 2510 3000 2751 2899 2151 2315 2082 2081 . R. . R. . R. . R. . 3204 2390 2804 3063

Inter-America	Inst.	01	Agrlc.	Scl.,	Turrlalba,	Costa R	lca
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Inter-American Inst. Of Agri. Sciences, Turrialba, C. R.

2540 International Commission On Plant Disease Losses	2668
International Paper Co., Bainbridge, Ga. Southlands Experiment Forest	2399
International Rice Rasearch Inst., Los Banos, Philippin 2729 2775	es.
Iowa State University Dept. Of Botany And Plant Pathology	2615
Iowa Stata University Of Science And Technology Israai Institute For Biological Research, Ness-ziona	2186 2209
Israel Institute For Biological Research, Ness-2iona Dapt. Of Entomology 2044	
Israel Ministry Of Agricultura	2045
Extension Administration Plant Protaction Saction	2734
Israel Ministry Of Agricultura, Tai Aviv Extension Sarvica	
Plant Protaction Saction	2733
Israel Ministry Of Agriculture, Tai Aviv Extansion Sarvica	
Plant Protaction Sarvica Johns Hopkins University, Baltimore, Md.	2493
Biology Dapt. Johns Hopkins University, Blatimore, Nd.	2172
Slology Dapt.	2173
Kansas Agricultural Experimant Station, Manhattan Dapartmants Of Entomology And Agronomy	2976
Kansas State University, Manhattan 2392 30B3 3160	3143
Kansas Stata University, Manhattan Dapt. Of Botany, Plant Pathology, And Entomology	2604
Kansas State University, Manhattan	
Division Of Extansion Kansas Stata Univarsity, Manhattan	2930
U. S. Dept. Of Agricultura Agricultural Rasearch Sarvica	
Crops Rasearch Division Kantucky Agricultural Exparimant Station, Lexington	2362 2557
2558 3163 3164	
Lab. For Rasaarch On Insacticidas, Utrecht, Natharlands 2042	
Lab. For Rasearch On Insacticidas, Utrecht, Netharlands 2085	•
Laval Univarsity, Quebac, Canada Dapt. Of Forest Engineering	2631
Lahigh Univarsity, Bathlaham, Pa.	2207
Dapt. Of Biology London School Of Hyglana And Tropical Medicine, England	
Dapt. Of Entomology Louisiana Agricultural Exparimant Station, Baton Rouga	2141
2408 2635 2816 Louisïana Agricultural Expariment Station, Baton Rouge	
Dapt. Of Plant Pathology 2627 Louisiana State Univarsity	2827
Agricultural Expariment Station	3241 3216
Louisiana State Univarsity, Baton Rouga	5210
Agricultural Experimant Station Dapt. Of Botany And Piant Pathology 2409	2817
Louisiana Stata Univarsity, Baton Rouga Dapt. Of Botany And Plant Pathology	2762
Louisiana State Univarsity, Baton Rouga Dapt. Of Botany And Plant Pathology	
Agricultural Exparimant Station	2B18
Louisiana Stata Univarsity, Baton Rouge Dapt. Of Entomology 2013 2980	3142
Louisiana Stata Unimarsity, Baton Rouge Dapt. Of Plant Pathology 2611	3045
Louisiana State;Univarsity, Baton Rouga, La. Lucknow University, Lucknow, India	2425
Dapt. Of Zoology	2182
M. S. Univarsity Of Baroda, India Dept. Of Zoology	
	2168 ndia
Dapt. Of Mycology And Plant Pathology	2764 ndia
Dapt. Of Mycology And Plant Pathology	
Blological Laboratories 269B Maine Agriculturai Experiment Station, Orono 2655	2732 3124
Marine Biological Laboratorias, Woods Hola, Mass. Massachusetts Agricultural Experiment Station	2113
Dept. Of Entomology And Plant Pathology McNaese State Collega, Lake Charles, Louisiana	3118 2342
michigan State University	3135
Michigan State University Dept. Of Botany And Plant Pathology	2801
Michigan State University, East Lansing Michigan State University, East Lansing	3169
Dept. Of Botany And Plant Pathology 2502	2694

2695 2696 2858 2859 3253	
Michigan State University, East Lansing	2100
Dept. Of Entomology Michigan State University, East Lansing, Mich.	3182
Dept. Of Botany And Plant Pathology	3101 3184
Michigan State University, East Lansing, Mich.	
Dept. Of Horticuiture Ministeric De Acricuiture V Canaderia, El Salvar	2576
Ministerio De Agricuitura Y Ganaderia, El Salvac Direccion General De Investigaciones Agronomic	as 2266
- Ministerio Da Agricuitura Y Ganaderia, El Salvad	lor
Dirreccion General De Investigaciones Agronomi	cas 2265
Ministario de Agricuitura y Ganaderia, San Jose Seccion de Fitopatologia	2781
Ministerio De Agricultura, Costa Rica	28.44
Ministry Of Agricuiture, Abu-Ghraib, iraq	305i
Ministry Of Agriculture, Abu-Ghralb, Iraq Ministry Of Agriculture, Fisheries And Food, Mai East Mailing Research Station	dstona,U.K.
Hinistry Of Agricuiture, Hakirya, Israal	3110 3137
Division Of Citriculture	2736
Ministry Of Agriculture, Israal	
Dept. Of Plant Protaction	2520
Ministry Uf Agricuiture, Orman, Giza, Unitad Ara 2699	to Republic
Minnesota Agricuitural Exparimant Station, St Pa	ul 2967
Mississippi Agricuitural Expariment Station, Sta	nte College
3094 Missississi Arelaultural Europianat Station St	the College
Mississippi Agricultural Experimant Station, Sta Dapt. Of Plant Pathology And Physiology	2470
Mississippi Agricultural Expariment Station, Sto	
Dalta Branch	2061
Mississippi Stata University Stata Collega	2499
Mississippi Stata University, Stata Collage	2499 2919
Mississippi State Univarsity, Stata Collega	0110 0101
Dapt. Of Plant Pathology And Physiology	2288
Missouri Agricultural Expariment Station Missouri Agricultural Exparimant Station, Colum	2674 2482
Montana Agricuitural Exparimant Station, Column	2261
Montana Stata Collaga, Bozaman	
Dapt. Of Botany And Bacteriology	2260 2494
Moor Plantation, Ibadan, Nigaria Fadaral Dapt. Of Agricultural Research	3073
Mountain Horticultural Crops Ras. Station, Fleto	
2855	
Nagoya Univarsity, Anjo, Japan	2524
Nagoya Univarsity, Anjo, Japan Facuity Of Agriculture	
Saricultural Laboratory	2133
National And Univ. Inst. Of Agricultura, Rahovo	t, Israei
2904	Tennel
National And Univ. Inst. Of Agricultura, Rahovo Namatology Saction	3017
National And University Inst. Of Agri., Rehovot.	
3106	
National Capital Region, Washington, D. C.	
National Park Sarvica Dapt. Of Tha Intarior	
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National Instituta For Agricultural Rasaarch, Me	2297 xico
National Instituta For Agricuitural Rasaarch, Me Dapt. Of Plant Pathology	
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National Instituta For Agricuitural Rasaarch, Me Dapt. Of Plant Pathology National Naval Madical Centar, Bathesda, Md. National Madical Rasaarch Instituta National Rasearch Centre, Egypt, U. A. R. Nematological Invastigations	2440
National Instituta For Agricuitural Rasaarch, Me Dapt. Of Plant Pathology National Naval Madical Centar, Bathesda, Md. National Madical Rasaarch Instituta National Rasearch Centre, Egypt, U. A. R. Nematological Invastigations Soli Biology Unit	2440 2211 3053
National Instituta For Agricuiturai Rasaarch, Me Dapt. Of Plant Pathology National Naval Madical Centar, Bathesda, Md. National Madical Rasaarch Instituta National Rasearch Centre, Egypt, U. A. R. Nematological Invastigations Soli Biology Unit Nati. And Univ. Institute Of Agricuitura, Rahova	2440 2211 3053 ot, Israal
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National Instituta For Agricultural Rasaarch, Me Dapt. Of Plant Pathology National Naval Madical Centar, Bathesda, Md. National Madical Rasaarch Instituta National Rasearch Centre, Egypt, U. A. R. Nematological Invastigations Soil Biology Unit Nati. And Univ. Institute Of Agricultura, Rahova Division Of Plant Pathology Nebraska Agricultural Expariment Station, Mitche Scotts Bluff Nebraska Nancki Instituta Of Exparimental Biology, Warsaa Dapt. Of Biochemistry	2440 2211 3053 2768 211 2974 2974 2144
National Instituta For Agricultural Rasaarch, Me Dapt. Of Plant Pathology National Naval Madical Centar, Bathesda, Md. National Rasaarch Centre, Egypt, U. A. R. Nematological Invastigations Soli Biology Unit Nati. And Univ. Institute Of Agricultura, Rahova Division Of Plant Pathology Nebraska Agricultural Expariment Station, Mitche Socits Biuff Nebraska Nancki Dastitute Of Exparimental Biology, Warsaa	2440 2211 3053 2768 211 2974 2974 2144
National Instituta For Agricultural Rasaarch, Me Dapt. Of Plant Pathology National Naval Madical Centar, Bathesda, Md. National Madical Rasaarch Instituta National Rasearch Centre, Egypt, U. A. R. Nematological Invastigations Soli Biology Unit Nati. And Univ. Institute Of Agricultura, Rahova Division Of Plant Pathology Nebraska Agricultural Expariment Station, Mitche Scotts Biuff Nebraska Nancki Institute Of Exparimental Biology, Warsaa Dapt. Of Biochemistry Naw Hampshire Agricultural Experiment Station, I 2346 Naw Jarsay Agricultural Experiment Station	2440 2211 3053 2768 211 2974 2974 2974 2974 2144 2144 2014an 3013
National Instituta For Agricultural Rasaarch, Me Dapt. Of Plant Pathology National Naval Madical Centar, Bathesda, Md. National Madical Rasaarch Instituta National Rasearch Centre, Egypt, U. A. R. Nematological Invastigations Soil Biology Unit Nati. And Univ. Institute Of Agricultura, Rahova Division Of Plant Pathology Nebraska Agricultural Expariment Station, Mitche Scotts Bluff Nebraska Nancki Institute Of Exparimantal Biology, Warsaa Dapt. Of Biochemistry Naw Hampshire Agricultural Experiment Station, I 2346 Naw Jarsay Agricultural Experiment Station, New	2440 2211 3053 2768 211 2974 2974 2974 2974 2144 2144 2014an 3013
National Instituta For Agricultural Rasaarch, Me Dapt. Of Plant Pathology National Naval Madical Centar, Bathesda, Md. National Madical Rasaarch Instituta National Rasearch Centre, Egypt, U. A. R. Nematological Invastigations Soli Biology Unit Nati. And Univ. Institute Of Agricultura, Rahova Division Of Plant Pathology Nebraska Agricultural Expariment Station, Mitche Scotts Biuff Nebraska Nancki Institute Of Exparimental Biology, Warsaa Dapt. Of Biochemistry Naw Hampshire Agricultural Experiment Station, I 2346 Naw Jarsay Agricultural Experiment Station	2440 2211 3053 2768 311 2974 2144 2144 2144 2144
National Instituta For Agricultural Rasaarch, Me Dapt. Of Plant Pathology National Naval Madical Centar, Bathesda, Md. National Madical Rasaarch Instituta National Rasearch Centre, Egypt, U. A. R. Nematological Invastigations Soli Biology Unit Nati. And Univ. Institute Of Agricultura, Rahova Division Of Plant Pathology Nebraska Agricultural Expariment Station, Mitche Scotts Bluff Nebraska Nancki Institute Of Expariment Biology, Warsaa Dapt. Of Biochemistry Naw Hampshire Agricultural Experiment Station, I 2346 Naw Jarsay Agricultural Experiment Station, New 2377 3086 Naw Mexico Agricultural Expariment Station, Univ 2642	xico 2440 2211 3053 2768 311 2974 2144 2144 Brunswick 3013 Brunswick
National Instituta For Agricultural Rasaarch, Me Dapt. Of Plant Pathology National Naval Madical Centar, Bathesda, Md. National Madical Rasaarch Instituta National Rasearch Centre, Egypt, U. A. R. Nematological Invastigations Soli Biology Unit Nati. And Univ. Institute Of Agricultura, Rahova Division Of Plant Pathology Nebraska Agricultural Expariment Station, Mitche Scotts Bluff Nebraska Nancki Institute Of Exparimental Biology, Warsan Dapt. Of Biochemistry Naw Hampshire Agricultural Experiment Station, New 2346 Naw Jarsay Agricultural Experiment Station Naw Jarsay Agricultural Experiment Station, New 2377 3086 Naw Mexico Agricultural Experiment Station, Univ 2642 New Mexico Agricultural Experiment Station, Univ 2642	xico 2440 2211 3053 2768 211 2974 4, Poland 2144 Ourham 3013 Brunswick varsity Park
 National Instituta For Agricultural Rasaarch, Me Dapt. Of Plant Pathology National Madical Centar, Bathesda, Md. National Rasearch Centre, Egypt, U. A. R. Nematological Invastigations Soil Biotogy Unit Nati. And Univ. Institute Of Agricultura, Rahova Division Of Plant Pathology Nebraska Agricultural Expariment Station, Mitche Scotts Bluff Nebraska Nancki Institute Of Exparimantal Biology, Warsaa Dapt. Of Biochemistry Naw Jarsay Agricultural Experiment Station, New 2346 Naw Jarsay Agricultural Experiment Station, New 2377 3086 Naw Mexico Agricultural Experiment Station, Univ 2642 New Mexico Agricultural Experiment Station, Univ 2643 	xico 2440 2211 3053 2768 311 2974 2144 2144 Brunswick 3013 Brunswick
National Instituta For Agricultural Rasaarch, Me Dapt. Of Plant Pathology National Naval Madical Centar, Bathesda, Md. National Madical Rasaarch Instituta National Rasearch Centre, Egypt, U. A. R. Nematological Invastigations Soli Biology Unit Nati. And Univ. Institute Of Agricultura, Rahova Division Of Plant Pathology Nebraska Agricultural Expariment Station, Mitche Scotts Bluff Nebraska Nancki Institute Of Exparimental Biology, Warsan Dapt. Of Biochemistry Naw Hampshire Agricultural Experiment Station, New 2346 Naw Jarsay Agricultural Experiment Station Naw Jarsay Agricultural Experiment Station, New 2377 3086 Naw Mexico Agricultural Experiment Station, Univ 2642 New Mexico Agricultural Experiment Station, Univ 2642	xico 2440 2211 3053 2768 211 2974 4, Poland 2144 Ourham 3013 Brunswick varsity Park
National Instituta For Agricultural Rasaarch, Me Dapt. Of Plant Pathology National Naval Madical Centar, Bathesda, Md. National Madical Rasaarch Instituta National Rasearch Centre, Egypt, U. A. R. Nematological Invastigations Soli Biology Unit Nati. And Univ. Institute Of Agricultura, Rahova Division Of Plant Pathology Nebraska Agricultural Expariment Station, Mitche Scotts Bluff Nebraska Nancki Institute Of Expariment Station, Mitche Scotts Bluff Nebraska Nancki Instituta Of Expariment Station, I 2346 Naw Jarsay Agricultural Experiment Station, New 2377 3086 Naw Mexico Agricultural Experiment Station, Univ 2642 New Mexico Agricultural Experiment Station, Univ 2642 New Mexico State University Agricultural Experiment Station New Mexico State University Park	xico 2440 2211 3053 2768 311 2974 2144 2144 2144 2144 2144 2144 2144 21
National Instituta For Agricultural Rasaarch, Me Dapt. Of Plant Pathology National Naval Madical Centar, Bathesda, Md. National Rasearch Centre, Egypt, U. A. R. Nematological Invastigations Soli Biology Unit Nati. And Univ. Institute Of Agricultura, Rahova Division Of Plant Pathology Nebraska Agricultural Expariment Station, Mitche Scotts Bluff Nebraska Nancki Institute Of Exparimental Biology, Warsan Dapt. Of Biochemistry Naw Hampshire Agricultural Experiment Station, New 2346 Naw Jarsay Agricultural Experiment Station, New 2377 3086 Naw Jarsay Agricultural Experiment Station, New 2642 New Mexico Agricultural Experiment Station, Univ 2642 New Mexico State University Agricultural Experiment Station, Univ Det. Of Botany And Entomology 2643 New Mexico State University Agricultural Experiment Station New Mexico State University Park Agricultural Experiment Station	2440 2211 3053 2768 211 2974 2144 2074 2144 2074 2144 2014 2015 2013 2013 2013 2013 2013 2013 2013 2013
National Instituta For Agricultural Rasaarch, Me Dapt. Of Plant Pathology National Naval Madical Centar, Bathesda, Md. National Rasearch Centre, Egypt, U. A. R. Nematological Invastigations Soil Biology Unit Nati. And Univ. Institute Of Agricultura, Rahova Division Of Plant Pathology Nebraska Agricultural Expariment Station, Mitche Scotts Bluff Nebraska Nancki Institute Of Exparimantal Biology, Warsaa Dapt. Of Biochemistry Naw Hampshire Agricultural Experiment Station, Ne 2346 Naw Jarsay Agricultural Experiment Station, New 2377 3086 Naw Mexico Agricultural Experiment Station, Univ 2642 New Mexico Agricultural Experiment Station, Univ 2642 New Mexico State University Agricultural Experiment Station New Mexico State University, University Park Agricultural Experiment Station	2440 2211 3053 2768 311 2974 2144 2144 2144 2144 2144 2144 2144 21
National Instituta For Agricultural Rasaarch, Me Dapt. Of Plant Pathology National Naval Madical Centar, Bathesda, Md. National Rasearch Centre, Egypt, U. A. R. Nematological Invastigations Soli Biology Unit Nati. And Univ. Institute Of Agricultura, Rahova Division Of Plant Pathology Nebraska Agricultural Expariment Station, Mitche Scotts Bluff Nebraska Nancki Institute Of Exparimental Biology, Warsas Dapt. Of Biochemistry Naw Hampshire Agricultural Experiment Station, New 2376 Naw Jarsay Agricultural Experiment Station, New 2377 3086 New Mexico Agricultural Experiment Station, Univ 2642 New Mexico Agricultural Experiment Station, Univ 2643 New Mexico Agricultural Experiment Station, Univ 2643 New Mexico State University Agricultural Experiment Station New Mexico State University Park Agricultural Experiment Station New Mexico State University, University Park Agricultural Experiment Station New Maxico State University, University Park Awaico State University, University Park New Maxico State University, University Park New Mexico State University, University Park New Maxico State University, University Park New Maxico State University, University Park New Maxico State University, University Park	2440 2211 3053 2768 211 2974 2144 2144 2144 2144 2144 2144 2144 21
National Instituta For Agricultural Rasaarch, Me Dapt. Of Plant Pathology National Naval Madical Centar, Bathesda, Md. National Madical Rasaarch Instituta National Rasearch Centre, Egypt, U. A. R. Nematological Invastigations Soil Biology Unit Nati. And Univ. Institute Of Agricultura, Rahove Division Of Plant Pathology Nebraska Agricultural Expariment Station, Mitche Scotts Bluff Nebraska Nanckl Institute Of Expariment Station, Mitche Scotts Bluff Nebraska Nanckl Instituta Of Expariment Biology, Warsas Dapt. Of Biochemistry Naw Hampshire Agricultural Experiment Station, I 2346 Naw Jarsay Agricultural Experiment Station, New 2377 3086 Naw Mexico Agricultural Experiment Station, Univ 2642 New Mexico State University Agricultural Experiment Station, Univ 2643 New Mexico State University Agricultural Experiment Station New Mexico State University Agricultural Experiment Station New Maxico State University, University Park Agricultural Experiment Station New Maxico State University, University Park New Maxico State University, University Park	2440 2211 3053 2769 311 2974 2144 2144 2144 2144 2144 2144 2144 21
National Instituta For Agricultural Rasaarch, Ma Dapt. Of Plant Pathology National Naval Madical Centar, Bathesda, Md. National Rasearch Centre, Egypt, U. A. R. Nematological Invastigations Soli Biology Unit Nati. And Univ. Institute Of Agricultura, Rahova Division Of Plant Pathology Nebraska Agricultural Expariment Station, Mitche Scotts Biuff Nebraska Nancki Institute Of Exparimental Biology, Warsan Dapt. Of Biochemistry Naw Hampshire Agricultural Experiment Station, New 2346 Naw Jarsay Agricultural Experiment Station, New 2377 3086 Naw Marico Agricultural Experiment Station, New 2377 3086 Naw Macico Agricultural Experiment Station, New 2642 New Mexico Agricultural Experiment Station, Univ 2642 New Mexico State University Agricultural Experiment Station New Maxico State University Park Agricultural Experiment Station New Maxico State University, University Park Agricultural Expariment Station New Maxico State University, University Park, Ne Agricultural Expariment Station	2440 2211 3053 2768 311 2974 2974 2974 2144 2000 2000 2003 2003 2003 3114 2644 3280 2838 2840
National Instituta For Agricultural Rasaarch, Me Dapt. Of Plant Pathology National Naval Madical Centar, Bathesda, Md. National Madical Rasaarch Instituta National Rasearch Centre, Egypt, U. A. R. Nematological Invastigations Soil Biology Unit Nati. And Univ. Institute Of Agricultura, Rahova Division Of Plant Pathology Nebraska Agricultural Experiment Station, Mitche Scotts Bluff Nebraska Nancki Institute Of Experiment Station, Mitche Scotts Bluff Nebraska Nancki Instituta Of Exparimantal Blology, Warsaa Dapt. Of Biochemistry Naw Hampshire Agricultural Experiment Station, New 2377 3086 Naw Jarsay Agricultural Experiment Station, Univ 2642 New Mexico Agricultural Experiment Station, Univ 2642 New Mexico State University Agricultural Experiment Station New Mexico State University, University Park Agricultural Experiment Station New Mexico State University, University Park Agricultural Experiment Station New Maxico State University, University Park New Maxico Agricultural Experiment Station New Maxico State University, University Park New Maxico State University, University Park, N. Agricultural Experiment Station	xico 2440 2211 3053 2768 311 2974 2144 2144 2144 2144 2144 2144 2144 21
National Instituta For Agricultural Rasaarch, Ma Dapt. Of Plant Pathology National Naval Madical Centar, Bathesda, Md. National Rasearch Centre, Egypt, U. A. R. Nematological Invastigations Soli Biology Unit Nati. And Univ. Institute Of Agricultura, Rahova Division Of Plant Pathology Nebraska Agricultural Expariment Station, Mitche Scotts Biuff Nebraska Nancki Institute Of Exparimental Biology, Warsan Dapt. Of Biochemistry Naw Hampshire Agricultural Experiment Station, New 2346 Naw Jarsay Agricultural Experiment Station, New 2377 3086 Naw Marico Agricultural Experiment Station, New 2377 3086 Naw Macico Agricultural Experiment Station, New 2642 New Mexico Agricultural Experiment Station, Univ 2642 New Mexico State University Agricultural Experiment Station New Maxico State University Park Agricultural Experiment Station New Maxico State University, University Park Agricultural Expariment Station New Maxico State University, University Park, Ne Agricultural Expariment Station	xico 2440 2211 3053 2768 311 2974 2144 2144 2144 2144 2144 2144 2144 21
National Instituta For Agricultural Rasaarch, Me Dapt. Of Plant Pathology National Naval Madical Centar, Bathesda, Md. National Madical Rasaarch Instituta National Rasearch Centre, Egypt, U. A. R. Nematological Invastigations Soil Biology Unit Nati. And Univ. Institute Of Agricultura, Rahova Division Of Plant Pathology Nebraska Agricultural Experiment Station, Mitche Scotts Bluff Nebraska Nancki Institute Of Experiment Station, Mitche Scotts Bluff Nebraska Nancki Instituta Of Exparimantal Blology, Warsaa Dapt. Of Biochemistry Naw Hampshire Agricultural Experiment Station, New 2377 3086 Naw Jarsay Agricultural Experiment Station, Univ 2642 New Mexico Agricultural Experiment Station, Univ 2642 New Mexico State University Agricultural Experiment Station New Mexico State University, University Park Agricultural Experiment Station New Mexico State University, University Park Agricultural Experiment Station New Maxico State University, University Park New Maxico Agricultural Experiment Station New Maxico State University, University Park New Maxico State University, University Park, N. Agricultural Experiment Station	xico 2440 2211 3053 2768 311 2974 2144 2144 2144 2144 2144 2144 2144 21

	,
New York State Agricultural Experiment Station, Geneva	
2811 3170 New York State Agricultural Experiment Station, Geneva	
Dept. Of Plant Pathology 2456 2457	2458
New York State Museum And Science Service, Albany Newckl Institute Of Experimental Biology, Warsaw, Poland	3129
Dept. Of Slochemistry	2143
North Carolina Agricultural Experiment Station, Raleigh 2030 2180 2987 2988 3183	
North Carolina Agricuitural Experiment Station, Raieigh	
Plant Pathology And Horticulture	2654
North Carolina State College Dept. Of Plant Pathology	2709
North Carolina State College, Raleigh 2022	271S
2962 2972 3288 North Carolina State College, Raleigh	
Dept. Of Horticulture And Plant Pathology	2511
North Carolina State College, Raleigh	2001
Dept. Of Plant Pathology 2286 2403 2714 2878 3008 3061	2581
North Carolina State College, Raleigh	
Dept. Of Piant Pathology And Entomology North Carolina State College, Raleigh	2720
Depts. Of Entomology And Plant Pathology	2485
North Carolina State College, Raleigh, N. C.	2676
Dept. Of Piant Pathology North Carolina State College, Raleigh, N.c.	2636
Dept. Of Plant Pathology	2527
North Carolina State Of The Univ. Of North Carolina, Raid Dept. Of Entomology	2236
North Carolina State Of The University Of N. C., Raleigh	
Dept. Of Entomology	2123
North Dakota Agricultural Experiment Station, Fargo North Dakota State University, Fargo	2687
Dept. Of Plant Pathology	224S
North Florida Experiment Station, Quincy North Texas State University, Denton	2995
Dept. Of Sloiogy	2205
Northeastern Experiment Station, Upper Darby Northwestern University, Evanston, 111.	3291
Dept. Of Bloiogical Sciences	2227
Northwestern Washington Experiment Station, Mount Vernon	
2488 Ohio Agricultural Experiment Station, Wooster	3104
3176	
Ohio Agricultural Experiment Station, Wooster Dept, Of Botany And Plant Pathology 2622 Dhio Agricultural Experiment Station, Wooster, Ohio	3294
Ohio Agricultural Experiment Station, Wooster, Ohio	2936
Oklahoma Agriculturai Experiment Station, Stillwater Dept. Of Botany And Piant Pathology	3041
Oklahoma State University	2195
Oklahoma State University Oklahoma State University	2005
Dept. Of Botany And Plant Pathology Okiahoma State University, Stlilwater	3095 2947
Okiahoma State University, Stlilwater Oklahoma State University, Stlilwater	
Dept. Of Agronomy Dregon Agricultural Experiment Station, Corvaliis	3065
Dept. Of Hortlculture	3240
Oregon Dept. Of Agriculture, Salem	2630
Oregon State Coliege, Corvallis Dept. Of Botany And Piant Pathology 2336	2664
266S 27S3	
Oregon State Dept. Of Agricuiture, Salem Oregon State University 2788	239S 3239
Oregon State University	
Dept. Of Sotany And Plant Pathology Oregon State University, Corvaliis 2385 3158	2387
Oregon State University, Corvailis	3263
Dept. Of Agricultural Chemistry	3112
Oregon State University, Corvaliis Dept. Of Botany And Plant Pathology 2388	2514
Oregon State University, Corvailis	
Dept. Of Entomology Oregon State University, Corvailis	3130
Dept. Of Hortleulture	2287
Oregon State University, Medford	
Southern Oregon Experiment Station Oregon State University, Medford, Ore.	3001
Southern Dregon Branch Experiment Station	2226
Pa. Agriculturai Experiment Station, University Park Panjab University, Chandigarh, India	2970
Dept. Of Sotany	2479
Panjab University, Chandlgarh, Panjab, India	2000
Dept. Of Botany Pee Dee Experiment Station, Florence, S. C.	2SSS 298S
Pendieton Branch Experiment Station, Oregon	3231
Pennsylvanla Agricultural Experiment Stat., University Pa 2865	ark
Pennsylvania Agricultural Experiment Station	20.00
	326S
Pennsylvania State University 2320 2602	3238

3284	
Pennsylvanla State University Fruit Research Laboratory	2662
Pennsylvania State University, University Park	
Pennsylvania State University, University Park	2447
Dept. Of Botany And Plant Pathology 2414 Pennsylvanla State University, University Park	241S
Dept. Of Plant Pathology 2864	2940
Pennsylvania State University, University Park Plant Pathology Extension	2712
Pest infestation Lab., Slough, England.	2065
Plant Industry Station, Beltsviile, Md. Agricultural Marketing Service	2830
Plant Pathologist Lab. Of Uttar Prodesh, Kanpur, India	2- 30
2651 2652 Purdue University	
Agricuitural Experiment Station	3193
Purdue University Dept. Of Botany And Plant Pathology 2302	2810
	2893
Purdue University Agricultural Experiment Station Oept. Of Entomology	3080
Purdue University, Lafayette, Ind.	2100
Purdue University, Lafayette, Ind. Purdue University, Lafayette, Ind. Dept. Of Animal Sciences	
Dept. UI Animal Sciences Purdue University, Lafayette, Ind.	3113
Dept. Of Botany And Plant Pathology 2473	2563
2799 Rahr Malting Co., Manitowoc, Wis.	
Research Department	3211
Research Institute For Plant Protection, Budapest, Hungar 2S97	У
Research Station, Winnipeg, Manitoba, Canada	
	3024
Rhode Island Agricuitural Experiment Station, Kingston 2860 2861	
Rhode Island College	
	2503 2345
Rutgers State University, New Srunswick, N. J.	3138
Rutgers The State University, New Orunswick, N. J. New Jersey Agricultural Experiment Station	2745
Rutgers University, New Brunswick, N. J.	
Dept. Of Plant Biology Rutgers University, New Brunswick, N. J.	2746
Dept. Of Plant Pathology	3248
Rutgers University, New Brunswick, N. J. New Jersey Agricultural Experiment Station	2744
Rutgers University, New Brunswick, New Jersey	7.0.7.4
Dept. Of Entomology And Economic Zoology Science Research Institute	3014
Sotany And Plant Pathology Dept.	2886
Scottlsh Horticultural Research Institute, Oundee, Scotia 2332	nd
Seoul National University, Suwon, Korea	
College Of Agriculture Dept. Of Agricultural Biology	2356
	2127
Sericultural Experiment Station, Suginami-ku, Tokyo, Japa	n
2126 2129 2166 2167 Sericultural Expt. Station, Suginami-ku, Tokyo, Japan	
2128	
South African Co-operative Citrus Exchange, Nelspruit 3235	
South Carolina Agricultural Experiment Station, Clemson	
2491 2628 South Dakota State College, Brookings	3168
South Dakota State College, Brookings South Dakota State College, Brookings	0100
Dept. Of Plant Pathology	2705
	2842
Standard Fruit Co., La Celba, Honduras	22.58
State Agricultural Research Institute, Caicutta, India 2350 3206	
State Agricuitural Research Institute, West Bengai, India	
2382 State Univ. Coll. Of Forestry At Syracuse University, N.	
	2117
State University Of Moscow	
Faculty Of Soil Biology Dept. Of Entomology	2233
Sub-Tropical Experiment Station, Homestead, Fia.	2657
3002 Sunkist Growers, Inc., Ontario, Caiif.	
Research And Development Dept.	3268
Syracuse University, Syracuse, N. Y. State University College Of Forestry	

State University, Spracese, N. 1. State University College Of Forestry Dept. Of Forest Botany And Pathology 2825 Tanzania Ministry Of Agriculture, Arusha, East Africa

	ORGANI2
Forest And Wildlife	
Northern Research Centre Texas A And M University	2914 3181
Texas A And M University	
Dept. Of Entomology Texas A And M University	3249
Entomology Dept.	2219
Texas A And M University, College Station, Texas Texas A. And M. University, College Station 2247	2955 2284
2306 2357	
Texas Agricultural Experiment Station, College Station 2999 3078	
Texas Agricultural Experiment Station, College Station Dept. Of Entomology	2981
Texas Agricultural Experiment Station, Jacksonville	
Tomato Disease Laboratory Texas Technological College, Lubbock	2948
Dept. Of Biology	3287
The Australian National University, Canberra, A. C. T. John Curtin School Of Medical Research	
Dept. Of Experimental Pathology	27D3
The Connecticut Agricultural Experiment Station The Connecticut Agricultural Experiment Station, New Har	2913 Ven
3171	
The Connecticut Agricultural Experiment Station, New Har Dept. Of Plant Pathology And Botany	2639
The George Washington University, Washington, D. C.	
Dept. Of Zoology The Hebrew University, Rehovot, Israel	2198
Faculty Of Agriculture	2863
The Hebrew University, Rehovot, Israel Faculty Of Agriculture	
Dept. Of Fleld And Vegetable Crops 2281	2282
The Hebrew University, Rehovot, Israel Faculty Of Agriculture	
Land Settlement Dept. Of The Jewish Agency	1994
The International Rice Res. Inst., Los Banos, Philippine 2556	8 9
The Nature Conservancy	0.051
Furzebrook Research Station The Nature Conservancy, Abbots Ripton, Huntingdon, Engla	2064 and
Monks Wood Experimental Station	3131
The Ohio State University, Columbus Dept. Of Botany And Plant Pathology 2407	2550
The Ohio State University, Columbus Dept. Of Zoology And Entomology	2213
The Pennsylvania State University, Arendtsville Fruit Research Laboratory	5215
Fruit Research Laboratory The Pennsulvania State University, University Park	2050 2160
The Pennsylvania State University, University Park The Pennsylvania State University, University Park	2100
Dept. Of Botany And Plant Pathology The Research Station, Long Ashton, Bristol	2314 3218
The University, Allahabad, India Biochemistry Section	
Biochemistry Sectlon The Upjohn Co., Portland,oregon	2174 2298
Tobacco Substation, Delhi, Ontario	2907
Tokyo Medical And Dental University Dept. Of Physiology	2110
Tokyo University, Bunkyo-ku	
Zoological Institute Faculty Of Science	2073
Tree Fruit Experiment Station, Wenatchee, Wash.	2371
2847 Tropical Pesticides Research Institute, Arusha, Tanzania	a
3173	
Trust Territory Of The Pacific Islands, Ponape Plant Pathology Laboratory Tufts University, Medford, Mass.	2949
	2188
Dept. Of Biology U. S. Army Blological Lab., Fort Detrick, Frederick, Md.	
Crops Division	3237
U. S. Army Chemical Corps, Fort Detrick, Frederick, Md. 3275	
U. S. Army Chemical Corps, Ft. Detrick, Frederick, Md. 2280	
II. S. Army Natick Isboratories, Natick, Mass.	2190
U. S. Dept Of Agricultural, Orlando, Fla. Agricultural Marketing Service	
Market Quality Research Division	2841
U. S. Dept Of Agriculture Agricultural Research Service	
Crops Research Division	2325
U. S. Dept Of Agriculture Agricultural Research Service	
Entomology Research Servie	2053
U. S. Dept. Agriculture, Baton Rouge, La. Agricultural Research Service	
Crops Research Division	2618
U. S. Dept. Of Agricultural Agricultural Research Service	

IUNAL INDEX		
Crops Research Division		669
U. S. Dept. Of Agriculture U. S. Dept. Of Agriculture	2560 3	036
Agricultural Marketing Service		
Market Quality Research Division Stored-product Insects Branch	3	266
U. S. Dept. Of Agriculture Agricultural Research Division		
Agricultural Research Division Entomology Research Division		
Texas Agricultural Experiment Station	2	034
U. S. Dept. Of Agriculture Agricultural Research Service 2256	2434 2	492
2728 2983 3022 3048		
U. S. Dept. Of Agriculture Agricultural Research Service		
Crops Resarch Division	2	326
U. S. Dept. Of Agriculture Agricultural Research Service		
Crops Research Branch	2	594
U. S. Dept. Of Agriculture Agricultural Research Service		
Crops Research Division 2283	2285 2	292
2294 2308 2324 2341 2406 24 2447 2475 253D 2535 2536 25	28 2439 38 2542	
	93 2599	
	78 2779 77 2879	
2908 2937 2951 3006 3012 30	15 3031	
	33	
U. S. Dept. Of Agriculture Agricultural Research Service		
Crops Research Division		66D
American Refrigerator Transit Co. U. S. Dept. Of Agriculture	٤	000
Agricultural Research Service Crops Research Division		
Botany And Plant Pathology	2	427
U. S. Dept. Of Agriculture Agricultural Research Service		
Crops Research Division		
Fruit And Nut Crops Research Branch U. S. Dept. Of Agriculture	2	740
Agricultural Research Service		
Crops Research Division North Dakota Agricultural Experiment Station,	Fargo	
2873 2874		
U. S. Dept. Of Agriculture Agricultural Research Service		
Crops Research Division		
Oat Investigations U. S. Dept. Of Agriculture	3	262
Agricultural Research Service		
Crops Research Service Irrigation Experiment Station, Prosser, Wash.	2	824
U. S. Dept. Of Agriculture Agricultural Research Service		
Entomology Research Division 2017		139
2217 2218 2958 2968 3081 32 U. S. Dept. Of Agriculture	81 3285	
Agricultural Research Service		
Market Quality Research Division U. S. Dept. Of Agriculture	2	342
Agricultural Research Service		
Mississippi Experiment Statica, Meridan U. S. Dept. Of Agriculture	2	386
Agricultural Research Service		
Plant Pest Control Division Cooperative Rust Laboratory	2	852
U. S. Dept. Of Agriculture		
Agricultural Research Service Plant Quarantine And Crops Research Divisions	2	573
U. S. Dept. Of Agriculture		
Agricultural Research Service Tennessee Agricultural Experiment Station, Ja	ckson 3	023
U. S. Dept. Of Agriculture	enson a	
Agriculutral Research Service Crops Research Division	2	429
U. S. Dept. Of Agriculture		
Forest Service Beitsville Forest Disease Laboratory	2	384
U. S. Dept. Of Agriculture		
Forest Service Intermountain Forest And Range Experiment Sta	tion 2	924
U. S. Dept. Of Agriculture		
Forest Service Lake States Forest Experiment Station	2	588
U. S. Dept. Of Agriculture		
Forest Service Rocky Mountain Forest And Range Experiment St	ation 2	650
U. S. Dept. Of Agriculture		
	PA	GE

	ORGANIZ
Forest Service Southcastern Forest Experiment Station U. S. Dept. Of Agriculture	1992
Forest Service Southern Forest Experiment Station 2881 2882 U. S. Dept. Of Agriculture Forest Service	3098
Southern Forest Experiment Station, Stoneville, Miss. 288D U. S. Dept. Of Agriculture	
Idaho-North Dakota Agriculture Experiment Station Agricultural Research Service	
Crops Research Division U. S. Dept. Of Agriculture New Jersey Agricultural Experiment Station	242D
Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Albany, Ga.	29D2
Agricultural Research Service Crops Research Division 23S9 236D U.S. Dept. Of Agriculture, Ames, Iowa	2361
Agricultural Research Service Crops Research Division 2623 2625 U.S. Dept. Of Agriculture, Ashevilic, N.C.	2911
Forest Service Southeastern Forest Experiment Station 23D3 26D7 27SS 27S6	2319
U. S. Dept. Of Agricuiture, Asheville, N. C. Forest Service	
Southeastern Forest Experiment Station Division Of Forest Disease Research U. S. Dept. Of Agriculture, Asheville, N. C. Forest Service	2512
Southern Region Forest Insect And Disease Control Branch U. S. Dept. Of Agriculture, Saton Rouge, La.	2367
Agricuiturai Reaearch Service Crops Research Division U. S. Dept. Of Agricuiture, Baton Rouge, La.	2616
Agricultural Research Service Crops Research Divison U. S. Dept. Of Agriculture, Baton Rouge, La. Agricultural Reacarch Service	2617
Entomology Research Division 2098 2099 U. S. Dept. Of Agriculture, 8aton Rouge, La.	2152
Agricultural Résearch Service Plant Pest Control Division U. S. Dept. Of Agriculture, Baton Rouge, La.	2398
Entomology Research Division Agricultural Center University Station	2D93
U. S. Dept. Df Agriculture, Beitsville Md. Agricultural Reaearch Service Crops Research Division	3DS2
U. S. Dept. Of Agriculture, Beltsville, Md. Agricultural Remearch Center Insect Pathology Ploneering Research Laboratory	2114
211S U. S. Dept. Of Agriculture, Beltsville, Md.	
Agricultural Research Service Crops Research Division 2323 2517 2580 2648 2649 2690 2917 2918 292	2553
3D3D 3D9D 3242 3246 3247 3283 328 U. S. Dept. Of Agriculture, Beltsville, Md.	
Agricultural Research Service Crops Research Division Cereal Crops Research Branch	2689
U. S. Dept. Of Agricuiture, 8eltsville, Md. Agricuitural Reaearch Service Crops Research Division	
New Crops Research Branch U. S. Dept. Of Agriculture, Beitsville, Md.	2624
Agricultural Research Service Crops Research Divisions U. S. Dept. Of Agriculture, Beltsville, Md.	2365
Agricultural Research Service Entomology Research Division 2D12 2D24 212D 22D2 2212 2232 2977	2D63
U. S. Dept. Of Agriculture, Beltsville, Md. Agricultural Research Service	
Forest And Range Research Branch Crops Research Division U. S. Dept. Of Agriculture, Beltsville, Md.	2606
Agricultural Research Service Market Quality Research Division U. S. Dept. Of Agriculture, 8eitsville, Md.	3 D 9 1
Agricuitural Research Service Plant Industry Station Crops Research Division	2681
U. S. Dept. Of Agriculture, Beltsville, Md.	
PAGE 170	

Agricultural Research Service	
Piant Quarantine Division	2574
U. S. Dept. Of Agriculture, Beltsville, Md.	2014
Agriculture Research Service	
Crops Research Division	2579
U. S. Dept. Of Agricuiture, Beltsvlile, Md. Crops Research Division	2829
U. S. Dept. Of Agricuiture, Beltsviile, Md.	2029
Crops Research Division	
Plant Virology Laboratory	803S
U. S. Dept. Of Agriculture, Berkeley, Calif.	
Agricultural Research Service	2426
Entomology Research Division U. S. Dept. Of Agricuiture, Berkeley, Calif.	2436
Forest Service	
Pacific Southwest Forest And Range Experiment Station	
29DS	
U. S. Dept. Of Acriculture, Bozeman, Mont.	
Agricultural Research Service Entomology Research Division 2076	2137
U. S. Dept. Of Agriculture, Brookings, S. Dak.	2157
Agricultural Research Service	
Entomology Research Division	2D9D
U. S. Dept. Of Agriculture, Brookings, South Dakota	
Agricultural Research Service	00.04
Entomology Research Division U. S. Dept. Of Agricuiture, Brownsville, Tex	28 S4
Agricultural Research Service	
Entomology Research Division	21D2
U. S. Dept. Of Agriculture, Brownsville, Tex.	
Agricultural Research Service	
Entomology Research Division 2DS8 2997	2998
3177	
U. S. Dept. Of Agriculture, Canal Point, Fla. Agricultural Research Service	
Crops Research Division	2276
U. S. Dept. Of Agriculture, Chicago, Ill.	
Agricultural Marketing Service	
Market Quality Research Division	2637
U. S. Dept. Of Agriculture, College Station, Tex.	
Agricultural Research Service Cropa Research Division	2776
U. S. Dept. Of Agriculture, College Station, Tex.	2110
Agricultural Research Service	
Entomology Research Division 2147	2216
U. S. Dept. Of Agriculture, College Station, Tex.	
Agricultural Research Service	
Entomology Research Division Crops Reaearch Division	3128
U. S. Dept. Of Agriculture, Corvailis, Ore.	0.20
Agricultural Research Service	
Cropa Reaearch Division 2671	2672
U. S. Dept. Of Agriculture, Corvallis, Ore.	
Agricultural Research Service	
Entonology Research Division 2088 2177	2189
Entomology Research Division 2088 2177	2189
U. S. Dept. Of Agriculture, Corvallis, Oregon	2189
	2189 267D
U. S. Dept. Of Agriculture, Corvallis, Oregon Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Delaware, Ohio	
U. S. Dept. Of Agriculture, Corvallis, Oregon Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Delaware, Ohio Forest Service	
 U. S. Dept. Of Agriculture, Corvallis, Oregon Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Delaware, Ohio Forest Service Central States Forest Experiment Station 	26 7 D
U. S. Dept. Of Agriculture, Corvallis, Oregon Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Delaware, Ohlo Forest Service Central States Forest Experiment Station Foreat Disease Laboratory 257D	
U. S. Dept. Of Agriculture, Corvallis, Oregon Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Delaware, Ohio Forest Service Central States Forest Experiment Station Forest Disease Laboratory U. S. Dept. Of Agriculture, Delaware, Ohio	26 7 D
U. S. Dept. Of Agriculture, Corvallis, Oregon Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Delaware, Ohlo Forest Service Central States Forest Experiment Station Foreat Disease Laboratory U. S. Dept. Of Agriculture, Delaware, Ohlo Forest Service Central States Forest Experiment Station	267D 2571
U. S. Dept. Of Agriculture, Corvallis, Oregon Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Delaware, Ohlo Forest Service Central States Forest Experiment Station Foreat Disease Laboratory U. S. Dept. Of Agriculture, Delaware, Ohlo Forest Service Central States Forest Experiment Station Forest Insect And Disease Laboratory	26 7 D
 U. S. Dept. Of Agriculture, Corvallis, Oregon Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Delaware, Ohio Forest Service Central States Forest Experiment Station Forest Disease Laboratory 257D U. S. Dept. Of Agriculture, Delaware, Ohio Forest Insect And Disease Laboratory U. S. Dept. Of Agriculture, Durant Station Forest Insect Service 	267D 2571
U. S. Dept. Of Agriculture, Corvallis, Oregon Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Delaware, Ohio Forest Service Central States Forest Experiment Station Forest Disease Laboratory U. S. Dept. Of Agriculture, Delaware, Ohio Forest Service Central States Forest Experiment Station Forest Insect And Disease Laboratory U. S. Dept. Of Agriculture, Durham, N. C. Forest Service	267D 2571
 U. S. Dept. Of Agriculture, Corvallis, Oregon Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Delaware, Ohio Forest Service Central States Forest Experiment Station Forest Disease Laboratory 257D U. S. Dept. Of Agriculture, Delaware, Ohio Forest Service Central States Forest Experiment Station Forest Insect And Disease Laboratory U. S. Dept. Of Agriculture, Purham, N. C. Forest Service Southeestern Forest Experiment Station 	267D 2571 2396
 U. S. Dept. Of Agriculture, Corvallis, Oregon Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Delaware, Ohio Forest Service Central States Forest Experiment Station Forest Disease Laboratory U. S. Dept. Of Agriculture, Delaware, Ohio Forest Service Central States Forest Experiment Station Forest Insect And Disease Laboratory U. S. Dept. Of Agriculture, Durham, N. C. Forest Service Southeastern Forest Experiment Station Forest Service 	267D 2571
 U. S. Dept. Of Agriculture, Corvallis, Oregon Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Delaware, Ohio Forest Service Central States Forest Experiment Station Forest Disease Laboratory 257D U. S. Dept. Of Agriculture, Delaware, Ohio Forest Service Central States Forest Experiment Station Forest Insect And Disease Laboratory U. S. Dept. Of Agriculture, Purham, N. C. Forest Service Southeestern Forest Experiment Station 	267D 2571 2396 3260
 U. S. Dept. Of Agriculture, Corvallis, Oregon Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Delaware, Ohlo Forest Service Central States Forest Experiment Station Forest Disease Laboratory U. S. Dept. Of Agriculture, Delaware, Ohlo Forest Service Central States Forest Experiment Station Forest Insect And Disease Laboratory U. S. Dept. Of Agriculture, Durham, N. C. Forest Service Southeastern Forest Experiment Station Forest Service U. S. Dept. Of Agriculture, Forenet Station Forest Service Southeastern Forest Experiment Station Forestry Sciences Laboratory U. S. Dept. Of Agriculture, Florence Agricultural Research Service Entomology Research Division 	267D 2571 2396
 U. S. Dept. Of Agriculture, Corvallis, Oregon Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Delaware, Ohio Forest Service Central States Forest Experiment Station Forest Disease Laboratory 257D U. S. Dept. Of Agriculture, Delaware, Ohio Forest Insect And Disease Laboratory U. S. Dept. Of Agriculture, Durham, N. C. Forest Service Southeastern Forest Experiment Station Forest Service Southeastern Forest Experiment Station Forest Service Southeastern Forest Experiment Station Foresty Sciences Laboratory U. S. Dept. Of Agriculture, Durham, N. C. Forest Service Southeastern Forest Experiment Station Forestry Sciences Laboratory U. S. Dept. Of Agriculture, Florence Agricultural Research Service Entomology Research Division U. S. Dept. Of Agriculture, Florence, S C 	267D 2571 2396 3260
 U. S. Dept. Of Agriculture, Corvallis, Oregon Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Delaware, Ohlo Forest Service Central States Forest Experiment Station Foreat Disease Laboratory U. S. Dept. Of Agriculture, Delaware, Ohlo Forest Service Central States Forest Experiment Station Forest Insect And Disease Laboratory U. S. Dept. Of Agriculture, Durham, N. C. Forest Service Southeastern Forest Experiment Station Forestry Sciences Laboratory U. S. Dept. Of Agriculture, Florence Agricultural Research Service Entomology Research Division U. S. Dept. Of Agriculture, Florence, S C Agricultural Research Service 	267D 2571 2396 3260 3292
 U. S. Dept. Of Agriculture, Corvallis, Oregon Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Delaware, Ohio Forest Service Central States Forest Experiment Station Forest Disease Laboratory U. S. Dept. Of Agriculture, Delaware, Ohio Forest Service Central States Forest Experiment Station Forest Insect And Disease Laboratory U. S. Dept. Of Agriculture, Durham, N. C. Forest Service Southeastern Forest Experiment Station Forest Service U. S. Dept. Of Agriculture, Florence Agricultural Research Service Entomology Research Division U. S. Dept. Of Agriculture, Florence, S C Agricultural Research Service Entomology Research Service 	267D 2571 2396 3260
 U. S. Dept. Of Agriculture, Corvallis, Oregon Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Delaware, Ohio Forest Service Central States Forest Experiment Station Forest Disease Laboratory U. S. Dept. Of Agriculture, Delaware, Ohio Forest Insect And Disease Laboratory U. S. Dept. Of Agriculture, Durham, N. C. Forest Service Southeastern Forest Experiment Station Forest Service U. S. Dept. Of Agriculture, Durham, N. C. Forest Service Southeastern Forest Experiment Station Forestry Sciences Laboratory U. S. Dept. Of Agriculture, Florence Agricultural Research Service Entomology Research Division U. S. Dept. Of Agriculture, Florence, S C Agricultural Research Service Entomology Research Division U. S. Dept. Of Agriculture, Florence, S. C. 	267D 2571 2396 3260 3292
 U. S. Dept. Of Agriculture, Corvallis, Oregon Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Delaware, Ohio Forest Service Central States Forest Experiment Station Forest Disease Laboratory U. S. Dept. Of Agriculture, Delaware, Ohio Forest Service Central States Forest Experiment Station Forest Insect And Disease Laboratory U. S. Dept. Of Agriculture, Durham, N. C. Forest Service Southeastern Forest Experiment Station Forest Service U. S. Dept. Of Agriculture, Plorence Agricultural Research Service Entomology Research Division U. S. Dept. Of Agriculture, Florence, S. C. Agricultural Research Service Entomology Research Service Entomology Research Service Entomology Research Service Entomology Research Division U. S. Dept. Of Agriculture, Florence, S. C. Agricultural Research Service Entomology Research Division U. S. Dept. Of Agriculture, Service Entomology Research Division U. S. Dept. Of Agriculture, Service Entomology Research Division U. S. Dept. Of Agriculture, Service Entomology Research Service 	267D 2571 2396 3260 3292
 U. S. Dept. Of Agriculture, Corvallis, Oregon Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Delaware, Ohlo Forest Service Central States Forest Experiment Station Foreat Disease Laboratory U. S. Dept. Of Agriculture, Delaware, Ohlo Forest Service Central States Forest Experiment Station Forest Insect And Disease Laboratory U. S. Dept. Of Agriculture, Durham, N. C. Forest Service Southeastern Forest Experiment Station Forest Service U. S. Dept. Of Agriculture, Florence Agricultural Research Service Entomology Research Division U. S. Dept. Of Agriculture, Florence, S C Agricultural Research Service Entomology Research Division U. S. Dept. Of Agriculture, Florence, S. C. Agricultural Research Service Entomology Research Division U. S. Dept. Of Agriculture, Florence, S. C. Agricultural Research Service Entomology Research Division U. S. Dept. Of Agriculture, Florence, S. C. Agricultural Research Service Entomology Research Division U. S. Dept. Of Agriculture, Florence, S. C. Agricultural Research Service Entomology Research Division U. S. Dept. Of Agriculture, Florence, Cre. 	267D 2571 2396 3260 3292 22D8
 U. S. Dept. Of Agriculture, Corvallis, Oregon Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Delaware, Ohio Forest Service Central States Forest Experiment Station Forest Disease Laboratory U. S. Dept. Of Agriculture, Delaware, Ohio Forest Service Central States Forest Experiment Station Forest Insect And Disease Laboratory U. S. Dept. Of Agriculture, Durham, N. C. Forest Service Southeastern Forest Experiment Station Forest Service U. S. Dept. Of Agriculture, Durham, N. C. Forest Service Southeastern Forest Experiment Station Forestry Sciences Laboratory U. S. Dept. Of Agriculture, Florence Agricultural Research Service Entomology Research Division U. S. Dept. Of Agriculture, Florence, S C Agricultural Research Service Entomology Research Division U. S. Dept. Of Agriculture, Florence, S. C. Agricultural Research Service Entomology Research Division U. S. Dept. Of Agriculture, Florence, S. C. Agricultural Research Service Entomology Research Division U. S. Dept. Of Agriculture, Florence, S. C. Agricultural Research Service Entomology Research Division U. S. Dept. Of Agriculture, Forest Grove, Ore. Agricultural Research Service 	267D 2571 2396 3260 3292 22D8 31 S4
 U. S. Dept. Of Agriculture, Corvallis, Oregon Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Delaware, Ohlo Forest Service Central States Forest Experiment Station Forest Disease Laboratory U. S. Dept. Of Agriculture, Delaware, Ohlo Forest Service Central States Forest Experiment Station Forest Insect And Disease Laboratory U. S. Dept. Of Agriculture, Durham, N. C. Forest Service Southeastern Forest Experiment Station Forest Py Center Station For	267D 2571 2396 3260 3292 22D8
 U. S. Dept. Of Agriculture, Corvallis, Oregon Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Delaware, Ohlo Forest Service Central States Forest Experiment Station Forest Disease Laboratory U. S. Dept. Of Agriculture, Delaware, Ohlo Forest Service Central States Forest Experiment Station Forest Insect And Disease Laboratory U. S. Dept. Of Agriculture, Durham, N. C. Forest Service Southeastern Forest Experiment Station Forest Service Southeastern Forest Experiment Station Forest Service Boutheastern Forest Experiment Station S. Dept. Of Agriculture, Florence, Agricultural Research Service Entomology Research Division U. S. Dept. Of Agriculture, Florence, S. C. Agricultural Research Service Entomology Research Division U. S. Dept. Of Agriculture, Forest Grove, Ore. Agricultural Research Service Entomology Research Division U. S. Dept. Of Agriculture, Forest Grove, Ore. Agricultural Research Service Entomology Research Division U. S. Dept. Of Agriculture, Forest Grove, Ore. Agricultural Research Service Entomology Research Division U. S. Dept. Of Agriculture, Forest Grove, Ore. Agricultural Research Service Entomology Research Division U. S. Dept. Of Agriculture, Fore Collins, Col. 	267D 2571 2396 3260 3292 22D8 31 S4
 U. S. Dept. Of Agriculture, Corvallis, Oregon Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Delaware, Ohlo Forest Service Central States Forest Experiment Station Forest Disease Laboratory U. S. Dept. Of Agriculture, Delaware, Ohlo Forest Service Central States Forest Experiment Station Forest Insect And Disease Laboratory U. S. Dept. Of Agriculture, Durham, N. C. Forest Service Southeastern Forest Experiment Station Forest Py Center Station For	267D 2571 2396 3260 3292 22D8 31 S4
 U. S. Dept. Of Agriculture, Corvallis, Oregon Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Delaware, Ohio Forest Service Central States Forest Experiment Station Forest Disease Laboratory U. S. Dept. Of Agriculture, Delaware, Ohio Forest Service Central States Forest Experiment Station Forest Insect And Disease Laboratory U. S. Dept. Of Agriculture, Durham, N. C. Forest Service Southeastern Forest Experiment Station Forest Service U. S. Dept. Of Agriculture, Florence Agricultural Research Service Entomology Research Division U. S. Dept. Of Agriculture, Florence, S C Agricultural Research Service Entomology Research Division U. S. Dept. Of Agriculture, Florence, S. C. Agricultural Research Service Entomology Research Division U. S. Dept. Of Agriculture, Florence, S. C. Agricultural Research Service Entomology Research Division U. S. Dept. Of Agriculture, Florence, S. C. Agricultural Research Service Entomology Research Division U. S. Dept. Of Agriculture, Forest Grove, Ore. Agricultural Research Service Entomology Research Division U. S. Dept. Of Agriculture, Forest Grove, Ore. Agricultural Research Service Entomology Research Division U. S. Dept. Of Agriculture, Fort Collins, Col. Forest Service Rocky Mountain Forest And Range Experiment Station U. S. Dept. Of Agriculture, Fort Collins, Colo. 	267D 2S71 2396 3260 3292 22D8 31 S4 2D28
 U. S. Dept. Of Agriculture, Corvallis, Oregon Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Delaware, Ohlo Forest Service Central States Forest Experiment Station Forest Disease Laboratory 2S7D U. S. Dept. Of Agriculture, Delaware, Ohlo Forest Service Central States Forest Experiment Station Forest Insect And Disease Laboratory U. S. Dept. Of Agriculture, Durham, N. C. Forest Service Southeastern Forest Experiment Station Forestry Sclences Laboratory U. S. Dept. Of Agriculture, Florence Agricultural Research Service Entomology Research Division U. S. Dept. Of Agriculture, Florence, S C Agricultural Research Service Entomology Research Division U. S. Dept. Of Agriculture, Florence, S. C. Agricultural Research Service Entomology Research Division U. S. Dept. Of Agriculture, Forest Grove, Ore. Agricultural Research Service Entomology Research Division U. S. Dept. Of Agriculture, Forest Grove, Ore. Agricultural Research Service Entomology Research Division U. S. Dept. Of Agriculture, Forest Grove, Ore. Agricultural Research Service Entomology Research Division U. S. Dept. Of Agriculture, Fort Collins, Col. Forest Service Rocky Mountain Forest And Range Experiment Station U. S. Dept. Of Agriculture, Fort Collins, Colo. Forest Service 	267D 2571 2396 3260 3292 22D8 3154 2D28 2626
 U. S. Dept. Of Agriculture, Corvallis, Oregon Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Delaware, Ohio Forest Service Central States Forest Experiment Station Forest Disease Laboratory 257D U. S. Dept. Of Agriculture, Delaware, Ohio Forest Service Central States Forest Experiment Station Forest Insect And Disease Laboratory U. S. Dept. Of Agriculture, Durham, N. C. Forest Service Southeastern Forest Experiment Station Forest Service Southeastern Forest Experiment Station Forestry Sciences Laboratory U. S. Dept. Of Agriculture, Florence Agricultural Research Service Entomology Research Division U. S. Dept. Of Agriculture, Florence, S C Agricultural Research Service Entomology Research Division U. S. Dept. Of Agriculture, Florence, S. C. Agricultural Research Service Entomology Research Division U. S. Dept. Of Agriculture, Florence, S. C. Agricultural Research Service Entomology Research Division U. S. Dept. Of Agriculture, Forest Grove, Ore. Agricultural Research Service Entomology Research Division U. S. Dept. Of Agriculture, Forest Grove, Ore. Agricultural Research Service Entomology Research Division U. S. Dept. Of Agriculture, Fort Collins, Col. Forest Service Rocky Mountain Forest And Range Experiment Station U. S. Dept. Of Agriculture, Fort Collins, Colo. Forest Service Rocky Mountain Forest And Range Experiment Station 	267D 2S71 2396 3260 3292 22D8 31 S4 2D28
 U. S. Dept. Of Agriculture, Corvallis, Oregon Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Delaware, Ohlo Forest Service Central States Forest Experiment Station Forest Disease Laboratory 2S7D U. S. Dept. Of Agriculture, Delaware, Ohlo Forest Service Central States Forest Experiment Station Forest Insect And Disease Laboratory U. S. Dept. Of Agriculture, Durham, N. C. Forest Service Southeastern Forest Experiment Station Forestry Sclences Laboratory U. S. Dept. Of Agriculture, Florence Agricultural Research Service Entomology Research Division U. S. Dept. Of Agriculture, Florence, S C Agricultural Research Service Entomology Research Division U. S. Dept. Of Agriculture, Florence, S. C. Agricultural Research Service Entomology Research Division U. S. Dept. Of Agriculture, Forest Grove, Ore. Agricultural Research Service Entomology Research Division U. S. Dept. Of Agriculture, Forest Grove, Ore. Agricultural Research Service Entomology Research Division U. S. Dept. Of Agriculture, Forest Grove, Ore. Agricultural Research Service Entomology Research Division U. S. Dept. Of Agriculture, Fort Collins, Col. Forest Service Rocky Mountain Forest And Range Experiment Station U. S. Dept. Of Agriculture, Fort Collins, Colo. Forest Service 	267D 2571 2396 3260 3292 22D8 3154 2D28 2626

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Agricultural Research Service	
Market Quality Research Division Stored-product Insects 8ranch	3092
U. S. Dept. Of Agricuiture, Gainesviiie, Fla. Agricultural Research Service	
Entomology Research Division 2083 2	084 2105
2165 2192 U. S. Dept. Of Agriculture, Guifport, Miss.	
U. S. Dept. Of Agricuiture, Guifport, Miss. Agriculturai Research Service	
Piant Pest Control Division 2 U. S. Dept. Df Agriculture, Guifport, Miss.	150 3149
Forest Service	
Southern Forest Experiment Station U. S. Dept. Of Agriculture, Hoboken, N. J.	3122
Agricuitural Research Service	
Plant Quarantine Division U. S. Dept. Of Agricuiture, Honolulu, Hawaii	2413
Agricuitural Research Division	
Entomology Research Division U. S. Dept. Df Agriculture, Houma, La.	2963
Agricultural Research Service	
Crops Research And Entomology Research Divisions U. S. Dept. Of Agricuiture, Houma, La.	29\$3
Agricuitural Research Service	
Entomology Research Division U. S. Dept. Of Agriculture, Kerrville, Tex.	3141
Agricuitural Research Service	
Animai Disease And Parasite Research Division 3161	3116
U. S. Dept. Of Agriculture, Kerrville, Tex. Agricultural Research Service	
Agricuiturai Research Service Entomology Research Division 24	072 3132
U. S. Dept. Of Agricuiture, La Jolia, Calif. Agricuitural Research Service	
Agricultural Research Service Crops Research Division	2316
U. S. Dept. Of Agricuiture, Laconia, N. H.	
Forest Service Northeastern Forest Experiment Station	2822
U. S. Dept. Of Agricuiture, LaJolia, Calif. Agricuiturai Research Service	
Crops Research Division	2317
U. S. Dept. Of Agriculture, Lincoln, Neb. Agricultural Research Service	
Entomology Research Division	
Entomotogy Research Division	3082
U. S. Dept. Of Agriculture, Lincoln, Neb.	3082
U. S. Dept. Of Agriculture, Lincoln, Neb. Agriculturai Research Service Entomology Research Division And Crops Research 1	
U. S. Dept. Of Agriculture, Lincoln, Neb. Agriculturai Research Service Entomology Research Division And Crops Research 1 2018	
 U. S. Dept. Of Agriculture, Lincoln, Neb. Agricultural Research Service Entomology Research Division And Crops Research 1 2018 U. S. Dept. Of Agriculture, Logan, Utah Agricultural Research Service 	Divislon
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 U. S. Dept. Of Agriculture, Lincoln, Neb. Agriculturai Research Service Entomology Research Division And Crops Research 1 2018 U. S. Dept. Of Agriculture, Logan, Utah Agricultural Research Service Animal Disease And Parasite Research Division U. S. Dept. Of Agriculture, Logan, Utah Agriculturai Research Service Crops Research Division 	Divislon
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 U. S. Dept. Of Agriculture, Lincoln, Neb. Agriculturai Research Service Entomology Research Division And Crops Research 1 2018 U. S. Dept. Of Agriculture, Logan, Utah Agricultural Research Service Animal Disease And Parasite Research Division U. S. Dept. Of Agriculture, Logan, Utah Agriculturai Research Service Crops Research Division U. S. Dept. Of Agriculture, Logan, Utah Utah Agricultural Experiment Station Agricultural Research Service 	Division 3127 2807
 U. S. Dept. Of Agriculture, Lincoln, Neb. Agriculturai Research Service Entomology Research Division And Crops Research 1 2018 U. S. Dept. Of Agriculture, Logan, Utah Agricultural Research Service Animal Disease And Parasite Research Division U. S. Dept. Of Agriculture, Logan, Utah Agriculturai Research Service Crops Research Division U. S. Dept. Of Agriculture, Logan, Utah Utah Agriculturai Experiment Station Agriculturai Research Service Crops Research Division U. S. Dept. Of Agriculture, Logan, Utah Utah Agriculturai Research Service Crops Research Division U. S. Dept. Of Agriculture, Madison, Wis 	0 i v i s lon 3127 2807 2952
 U. S. Dept. Of Agriculture, Lincoln, Neb. Agriculturai Research Service Entomology Research Division And Crops Research 1 2018 U. S. Dept. Of Agriculture, Logan, Utah Agricultural Research Service Animal Disease And Parasite Research Division U. S. Dept. Of Agriculture, Logan, Utah Agriculturai Research Service Crops Research Division U. S. Dept. Of Agriculture, Logan, Utah Utah Agriculturai Experiment Station Agriculturai Research Service Crops Research Division U. S. Dept. Of Agriculture, Logan, Utah Utah Agriculturai Research Service Crops Research Division U. S. Dept. Of Agriculture, Madison, Wis 	0 i v i s lon 3127 2807 2952
 U. S. Dept. Of Agriculture, Lincoln, Neb. Agriculturai Research Service Entomology Research Division And Crops Research 1 2018 U. S. Dept. Of Agriculture, Logan, Utah Agricultural Research Service Animal Disease And Parasite Research Division U. S. Dept. Of Agriculture, Logan, Utah Agriculturai Research Service Crops Research Division U. S. Dept. Of Agriculture, Logan, Utah Utah Agricultural Experiment Station Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Madison, Wis Market Quality Research Div., Agricultural Market Stored-product Insects Laboratory 	0 i v i s lon 3127 2807 2952
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 U. S. Dept. Of Agriculture, Lincoln, Neb. Agricultural Research Service Entomology Research Division And Crops Research 1 2018 U. S. Dept. Of Agriculture, Logan, Utah Agricultural Research Service Animal Disease And Parasite Research Division U. S. Dept. Of Agriculture, Logan, Utah Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Logan, Utah Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Logan, Utah Utah Agricultural Experiment Station Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Madison, Wis Market Quality Research Div., Agricultural Market Stored-product Insects Laboratory D. S. Dept. Of Agriculture, Mahattan, Kan. Agricultural Research Service Crops Research Division 	Division 3127 2807 2952 ting Service
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 U. S. Dept. Of Agriculture, Lincoln, Neb. Agriculturai Research Service Entomology Research Division And Crops Research 1 2018 S. Dept. Of Agriculture, Logan, Utah Agricultural Research Service Animal Disease And Parasite Research Division U. S. Dept. Of Agriculture, Logan, Utah Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Logan, Utah Magricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Logan, Utah Utah Agricultural Experiment Station Agriculturai Research Service Crops Research Division U. S. Dept. Of Agriculture, Madlson, Wis Market Quality Research Div., Agricultural Market Stored-product Insects Laboratory U. S. Dept. Of Agriculture, Manhattan, Kan. Agriculturai Research Service Crops Research Division U. S. Dept. Of Agriculture, Manhattan, Kans. Agriculturai Research Service Crops Research Division 	Division 3127 2807 2952 ting Service 2155
 U. S. Dept. Of Agriculture, Lincoln, Neb. Agriculturai Research Service Entomology Research Division And Crops Research 1 2018 S. Dept. Of Agriculture, Logan, Utah Agricultural Research Service Animal Disease And Parasite Research Division U. S. Dept. Of Agriculture, Logan, Utah Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Logan, Utah Magricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Logan, Utah Utah Agricultural Experiment Station Agriculturai Research Service Crops Research Division U. S. Dept. Of Agriculture, Madlson, Wis Market Quality Research Div., Agricultural Market Stored-product Insects Laboratory U. S. Dept. Of Agriculture, Manhattan, Kan. Agriculturai Research Service Crops Research Division U. S. Dept. Of Agriculture, Manhattan, Kans. Agriculturai Research Service Crops Research Division 	Division 3127 2807 2952 ting Service 2155 2564
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 U. S. Dept. Of Agriculture, Lincoln, Neb. Agriculturai Research Service Entomology Research Division And Crops Research 1 2018 U. S. Dept. Of Agriculture, Logan, Utah Agricultural Research Service Animal Disease And Parasite Research Division U. S. Dept. Of Agriculture, Logan, Utah Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Logan, Utah Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Logan, Utah Agricultural Experiment Station Agricultural Experiment Station Agricultural Experiment Station Agricultural Experiment Station Agricultural Research Division U. S. Dept. Of Agriculture, Madlson, Wis Market Quality Research Div., Agricultural Market Stored-product Insects Laboratory U. S. Dept. Of Agriculture, Manhattan, Kan. Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Manhattan, Kans. Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Mayaguez, Puerto Rica Agricultural Research Service Crops Research Division S. Dept. Of Agriculture, Mayaguez, Puerto Rica Agricultural Research Service Crops Research Division S. Dept. Of Agriculture, Mayaguez, Puerto Rica Agricultural Research Service Crops Research Division S. Dept. Of Agriculture, Mayaguez, Puerto Rica Agricultural Research Service 	Division 3127 2807 2952 ting Service 2155 2564 3255
 U. S. Dept. Of Agriculture, Lincoln, Neb. Agricultural Research Service Entomology Research Division And Crops Research 1 2018 U. S. Dept. Of Agriculture, Logan, Utah Agricultural Research Service Animal Disease And Parasite Research Division U. S. Dept. Of Agriculture, Logan, Utah Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Logan, Utah Magricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Logan, Utah Utah Agricultural Experiment Station Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Madison, Wis Market Quality Research Div., Agricultural Market Stored-product Insects Laboratory Dairy-product Insects Laboratory U. S. Dept. Of Agriculture, Manhattan, Kan. Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Manhattan, Kans. Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Mayaguez, Puerto Rica Agricultural Research Service Crops Research Division S. Dept. Of Agriculture, Mayaguez, Puerto Rica Agricultural Research Service Crops Research Division Federal Experiment Station U. S. Dept. Of Agriculture, Mayaguez, Puerto Rico Agricultural Research Service 	Division 3127 2807 2952 ting Service 2155 2564 3255
 U. S. Dept. Of Agriculture, Lincoln, Neb. Agricultural Research Service Entomology Research Division And Crops Research 1 2018 U. S. Dept. Of Agriculture, Logan, Utah Agricultural Research Service Animal Disease And Parasite Research Division U. S. Dept. Of Agriculture, Logan, Utah Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Logan, Utah Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Logan, Utah Utah Agricultural Experiment Station Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Madison, Wis Market Quality Research Div., Agricultural Market Stored-product Insects Laboratory U. S. Dept. Of Agriculture, Manhattan, Kan. Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Manhattan, Kans. Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Manhattan, Kans. Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Manhattan, Kans. Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Mayaguez, Puerto Rica Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Mayaguez, Puerto Rico Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Mayaguez, Puerto Rico Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Mayaguez, Puerto Rico Agricultural Research Service Crops Research Division S. Dept. Of Agriculture, Mayaguez, Puerto Rico Agricultural Research Service Crops Research Division Federal Experiment Station U. S. Dept. Of Agriculture, Mayaguez, Puerto Rico 	Division 3127 2807 2952 ting Service 21SS 2564 32SS 2792
 U. S. Dept. Of Agriculture, Lincoln, Neb. Agricultural Research Service Entomology Research Division And Crops Research 1 2018 U. S. Dept. Of Agriculture, Logan, Utah Agricultural Research Service Animal Disease And Parasite Research Division U. S. Dept. Of Agriculture, Logan, Utah Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Logan, Utah Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Logan, Utah Utah Agricultural Experiment Station Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Madison, Wis Market Quality Research Div., Agricultural Market Stored-product Insects Laboratory U. S. Dept. Of Agriculture, Manhattan, Kan. Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Manhattan, Kans. Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Manhattan, Kans. Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Manhattan, Kans. Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Mayaguez, Puerto Rica Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Mayaguez, Puerto Rico Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Mayaguez, Puerto Rico Agricultural Research Service Crops Research Division Federal Experiment Station U. S. Dept. Of Agriculture, Mayaguez, Puerto Rico Crops Research Division Pathet Division Pederal Experiment Station U. S. Dept. Of Agriculture, Mayaguez, Puerto Rico Crops Research Division Pederal Experiment Station 	Division 3127 2807 2952 ting Service 21SS 2564 32SS 2792
 U. S. Dept. Of Agriculture, Lincoln, Neb. Agricultural Research Service Entomology Research Division And Crops Research 1 2018 U. S. Dept. Of Agriculture, Logan, Utah Agricultural Research Service Animal Disease And Parasite Research Division U. S. Dept. Of Agriculture, Logan, Utah Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Logan, Utah Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Logan, Utah Utah Agricultural Experiment Station Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Madison, Wis Market Quality Research Div., Agricultural Market Stored-product Insects Laboratory U. S. Dept. Of Agriculture, Manhattan, Kan. Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Manhattan, Kans. Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Manhattan, Kans. Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Manhattan, Kans. Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Mayaguez, Puerto Rica Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Mayaguez, Puerto Rico Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Mayaguez, Puerto Rico Agricultural Research Service Crops Research Division Federal Experiment Station U. S. Dept. Of Agriculture, Mayaguez, Puerto Rico Crops Research Division Pathet Division Pederal Experiment Station U. S. Dept. Of Agriculture, Mayaguez, Puerto Rico Crops Research Division Pederal Experiment Station 	Division 3127 2807 2952 ting Service 21SS 2564 32SS 2792 2334
 U. S. Dept. Of Agriculture, Lincoln, Neb. Agricultural Research Service Entomology Research Division And Crops Research 1 2018 S. Dept. Of Agriculture, Logan, Utah Agricultural Research Service Animal Disease And Parasite Research Division U. S. Dept. Of Agriculture, Logan, Utah Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Logan, Utah Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Logan, Utah Utah Agricultural Experiment Station Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Madison, Wis Market Quality Research Div., Agricultural Market Stored-product Insects Laboratory U. S. Dept. Of Agriculture, Manhattan, Kan. Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Manhattan, Kans. Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Manhattan, Kans. Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Manhattan, Kans. Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Mayaguez, Puerto Rica Agricultural Research Service Crops Research Division Federal Experiment Station U. S. Dept. Of Agriculture, Mayaguez, Puerto Rico Agricultural Research Service Crops Research Division Federal Experiment Station U. S. Dept. Of Agriculture, Mayaguez, Puerto Rico Agricultural Research Service Crops Research Division Federal Experiment Station U. S. Dept. Of Agriculture, Mayaguez, Puerto Rico Agricultural Research Service Crops Research Division Federal Experiment Station U. S. Dept. Of Agriculture, Mayaguez, Puerto Rico Crops Research Division Federal Experiment Station U. S. Dept. Of Agriculture, Mayaguez, Puerto Rico Crops Research Division Federal Experiment Station U. S. D	Division 3127 2807 2952 ting Service 21SS 2564 32SS 2792 2334
 U. S. Dept. Of Agriculture, Lincoln, Neb. Agricultural Research Service Entomology Research Division And Crops Research 1 2018 S. Dept. Of Agriculture, Logan, Utah Agricultural Research Service Animal Disease And Parasite Research Division U. S. Dept. Of Agriculture, Logan, Utah Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Logan, Utah Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Logan, Utah Utah Agricultural Experiment Station Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Madison, Wis Market Quality Research Div., Agricultural Market Stored-product Insects Laboratory U. S. Dept. Of Agriculture, Manhattan, Kan. Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Manhattan, Kans. Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Manhattan, Kans. Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Manhattan, Kans. Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Mayaguez, Puerto Rica Agricultural Research Service Crops Research Division Federal Experiment Station U. S. Dept. Of Agriculture, Mayaguez, Puerto Rico Agricultural Research Service Crops Research Division Federal Experiment Station U. S. Dept. Of Agriculture, Mayaguez, Puerto Rico Agricultural Research Service Crops Research Division Federal Experiment Station U. S. Dept. Of Agriculture, Mayaguez, Puerto Rico Agricultural Research Service Crops Research Division Federal Experiment Station U. S. Dept. Of Agriculture, Mayaguez, Puerto Rico Crops Research Division Federal Experiment Station U. S. Dept. Of Agriculture, Mayaguez, Puerto Rico Crops Research Division Federal Experiment Station U. S. D	Division 3127 2807 2952 ting Service 21SS 2564 32SS 2792 2334 2662
 U. S. Dept. Of Agriculture, Lincoln, Neb. Agricultural Research Service Entomology Research Division And Crops Research 1 2018 S. Dept. Of Agriculture, Logan, Utah Agricultural Research Service Animal Disease And Parasite Research Division U. S. Dept. Of Agriculture, Logan, Utah Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Logan, Utah Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Logan, Utah Utah Agricultural Experiment Station Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Madlson, Wis Market Quality Research Div., Agricultural Market Stored-product Insects Laboratory U. S. Dept. Of Agriculture, Manhattan, Kan. Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Manhattan, Kans. Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Mayaguez, Puerto Rica Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Mayaguez, Puerto Rica Agricultural Research Service Crops Research Division S. Dept. Of Agriculture, Mayaguez, Puerto Rico Agricultural Research Service Crops Research Division S. Dept. Of Agriculture, Mayaguez, Puerto Rico Agricultural Research Service Crops Research Division Federal Experiment Station U. S. Dept. Of Agriculture, Mayaguez, Puerto Rico Agricultural Research Service Crops Research Division Federal Experiment Station U. S. Dept. Of Agriculture, Mesa, Ariz. Agricultural Research Service Crops Research Division Federal Experiment Station U. S. Dept. Of Agriculture, Mexico City, Mexico Agricultural Research Service Entomology Research Division 24 	Division 3127 2807 2952 ting Service 21SS 2564 32SS 2792 2334 2662
 U. S. Dept. Of Agriculture, Lincoln, Neb. Agricultural Research Service Entomology Research Division And Crops Research 1 2018 S. Dept. Of Agriculture, Logan, Utah Agricultural Research Service Animal Disease And Parasite Research Division U. S. Dept. Of Agriculture, Logan, Utah Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Logan, Utah Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Logan, Utah Utah Agricultural Experiment Station Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Madlson, Wis Market Quality Research Div., Agricultural Market Stored-product Insects Laboratory U. S. Dept. Of Agriculture, Manhattan, Kan. Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Manhattan, Kans. Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Mayaguez, Puerto Rica Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Mayaguez, Puerto Rica Agricultural Research Service Crops Research Division S. Dept. Of Agriculture, Mayaguez, Puerto Rico Agricultural Research Service Crops Research Division S. Dept. Of Agriculture, Mayaguez, Puerto Rico Agricultural Research Service Crops Research Division Federal Experiment Station U. S. Dept. Of Agriculture, Mayaguez, Puerto Rico Agricultural Research Service Crops Research Division Federal Experiment Station U. S. Dept. Of Agriculture, Mesa, Ariz. Agricultural Research Service Crops Research Division Federal Experiment Station U. S. Dept. Of Agriculture, Mexico City, Mexico Agricultural Research Service Entomology Research Division 24 	Division 3127 2807 2952 2155 2564 3255 2792 2334 2662 054 2969
 U. S. Dept. Of Agriculture, Lincoln, Neb. Agricultural Research Service Entomology Research Division And Crops Research 1 2018 U. S. Dept. Of Agriculture, Logan, Utah Agricultural Research Service Animal Disease And Parasite Research Division U. S. Dept. Of Agriculture, Logan, Utah Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Logan, Utah Magricultural Experiment Station Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Madison, Wis Market Quality Research Service Crops Research Division U. S. Dept. Of Agriculture, Madison, Wis Market Quality Research Div., Agricultural Market Stored-product Insects Laboratory Deiry-product Insects Laboratory Deiry-of Agriculture, Manhattan, Kan. Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Manhattan, Kans. Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Mayaguez, Puerto Rica Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Mayaguez, Puerto Rica Agricultural Research Service Crops Research Division S. Dept. Of Agriculture, Mayaguez, Puerto Rico Agricultural Research Service Crops Research Division S. Dept. Of Agriculture, Mayaguez, Puerto Rico Crops Research Division Federal Experiment Station U. S. Dept. Of Agriculture, Mayaguez, Puerto Rico Crops Research Division Federal Experiment Station U. S. Dept. Of Agriculture, Mayaguez, Puerto Rico Crops Research Division Federal Experiment Station U. S. Dept. Of Agriculture, Mesa, Ariz. Agricultural Research Service Entomology Research Division Zu U. S. Dept. Of Agriculture, Mesico City, Mexico Agricultural Research Service Entomology Research Division Zu U. S. Dept. Of Agriculture, Misimi, Fla. Agricultural Research Service Plant Quar	Division 3127 2807 2952 2155 2564 3255 2792 2334 2662 054 2969
 U. S. Dept. Of Agriculture, Lincoln, Neb. Agricultural Research Service Entomology Research Division And Crops Research 1 2018 U. S. Dept. Of Agriculture, Logan, Utah Agricultural Research Service Animal Disease And Parasite Research Division U. S. Dept. Of Agriculture, Logan, Utah Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Logan, Utah Magricultural Experiment Station Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Madison, Wis Market Quality Research Service Crops Research Division U. S. Dept. Of Agriculture, Madison, Wis Market Quality Research Div., Agricultural Market Stored-product Insects Laboratory U. S. Dept. Of Agriculture, Manhattan, Kan. Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Manhattan, Kans. Agricultural Research Service Crops Research Division U. S. Dept. Of Agriculture, Manhattan, Kans. Agricultural Research Service Crops Research Division S. Dept. Of Agriculture, Mayaguez, Puerto Rica Agricultural Research Service Crops Research Division S. Dept. Of Agriculture, Mayaguez, Puerto Rica Agricultural Research Service Crops Research Division Federal Experiment Station U. S. Dept. Of Agriculture, Mayaguez, Puerto Rico Agricultural Research Service Crops Research Division Federal Experiment Station U. S. Dept. Of Agriculture, Mayaguez, Puerto Rico Crops Research Division Federal Experiment Station U. S. Dept. Of Agriculture, Mayaguez, Puerto Rico Crops Research Division Federal Experiment Station U. S. Dept. Of Agriculture, Mayaguez, Puerto Rico Crops Research Division Federal Experiment Station U. S. Dept. Of Agriculture, Mesa, Ariz. Agricultural Research Service Entomology Research Division 21 U. S. Dept. Of Agriculture, Mexico City, Mexico Agricultural Research Service Entomology Research Division 22 U. S. Dept. Of Agr	Division 3127 2807 2952 2155 2564 3255 2792 2334 2662 054 2969 060 3278

Shine Index		
Entomology Research Division U. S. Dept. Of Agricuiture, Mission, Texas		2080
U. S. Dept. Of Agricuiture, Mission, Texas Agricuiturai Research Service Entomology Research Division		2079
U. S. Dept. Of Agriculiure, Moorestown, N. J. Agriculture Research Service Entomology Research Division		1998
U. S. Dept. Of Agricuiture, New Srunswick, N. J. Agriculturai Research Service		1000
Crops Research Division U. S. Dept. Of Agricuiture, New Orieans, La.		2765
Forest Service Southern Forest Experiment Station		2035
U. S. Dept. Of Agriculture, New York, N. Y. Agriculturai Marketing Service Biologicai Sciences Branch		
Marketing Pathology Laboratory U. S. Dept. Of Agriculiure, Orlando, Fla.		3085
Agricultural Research Service Crops Research Division	2467	3027
U. S. Dept. Of Agricuiture, Paris, France Agricuitural Research Service		
Entomoiogy Research Division U. S. Dept. Of Agriculture, Pomona, Calif.		1993
Agricultural Research Service Market Quality Research Division		3688
U. S. Dept. Of Agricuiture, Prosser, Wash. Agricuitural Research Service Crops Research Division		2495
U. S. Dept. Of Agriculture, Puliman Agricultural Research Service		2450
Crops Research Division U. S. Dept. Of Agriculture, Puliman, Wash.		27\$8
	2582	2584
U. S. Dept. Of Agriculture, Puiiman, Wash. Agricultural Research Service		0000
Crops Research Service U. S. Dept. Of Agriculture, Richmond, Va. Agricultural Research Service		2264
Market Quality Research Division U. S. Dept. Of Agriculture, Riverside, Calif.		3289
Agricuitural Research Service Crops Research Division	2748	2749
U. S. Dept. Of Agricuiture, Riverside, Calif. Agricuitural Research Service		
Entomology Research Division U. S. Dept. Df Agriculture, Salinas, Calif.	2078	2119
Agricuitural Research Service 2300 Crops Research Division 2300 U.S. Dept. Of Agriculture, San Francisco, Caiif.	2400	2613
Forest Service California Region	•	2666
U. S. Dept. Of Agriculture, San Juan, Puerto Rico Plant Quarantine Division	>	2791
U. S. Dept. Of Agriculture, St. Paul, Minn. Agricultural Research Service		
Crops Research Division U. S. Dept. Of Agricuiture, St. Paul, Minn.		2667
Forest Service Lake States Forest Experiment Station 2268 2269	1995	2230
U. S. Dept. Of Agriculture, St. Paul, Minn. Forest Service		
Lake States Forest Experiment Station Division Of Forest Disease Research		2270
U. S. Dept. Of Agricuiture, State Coliege, Miss. Agricuitural Research Service		213S
U. S. Dept. Of Agriculture, State College, Miss. Agricultural Research Service		
Crops Research Division Boil Weevii Research Laboratory		2978
U. S. Dept. Of Agriculture, State College, Miss. Agricultural Research Service Entomology Research Division 2134	2162	3179
U. S. Dept. Of Agricuiture, Stoneville, Miss. Agricuitural Research Service		
Crops Research Division U. S. Dept. Of Agriculture, Stoneviile, Miss.	2376	2789
Agricuitural Research Service Entomology Research Division		2026
U. S. Dept. Of Agriculture, Stoneviile, Miss. Forest Service Southern Forest Experiment Station		2418
U. S. Dept. Of Agriculture, Stoneville, Miss. Forest Service		2410
Southern Forest Experiment Station Southern Hardwoods Laboratory		2419
U. S. Dept. Of Agriculture, Stoneviile, Miss. Mississippi Agriculturai Experiment Station		
		PAGE

	UNGANI
Agricultural Research Service Crops Research Division	2559
U. S. Dept. Of Agriculture, Tifton, Ga. Agricultural Research Service	3032
U. S. Dept. Of Agriculture, Tifton, Ga.	0002
Agricultural Research Service Crops Research Division 2443 2686 U. S. Dept. Of Agriculture, Tifton, Ga. Agricultural Research Service	2921
Entomology Research Division	3286
U. S. Dept. Of Agriculture, Vincennes, Ind. Agricultural Research Service Entomology Research Division	2185
U. S. Dept. Of Agriculture, Vincennes, Indlana Agricultural Research Service	
Entomology Research Division U. S. Dept. Of Agriculture, Wenatchee, Wash.	2075
Agricultural Marketing Service Market Quality Research Division	3089
U. S. Dept. Of Agriculture, Wenatchee, Wash. Agricultural Research Service	
Entomology Research Division U. S. Dept. Of Agriculture, West Haven, Conn.	3139
Forest Service Northeastern Forest Experiment Statlon	2104
U. S. Dept. Of H.E.W., bethesda, Md. Public Health Service	
National Institutes Of Health National Institute Of Arthritis And Metabolic Diseases	
2145	
U. S. Dept. Of Healt, Education, And Welfare, Athens, Ga Public Health Service	•
Division Of Water Supply And Pollution Control Southeast Water Laboratory	3100
U. S. Dept. Of Health, Education And Welfare, Savannah, Public Health Service	Ga.
Technical Development Laboratories Technology Branch, Communicable Disease Center	2100
U. S. Dept. Of Health, Education, And Welfare, Savannah, Public Health Service	
Technical Developement Laboratories	2147
Technology Branch, Communicable Disease Center U. S. Forest Service	3147
Division Of Timber Management Region Two U. S. Forest Service, Asheville, N. C.	28\$3
Southern Region Forest Insect And Disease Control Branch	1997
U. S. Forest Service, Durham And Asheville N. C. U. S. Forest Service, Durham, N. C.	2239 2526
U. S. Plant Introduction Station, Glen Dale, Md. Technical Advisory Services	
Plant Quarantine Division U. S. Regional Pasture Research Lab., University Park, P	3273
2466	
U. S. Steel Corp., Provo, Utah Columbia-geneva Steel Division	
Geneva Works Agricultural Division	288\$
U.s. Dept. Of Agriculture, 8eltsville, Md. Agricultural Research Service	
Crops Research Division U.s. Dept. Of Agriculture, Logan, Utah	2410
Agricultural Research Service Animal Disease And Parasite Research Division	3123
U.s. Dept. Of Agriculture, Portland, Ore.	5125
Forest Service Pacific Northwest Forest And Range Experiment Station	
2704 U.s. Dept. Of Agriculture, Tifton, Ga.	
Agricultural Research Service Crops Research Division	2424
U.s. Dept. Of Agriculture, Twin Falls, Idaho Agricultural Research Service	
Crops Research Division	2938
United Fruit Co., Golfito, Costa Rica Coto Research Station	3103
United Fruit Co., La Llma, Honduras Division Of Tropical Research	
Vining C. Dunlap Laboratories United Fruit Company, Honduras	3267
Tela Railroad Company Vining C. Duniap Laboratories	
Plant Pathology Dept. Universidad Nacional De Cuyo	2\$96
Instituto De Sanidad Vegetal Facultad De Ciencias Agrarlas	2598
Universidado De Sao Paulo, Piracicaba, 8razil Escola Superior De Agricultura luiz De Quelroz	3150
University College Of North Wales, Bangor, Wales Dept. Of Agricultural And Forest Zoology	2136
PAGE 172	2100

University College Of Rhodesla And Nyasaland Zoology Dept.	2095
University College Of Rhodesia And Nyasaland, Salisbury	
Dept. Of Zoology University College, Cardiff, Wales	2181
Zoology Dept. 2097	2176
University Of Adelalde, Australia Walte Agricultural Research Institute	2159
University Of Adelaide, South Australia	2109
Waite Agricultural Research Institute	2900
University Of Alexandria, Egypt Faculty Of Agriculture	
Dept. Of Plant Protection	
Laboratory Of Insect Toxicology 3134 University Of Alexandria, Egypt, UAR	3175
Faculty Of Agriculture	
Dept. Of Plant Protection Laboratory Of Insect Toxlcology	3133
University Of Arizona, Tucson	0100
Dept. Of Plant Pathology University Of Arkansas	2707
Dept. Of Plant Pathology	2460
University Of Arkansas, Fayetteville 3046	3108
University Of Arkansas, Fayetteville Dept. Of Plant Pathology 2379 2868	2912
2933 2934	
University Of Bristol Dept. Of Zoology 2047	2122
University Of Bristol, England	
Dept. Of Aeronautical Engineering Unlversity Of 8ristol, England	2004
Dept. Of Zoology 2142	2194
University Of British Columbia, Vancouver University Of Calif. Citrus Experiment Station, Riversi	2304
3044	
University Of California Citrus Experiment Stat., River 3070	side
University Of California, Berkeley 2016 2103	24\$3
2982 3004 3152 3245 University Of Callfornia, Berkeley	
Dept. Of Plant Pathology 2276 2277	2515
2760 2761 2766 2812 2831 2832 28	
2834 2835 2836 2944 2945 3120 32 University Of California, 8erkeley	22
Depts. Of Entomology And Parasitology And Plant Patho	logy
2431	logy
2431 University Of California, Berkeley Division Of Biologica Control	10gy 2101
2431 University Of California, Berkeley Division Of Biologica Control University Of California, Berkeley	2101
2431 University Of California, Berkeley Division Of Biologica Control University Of California, Berkeley School Of Public Health University Of California, Davis 2497 2814	
2431 University Of California, Berkeley Division Of Biologica Control University Of California, Berkeley School Of Public Health University Of California, Davis 2497 2814 2556 3148	2101 2210
2431 University Of California, Berkeley Division Of Biologica Control University Of California, Berkeley School Of Public Health University Of California, Davis 2956 3148 University Of California, Davis Dept. Of Agronomy 2721 2887	2101 2210
2431 University Of California, Berkeley Division Of Biologica Control University Of California, Berkeley School Of Public Health University Of California, Davis 2956 3148 University Of California, Davis Dept. Of Agronomy Difference California, Davis	2101 2210 2819 2888
2431 University Of California, Berkeley Division Of Biologica Control University Of California, Berkeley School Of Public Health University Of California, Davis 2497 2814 2956 3148 University Of California, Davis Dept. Of Agronomy University Of California, Davis Dept. Of Landscape Horticulture	2101 2210 2819
2431 University Of California, Berkeley Division Of Biologica Control University Of California, Berkeley School Of Public Health University Of California, Davis 2956 3148 University Of California, Davis Dept. Of Agronomy University Of California, Davis Dept. Of Landscape Horticulture University Of California, Davis Dept. Of Landscape Horticulture University Of California, Davis Dept. Of Nematology	2101 2210 2819 2888
2431 University Of California, Berkeley Division Of Biologica Control University Of California, Berkeley School Of Public Health University Of California, Davis 2556 3148 University Of California, Davis Dept. Of Agronomy University Of California, Davis Dept. Of Landscape Horticulture University Of California, Davis Dept. Of Mematology University Of California, Davis	2101 2210 2819 2888 2641 3043
2431 University Of California, Berkeley Division Of Biologica Control University Of California, Berkeley School Of Public Health University Of California, Davis 2956 3148 University Of California, Davis Dept. Of Agronomy 2721 2887 University Of California, Davis Dept. Of Landscape Horticulture University Of California, Davis Dept. Of Landscape Horticulture University Of California, Davis Dept. Of Nematology University Of California, Davis Dept. Of Plant Pathology 2490 2577 2724 2725 2806 2820 2821 2856 28	2101 2210 2819 2888 2641 3043 2711
2431 University Of California, Berkeley Division Of Biologica Control University Of California, Berkeley School Of Public Health University Of California, Davis 2956 3148 University Of California, Davis Dept. Of Agronomy 2721 2887 University Of California, Davis Dept. Of Landscape Horticulture University Of California, Davis Dept. Of Nematology 2490 2577 2724 2725 2806 2820 2821 2856 28	2101 2210 2819 2888 2641 3043 2711
2431 University Of California, Berkeley Division Of Biologica Control University Of California, Berkeley School Of Public Health University Of California, Davis 2497 2814 2956 3148 University Of California, Davis Dept. Of Agronomy Diversity Of California, Davis Dept. Of Landscape Horticulture University Of California, Davis Dept. Of Nematology University Of California, Davis Dept. Of Plant Pathology 2720 2577 2724 2725 2806 2820 2821 2856 28 2935 University Of California, Los Angeles	2101 2210 2819 2888 2641 3043 2711 57 2193
2431 University Of California, Berkeley Division Of Biologica Control University Of California, Berkeley School Of Public Health University Of California, Davis 2497 2814 2956 3148 University Of California, Davis Dept. Of Agronomy Diversity Of California, Davis Dept. Of Landscape Horticulture University Of California, Davis Dept. Of Nematology University Of California, Davis Dept. Of Plant Pathology 2720 2577 2724 2725 2806 2820 2821 2856 28 2935 University Of California, Los Angeles	2101 2210 2819 2888 2641 3043 2711 57
2431 University Of California, Berkeley Division Of Biologica Control University Of California, Berkeley School Of Public Health University Of California, Davis 2497 2814 2956 3148 University Of California, Davis Dept. Of Agronomy Diversity Of California, Davis Dept. Of Landscape Horticulture University Of California, Davis Dept. Of Nematology University Of California, Davis Dept. Of Plant Pathology 2720 2577 2724 2725 2806 2820 2821 2856 28 2935 University Of California, Los Angeles University Of California, Los Angeles Dept. Of Plant Pathology University Of California, Los Angeles Dept. Of Plant Pathology	2101 2210 2819 2888 2641 3043 2711 57 2193
2431 University Of California, Berkeley Division Of Biologica Control University Of California, Berkeley School Of Public Health University Of California, Davis 2497 2814 2956 3148 University Of California, Davis Dept. Of Agronomy Diversity Of California, Davis Dept. Of Landscape Horticulture University Of California, Davis Dept. Of Nematology University Of California, Davis Dept. Of Plant Pathology 2720 2577 2724 2725 2806 2820 2821 2856 28 2935 University Of California, Los Angeles University Of California, Los Angeles Dept. Of Plant Pathology University Of California, Los Angeles Dept. Of Plant Pathology	2101 2210 2819 2888 2641 3043 2711 57 2193 3293
2431 University Of California, Berkeley Division Of Biologica Control University Of California, Berkeley School Of Public Health University Of California, Davis 2497 2814 2956 3148 University Of California, Davis 2721 2887 University Of California, Davis 2490 2577 2724 2725 2806 2820 2821 2856 28 2935 University Of California, Los Angeles University Of California, Los Angeles Dept. Of Plant Pathology 3165 University Of California, Riverside University Of California, Riverside	2101 2819 2888 2641 3043 57 2193 3293 2290
2431 University Of California, Berkeley Division Of Biologica Control University Of California, Berkeley School Of Public Health University Of California, Davis 2656 3148 University Of California, Davis Dept. Of Agronomy University Of California, Davis Dept. Of California, Davis Dept. Of California, Davis Dept. Of Nematology University Of California, Davis Dept. Of Plant Pathology 2490 2577 2724 2725 2806 2820 2821 2856 28 2935 University Of California, Los Angeles University Of California, Los Angeles Dept. Of Plant Pathology University Of California, Los Angeles Dept. Of Plant Pathology University Of California, Los Angeles Dept. Of Plant Pathology University Of California, Riverside University Of California, Riverside Citrus Experiment Station 3072	2101 2210 2819 2888 2641 3043 2711 2193 3293 2290 3119
2431 University Of California, Berkeley Division Of Biologica Control University Of California, Berkeley School Of Public Health University Of California, Davis 2497 2814 2956 3148 University Of California, Davis Dept. Of Agronomy Dept. Of Agronomy Diversity Of California, Davis Dept. Of Landscape Horticulture University Of California, Davis Dept. Of Nematology University Of California, Davis Dept. Of Nematology 2490 2577 2724 2725 2806 2820 2821 2856 28 2935 University Of California, Los Angeles University Of California, Los Angeles University Of California, Riverside University Of California, Riverside Citrus Experiment Station University Of California, Riverside Citrus Experiment Station	2101 2210 2819 2888 2641 3043 2711 2193 3293 2290 3119
2431 University Of California, Berkeley Division Of Biologica Control University Of California, Berkeley School Of Public Health University Of California, Davis 2497 2814 2956 3148 University Of California, Davis Dept. Of Agronomy Dept. Of Agronomy University Of California, Davis Dept. Of Agronomy University Of California, Davis Dept. Of Mematology University Of California, Davis Dept. Of Nematology University Of California, Davis Dept. Of Plant Pathology 2490 2577 2724 2725 2806 2820 2821 2856 28 2935 University Of California, Los Angeles University Of California, Los Angeles University Of California, Riverside University Of California, Riverside Citrus Experiment Station Dept. Of Plant Mematology University Of California, Riverside Citrus Experiment Station Dept. Of Plant Mematology 2870 University Of California, Riverside	2101 2210 2819 2888 2641 3043 2711 2193 3293 2290 3119 3250
2431 University Of California, Berkeley Division Of Biologica Control University Of California, Berkeley School Of Public Health University Of California, Davis 2497 2814 2956 3148 University Of California, Davis 2721 2887 University Of California, Davis 2490 2577 2724 2725 2806 2820 2821 2856 28 2935 University Of California, Los Angeles 2490 University Of California, Los Angeles 2490 University Of California, Los Angeles 2490 University Of California, Riverside 2872 University Of California, Riverside 2872 University Of California, Riverside 2870 University Of California, Riverside 2870	2101 2210 2819 2888 2641 3043 2711 2193 3293 2290 3119 3250
2431 University Of California, Berkeley Division Of Biologica Control University Of California, Berkeley School Of Public Health University Of California, Davis 2497 2814 2956 3148 University Of California, Davis Dept. Of Agronomy Dept. Of Agronomy Dept. Of California, Davis Dept. Of Landscape Horticulture University Of California, Davis Dept. Of Nematology University Of California, Davis Dept. Of Nematology University Of California, Davis Dept. Of Plant Pathology 2490 2577 2724 2725 2806 2820 2821 2856 28 2935 University Of California, Los Angeles University Of California, Los Angeles University Of California, Riverside University Of California, Riverside University Of California, Riverside Citrus Experiment Station Dept. Of Plant Mematology University Of California, Riverside Citrus Experiment Station Dept. Of Plant Mematology University Of California, Riverside Citrus Experiment Station Dept. Of Plant Pathology University Of California, Riverside Citrus Experiment Station Dept. Of Plant Pathology	2101 2210 2819 2888 2641 3043 2711 2193 3293 2290 3119 3250 3010 2411
2431 University Of California, Berkeley Division Of Biologica Control University Of California, Berkeley School Of Public Health University Of California, Davis 2497 2814 2956 3148 University Of California, Davis 2721 2887 University Of California, Davis 2490 2577 2724 2725 2806 2820 2821 2856 28 2935 University Of California, Los Angeles 2935 University Of California, Los Angeles 3165 University Of California, Los Angeles 3165 University Of California, Riverside 3072 University Of California, Riverside 3072 Universit	2101 2210 2819 2888 2641 3043 2711 2193 3293 3293 3293 3293 3119 3250 3010
2431 University Of California, Berkeley Division Of Biologica Control University Of California, Berkeley School Of Public Health University Of California, Davis 2497 2814 2956 3148 University Of California, Davis 2721 2887 University Of California, Davis 2490 2577 2724 2725 2806 2820 2821 2856 28 2935 University Of California, Los Angeles 28 University Of California, Los Angeles 28 University Of California, Riverside 28 Citrus Experiment Station 3072 University Of California, Riverside 28 Citrus Experiment Station 28 Dept. Of Plant Nematology 2870 University Of California, Riverside 28 Citrus Experiment Station 28 Dept. Of Plant Pathology University Of California, Riverside 2870 University Of California, Riverside 2870 Universit	2101 2210 2819 2888 2641 3043 2711 2193 3293 3293 3293 3250 3119 3250 3010 2411 3244
2431 University Of California, Berkeley Division Of Biologica Control University Of California, Berkeley School Of Public Health University Of California, Davis Dept. Of Agronomy Dept. Of Agronomy University Of California, Davis Dept. Of Agronomy Dept. Of Agronomy University Of California, Davis Dept. Of Mematology University Of California, Davis Dept. Of Nematology University Of California, Davis Dept. Of Plant Pathology 2490 2577 2724 2725 2806 2820 2821 2856 28 2935 University Of California, Los Angeles University Of California, Los Angeles Dept. Of Plant Pathology University Of California, Riverside University Of California, Riverside Citrus Experiment Station Dept. Of Plant Mematology University Of California, Riverside Citrus Experiment Station Dept. Of Plant Pathology University Of California, Riverside Citrus Experiment Station Dept. Of Plant Pathology University Of California, Riverside Citrus Experiment Station Dept. Of Plant Pathology University Of California, Riverside Citrus Experiment Station Dept. Of Plant Mematology University Of California, Riverside Citrus Experiment Station Dept. Of Plant Pathology University Of California, Riverside Citrus Experiment Station Dept. Of Plant Pathology University Of California, Riverside Citrus Experiment Station Dept. Of Plant Pathology University Of California, Riverside Citrus Research Center Agricultural Experiment Station 2614 3093	2101 2819 2888 2641 3043 2711 2193 3293 2290 3119 3250 3010 2411 3_44 3156
2431 University Of California, Berkeley Division Of Biologica Control University Of California, Berkeley School Of Public Health University Of California, Davis 2497 2814 2556 3148 University Of California, Davis Dept. Of Agronomy University Of California, Davis Dept. Of Agronomy Dept. Of Agronomy Dept. Of Mematology University Of California, Davis Dept. Of Plant Pathology 2490 2577 2724 2725 2806 2820 2821 2856 28 2935 University Of California, Los Angeles University Of California, Los Angeles University Of California, Los Angeles University Of California, Riverside Citrus Experiment Station Dept. Of Plant Pathology University Of California, Riverside Citrus Research Center University Of California, Riverside Citrus Research Center Agricultural Experiment Station Dept. Of California, Riverside Citrus Research Center Agricultural Experiment Station 2614 3093 University Of California, Riverside Citrus Research Center And Agricultural Experiment Station Dept. Of California, Riverside Citrus Research Center And Agricultural Experiment Station	2101 2819 2888 2641 3043 2711 2193 3293 2290 3119 3250 3010 2411 3_44 3156
2431 University Of California, Berkeley Division Of Biologica Control University Of California, Berkeley School Of Public Health University Of California, Davis 2497 2814 2956 3148 University Of California, Davis 2721 2887 University Of California, Davis 2490 2577 2724 2725 2806 2820 2821 2856 28 2935 University Of California, Los Angeles University Of California, Los Angeles University Of California, Riverside University Of California, Riverside University Of California, Riverside Citrus Experiment Station 3072 University Of California, Riverside Citrus Experiment Station 2870 University Of California, Riverside Citrus Experiment Station 2870 University Of California, Riverside Citrus Research Center Agricultural Experiment Station 2614 3093 University Of California, Riverside Citrus Research Center Agricultural Experiment Station 2614 3093	2101 2210 2819 2888 2641 3043 2711 2193 3293 2290 3119 3250 3010 2411 3.44 3156 ation
2431 University Of California, Berkeley Division Of Biologica Control University Of California, Berkeley School Of Public Health University Of California, Davis Dept. Of Agronomy Dept. Of Agronomy Dept. Of Agronomy Dept. Of California, Davis Dept. Of Landscape Horticulture University Of California, Davis Dept. Of Nematology University Of California, Davis Dept. Of Nematology University Of California, Davis Dept. Of Plant Pathology 2490 2577 2724 2725 2806 2820 2821 2856 28 2935 University Of California, Los Angeles University Of California, Los Angeles University Of California, Riverside Citrus Experiment Station Dept. Of Plant Mematology University Of California, Riverside Citrus Experiment Station Dept. Of Plant Mematology University Of California, Riverside Citrus Experiment Station Dept. Of Plant Pathology University Of California, Riverside Citrus Experiment Station Dept. Of Plant Mematology University Of California, Riverside Citrus Experiment Station Dept. Of Plant Mematology University Of California, Riverside Citrus Research Center Miversity Of California, Riverside Citrus Research Center Agricultural Experiment Station 2614 3093 University Of California, Riverside Citrus Research Center And Agricultural Experiment Station Citrus Research Center And Ag	2101 2819 2888 2641 3043 2711 2193 3293 2290 3119 3250 3010 2411 3.44 3156 ation
2431 University Of California, Berkeley Division Of Biologica Control University Of California, Berkeley School Of Public Health University Of California, Davis 2497 2814 2956 3148 University Of California, Davis Dept. Of Agronomy Dept. Of Agronomy Dept. Of California, Davis Dept. Of Landscape Horticulture University Of California, Davis Dept. Of Nematology University Of California, Davis Dept. Of Plant Pathology 2490 2577 2724 2725 2806 2820 2821 2856 28 2935 University Of California, Los Angeles University Of California, Los Angeles University Of California, Riverside University Of California, Riverside Citrus Experiment Station Dept. Of Plant Mematology University Of California, Riverside Citrus Research Center Agricultural Experiment Station 2670 University Of California, Riverside Citrus Research Center Agricultural Experiment Station 2614 3093 University Of California, Riverside Citrus Research Center And Agricultural Experiment Station 2614 3093 University Of California, Riverside Citrus Research Center And Agricultural Experiment Station 2614 3093 University Of California, Riverside Citrus Research Center And Agricultural Experiment St 2001 3145 3155 University Of California, Riverside Citrus Research Center And Agricultural Experiment St Dept. Of Biological Control 2003	2101 2210 2819 2888 2641 3043 2711 2193 3293 2290 3119 3250 3010 2411 3.44 3156 ation
2431 University Of California, Berkeley Division Of Biologica Control University Of California, Berkeley School Of Public Health University Of California, Davis 2497 2814 2956 3148 University Of California, Davis Dept. Of Agronomy Dept. Of California, Davis Dept. Of Landscape Horticulture University Of California, Davis Dept. Of Nematology University Of California, Davis Dept. Of Nematology 2490 2577 2724 2725 2806 2820 2821 2856 28 2935 University Of California, Los Angeles University Of California, Los Angeles University Of California, Riverside University Of California, Riverside Citrus Experiment Station Dept. Of Plant Nematology University Of California, Riverside Citrus Experiment Station Dept. Of Plant Nematology University Of California, Riverside Citrus Experiment Station Dept. Of California, Riverside Citrus Research Center Agricultural Experiment Station Dept. Of California, Riverside Citrus Research Center And Agricultural Experiment Station 2614 3093 University Of California, Riverside Citrus Research Center And Agricultural Experiment Station 2014 3145 3155 University Of California, Riverside Citrus Research Center And Agricultural Experiment Station 203 University Of California, Riverside Citrus Research Center And Agricultural Experiment Station 203 University Of California, Riverside Citrus Research Center And Agricultural Experiment Station 203 University Of California, Riverside Citrus Research Center And Agricultural Experiment Station 203 University Of California, Riverside Citrus Research Center And Agricultural Experiment Station 203 University Of California, Riverside Citrus Research Center And Agricultural Experiment Station 203 University Of California, Riverside Cit	2101 2819 2888 2641 3043 2711 2193 3293 2290 3119 3250 3010 2411 3.44 3156 ation
2431 University Of California, Berkeley Division Of Biologica Control University Of California, Berkeley School Of Public Health University Of California, Davis Dept. Of Agronomy University Of California, Davis Dept. Of Agronomy University Of California, Davis Dept. Of Agronomy University Of California, Davis Dept. Of Memotology University Of California, Davis Dept. Of Plant Pathology 2490 2577 2724 2725 2806 2820 2821 2856 28 2935 University Of California, Los Angeles University Of California, Los Angeles University Of California, Riverside Citrus Experiment Station Dept. Of Plant Pathology University Of California, Riverside Citrus Research Center University Of California, Riverside Citrus Research Center Agricultural Experiment Station 2614 3093 University Of California, Riverside Citrus Research Center Agricultural Experiment Station Citrus Research Center And Agricultural Experiment St Dept. Of Biological Control Citrus Research Center And Agricultural Experiment St Dept. Of California, Riverside	2101 2819 2888 2641 3043 2711 2193 3293 2290 3119 3250 3010 2411 3244 3156 ation

			ORGANI 2
Dept. Of Horticuitural Science			2595
University Of California, Riverside Dept. Of Nematology	3066	3071	3075
University Of California, Riverside Dept. Of Plant Pathology	2601	2675	2890
2891 2916 University Of California, Riverside Dept. Of Plant Pathology And Horticu	ltural Sc	lence	2772
University Of Cambridge Dept. Of Zoology			2229
University Of Cambridge	2086	222B	
School Of Agricuiture University Of Cambridge, England			2096
Dept. Of Zoology University Of Chile, Santlago, Chile		2224	2225
School Of Medicine University Of Claifornia, Berkeley			2043
University Of Connecticut, Storrs Plant Science Dept.			2677
University Of Delaware			
Dept. Of Plant Pathology University Of Delaware, Newark			3019
Dept. Of Plant Pathology University Of Delaware, Newark, Delawa	TP	2375	2883
Dept. Of Entomology			2069
University Of Edinburgh, Scotland Dept. Of Zoology			2191
University Of Florida, Belle Glade Everglades Experiment Station.			2869
University Of Florida, Gainesville			2009
Agricuitural Experiment Station Dept. Of Entomology			3020
University Of Florida, Gainesville Plant Pathology Dept.			2619
University Of Fiorida, Lake Aifred			
Cltrus Experiment Station University Of Florida, Lake Alfred			301B
Florida Cltrus Experiment Station University Of Florida, Sanford		3069	3276
Central Florida Experiment Station Dept. Of Entomology			3102
University Of Georgia Coastal Plain Experiment Station			2920
University Of Georgia Dept. Of Plant Pathology And Plant G	enetics		2752
University Of Georgia, Athens University Of Georgia, Athens		2730	3058
Dept. Of Plant Pathology And Plant 8	reeding		2603
University Of Georgia, Athens Dept. Of Plant Pathology And Plant G	enetics		2450
2731 2B67 University Of Georgia, Athens			
U. S. Dept. Of Agriculture Forest Service			
Southeastern Forest Experiment Stati University Of Georgia, Tifton	on		2339 2547
University Of Georgia, Tifton			
Coastal Plain Experiment Station University Of Georgia, Tifton			2548
College Of Agriculture Georgia Coastal Piain Experiment Sta	tion		2401
University Of Glasgow			
Dept. Of Zoology University Of Hawali	~		2215 28 75
University Of Hawali College Of Tropical Agricuiture			3172
University Of Hawall Dept. Of Plant Pathology			2523
University Of Hawall, Honolulu			
Agricultural Experiment Station University Of Hawall, Honolulu			2272
Agricultural Experiment Station Depts. Of Horticulture And Plant Pat	hology		2697
University Of Hawall, Honolulu	1101099		
Dept. Of Plant Pathology University Of Hawall, Honolulu		2273	2274
Hawall Agricultural Experiment Stati University Of Idaho, Aberdeen	on		2723
Branch Experiment Station			2484
University Of Idaho, Moscow Agricultural Experiment Station	2507	2508	2509
University Of Idaho, Moscow Dept. Of Plant Pathology			2915
University Of Idaho, Moscow Plant Science Dept.			2483
University Of Idaho, Parma			
Parma Branch Experiment Station University Of Illinois			2783
Dept. Of Plant Pathology University Of Illinois, Urbana	2519	2823	2330 2871
st string of string of statu			

2923		
University Of Illinois, Urbana Dept. Of Entomoiogy 2071	2094	2169
University Of Illinois, Urbana	2034	610.2
Dept. Of Horticulture And Plant Pathology University Of Illinois, Urbana		2369
Dept. Of Plant Pathology 2505	2532	2:-33
3252		
Unlversity Of Jerusalem, Israei Dept. Of Biological Chemistry		2146
University Of Kentucky, Lexington		3016
University Of Leicester Dept. Of Zoology		2108
University Of London, England		6100
Queen Mary College Dept. Of Zoology	2068	2125
University Of Lucknow, Lucknow, India	2000	2201
University Of Maine, Orono		3261
University Of Malaya, Kuala Lumpur Botany Dept.		2476
University Of Manchestor, England		
Dept. Of Botany And Zoology Genetics Laboratory		2089
University Of Manitoba, Winnepeg, Canada		
Dept. Of Botany University Of Manitoba, Winnipeg		3271
Dept. Of Entomology	2031	2112
University Of Maryland, Coilege Park University Of Maryland, Coilege Park		3115
Botany Dept.		3050
University Of Maryland, College Park Dept. Of Botany		2928
University Of Massachusetts		2020
Waltham Field Station		2480
Massachusetts Agricultural Experiment Station University Of Massachusetts, Amherst		2368
Unlversity Of Massachusetts, Amhcrst		0000
Dept. Of Entomology University Of Massachusetts, Amherst, Mass.		2052
Shade Tree Laboratories		2529
University Of Massachusetts, East Wareham Cranberry Experiment Station	3077	3251
University Of Minnesota		
Dept. Of Plant Pathology And Botany University Of Minnesota, Minneapolis	2578	3296
Dept. Of Microbiology University Of Minnesota, St Paul		2612
Dept. Of Entomology, Fisherles And Widlife		3258
University Of Minnesota, St. Paul		2010
Dept. Of Entomology, Fisherles, And Wildlife University Of Minnesota, St. Paul		2019
Dept. Of Plant Pathology		2769
University Of Minnesota, St. Paul Dept. Of Plant Pathology And Botany	2291	2663
2926		
University Of Minnesota, St. Paul Dept. Of Piant Pathology And Physiology	2327	2328
2585 3087		
University Of Minnesota, St. Paul Institute Of Agriculture		
Dept. Of Plant Pathology And Botany	2296	2416
University Of Missouri Dept. Of Hortlcuiture		2566
University Of Missouri.		
Veterlnary Physiology Dept. University Of Missouri, Columbia		3146 2322
University Of Missouri, Columbia		
Dept. Of Entomology University Of Missouri, Columbia		1996
Dept. Of Fleld Crops		2335
University Of Missourl, Columbia Dept. Of Horticulture	2565	2673
University Of Missouri, Columbia	2305	2075
Depts. Of Entomology And Hortlculture University Of Missouri, St. Paul, Minn.		2989
School Of Forestry		2397
University Of Nebraska, Lincoln University Of Nebraska, Lincoln		2943
Dept. Of Plant Pathology		32 36
University Of Nebraska, Lincoin		2179
North Platte Experiment Station University Of New Brunswick, Frederickton, Canad	a	2179
Dept. Of Blology		2726
University Of New Hampshire, Durham University Of Newcaste Upon Tyne, England		2537
Dept. Of Zoology		2067
University Of Newcastic Upon Tyne, England Department Of Zoology		2066
University Of Nottingham		2074
University Of Oxford, England		
		PAGE

ORGANI	ZATIONAL	INDEX

Dept. Of Pharmacology University Of Pennsylvania, Philadelphia	2175
Zoologicai Laboratories	2140
University Of Pennsylvania, Philadelphia	
Zoological Laboratory University Of Pittsburgh, Pa.	2220
Dept. Of Biological Sciences	2183
University Of Rhode Island	
Dept. Of Botany University Of Rhode Island	2340
· Dept. Of Plant Pathology-Entomology	3067
University Of Rhode Island, Kingston	
Dept. Of Botany University Of Rhode Island, Kingston	3234
Rhode Island Agricultural Experiment Station	
Dept. Of Plant Pathology-Entomology	2691
University Of Stellenbosch, South Africa Dept. Of Microbiology	2257
University Of The Philippines, Los Banos, Laguna	
College Of Agriculture	0.0.4.1
Dept. Of Piant Pathology University Of The Philipines, Laguna	2041
College Of Agriculture And Central Experiment Station	
Dept. Of Piant Pathology	2771
University Of Turku, Finland Dept. Of Zoology	2138
Unlversity Of Western Ontario, London, Canada	
Dept. Of Zoology	2157
University Of Wisconsin University Of Wisconsin	2000
Dept. Of Entomology	2023
University Of Wisconsin	2040
Dept. Of Plant Pathology 2727 University Of Visconsin, Madison 2459	2848 2929
University Of Wisconsin, Madison Dept. Of Entomology 2001	0.000
Dept. Of Entomology 2001	2046
University Of Wisconsin, Madison Dept. Of Entomology	
Systemic Insecticides	3180
University Of Wisconsin, Madison Dept. Of Plant Pathology 2354 2487	2702
Dept. Of Plant Pathology 2354 2487 2849 2909 3270	2782
University Of Wisconsin, Madison	
Plant Pathology Dept.	3011
University UI Wisconsin, Madison D	
Dept. Of Entomology	2221
University Of Wisconsin, Madison 5 Dept. Of Entomology University Of Wyoming, Laramie 2990	2221 3166
University Of Wyoming, Laramie 2990 University Of Wyoming, Laramie	3166
University Of Wyoming, Laramie 2990 University Of Wyoming, Laramie Division Of Veterinary Science Virginia Agriculturai Experiment Station	3166 3079
University Of Vyoning, Laramie 2990 University Of Vyoning, Laramie 2990 Division Of Veterinary Science Virginia Agricuiturai Experiment Station Virginia Agricuiturai Experiment Station, Blacksburg	3166 3079 2931
University Of Wyoming, Laramie 2990 University Of Wyoming, Laramie Division Of Veterinary Science Virginia Agricuiturai Experiment Station Virginia Agricuiturai Experiment Station, Blacksburg Dept. Of Piant Pathology And Physiology	3166 3079 2931 2927
University Of Vyoming, Laramie 2990 University Of Vyoming, Laramie 2990 University Of Vyoming, Laramie Division Of Veterinary Science Virginia Agricuiturai Experiment Station, Blacksburg Dept. Of Piant Pathology And Physiology Virginia Agricuiturai Experiment Station, Charlottesvii	3166 3079 2931 2927
University Of Wyoming, Laramie 2990 University Of Wyoming, Laramie 2990 Division Of Veterinary Science Virginia Agricuiturai Experiment Station, Blacksburg Dept. Of Piant Pathology And Physiology Virginia Agricuiturai Experiment Station, Charlottesvii Pledmont Fruit Research Laboratory Virginia Agricuiturai Experiment Station, Chatham	3166 3079 2931 2927 1e 2062
University Of Vyoning, Laramie 2990 University Of Vyoning, Laramie 2990 University Of Vyoning, Laramie 2000 Virginia Agricuiturai Experiment Station, Blacksburg Dept. Df Plant Pathology And Physiology Virginia Agricuiturai Experiment Station, Charlottesvii Pledmont Fruit Research Laboratory Virginia Agricuiturai Experiment Station, Chatham Tobacco Disease Research Station	3166 3079 2931 2927 ie
University Of Vyoning, Laramie 2990 University Of Vyoning, Laramie 2990 University Of Vyoning, Laramie 2000 Virginia Agricuiturai Experiment Station, Blacksburg Dept. Of Piant Pathology And Physiology Virginia Agricuiturai Experiment Station, Charlottesvii Pledmont Fruit Research Laboratory Virginia Agricuiturai Experiment Station, Chatham Tobacco Disease Research Station, Holiand	3166 3079 2931 2927 1e 2062
University Of Vyoning, Laramie 2990 University Of Vyoning, Laramie 2990 University Of Vyoning, Laramie 2000 Virginia Agricuiturai Experiment Station, 81acksburg Dept. Of Piant Pathology And Physiology Virginia Agricuiturai Experiment Station, Chariottesvii Piedmont Fruit Research Laboratory Virginia Agricuiturai Experiment Station, Chatham Tobacco Disease Research Station Virginia Agricuiturai Experimental Station, Holiand Tidewater Research Station Virginia Polytechnic Institute, 81acksburg	3166 3079 2931 2927 2062 2889 3125
University Of Vyoming, Laramie 2990 University Of Vyoming, Laramie 2990 University Of Vyoming, Laramie 2000 Virginia Agricuiturai Experiment Station Dept. Of Piant Pathology And Physiology Virginia Agricuiturai Experiment Station, Charlottesvii Pledmont Fruit Research Laboratory Virginia Agricuiturai Experiment Station, Charlottesvi Tobacco Disease Research Station Virginia Agricuiturai Experimental Station, Holiand Tidewater Research Institute, Blacksburg Dept. Of Entomology	3166 3079 2931 2927 10 2062 2889
University Of Wyoming, Laramie 2990 University Of Wyoming, Laramie 2990 University Of Wyoming, Laramie 2000 Virginia Agricuiturai Experiment Station, 81acksburg Dept. Of Piant Pathology And Physiology Virginia Agricuiturai Experiment Station, Chariottesvii Piedmont Fruit Research Laboratory Virginia Agricuiturai Experiment Station, Chatham Tobacco Disease Research Station Virginia Polytechnic Institute, 81acksburg Dept. Of Entomology Virginia Polytechnic Institute, Biacksburg Dept. Of Piant Pathology And Physiology	3166 3079 2931 2927 2062 2889 3125
University Of Wyoming, Laramie 2990 University Of Wyoming, Laramie 2990 University Of Wyoming, Laramie 2000 Virginia Agriculturai Experiment Station Dept. Of Piant Pathology And Physiology Uriginia Agriculturai Experiment Station, Charlottesvii Pledmont Fruit Research Laboratory Virginia Agriculturai Experiment Station, Charlottesvii Tobacco Disease Research Station Virginia Agriculturai Experimental Station, Holland Tidewater Research Station Virginia Polytechnic Institute, Blacksburg Dept. Of Plant Pathology Virginia Polytechnic Institute, Blacksburg Dept. Of Plant Pathology And Physlology Warren a Turf Nursery, Polos Park, Ili.	3166 3079 2931 2927 2062 2889 3125 3178 2777
University Of Wyoming, Laramie 2990 University Of Wyoming, Laramie 2990 University Of Wyoming, Laramie 200 Virginia Agriculturai Experiment Station, 81acksburg Dept. Of Piant Pathology And Physlology Virginia Agriculturai Experiment Station, Charlottesvii Pledmont Fruit Research Laboratory Virginia Agriculturai Experiment Station, Chatham Tobacco Disease Research Station Virginia Agriculturai Experimental Station, Holiand Tidewater Research Station Virginia Polytechnic Institute, 81acksburg Dept. Of Plant Pathology And Physlology Virginia Polytechnic Institute, Biacksburg Dept. Of Plant Pathology And Physlology Warren s Turf Nursery, Palos Park, III. Research Dept. 2448 2449	3166 3079 2931 2927 2062 2889 3125 3178
University Of Wyoming, Laramie 2990 University Of Wyoming, Laramie 2990 University Of Wyoming, Laramie 200 Virginia Agricuiturai Experiment Station, 81acksburg Dept. Of Piant Pathology And Physlology Virginia Agricuiturai Experiment Station, Charlottesvii Pledmont Fruit Research Laboratory Virginia Agricuiturai Experiment Station, Charlottesvii Tobacco Disease Research Station Virginia Agricuiturai Experimental Station, Holiand Tidewater Research Station Virginia Polytechnic Institute, 81acksburg Dept. Of Entomology Virginia Polytechnic Institute, Blacksburg Dept. Of Plant Pathology And Physlology Warren a Turf Nursery, Paios Park, III. Research Dept. 2448 2449 Washington Agricuiturai Experiment Station, Puliman Regional Cereai Disease Research Laboratory	3166 3079 2931 2027 2062 2889 3125 3178 2777 3029 2759
University Of Wyoming, Laramie 2990 University Of Wyoming, Laramie 2990 University Of Wyoming, Laramie 200 Virginia Agriculturai Experiment Station, 81acksburg Dept. Of Piant Pathology And Physiology Virginia Agriculturai Experiment Station, Chariottesvii Piedmont Fruit Research Laboratory Virginia Agriculturai Experiment Station, Chatham Tobacco Disease Research Station Virginia Agriculturai Experimental Station, Holiand Tidewater Research Station Virginia Polytechnic Institute, 81acksburg Dept. Of Piant Pathology And Physiology Virginia Polytechnic Institute, Biacksburg Dept. Of Piant Pathology And Physiology Warren s Turf Nursery, Paios Park, III. Research Dept. 2448 2449 Washington Agriculturai Experiment Station, Puliman Regional Cereal Disease Research Laboratory Washington Agriculturai Experiment Station, Puliman	3166 3079 2931 2022 2889 3125 3178 2777 3029 2759 3221
University Of Wyoming, Laramie 2990 University Of Wyoming, Laramie 2990 University Of Wyoming, Laramie 2000 Virginia Agricuiturai Experiment Station, 81acksburg Dept. Of Piant Pathology And Physiology Virginia Agricuiturai Experiment Station, Charlottesvii Pledmont Fruit Research Laboratory Virginia Agricuiturai Experiment Station, Chatham Tobacco Disease Research Station Virginia Agricuiturai Experimental Station, Holiand Tidewater Research Station Virginia Polytechnic Institute, 81acksburg Dept. Of Entomology Virginia Polytechnic Institute, Blacksburg Dept. Of Entomology Virginia Polytechnic Institute, Blacksburg Dept. Of Plant Pathology And Physiology Warren s Turf Nursery, Paios Park, Ili. Research Dept. 2448 2449 Washington Agricuiturai Experiment Station, Puliman Regional Cereai Disease Research Laboratory Washington Agricuiturai Experiment Stations, Puliman	3166 3079 2931 2027 2062 2889 3125 3178 2777 3029 2759
University Of Wyoming, Laramie 2990 University Of Wyoming, Laramie 2090 University Of Wyoming, Laramie 2000 Virginia Agriculturai Experiment Station Dept. Of Piant Pathology And Physiology Urginia Agriculturai Experiment Station, Charlottesvii Pledmont Fruit Research Laboratory Virginia Agriculturai Experiment Station, Charlottesvi Tobacco Disease Research Station Virginia Agriculturai Experiments Station, Holland Tidewater Research Station Virginia Polytechnic Institute, Blacksburg Dept. Of Plant Pathology And Physiology Virginia Polytechnic Institute, Blacksburg Dept. Of Plant Pathology And Physiology Warren s Turf Nursery, Polos Park, III. Research Dept. 2448 2449 Washington Agriculturai Experiment Station, Puliman Regional Cereai Disease Research Laboratory Washington Agriculture Experiment Stations, Puliman Washington Agriculture Experiment Stations, Puliman Washington Agriculture Experiment Stations, Puliman Washington State Dept. Of Agriculture, Prosser Irrigated Agriculture Research And Extension Center	3166 3079 2931 2022 2889 3125 3178 2777 3029 2759 3221
University Of Wyoming, Laramie 2990 University Of Wyoming, Laramie 2990 University Of Wyoming, Laramie 2000 Virginia Agricuiturai Experiment Station, Blacksburg Dept. Df Plant Pathology And Physlology Virginia Agricuiturai Experiment Station, Charlottesvii Pledmont Fruit Research Laboratory Virginia Agricuiturai Experiment Station, Charlottesvii Tobacco Disease Research Station Virginia Agricuiturai Experimental Station, Holiand Tidewater Research Station Virginia Polytechnic Institute, Blacksburg Dept. Of Entomology Virginia Polytechnic Institute, Blacksburg Dept. Of Plant Pathology And Physlology Warren s Turf Nursery, Paios Park, Ili. Research Dept. 2448 2449 Washington Agricuiturai Experiment Station, Puliman Regional Cereai Disease Research Laboratory Washington Agricuiture Experiment Stations, Puliman Washington Agricuiture Experiment Stations, Puliman Washington State Dept. Of Agricuiture, Prosser Irrigoted Agricuiture Research And Extension Center 2309	3166 3079 2931 2022 2889 3125 3178 2777 3029 2759 3221
University Of Wyoming, Laramie 2990 University Of Wyoming, Laramie 20190 University Of Wyoming, Laramie 20190 Virginia Agriculturai Experiment Station Dept. Of Plant Pathology And Physiology Uriginia Agriculturai Experiment Station, Charlottesvii Pledmont Fruit Research Laboratory Virginia Agriculturai Experiment Station, Charlottesvii Pledmont Fruit Research Station Virginia Agriculturai Experimental Station, Charlottesvii Dept. Of Disease Research Station Virginia Agriculturai Experimental Station, Holland Tidewater Research Station Virginia Polytechnic Institute, Blacksburg Dept. Of Entomology Virginia Polytechnic Institute, Blacksburg Dept. Of Plant Pathology And Physiology Warren s Turf Nursery, Palos Park, III: Research Dept. 2448 2449 Washington Agriculturai Experiment Stations, Puliman Regional Cereai Disease Research Laboratory Washington Agriculture Experiment Stations, Puliman Washington Agriculture Research And Extension Center 2309	3166 3079 2931 2022 2889 3125 3178 2777 3029 2759 3221
University Of Wyoming, Laramie 2990 University Of Wyoming, Laramie 2990 University Of Wyoming, Laramie 200 Virginia Agricuiturai Experiment Station, Blacksburg Dept. Of Piant Pathology And Physlology Virginia Agricuiturai Experiment Station, Blacksburg Pethon truit Research Laboratory Virginia Agricuiturai Experiment Station, Charlottesvii Pledmont Fruit Research Laboratory Virginia Agricuiturai Experiment Station, Chatham Tobacco Disease Research Station Virginia Agricuiturai Experimental Station, Holiand Tidewater Research Station Virginia Polytechnic Institute, Blacksburg Dept. Of Entomology Virginia Polytechnic Institute, Blacksburg Dept. Of Plant Pathology And Physlology Warren s Turf Nursery, Palos Park, III. Research Dept. 2448 2449 Washington Agricuiturai Experiment Station, Puliman Regional Cereai Disease Research Laboratory Washington Agricuiture Experiment Stations, Puliman Washington State Dept. Of Agricuiture, Prosser Irrigated Agricuiture Ration 2310 2311 2313	3166 3079 2931 2927 2062 2889 3125 3178 2777 3029 2759 3221 3286
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University Of Wyoming, Laramie 2990 University Of Wyoming, Laramie 2990 University Of Wyoming, Laramie 200 Virginia Agricuiturai Experiment Station, Blacksburg Dept. Of Piant Pathology And Physlology Virginia Agricuiturai Experiment Station, Blacksburg Pethon truit Research Laboratory Virginia Agricuiturai Experiment Station, Charlottesvii Pledmont Fruit Research Laboratory Virginia Agricuiturai Experiment Station, Chatham Tobacco Disease Research Station Virginia Agricuiturai Experimental Station, Holiand Tidewater Research Station Virginia Polytechnic Institute, Blacksburg Dept. Of Entomology Virginia Polytechnic Institute, Blacksburg Dept. Of Plant Pathology And Physlology Warren s Turf Nursery, Palos Park, III. Research Dept. 2448 2449 Washington Agricuiturai Experiment Station, Puliman Regional Cereai Disease Research Laboratory Washington Agricuiture Experiment Stations, Puliman Washington State Dept. Of Agricuiture, Prosser Irrigated Agricuiture Ration 2310 2311 2313	3166 3079 2931 2927 2062 2889 3125 3178 2777 3029 2759 3221 3286
University Of Wyoming, Laramie 2990 University Of Wyoming, Laramie 2990 University Of Wyoming, Laramie 2000 Virginia Agricuiturai Experiment Station Dept. Of Piant Pathology And Physiology 2000 Virginia Agricuiturai Experiment Station, Blacksburg 2000 Dept. Of Piant Pathology And Physiology 2000 Virginia Agricuiturai Experiment Station, Charlottesvii Pledmont Fruit Research Laboratory 2000 Virginia Agricuiturai Experiment Station, Charlottesvii Otacco Disease Research Station Virginia Agricuiturai Experimental Station, Holiand Tidewater Research Station Virginia Polytechnic Institute, Blacksburg 2000 Dept. Of Entomology 2000 Virginia Polytechnic Institute, Blacksburg 2000 Dept. Of Plant Pathology And Physiology 2000 Warrens Turf Nursery, Paios Park, III. Research Dept. 2448 2449 Washington Agricuiturai Experiment Stations, Puliman Regional Cereai Disease Research Laboratory 2000 Washington Agricuiture Experiment Stations, Puliman Vashington Agricuiture Experiment Stations, Puliman Vashington State Dept. Of Agricuiture, Prosser Irrigated Agricuiture Research And Extension Center 2309 Washington State University 2310 2311 2313 Washington State University 2310 2311 2314 Washington State University 2310 2311 2315	3166 3079 2931 2927 2062 2889 3125 3178 2777 3029 2759 3286 2312
University Of Myoming, Laramie 2990 University Of Myoming, Laramie 20190 University Of Myoming, Laramie 20190 Virginia Agriculturai Experiment Station Dept. Of Plant Pathology And Physiology Uriginia Agriculturai Experiment Station, Charlottesvii Pledmont Fruit Research Laboratory Virginia Agriculturai Experiment Station, Charlottesvii Pledmont Fruit Research Station Virginia Agriculturai Experiments Station, Charlottesvii Dept. Of Plant Pathology And Physiology Virginia Agriculturai Experimental Station, Charlottesvii Pledmont Fruit Research Station Virginia Agriculturai Experimental Station, Holland Tidewater Research Station Virginia Polytechnic Institute, Blacksburg Dept. Of Entomology Virginia Polytechnic Institute, Blacksburg Dept. Of Plant Pathology And Physiology Warren s Turf Nursery, Palos Park, Ili. Research Dept. Washington Agriculturai Experiment Stations, Puliman Regional Cereai Disease Research Laboratory Washington Agriculture Experiment Stations, Puliman Washington State Dept. Of Agriculture, Prosser Irrigated Agriculture Research And Extension Center 2309 Washington State University, Prosser Irrigation Experiment Station Vashington State University, Prosser Irrigation State University, Prosser Irrigation Experiment Station Vashington State University, Prosser	3166 3079 2931 2927 2062 2889 3125 3176 2777 3029 2759 3221 3286 2312 2312 2957
University Of Wyoming, Laramie 2990 University Of Wyoming, Laramie 20190 University Of Wyoming, Laramie 20190 Virginia Agricuiturai Experiment Station 81 acksburg Dept. Df Piant Pathology And Physlology Virginia Agricuiturai Experiment Station, Blacksburg Dept. Df Piant Pathology And Physlology Virginia Agricuiturai Experiment Station, Charlottesvii Pledmont Fruit Research Laboratory Virginia Agricuiturai Experiment Station, Charlottesvii Tobacco Disease Research Station Virginia Agricuiturai Experimental Station, Holiand Tidewater Research Station Virginia Polytechnic Institute, Blacksburg Dept. Of Entomology Virginia Polytechnic Institute, Blacksburg Dept. Of Plant Pathology And Physlology Warren s Turf Nursery, Paios Park, IIi. Research Dept. 2448 2449 Washington Agricuiturai Experiment Station, Puliman Regional Cereai Disease Research Laboratory Washington Agricuiture Experiment Stations, Puliman Vashington Agricuiture Experiment Stations, Puliman Washington State Dept. Of Agricuiture, Prosser Irrigated Agricuiture Research And Extension Center 2309 Washington State Dept. Of Agricuiture, Prosser Irrigation Experiment Station 2310 2311 2313 Washington State University Dept. Of Entomology Washington State University, Prosser Irrigation Experiment Station Washington State University, Prosser Irrigation Experiment Station Washington State University, Prosser Irrigation Experiment Station Washington State University, Prosser Irrigation Experiment Station	3166 3079 2931 2027 2062 2889 3125 3178 2777 3029 2759 3221 3286 2312 2312 2957 2438
University Of Myoning, Laramie 2990 University Of Myoning, Laramie 20190 University Of Myoning, Laramie 20190 Virginia Agriculturai Experiment Station Dept. Of Piant Pathology And Physiology Uriginia Agriculturai Experiment Station, Charlottesvii Pledmont Fruit Research Laboratory Virginia Agriculturai Experiment Station, Charlottesvii Dept. Of Piant Pathology And Physiology Virginia Agriculturai Experiments Station, Charlottesvii Diedmont Fruit Research Laboratory Virginia Agriculturai Experiments Station, Charlottesvii Dept. Of Experiments Station, Charlottesvii Dept. Of Experiments Station, Holland Tidewater Research Station Virginia Polytechnic Institute, Blacksburg Dept. Of Entomology Virginia Polytechnic Institute, Blacksburg Dept. Of Plant Pathology And Physiology Warren s Turf Nursery, Poios Park, Ili. Research Dept. Vashington Agriculturai Experiment Station, Puliman Regional Cereai Disease Research Laboratory Washington Agriculture Experiment Stations, Puliman Washington State Dept. Of Agriculture, Prosser Irrigated Agriculture Research And Extension Center 2309 Washington State Dept. Of Agriculture, Prosser Irrigation Experiment Station 2310 2311 2313 Washington State University Dept. Of Entomology Washington State University, Prosser Irrigation Experiment Station Washington State University, Prosser Irrigation Experiment Station Washington Agriculture Experiment Station Dept. Of Piant Pathology	3166 3079 2931 2927 2062 2889 3125 3176 2777 3029 2759 3221 3286 2312 2312 2957
University Of Wyoming, Laramie 2990 University Of Wyoming, Laramie 2090 University Of Wyoming, Laramie 2000 Virginia Agricuiturai Experiment Station Dept. Of Piant Pathology And Physiology 2000 Virginia Agricuiturai Experiment Station, Blacksburg 2000 Dept. Of Piant Pathology And Physiology 2000 Virginia Agricuiturai Experiment Station, Charlottesvii Pledmont Fruit Research Laboratory 2000 Virginia Agricuiturai Experiment Station, Charland 2000 Tidewater Research Station Virginia Agricuiturai Experimental Station, Holiand 2000 Tidewater Research Station Virginia Polytechnic Institute, Blacksburg 2000 Dept. Of Entomology 2000 Virginia Polytechnic Institute, Blacksburg 2000 Dept. Of Plant Pathology And Physiology 2000 Warren S Turf Nursery, Paios Park, Ili. Research Dept. 2010 Resional Cereai Disease Research Laboratory 2000 Washington Agricuiturai Experiment Stations, Puliman 2000 Resional Cereai Disease Research And Extension Center 2000 Washington State Dept. Of Agricuiture, Prosser 2000 Irrigaton Experiment Station 2000 2001 2000 Washington State University 2000 Washington State University 2000 Washington State University 2000 Washington State University, Prosser 2000 Washington State	3166 3079 2931 2027 2062 2889 3125 3178 2777 3029 2759 3221 3286 2312 2312 2957 2438
University Of Wyoning, Laramie 2990 University Of Wyoning, Laramie 2990 University Of Wyoning, Laramie 2000 Virginia Agricuiturai Experiment Station Dept. Of Piant Pathology And Physiology Urginia Agricuiturai Experiment Station, Blacksburg Dept. Of Piant Pathology And Physiology Virginia Agricuiturai Experiment Station, Charlottesvii Pledmont Fruit Research Laboratory Virginia Agricuiturai Experiment Station, Charlottesvii Tobacco Disease Research Station Virginia Agricuiturai Experimental Station, Holiand Tidewater Research Station Virginia Polytechnic Institute, Blacksburg Dept. Of Entomology Virginia Polytechnic Institute, Blacksburg Dept. Of Plant Pathology And Physiology Warren s Turf Nursery, Paios Park, Ili. Research Dept. 2448 2449 Vashington Agricuiturai Experiment Stations, Puliman Regional Cereai Disease Research Laboratory Washington Agricuiture Experiment Stations, Puliman Washington Agricuiture Experiment Stations, Puliman Washington State Dept. Of Agricuiture, Prosser Irrigated Agricuiture Research And Extension Center 2309 Washington State University Dept. Of Entomology Washington State University, Prosser Irrigation Experiment Station Washington State University, Prosser Irrigation Experiment Station Washington State University, Prosser Irrigation Experiment Station Washington Agricuiturei Experiment Station Dept. Of Piant Pathology Washington State University, Prosser Irrigation Experiment Station Washington State University, Prosser Vashington Cordinate Experiment Station Dept. Of Piant Pathology	3166 3079 2931 2027 2062 2889 3125 3178 2777 3029 2759 3221 3286 2312 2312 2957 2438
University Of Myoning, Laramie 2990 University Of Myoning, Laramie 2000 University Of Myoning, Laramie 2000 Virginia Agriculturai Experiment Station 400 Dept. Of Plant Pathology And Physiology 2000 Uriginia Agriculturai Experiment Station, Charlottesvii Pledmont Fruit Research Laboratory 2000 Virginia Agriculturai Experiment Station, Charlottesvii Pledmont Fruit Research Station 2000 Virginia Agriculturai Experiment Station, Charlottesvii Pledmont Fruit Research Station 2000 Virginia Agriculturai Experiment Station, Charlottesvii Pledmont Fruit Research Station 2000 Virginia Agriculturai Experiments Station, Holland Tidewater Research Station Virginia Polytechnic Institute, Blacksburg Dept. Of Plant Pathology And Physiology Warren 3 Turf Nursery, Paios Park, Ili. Research Dept. 2448 2449 Washington Agriculturai Experiment Stations, Puliman Regional Cereai Disease Research Laboratory Washington Agriculture Experiment Stations, Puliman Regional Cereai Disease Research Laboratory Washington Agriculture Experiment Stations, Puliman Washington Agriculture Research And Extension Center 2309 Washington State Dept. Of Agriculture, Prosser Irrigated Agriculture Research And Extension Center 2313 Washington State University, Prosser Irrigation Experiment Station 2310 2311 2313 Washington State University, Prosser Irrigation Experiment Station Dept. Of Entomology Washington Agriculturai Experiment Station Dept. Of Plant Pathology Washington State University, Prosser Irrigation Experiment Station Dept. Of Plant Pathology Washington State University, Prosser Irrigation Experiment Station Dept. Of Plant Pathology Washington State University, Prosser Irrigation Experiment Station Dept. Of Plant Pathology Washington State University, Prosser Washington Agriculturai Experiment Stations Dept. Of Plant Pathology Washington State University, Prosser Washington State University, Prosser Iversity Plant Pathology Washington State University, Prosser Washington State University, Prosser	3166 3079 2931 2027 2062 2889 3125 3178 2777 3029 2759 3221 3286 2312 2957 2438 3025 2437
University Of Myoning, Laramie 2990 University Of Myoning, Laramie 2090 University Of Myoning, Laramie 2000 Virginia Agriculturai Experiment Station Dept. Of Piant Pathology And Physiology Virginia Agriculturai Experiment Station, Charlottesvii Pledmont Fruit Research Laboratory Virginia Agriculturai Experiment Station, Charlottesvii Pledmont Fruit Research Station Virginia Agriculturai Experiments Station, Charlottesvii Dept. Of Piant Pathology And Physiology Virginia Agriculturai Experiments Station, Charlottesvii Dept. Of Disease Research Station Virginia Polytechnic Institute, Blacksburg Dept. Of Entomology Virginia Polytechnic Institute, Blacksburg Dept. Of Plant Pathology And Physiology Warren s Turf Nursery, Poios Park, III. Research Dept. 2448 2449 Washington Agriculturai Experiment Stations, Puliman Regional Cereai Disease Research Laboratory Washington Agriculture Experiment Stations, Puliman Washington State Dept. Of Agriculture, Prosser Irrigation State Dept. Of Agriculture, Prosser Irrigation State University Dept. Of Entomology Washington State University, Prosser Irrigation Experiment Station Washington State University, Prosser Irrigation Experiment Station Washington State University, Prosser Irrigation Experiment Station Dept. Of Piant Pathology Washington State University, Prosser Irrigation Experiment Station Dept. Of Piant Pathology Washington State University, Prosser Irrigation Experiment Station Dept. Of Piant Pathology Washington State University, Prosser Unifiation Experiment Station Dept. Of Piant Pathology Washington State University, Prosser Usington State University, Pr	3166 3079 2931 2027 2062 2889 3125 3178 2777 3029 2759 3221 3286 2312 2957 2438 3025
University Of Myoning, Laramie 2990 University Of Myoning, Laramie 2090 University Of Myoning, Laramie 2000 Virginia Agriculturai Experiment Station Dept. Of Piant Pathology And Physiology Urginia Agriculturai Experiment Station, Charlottesvii Pledmont Fruit Research Laboratory Virginia Agriculturai Experiment Station, Charlottesvii Dept. Of Piant Pathology And Physiology Virginia Agriculturai Experiment Station, Charlottesvii Diedmont Fruit Research Laboratory Virginia Agriculturai Experiment Station, Chatham Tobacco Disease Research Station Virginia Agriculturai Experimental Station, Holland Tidewater Research Station Virginia Polytechnic Institute, Blacksburg Dept. Of Plant Pathology And Physiology Warren s Turf Nursery, Palos Park, Ill. Research Dept. Washington Agriculturai Experiment Stations, Puliman Regional Cereai Disease Research Laboratory Washington Agricultura Experiment Stations, Puliman Nashington Agriculture Experiment Stations, Puliman Washington State Dept. Of Agriculture, Prosser Irrigated Agriculture Research And Extension Center 2309 Washington State Dept. Of Agriculture, Prosser Irrigation Experiment Station 2310 2311 2313 Washington State University, Prosser Irrigation Experiment Station Dept. Of Entomology Washington State University, Prosser Irrigation Experiment Station Mashington State University, Prosser Irrigation Experiment Station Dept. Of Piant Pathology Washington State University, Prosser Washington State University, Prosser Washingt	3166 3079 2931 2027 2062 2889 3125 3178 2777 3029 2759 3221 3286 2312 2957 2438 3025 2437
University Of Wyoning, Laramie 2990 University Of Wyoning, Laramie 2090 University Of Wyoning, Laramie 2000 Virginia Agricuiturai Experiment Station 81 acksburg Dept. Df Piant Pathology And Physiology Virginia Agricuiturai Experiment Station, Blacksburg Dept. Df Piant Pathology And Physiology Virginia Agricuiturai Experiment Station, Charlottesvii Pledmont Fruit Research Laboratory Virginia Agricuiturai Experiments Station, Charlottesvii Tobacco Disease Research Station Virginia Agricuiturai Experimental Station, Holiand Tidewater Research Station Virginia Polytechnic Institute, Blacksburg Dept. Of Entomology Virginia Polytechnic Institute, Blacksburg Dept. Of Plant Pathology And Physiology Warren s Turf Nursery, Paios Park, Ili. Research Dept. 2448 2449 Washington Agricuiturai Experiment Stations, Puliman Regional Cereai Disease Research Laboratory Washington Agricuiture Experiment Stations, Puliman Vashington Agricuiture Experiment Stations, Puliman Vashington State Dept. Of Agricuiture, Prosser Irrigaton Experiment Station 2310 2311 2313 Washington State University Dept. Of Entomology Washington State University, Prosser Irrigation Experiment Station Vashington State University, Prosser Irrigation Experiment Station Vashington Agricuitural Experiment Station Dept. Of Entomology Washington Agricuitural Experiment Station Dept. Of Piant Pathology Washington Agricuitural Experiment Station Dept. Of Piant Pathology Washington Agricuitural Experiment Station Dept. Of Piant Pathology Washington State University, Prosser Vashington Agricuitural Experiment Station Dept. Of Piant Pathology Washington State University, Prosser Washington State University, Prosser Washington Agricuitural Experiment Station Dept. Of Piant Pathology Washington State University, Puliman Dept. Of Piant Pathology Washington State University, Puliman Dept. Of Piant Pathology	3166 3079 2931 2927 2062 2889 3125 3178 2777 3029 2759 3221 3286 2312 2957 2438 3025 2437 2380

Washington State University, Wenatchee	
Tree Fruit Experiment Station 2845 2846	3144
Washington University, St. Louis, Mo.	2061
Watermeion And Grape Investigations Lab., Leesburg, Fla.	
3282	
Weather Bureau Agricuitural Service Office	2554
West African Cocoa Research institute, Tafo, Africa	2895
West African Cocoa Research Institute, Tafo, Ghana	2194
2896	2. 34
West Virginia Dept. Of Agricuiture, Morgantown	2454
Vest Virginia University, Korgantown	
Dept. Of Plant Pathology	3042
West Virginia University, Morgantown	
Dept. Of Plant Pathology, Bacteriology And Entomology	
3005	
West Virginia University, Morgantown	
Dept. Of Plant Pathology, Bacteriology, And Entomology	
2620	
Western Washington Experiment Station, Puyallup	2465
Weyerhaeuser Company, Centralia, Wash.	
Forestry Research Center	2979
Wisconsin State Dept. Of Agriculture, Madison	
Division Of Plant Industry	2496
Wye College, Kent	3243
Yale School Of Forestry, New Haven, Conn.	2241
Yale University, New Haven, Conn.	
School Of Forestry 2372	2742

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