

A LIST OF THE SUGAR CANE INSECTS OF NEGROS OCCIDENTAL

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The writer spent the period from August, 1927, to March 1, 1930, in Occidental Negros, P. I., in the employ of the Victorias Milling Co., and the North Negros Sugar Co., in the study of sugar cane insects. The results of these studies include the collection of a considerable collection of sugar cane insects, with many notes upon them. A large number of these species have now been determined by specialists, and it is possible therefore to list the more important enemies of the sugar-cane, and many of the parasites. By listing these at this time sugar-cane entomologists will be able to use the information without having to wait upon full reports.

Through the interchange of planting stocks the sugar-cane pests of Negros have been largely derived from Java, India, and other parts of the Orient.

I have presented the list in the tabular form in order to bring together the species responsible for the various types of injury, and also the determined enemies of each.

SUGAR CANE INSECTS OF OCCIDENTAL NEGROS, P. I.

Nature of damage	Name of insect	Enemies
Root grubs "buc-an" Very destructive	<i>Leucopholis irrorata</i> Chevrolat	<i>Campsomeris reticulata</i> Cameron <i>Campsomeris aureicollis</i> Lepeletier <i>Tyroglyphus</i> sp. <i>Rhizoglyphus</i> sp. <i>Isaria</i> sp. (fungus) <i>Cordyceps</i> sp. (fungus) Probably <i>Campsomeris annulata</i> Fabricius <i>Campsomeris annulata</i> Fabricius <i>Campsomeris marginella modesta</i> Smith
	<i>Anomala anoguttata</i> Burmeister <i>Anomala humeralis</i> Burmeister <i>Autoserica nigrarubra</i> Brancsik <i>Holotrichia mindanaona</i> Brancsik <i>Lepidiodia pruinosa</i> Burmeister All of above	
Large root destroyers	A cicadid larva <i>Gryllotalpa africana</i> Pal. Beauv. <i>Thibops</i> sp. (Cerambycid) ? Collembola undetermined Lepismids undetermined Molluscs undetermined <i>Macroscytus transversus</i> Burm.	The crow, <i>Corone philippina</i> Bonaparte The lark, <i>Alauda wattersi</i> Swinhoe Probably the blind snake <i>Typhlops braminus</i> (Daudin) eats the eggs
Root corrodors		
Root suckers: Bugs		

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Root suckers, cont.	<i>Stibaropus molginus</i> Schiödt	
Leaf hopper	<i>Oliarus impeditus</i> Muir	
Aphid	<i>Tetraneura lucifuga</i> Zehntner	
Mealy bug	<i>Trionymus sacchari</i> (Cockerell)	
Scale	<i>Antonina indica</i> Green	
Nematodes	<i>Cacorema radicola</i>	
	<i>Tylenchus similis</i>	
Seed cane injuries	<i>Macrotermes gilvus</i> Hagen	
Termites	<i>Microcerotermes losbanosensis</i> Oshima	<i>Odontoponera transversa</i> (F. Smith)
Beetles primary	<i>Coptotermes vastator</i> Light	
	<i>Alyssonotum pauper</i> Burmeister	
Perhaps secondary	<i>Eutochia lateralis</i> Boheman	
	<i>Gonocephalum depressum</i> Fabricius	
	<i>Gonocephalum adpressum</i> Germar	
	<i>Carpophilus dimidiatus</i> Fabricius	
Ants nesting in stools	<i>Odontoponera transversa</i> (F. Smith)	
Some good	<i>Polyrhachis dives</i> F. Smith	
Some bad	<i>Camponotus maculatus taylori</i> Forel	Strepsipteron
	<i>Monomorium pharaonis</i> Linnaeus	
	<i>Dolichoderus bituberculatus</i> (Mayr)	
	<i>Odontomachus haematodes</i> Linnaeus	
	<i>Solenopsis geminata rufa</i> (Jerdon)	

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Nature of damage	Name of insect	Enemies
Miscellaneous stool inhabitants	<i>Oligomyrmex</i> n. sp. <i>Tapinoma melanocephalum</i> Fabricius Large centipedes Spiders Slugs Dipterous leaf miner Flea beetle <i>Aphis sacchari</i> Zehntner <i>Aphis maidis</i> Fitch <i>Olethreutes schistaceana</i> Snellen	<i>Trichogramma nana</i> Zehntner <i>Microbracon chilonis</i> (Viereck) <i>Chelonus albicinctus</i> Ashmead <i>Goniozus</i> sp. Tachinid species <i>Phanurus beneficiens</i> Zehntner <i>Trichogramma nana</i> Zehntner <i>Trichogramma minutum</i> Riley <i>Microbracon chilonis</i> (Viereck) <i>Apanteles flavipes</i> Cameron <i>Goniozus</i> sp. Tachinid sp. <i>Anisolabis stali</i> Dohrn Egg parasite undetermined
Seedling cane injury		
Young shoot injury Dead heart moth borers	<i>Diatraea infuscatella</i> Snellen	
	Both of above probably <i>Sesamia inferens</i> Walker and	

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Moth borers, cont.	<i>Sesamia uniformis</i> Dudgeon	<i>Microbracon chilonis</i> (Viereck) <i>Apanteles flavipes</i> Cameron <i>Ipobracon</i> sp. perhaps <i>famulus</i> Bingham <i>Xanthopimpla enderleini</i> Krieger <i>Kriegeria heptazonata</i> Ashmead
Beetles, fly-borer	<i>Siboga falsella</i> Snellen <i>Diatraea venosata</i> Walker <i>Amata deflocca</i> Swinhoe An <i>Acronyctine</i> n. sp. An anthomyiid <i>Alyssonotum pauper</i> Burmeister <i>Eutochia lateralis</i> Boheman <i>Aleocharinae</i> <i>Europs</i> sp. <i>Hemipeplus</i> sp. Numerous flies as yet undetermined <i>Tyroglyphus</i> sp. <i>Histioglyphus</i> sp. <i>Uropoda</i> sp. Parasitidæ (mites) Collembola. <i>Topeutis intacta</i> Snellen <i>Topeutis auriflua</i> Zeller and	
Dead heart scavengers, etc.		
Stalk injuries Moth borers		<i>Phanurus beneficiens</i> Zehntner <i>Eripteronomorpha javensis</i> Rohwer

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Stalk injuries, cont.	<i>Topeutis</i> spp. cont.	<i>Elasmus zehntneri</i> Ferriere <i>Stenobracon trifasciatus</i> Szepilgeti <i>Hormiopterus schoenobii</i> Rohwer <i>Aspergillus flavus</i> (fungus) See above under dead heart
Moth borers, cont.	<i>Sesamia uniformis</i> Dudgeon <i>Sesamia inferens</i> Walker <i>Olethreutes schistaceana</i> Snellen <i>Diatraea venosata</i> Walker <i>Diatraea infuscatella</i> Snellen <i>Trochorhopalus strangulatus</i> Gyllenhal	See above under dead heart
Weevil	<i>Xyleborus perforans</i> Wollaston	See above under dead heart
Shot hole borers	<i>Xyleborus</i> near <i>luzonicus</i> Eggers <i>Coptotermes vastator</i> Light <i>Eutochia lateralis</i> Boheman <i>Opogona dimidiatella</i> Zeller <i>Ereunitis</i> sp.	Tachinid <i>Rattus concolor</i>
Termite	<i>Trionymus sacchari</i> (Cockerell) is attended by <i>Dolichoderus bituber-</i> <i>culatus</i> (Mayr)	
Node girdlers and bud worms		
Suckers		Chalcid parasite
Mealy bug		<i>Haptonchus luteolus</i> Er. and <i>Carpophilus</i> sp. are associated <i>Aspergillus flavus</i> (fungus disease)
Scale	<i>Pseudococcus</i> sp. <i>Aulacaspis tegalensis</i> (Zehntner)	Chalcid parasite

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Leaf injury	<i>Aulacaspis</i> , cont. <i>Aphis sacchari</i> Zehntner attended by <i>Polyrhachis dives</i> F. Smith and <i>Solenopsis geminata rufa</i> (Jerdon)	Coccinellid predators
Juice suckers Aphids	<i>Aphis maidis</i> Fitch <i>Oregma lanigera</i> Zehntner attended by <i>Polyrhachis dives</i> F. Smith <i>Dolichoderus bituberculatus</i> (Mayr) Juices attacked by <i>Capnodium</i> fungus	Chalcid parasite <i>Micromus pusillus</i> Gerst. <i>Cryptoblabes</i> sp. <i>Synonymcha grandis</i> Thunberg Syrphids Braconid parasite, several Coccinellids
Scales	<i>Chionaspis depressa</i> Zehntner <i>Icerya</i> n. sp. <i>Icerya seychellarum</i> Westwood (oc- casional visitor)	
White flies	<i>Neomaskellis bergii</i> Signoret attend- ed by <i>Dolichoderus bituberculatus</i> (Mayr) <i>Polyrhachis dives</i> F. Smith <i>Aleurolobus barodensis</i> Maskell <i>Aleyrodes lactea</i> Zehntner Several species undetermined <i>Paratetranychus exsiccator</i> Zehntner <i>Perkinsiella vastatrix</i> Breddin per-	Chalcid parasite Chalcid parasite Three species of egg parasites

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Juice suckers, cont.	haps inoculates red rot <i>Colletotrichum falcatum</i> <i>Proutista moesta</i> Westwood inoculates <i>Cercospora</i> leaf spot <i>Lophops carinatus</i> Kirby <i>Ricania teniata</i> Stål <i>Ricania proxima</i> Melsheimer <i>Tettigoniella spectra</i> Distant <i>Cosmopteryx pallifasciella</i> Sn. <i>Monochirus callicanthus</i> Bates <i>Cosmopteryx dulcivora</i> Meyrick <i>Atractomorpha psittacina</i> Haan <i>Euconocephalus nasutus</i> Thunb. <i>Aeolopus tamulus</i> Fabricius <i>Mecopoda elongata</i> Linnaeus <i>Locusta migratoria</i> Linnaeus <i>Phaneroptera furcifera</i> <i>Liogryllus bimaculata</i> DeGeer <i>Rhaphidophora deusta</i> Brunner <i>Laelia suffusa</i> Walker <i>Parnara nondoa</i> Plotz <i>Parnara mathias</i> Fabricius	Dryinid <i>Paederus fuscipes</i> Curtis Predatory bug Egg parasites Strepsipteron Parasite Parasite Tachinid Tachinid
Leaf eaters: miners in blade		
Miners in midrib		
Chewers: Grasshoppers		
Crickets		
Lepidoptera		

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Leaf eaters, cont.	<i>Parnara</i>, cont. <i>Padraona nitida</i> Mab. <i>Melanitis leda</i> Linnaeus <i>Mycalasis mineus</i> Linnaeus <i>Marasmia trapezalis</i> Guenee <i>Spodoptera mauritia</i> Boisduval <i>Laphygma exempta</i> Walker Undetermined leaf feeder <i>Utetheisa pulchella</i> Linnaeus lays eggs on cane but feeds on <i>Heliotropium indicum</i> <i>Pyrausta nubilalis</i> Hübner twice taken ovipositing on cane <i>Zinckenia fascialis</i> Cr. <i>Craspedia actuarii</i> Walker <i>Calogramma festiva</i> Donovan. <i>Dinara combusta</i> Moore <i>Crambus malacellus</i> Dup. <i>Nymphula fluctuosalis</i> Zeller <i>Pyrausta nubilalis</i> Hübner twice <i>Eretmocera percnophanes</i> Meyrick	<i>Bracon alquei</i> Ashmead Chalcid <i>Apanteles</i> sp. with hyperparasite <i>Diaglypta prodeniae</i> Ashmead <i>Apanteles antipoda</i> Ashmead <i>Microplitis manilae</i> Ashmead <i>Apanteles taragamae</i> Viereck
Miscellaneous Lepidoptera caught on cane		

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Cane flower insects	<i>Balclutha</i> sp. <i>Macrosiphum</i> near <i>granarium</i> Kirby <i>Europs</i> sp. Collembola Geometrid <i>Proreus simulans</i> Stal <i>Anisolabus stali</i> Dohrn <i>Mareta humbertiana</i> Saussure <i>Blattella</i> near <i>germanica</i> <i>Hierodula patellifera</i> Serv. <i>Statilia maculata</i> Thunberg <i>Ropalidia</i> sp. Cecidomyiid larva feeding on spores of <i>Uromyces kuhni</i> Krueg. cause of cane rust <i>Cyclosa melanura</i> Simon <i>Cyclosa insulana</i> Costa <i>Thomisus laglaizii</i> Simon <i>Heratensis chrysozona</i> Simon <i>Tetragnatha hasselti</i> Thor <i>Argiope aemula</i> Walck <i>Ischnocolus insularis</i> Simon <i>Plerippus paykulli</i> A. & S.	<i>Entomophthora forficulæ</i> Egg parasites Egg parasites Egg parasites Egg parasites
Miscellaneous cane insects		
Predators		
Roaches		
Mantids		
Wasps		
Fungus feeder		
Spiders		



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