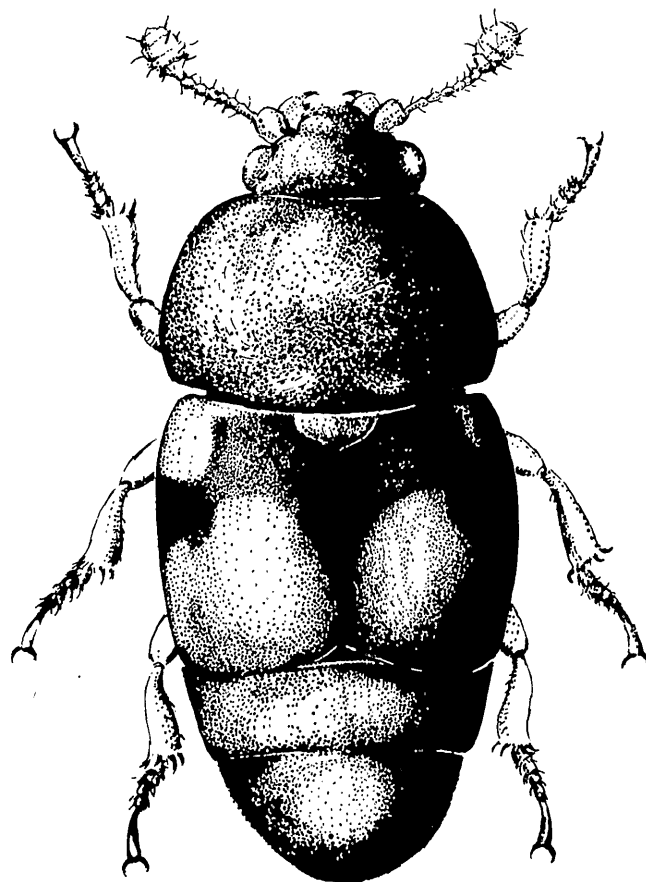


Bibliography of the Genus *Carpophilus* Stephens (Coleoptera: Nitidulidae)

R. N. WILLIAMS, D. S. FICKLE, M. KEHAT,
D. BLUMBERG, AND M. G. KLEIN



**The Ohio State University
Ohio Agricultural Research and Development Center
Wooster, Ohio 44691**

This page intentionally blank.

CONTENTS

Introduction	3
List of the species and their distribution	7
Species finder (for synonyms, etc.)	12
Bibliography	15
Subject index	82

COVER

The drawing of the driedfruit beetle, Carpophilus hemipterus (L.), on the front cover was done by Pongsak Thiemmedh. It was drawn on tracing vellum paper using a Koh-I-Noor Rapidograph pen.

SPONSORSHIP

This research was supported by Grant No. US 151-79 from the United States -Israel Binational Agricultural Research and Development Fund (BARD) and The Ohio State University Agricultural Research and Development Center.

All publications of the Ohio Agricultural Research and Development Center are available to all on a nondiscriminatory basis without regard to race, color, national origin, sex, or religious affiliation.

This page intentionally blank.

BIBLIOGRAPHY OF THE GENUS CARPOPHILUS STEPHENS

(COLEOPTERA:NITIDULIDAE)

R. N. Williams, D. S. Fickle, M. Kehat,
D. Blumberg, and M. G. Klein

INTRODUCTION

The purpose of this publication is to consolidate all known literature on the genus Carpophilus Stephens. Carpophilus species occur in all of the faunal regions of the world, with the great majority being found in the tropics. There are presently 191 species worldwide and 32 of these are found in the United States. The most common pest species are cosmopolitan in distribution, probably having been spread through international commerce.

The bibliographical information provided here was obtained by a thorough search of the libraries at The Ohio State University and the Ohio Agricultural Research and Development Center for the years 1758 to 1982. Abstracting journals which were searched through 1982 included: Entomology Abstracts, Biological Abstracts, Review of Applied Entomology and Bibliography of Agriculture and the Index to the Literature of American Economic Entomology. Two data bases (CAB abstracts and AGRICOLA) were searched through the DIALOG Information Retrieval Service by the OARDC Library. These searches revealed many references not found elsewhere. The literature searches recovered most, but not all, checklists, faunal lists, and comprehensive publications which contained information on the genus. We would appreciate receiving any additional citations which we have missed.

The genus Carpophilus was erected by Stephens in 1830. The last worldwide revision was published by Murray in 1964. The most recent world catalog is that of Grouvelle (1913). Parsons (1943) reviewed the species

found in the United States. The following description and comments on the genus is from Parsons 1943:

"Usually elongate, more or less depressed. Head broad but distinctly narrower than the pronotum. Clypeus indistinct, slightly porrect, margined by a depression at each side. Eyes usually large. Antennae a little longer than the head, first segment enlarged and often widened on the outside, second and third cylindrical, about of equal length, club compact, flattened, rounded or oval in outline. Antennal grooves moderately deep and convergent. Labrum bilobed, the lobes rounded. Mandibles usually with a large tooth on the inner side, behind the apex. Lacinia broad and rounded at tip. Maxillary palpi variable, rather short and thick, first segment small, the third usually shorter than the second. Ligula with rather large laterally projecting paraglossae; the palpi robust, first segment small, the next two about of equal length. Mentum more or less transverse, not strongly emarginate. Pronotum nearly or as broad as the elytra. Scutellum usually broadly rounded posteriorly. Epipleurae narrow to broad, extending about half the length of the elytra or to the apex. Elytra abbreviated, rarely exposing three, usually two abdominal segments. Ventral segments two and three very short; one, four, and five long. Prosternal process widened and rounded posteriorly, reaching the mesosternum. Mesocoxae about equally separated. An additional strongly deflexed segment in the male. Legs short, tarsi dilated. Claws simple.

Carpophilus is rather closely related to both Colastus and the Oriental Tetrisus, and serves to connect the Carpophilinae with the Nitidulinae.

Species of this genus occur most commonly in flowers and at sap under bark, less commonly in decaying or dried fruit and in fungi."

Carpophilus is the most important genus in the Nitidulidae when considering pest status. These beetles are among the most destructive insect pests of ripe fruits and dried fruits (Hinton 1945). Their persistence as nuisance pests at canning factories and other food processing areas is also well documented (Schmidt 1935, Hinton 1945, and Gallardo-Covas 1983). As was pointed out by Connell (1981), there is a critical need for a revision of the Carpophilus in light of the fact that the last revision was conducted by Murray (1864). The objective of this bibliography has been to concentrate the literature on the genus for our own research interests and hope that this will in some way stimulate interest by others to work with this group. We agree that a revision of the genus Carpophilus is badly needed.

The references which were most useful to us in putting this publication together were: Parson (1943 Nearctic), Chatterjee (1924 India), Murray (1864 World), Grouvelle (1913 World), Sharp (1889-99 Central America), Blackwelder (1945 Latin America), Leng (1920 Literature citations), Hinton (1945 Economically important species w/hosts) and Connell (1957 Biology and hosts of Nearctic species).

Citations are listed alphabetically by author except in cases where the publication is anonymous or more likely to be identified with the governmental agency under which it was published. Abbreviations in citations follow Hammack, G. M. 1970 "The serial literature of Entomology, a descriptive study." Entomol. Soc. Amer. 85 pp. or "American standard for periodical title abbreviations," Biological Abstracts, 45(13):4347-4361. Other abbreviations, especially those in foreign languages, usually follow abstracting journals.

This entire manuscript was processed through the text document processor (TDP) of the OARDC computer. Since it was impossible to enter accents through this system, these and other diacritical marks do not appear. This is particularly noticeable in the entries in German, French, Spanish and Portuguese. We apologize for any inconvenience which these omissions may cause.

ACKNOWLEDGMENTS

The authors wish to express their appreciation to the following persons who have contributed so much to this publication. To librarians Connie Britton and Susan Lowe for assistance in retrieval of citations and articles. To Pong Thiemmedh and Jim Werner for valuable assistance rendered. To Maxine Johnson and Mabel Kirchner for typing portions of the manuscript. To Dr. Edwin L. Soderstrom, USDA Stored-Product Insects Research Laboratory, Fresno, California, for assistance with references.

Very special assistance was rendered by an international group of Nitidulidae systematists who made great contributions to the species list, making it a more useful tool. They are: Dr. J. Jelinek, National Museum, Prague, Czechoslovakia; Dr. W. C. Connell, Emeritus Professor, University of Delaware, Newark; Dr. S. Endrody-Younga, Transvaal Museum, Pretoria, South Africa; Dr. R. M. Dobson, The University of Glasgow, Great Britain; and Mr. Lorin R. Gillogly, of San Pedro, California, retired from the California Department of Agriculture and more recently from USDA, APHIS.

We are very grateful for the input of each of those listed here.

LIST OF THE SPECIES OF CARPOPHILUS STEPHENS
AND THEIR DISTRIBUTION

This is an alphabetical listing of the good species of Carpophilus. If you do not locate a species within the list, then consult the "Species Finder" which follows.

Species and Synonyms	Distribution
<u>acutangulus</u> Reitt., 1884	Japan
<u>adumbratus</u> Murr., 1864	China
var. <u>conspicuus</u> Murr., 1864	
<u>alticola</u> Sharp, 1889	Guatemala
<u>analis</u> Grouv., 1899	Cameroon, Congo Rep.
<u>angustatus</u> Murr., 1864	Malagasy Rep.
<u>antiquus</u> (Melsh.), 1844	North America
var. <u>punctulatus</u> (Melsh.), 1844	
<u>apicipennis</u> Fairm., 1869	Malagasy Rep., Ivory Coast, Rep. Equat. Guinea, Tanzania
<u>assimilis</u> Olliff, 1883	Indonesia
<u>australis</u> Murr., 1864	Australia
<u>bakewelli</u> Murr., 1864	Australia
<u>bicolor</u> Grouv., 1892	Burma
<u>bifenestratus</u> Murr., 1864	India
<u>biguttatus</u> Motsch., 1858	India
<u>binotatus</u> Murr., 1864	Africa
<u>bipustulatus</u> (Heer), 1841	Europe, Africa
<u>quadripustalatus</u> Er., 1843 (Zool. Rec. 1882)	
<u>bisignatus</u> Boh., 1851	Africa
<u>bistigma</u> Grouv., 1908	West Africa
<u>brachypterus</u> (Say), 1825	North America
<u>carbonatus</u> Lec., 1859	
<u>brevipennis</u> (Blanch.), 1842	S.C. & N. America
<u>lacertosus</u> Murr., 1864	
<u>purpureipennis</u> Murr., 1864	
<u>ignobilis</u> Fall, 1910 (Parsons 1943)	
<u>californicus</u> Schaeffer, 1911	U.S.A. (Ariz. Calif.)
<u>canescens</u> Sharp, 1889	Mexico
<u>chalybeus</u> Murr., 1864	Japan, Siberia
<u>heterostomoides</u> (Reitt.), 1877	
<u>punctatissimus</u> Reitt., 1877	
var. <u>canus</u> Murr., 1864	
<u>cingulatoides</u> Nakane, 1959	Japan
<u>cingulatus</u> Reitt., 1884	Japan
<u>comatus</u> Sharp, 1889	Panama
<u>compressus</u> Murr., 1864	Brazil
<u>concolor</u> Sharp, 1889	Guatemala

<u>confertus</u> Sharp, 1889	Guatemala, Mexico, Panama
<u>constrictus</u> Grouv., 1908	West Africa
<u>corticinus</u> Er., 1843	North America
<u>craigheadi</u> Dobson, 1972	North America, (Cuba, Jelinek, unpubl.)
<u>crassicollis</u> Reitt., 1873	Colombia
<u>crassus</u> Sharp, 1889	Mexico
<u>cribratus</u> Murr., 1864	West India
<u>cuneiformis</u> Murr., 1864	Indonesia
<u>curvipes</u> Sharp, 1889	Guatemala, Mexico
<u>cylindricus</u> Murr., 1864	India
<u>davidsoni</u> Dobson, 1952	New Zealand, Australia
<u>debilis</u> Grouv., 1897	Indonesia
<u>deceptor</u> Sharp, 1889	Guatemala, Mexico
<u>deflexus</u> Sharp, 1889	Guatemala, Mexico, U.S.A. (Ariz.)
<u>delkeskampi</u> His., 1963	Japan, China, Sri Lanka, Philippines, India
<u>hemipterus</u> Lewis, 1879	
? <u>hemipterus</u> Reitt., 1884. (His., 1963)	
<u>deplanatus</u> Boh., 1851	South Africa
<u>dimidiatus</u> (F.), 1792	Cosmopolitan
<u>auropilosus</u> Woll., 1854	
<u>lewisi</u> Reitt., 1884	
<u>pusillus</u> Steph., 1830	
<u>contingens</u> (Walker), 1858	
<u>biguttatus</u> Gemm. & Har. (non Motsch.), 1868	
<u>dilutus</u> Murr., 1864	
<u>limbalis</u> Murr., 1864	
<u>nigritus</u> Murr., 1864	
<u>robustus</u> Murr., 1864	
<u>testaceus</u> Murr., 1864	
<u>hemipterus</u> (F.), 1792	
<u>bimaculatus</u> (Montr.), 1860	
<u>puberulus</u> (Montr.), 1860	
var. <u>ochropterus</u> Klug, 1862	
<u>tempestivus</u> Jacq.-du-Val (non Er.), 1856	
<u>discoideus</u> Lec., 1858	U.S.A.
<u>apicalis</u> Lec., 1859	
<u>caudalis</u> (Lec.), 1859	
<u>discolor</u> Murr., 1864	Malagasy Rep.
<u>distinctus</u> Reitt., 1873	Columbia
<u>dohrni</u> Reitt., 1876	Argentina
<u>dolens</u> Murr., 1864	Senegal, Rep. Equat. Guinea
<u>dubitabilis</u> (Grouv.), 1897	Burma
<u>dufaui</u> Grouv., 1908	Guadaloupe
<u>dulcis</u> Sharp, 1889	Guatemala
<u>elaterinus</u> Sharp, 1889	Panama
<u>epuraeoides</u> Sharp, 1889	Guatemala
<u>erichsoni</u> Sharp, 1889	Guatemala
<u>erythrogonus</u> Grouv., 1898	India
<u>extensus</u> Grouv., 1908	West Africa

<u>familiaris</u> Grouv., 1897	Burma
<u>feai</u> (Grouv.), 1890	Burma
<u>ferrugineus</u> Murr., 1864	Mexico, Guatemala, Panama
<u>flavipes</u> Murr., 1864	India
<u>floralis</u> Er., 1843	U.S.A., Mexico
<u>pallipennis</u> Murray (in part), 1864, Horn (in part), 1879	
<u>foveicollis</u> Murr., 1864 (Endrody-Y. 1982)	Indonesia, Trop. Africa
<u>freemani</u> Dobson, 1956	N. & S. America, Morocco,
<u>dimidiatus</u> Er., 1843.	Reunion, Rep. Guinea
<u>frivolus</u> Murr., 1864	Australia, India, Philippines, Malaysia
<u>fulvipes</u> Motsch., 1858	India
var. <u>fuscus</u> Motsch., 1858	
<u>fumatus</u> Boh., 1851	Africa, U.S.A. (Fla.), West Indies, Malagasy Rep.
<u>funebri</u> Sharp, 1889	Guatemala, Panama, U.S.A. (Ariz.)
<u>funereus</u> Murr., 1864	India
<u>fusciceps</u> Grouv., 1913	Seychelles
<u>fuscus</u> Murr., 1864	Papua-New Guinea
<u>gaveni</u> Dobson, 1964	New Zealand, Australia
<u>gentilis</u> Murr., 1864	Australia
<u>grandis</u> Motsch., 1860	U.S.S.R. (Siberia)
<u>hebetatus</u> Grouv., 1908	India
<u>fulvipes</u> Grouv. (non Motsch.), 1894	
<u>hemipterus</u> (L.), 1758	Cosmopolitan
<u>aterrimus</u> MacLeay, 1873 (Hinton 1945)	
<u>bimaculatus</u> (L.), 1767	
<u>brevipennis</u> Germain, 1856	
<u>cadaverinus</u> (F.), 1801	
<u>dimidiatus</u> (Heer), 1841	
<u>ficus</u> (F.), 1801	
<u>flexuosus</u> (Herbst), 1790	
<u>pictus</u> (Heer), 1841	
<u>quadriguttatus</u> (Thunb.), 1794	
var. <u>quadratus</u> (F.), 1798	
<u>heros</u> Grouv., 1892	Burma
<u>hoffmannseggi</u> Murr., 1864	Malagasy Rep., Puerto Rico, Old World
<u>humeralis</u> (F.), 1798	Trop. Africa, Iran, Indonesia, U.S.A.
<u>picinus</u> (Boh.), 1851	
<u>punctatus</u> Fleut., 1887 (Connell 1981)	
<u>rickseckeri</u> Fall, 1910	
<u>humerosus</u> Reitt., 1873	Japan
<u>humilis</u> Er., 1843	Guatemala, Mexico, Venezuela
<u>inconspicuus</u> Murr., 1864	Batchian
<u>indicus</u> His., 1963	India, Sri Lanka, Iran
<u>kolleri</u> Grouv., 1912	Rep. Congo
<u>languidus</u> Er., 1843	Columbia
<u>lepidus</u> Murr., 1864	West India
<u>ligatus</u> Murr., 1864	West India

<u>ligneus</u> Murr., 1864	Guatemala, Mexico,
<u>decipiens</u> Horn, 1879 (Hinton 1945)	Nicaragua, Panama, France, U.S.A.
<u>littoralis</u> (Eschscholtz), 1822	French Polynesia
<u>longior</u> Grouv., 1912	Rep. Congo
<u>longiventris</u> Sharp, 1889	Mexico, U.S.A.
<u>longus</u> Fall, 1910	U.S.A.(Ariz.)
<u>loriai</u> (Grouv.), 1906	Papua-New Guinea
<u>lugubris</u> Murr., 1864	Brazil, Mexico, U.S.A., Guatemala, Venezuela, Australia
<u>luridipennis</u> MacLeay, 1873	
<u>excellens</u> Reitt., 1875	
<u>luteipennis</u> Reitt., 1873	Mexico
<u>maculatus</u> Murr., 1864	French Polynesia
<u>vittiger</u> Murr., 1864 (Hinton 1943)	
<u>marginatus</u> Er., 1843	U.S.A., Guatemala
<u>marginellus</u> Motsch., 1858	W. India, W. China, Argentine, Malagasy Rep., U.S.A., Africa
<u>nitens</u> Fall, 1910 (Hinton 1943)	
<u>megalops</u> Dobson, 1972	Unknown
<u>melanopterus</u> Er., 1843 (Parsons 1943)	U.S.A., Mexico
<u>mexicanus</u> Reitt., 1873.	Mexico, Guatemala, U.S.A. (Ariz.)
<u>limbipennis</u> Reitt., 1873	
<u>modiglianii</u> Grouv., 1897	Indonesia
<u>morio</u> Murr., 1864	Malagasy Rep.
<u>murrayi</u> Grouv., 1892	Burma, India
<u>mutabilis</u> Fairm., 1849	French Polynesia (Tahiti)
<u>mutilatus</u> Er., 1843	Cosmopolitan
<u>luridus</u> Murr., 1864. (Dobson 1960)	
<u>mycetophagus</u> (Lesne), 1938	Kenya, Uganda, Rep. Congo
<u>nepos</u> Murr., 1864	Brazil
<u>nigricans</u> (Grouv.), 1897	Indonesia
<u>nigrovittatus</u> Parsons, 1943.	Mexico, U.S.A. (Ariz.)
<u>nitidulus</u> Fletcher (date?) (see Dobson 1954)	Unknown
<u>nitidus</u> Murr., 1864	Africa
<u>notatus</u> Murr., 1864	Malagasy Rep.
<u>obesus</u> Murr., 1864	West India
<u>oblongopunctatus</u> Grouv., 1903	India
<u>obscurus</u> MacLeay, 1873	Australia
<u>obsoletus</u> Er., 1843	W. India, China, U.S.A., Africa, Japan, Iran, Malagasy Rep.
<u>cribellatus</u> Motsch., 1858	
<u>funereus</u> Reitt., (non Murr.) 1884	
<u>immaculatus</u> Lucas, 1849(Audisio 1983 unpubl.)	
<u>sericeus</u> Motsch. 1858(Jelinek 1983 unpubl.)	
var. <u>strigipennis</u> Motsch., 1858	
<u>obtusicolis</u> Reitt., 1873	Mexico
<u>oculatus</u> Murr., 1864	Society Islands
<u>opaculus</u> (Grouv.), 1897	Indonesia
<u>opacus</u> Grouv., 1908	Africa
<u>ophthalmicus</u> Murr., 1864	Central America, Mexico, Columbia, Trinidad, Guadeloupe
<u>ovatus</u> Grouv., 1912	Brazil, Argentina
<u>pallens</u> (Blanch.), 1842	

<u>sordidus</u> Er., 1847	
<u>pallescens</u> Murr., 1864	Papua-New Guinea
<u>pallipennis</u> (Say), 1823	U.S.A., Bahamas,
var. <u>pollens</u> Sharp, 1889	Mexico
<u>palmatus</u> Sharp, 1889	Guatemala
<u>pauculus</u> Reitt., 1873	Cape of Good Hope
<u>piceus</u> Grouv., 1906	Malagasy Rep.
<u>piger</u> Murr., 1864	Guatemala
<u>pilipennis</u> MacLeay, 1873	Australia
<u>pilosellus</u> Motsch., 1858	W. India, China,
<u>floridanus</u> Fall, 1910 (Gillogly 1962)	Japan, N.C. & S. America
<u>halli</u> Dobson, 1954	Malagasy Rep., Micronesia, Philippines
<u>plagiatiipennis</u> (Motsch.), 1858	India
<u>dilutus</u> (Motsch.), 1858	
<u>bosschai</u> (Grouv.), 1892	
<u>planatus</u> Murr., 1864	Australia
<u>prodicus</u> Hinton, 1944	Burma
<u>proximus</u> Grouv., 1906	Paraguay
<u>pubescens</u> Murr., 1864	Sri Lanka, China
<u>puncticeps</u> Murr., 1864	West Africa
<u>punctipennis</u> Reitt., 1873	Brazil
<u>pygidialis</u> Grouv., 1897	Indonesia
<u>quadrisignatus</u> Er., 1843 (His. 1963)	Europe, Algeria
<u>rubescens</u> Murr., 1864	Indonesia
<u>rubiginosus</u> Murr., 1864	Indonesia
<u>rubripennis</u> (Heer), 1841	S. Europe, N. Africa
<u>castanopterus</u> Er., 1843	(Soviet Middle Asia, Iran, Obs. Jelinek)
<u>rufangulus</u> Grouv., 1899	Cameroon, W., Cen. & E. Africa
<u>rufitarsis</u> Murr., 1864	Guatemala
<u>rufiventris</u> Schaeffer, 1911	U.S.A. (Ariz.)
<u>rufus</u> Murr., 1864	Central America, Mexico, U.S.A.
<u>sanguineofasciatus</u> Gemm. & Har., 1868	Malagasy Rep.
<u>biguttatus</u> Klug (non Motsch.), 1862	
<u>sanguinipennis</u> Grouv., 1897	Indonesia
<u>sayi</u> Parsons, 1943	N. America
<u>niger</u> Er. 1843 and others in error (non Say)	
<u>schioedtei</u> Murr., 1864	Indonesia
<u>scotti</u> Grouv., 1913	Seychelles
<u>scutellaris</u> Kraatz, 1895	Togo
<u>senex</u> Murr., 1864	Mexico
<u>senilis</u> Sharp, 1889	Central America, Mexico
<u>sexpustulatus</u> (F.), 1791	Europe
<u>abbreviatus</u> (Panz.), 1793	
<u>bimaculatus</u> (Marsh.), 1802	
<u>sibiricus</u> Reitt., 1879	Japan
<u>signatus</u> Grouv., 1908	India
var. <u>ornatus</u> Grouv., 1908	
<u>similaris</u> Sharp, 1889	Panama
<u>sinuatus</u> , Grouv. 1917	Philippines

<u>subplanus</u> Grouv., 1917	Philippines
<u>succisus</u> Er., 1843	Brazil, Central America, Argentina
<u>suturalis</u> Lea, 1921	Australia
<u>tectus</u> Murr., 1864	Indonesia
<u>tempestivus</u> Er., 1843	U.S.A., Cuba, Puerto Rico
var. <u>terminatus</u> Murr., 1864	
<u>tenenbaumi</u> Roubal, 1927	Israel
<u>tenuis</u> Murr., 1864	China, Japan
<u>tenuis hana</u> Nakane, 1959	Japan
<u>terminalis</u> Murr., 1864	Australia
<u>tersus</u> Woll., 1865	Canary Island
<u>teter</u> Grouv., 1913	Guatemala
obscurus Sharp (non MacLeay), 1889	
<u>titanus</u> Reitt., 1884	Japan
<u>transitans</u> Sharp, 1889	Mexico, Guatemala
<u>tristis</u> Er., 1843	Brazil, Argentina
<u>triton</u> Murr., 1864	U.S.S.R.(W. Siberia)
<u>truncatus</u> Murr., 1864	Malagasy Rep.
<u>tumidulus</u> Grouv., 1899	Cameroon, Angola
<u>undulatus</u> Grouv., 1908	India, Indonesia
<u>ustulatus</u> Murr., 1864	Papua-New Guinea
<u>variabilis</u> (Grouv.), 1897	Malaysia
<u>variolosus</u> Murr., 1864	Papua-New Guinea
<u>ventralis</u> Sharp, 1889	Guatemala
<u>veraepacis</u> Sharp, 1889	Guatemala
<u>viduatus</u> Sharp, 1889	Guatemala, Mexico
<u>vitraci</u> Grouv., 1902	Guadeloupe
<u>weyersi</u> Grouv., 1900	Indonesia
<u>xanthopterus</u> Murr., 1864	Indonesia
<u>yuccae</u> (Crotch), 1874	U.S.A.
<u>zeophilus</u> Dobson, 1969	Kenya, Uganda
<u>zuni</u> Casey, 1884	U.S.A.(N.M. & Ariz.)

SPECIES FINDER

The following is an alphabetical list of species which are no longer valid but were formerly species or varieties. Information is given on their present status. Most are synonyms, however, a few have been transferred to other genera.

abbreviatus (Panz.), 1793 (= sexpustulatus(F.))
apicalis Lec., 1859 (= discoideus Lec.)
aterrimus MacLeay, 1873 (= hemipterus (L.)) (Hinton 1945)
auropilosus Woll., 1854 (= dimidiatus (F.))
biguttatus Gemm. & Har. (non Motsch.), 1868 (= dimidiatus (F.))
biguttatus Klug (non Motsch.), 1862 (= sanguineofasciatus Gemm. & Har.)
bimaculatus (L.), 1767 (= hemipterus (L.))
bimaculatus (Marsh.), 1802 (= sexpustulatus (F.))
bimaculatus (Montr.), 1860 (= dimidiatus (F.))
bosschai (Grouv.), 1892 (= plagiatiipennis (Motsch.))
brevipennis Germain, 1856 (= hemipterus (L.))
cadaverinus (F.), 1801 (= hemipterus (L.))

canus Murr., 1864 (=chalybeus Murr.)
carbonatus Lec., 1859 (=brachypterus (Say))
castanopterus Er., 1843 (=rubripennis (Heer))
caudalis (Lec.), 1859 (=discoideus Lec.)
conspicuus Murr., 1864 (=adumbratus Murr.)
contingens (Walker), 1858 (=dimidiatus (F.))
convexiusculus MacLeay 1873 (=Haptoncura ocularis Fairm.) (Lea 1920)
cribellatus Motsch., 1858 (=obsoletus Er.)
decipiens Horn, 1879 (=ligneus Murr.)
dilutus (Motsch.), 1858 (=plagiatiennis (Motsch.))
dilutus Murr. 1864 (=dimidiatus (F.))
dimidiatus Er. 1843 (=freemani Dobson)
dimidiatus (Heer), 1841 (=hemipterus (L.))
excellens Reitt., 1875 (=luridipennis MacLeay)
ficus (F.), 1801 (=hemipterus (L.))
flavidus Fairm., 1849 (=Haptoncus)
flexuosus (Herbst), 1790 (=hemipterus (L.))
floridanus Fall, 1910 (=pilosellus Motsch.)
fulvipes Grouv. (non Motsch.), 1894 (=hebetatus Grouv.)
funereus Reitt. (non Murr.), 1884 (=obsoletus Er.)
fuscus Motsch., 1858 (=fulvipes Motsch.)
genuinus Heer? (Date unknown) (Letzner 1882, position unclear)
halli Dobson, 1954 (=pilosellus Motsch.)
hemipterus (F.), 1792 (=dimidiatus (F.))
hemipterus Lewis, 1879 (=delkeskampi His.)
hemipterus Reitt., 1884 (His., 1963) (=delkeskampi His.)
heterostomoides (Reitt.), 1877 (=chalybeus Murr.)
ignobilis Fall, 1910 (=brevipennis (Blanch.))
immaculatus Lucas, 1849 (Audisio 1983 unpubl.) (=obsoletus Er.)
lacertosus Murr., 1864 (=brevipennis (Blanch.))
lewisii Reitt., 1884 (=dimidiatus (F.))
limbalis Murr., 1864 (=dimidiatus (F.))
limbipennis Reitt., 1873 (=mexicanus Reitt.)
luridus Murr., 1864 (Dobson 1960) (=mutilatus Er.)
minutus (Melsh.) 1844 (position unclear)
niger Er. 1843 and others in error (non say) (=sayi Parsons)
nigritus Murr., 1864 (=dimidiatus (F.))
nitens Fall, 1910 (=marginellus Motsch.)
obscurus Sharp, (non MacLeay), 1889 (=teter Grouv.)
ochraceus (Er.), 1843 (=Haptoncus) (Grouv. 1912)
ochropterus Klug, 1862 (=dimidiatus (F.))
ordinatus Olliff, 1883 (Not Carpophilus, position unclear)
ornatus Grouv., 1908 (=signatus Grouv.)
ornatus Grouv., 1912 (Zoological Record 1913)
pallipennis Murray, 1864/Horn, 1879 (=floralis Er.)
picinus (Boh.), 1851 (=humeralis (F.))
pictus (Heer), 1841 (=hemipterus (L.))
pollens Sharp, 1889 (=pallipennis (Say))
puberulus (Montr.), 1860 (=dimidiatus (F.))
punctatus Fleut., 1887 (=humeralis (F.))
punctatissimus Reitt., 1879 (=chalybeus Murr.)
punctulatus (Melsh.), 1844 (=antiquus (Melsh.))
purpureipennis Murr., 1864 (=brevipennis (Blanch.))
pusillus Steph., 1830 (=dimidiatus (F.))

quadratus (F.), 1798 (=hemipterus (L.))
quadriguttatus (Thunb.), 1794 (=hemipterus (L.))
quadripustulatus Er. 1843 (=bipustulatus (Heer))
rickseckeri Fall. 1910 (=humeralis (F.))
robustus Murr. 1864 (=dimidiatus (F.))
sericeus Motsch., 1858 (Jelineki 1983 unpubl.) (=obsoletus Er.)
sordidus Er., 1847 (=pallens (Blanch.))
strigipennis Motsch., 1858 (=obsoletus Er.)
tempestivus Jacq.-du-Val (non Er.), 1856 (=dimidiatus (F.))
terminatus Murr., 1864 (=tempestivus Er.)
testaceus Murr., 1864 (=dimidiatus (F.))
vittiger Murr. 1864 (Hinton 1943) (=maculatus Murr.)

BIBLIOGRAPHY OF THE GENUS CARPOPHILUS STEPHENS
(Coleoptera: Nitidulidae)

001. Abou El-Ghar, M. R., and M. S. El-Rafie. 1964. Control measures of date pests in Egypt. Bull. Soc. Entomol. Egypte. 48:291-301.
002. Abreu, J. M. 1979. Survey, monitoring and chemical control of insect infestations in stored cacao, Bahia, Brasil. Ph.D. Thesis. O. St. Univ., Columbus. 116 pp.
003. Abreu, J. M., and R. N. Williams. 1980. Chemical control of insect infestations in stored-cacao, Bahia, Brasil. Rev. Theobroma 10(2):51-60.
004. Abul-nasr, S. E., M. A. Assem, and A. R. A. El-Sherif. 1974. Rates of infestation of the main insects attacking stored garlic bulbs. Bull. Soc. Entomol. Egypte. 58:31-4.
005. Adesuyi, S. A. 1969. An assessment of the efficacy of Phostoxin for the control of grain pests in silos. Part III. Lagos, Nigeria. Annu. Rep. Niger. Stored Prod. Res. Inst. pp. 39-44.
006. Agarwal, R. A. 1959. Occurrence of two nitidulid beetles on sugarcane. Indian J. Entomol. 20(1958) pt.2 pp.159-60.
007. Ahmed, M. K. 1978. Insect pests of corn in the Libyan Jamahirija and infestations associated with its seedling stage. Libyan J. Agr. 7:109-14.
008. Albert, D. W., and R. H. Hilgeman. 1935. Date growing in Arizona. Ariz. Agr. Exp. Sta. Bull. 149:1-286.
009. Allen, A. A. 1958. Carpophilus marginellus Motsch. (Col., Nitidulidae) establishes out of doors in southern England. Entomol. Mon. Mag. 94:70.
010. Amaral, A. P. do. 1930. Gorgulho do milho. Notas cientificas e praticas sobre tao calamitosa praga. Criador Paul., S. Paulo. 25(8):145-7.
011. Amos, T. G. 1965. Kinesis. Nature 208(5013):908-9.
012. Amos, T. G. 1965. Pearl eye in Carpophilus dimidiatus (F.) (Col., Nitidulidae). Amer. Natur. 99(908):421-3.
013. Amos, T. G. 1965. Studies on the orientation behavior of Carpophilus dimidiatus, C. hemipterus L. and other stored products beetles, in humidity gradients. Ph.D. Thesis. Univ. of St. Andrews. 241 pp.
014. Amos, T. G. 1965. Time lapse photography with synchronized electronic flash for recording insect behavior. Anim. Behav. 13(4):558-60.

015. Amos, T. G. 1967. Apparatus for studying locomotory activity of small animals with the aid of time-lapse photography. *J. Econ. Entomol.* 60(3):886-7.
016. Amos, T. G. 1967. Effect of desiccation on the light reactions of Carpophilus dimidiatus and Tribolium castaneum. *Entomol. Exp. Appl.* 10:329-36. (*Clavicornia*) described by the late Mr. Francis Walker. *Proc. Linn. Soc. New S. Wales* 10-69-72.
017. Amos, T. G. 1967. The effect of antennectomy on the humidity reactions of Carpophilus dimidiatus and C. hemipterus (Coleoptera, Nitidulidae). *Entomol. Exp. Appl.* 10:1-6.
018. Amos, T. G. 1968. Some observations on locomotory activity of Carpophilus hemipterus L. and C. dimidiatus F. *Entomol. Mon. Mag.* 103:241-4.
019. Amos, T. G. 1968. The effect of light on the humidity reactions of Carpophilus dimidiatus and Tribolium castaneum. *Entomol. Exp. Appl.* 11:331-40.
020. Amos, T. G. 1969. Reactions of Carpophilus spp. (Coleoptera, Nitidulidae) to humidity with reference to gradient steepness. *Anim. Behav.* 17:9-13.
021. Amos, T. G., P. W. C. Evans and R. E. Johns. 1980. Space treatment in a dried fruit warehouse using dichlorvos. *Gen. Appl. Entomol.* 12(0):5-9.
022. Amos, T. G., and F. L. Waterhouse. 1967. Phasic behavior shown by two Carpophilus spp. (Coleoptera, Nitidulidae) in various humidity gradients and its ecological significance. *Oikos* 18:345-50.
023. Andrews, F. G., A. R. Hardy, and D. Giuliani. 1979. The Coleopterous fauna of selected California sand dunes. *Calif. Dep. Food and Agr.* 101pp.
024. Anonymous. 1901. Occasional papers of the California Acad. of Sci. San Francisco. 8:98.
025. Anonymous. 1921. List of the committee on common names of economic insects in Hawaii. *Proc. Hawaii. Entomol. Soc.* 4(3):608.
026. Anonymous. 1934. Insect pests of dried fruits. *Mon. Bull. Calif. Dep. Agr.* 23(7-9):204-06.
027. Anonymous. 1935. Insect pests and their control. *Agr. Gaz. New S. Wales.* 46(4):201-5.
028. Anonymous. 1956. Control fruit beetles. *Farming in South Africa* 32(1):30,45.

029. Anonymous. 1960-1. Rep. Dep. Agr. New S. Wales., 91.
030. Anonymous. 1961. Insect pest survey. 15th Annu. Rep. Entomol. Br., New S. Wales Dep. Agr.
031. Anonymous. 1961-2. Rep. Dep. Agr. New S. Wales., 86.
032. Anonymous. 1971-74. Scientific activities 1971-74. Inst. Plant Protect. (Israel) (pp. unknown).
033. Anonymous. 1972. 1972 annual report. Hawaii. Sugar Planters' Ass. 77pp.
034. Anonymous. 1981. Pests of sugarcane in South Africa. Bull. Exp. Sta. S. African Sugar Ass. 8:1-23.
035. Apfelbeck, V. 1930. Neue Beitrage zur Systematischen Insektenkunde. Fauna Insectorum Balcanica. 7(2):218.
036. Archer, T. E. 1981. Levels of dichlorvos on figs, Ficus carica cultivar 'Calimyrna'. Hortscience 16(5):659-60.
037. Armitage, and Steinweden. 1945. Calif. Dep. Agr. Bull. 34:101-7.
038. Armstong, M. T. 1953. A note on infestation of Malayan illipe nuts on import. Tech. Circ. Minist. Agr. Fish, Food, Lond. Infest. Control Div. Entomol. Sect., No. 25. (pp. unknown).
039. Arnett, R. H. Jr. 1960. The beetles of the United States. Catholic Univ. Press, Washington, D.C. 1112 pp.
040. Arnett, R. H. Jr. 1983. No. 78. "Nitidulidae" in Checklist of the beetles of North and Central America and the West Indies, Vol. 5. "The Ladybird Beetles and Related Groups", Gainesville: Flora and Fauna Publications, 18pp.
041. Arthur, W. 1956. Insects in stored peanuts and their seasonal abundance. J. Econ. Entomol. 49:119-20.
042. Ashworth, L. J., R. E. Rice, J. L. McMeans, and C. M. Brown. 1971. Relationship of insects to infection of cotton bolls by Aspergillus flavus. Phytopathol. 61:488-93.
043. Atanasov, K. H. 1974. Insects attacking stored sunflower seed. Rasteniev dni Nauki 11(1):139-46.
044. Attia, R., and A. H. Kamel. 1965. The fauna of stored products in U.A.R. Bull. Soc. Entomol. Egypte. 49:221-32.
045. Audisio, P. 1982. Contributo alla conoscenza dei Nitidulidae (Coleoptera) della Sierra Leone. Ricerche Biologiche in Sierra Leone. Accademia Nazionale dei Lincei, Quad. 255:105-14.
046. Avidov, Z., and I. Harpaz. 1969. Plant pests of Israel. Israel Univ. Press, 549pp.

047. Bach, M. 1851. *Kaferfauna Deutschlands. Kaferfauna fur Nordund Mitteldeutschland, mit besonderer Rucksicht auf die preussischen Rheinlande.* Coblenz, Holscher. 413 pp.
048. Badawi, A., A. H. Kamel, and M. R. A. Saleh. 1977. Seasonal fluctuations of infestation and the population dynamics of certain pests attacking date bunches in the New Valley (Egypt). *Agr. Res. Rev.* 55(1):1-7.
049. Balachowsky, A. S. 1962. *Entomologie appliquee a l'Agriculture, t. I, Coleopteres.* Masson et Cie. edit., Paris. pp.318-30.
050. Balzer, A. I. 1942. Life history of the corn sap beetle in rice. *J. Econ. Entomol.* 35(4):606-7.
051. Balzer, A. I., and R. T. Cotton. 1947. Insect pests of stored rice and their control. U.S. Dep. Agr. Farmers' Bull. 1906. 22pp.
052. Bannister, R. T. 1974. Some additions to the Coleoptera of Cornwall (England). *Entomol. Mon. Mag.* 110(1325):252.
053. Barber, G. W., and F. F. Dicke. 1944. Observations on beetles of the family Nitidulidae in corn plants during 1944. U.S. Dep. Agr. Bur. Entomol. Plant Quar., Cereal and Forage Div. R-122, Toledo, Ohio. (pp. unknown).
054. Barger, W. R. 1940. Handling and storing small lots of dates at home. U.S. Dep. Agr. Cir. 553:1-11.
055. Barnes, D. F. 1937. *Calif. Agr. Mo. Bull.* 26:253.
056. Barnes, D. F. 1949. Information on beetles infesting figs. *Proc. Calif. Fig Inst.* 3:21-3.
057. Barnes, D. F. 1952. Observations on the spring food habits of nitidulid beetles which attack figs. *Proc. 6th Annu. Res. Conf. Calif. Fig Inst.* 6:7-8.
058. Barnes, D. F., and C. K. Fisher. 1934. Stimulation of fig insects by fumigants. *J. Econ. Entomol.* 27(4):860.
059. Barnes, D. F., C. K. Fisher, and G. H. Kaloostian. 1939. Flight habits of the raisin moth and other insects as indicated by the use of a rotary net. *J. Econ. Entomol.* 32(6):859-63.
060. Barnes, D. F., and G. H. Kaloostian. 1940. Flight habits and seasonal abundance of dried-fruit insects. *J. Econ. Entomol.* 3:115-9.
061. Barnes, D. F., and D. L. Lindgren. 1946. Beetle infestation in dates. *Rep. Annu. Date Grower's Inst.* 23:34-5.

062. Barnes, D. F., and D. L. Lindgren. 1947. Progress of work on beetle infestations in dates. Rep. Date Grower's Inst. 24:3-4.
063. Barnes, D. F., et al., 1951. Proc. Calif. Fig Inst. pp.39-41.
064. Basilewsky, P. 1972. La faune terrestre de l'ile de Sainte-Helene. 2. Insectes. 9. Coleoptera. 16. Fam. Nitidulidae. Ann. Mus. R. Afr. Cent. Tervuren Belg. Ann. Ser. Octavo. Sci. Zool. 192:158-60.
065. Battu, G. S., and G. S. Dhaliwal. 1975. Occurrence of Carpophilus dimidiatus F. (Coleoptera: Nitidulidae) in bulk stored wheat in Punjab. Bull. Grain Tech., Hapur., India. 13:172.
066. Bayford, E. G. 1912. Carpophilus sexpustulatus F., its congeners, and their occurrence in the British Isles. Naturalist, London. 1912:141-5.
067. Beaulne, J. I. 1924. Les Coleopteres du Canada, XXVIII e Famille Nitidulidae, 7e Genre Carpophilus. Nat. Can. 50(9):213-5.
068. Beccari, F. 1971. Contributo alla conoscenza dell' entomofauna dell' Arabia Saudita. Riv. Agr. Subtrop. - Trop. 65:178-211, 243-58.
069. Bel'skaya, N. M. and L. G. Popova. 1978. Injurious insects in cargoes from India. Zashchita Rastenii. 2:42-3.
070. Benson, L., and D. L. Walkington. 1965. The southern Californian prickly pears invasion, adulteration, and trial by fire. Ann. Mo. Bot. Garden 52:262-73.
071. Berg, H. W. 1959. Investigation of defects in grapes delivered to California wineries:1958. Amer. J. Enology 10:61-8.
072. Berg, H. W. 1959. Mutual problems of the food industries in the San Joaquin Valley. Proc. Calif. Fig Inst. pp. 41-2.
073. Berlinger, M. J. 1975. The injury caused to grape berries by Drosophila spp. and Carpophilus spp. pages 20-21 in Scientific Activities 1971-74, Inst. Plant Prot., Min. Agr., Israel. 157pp.
074. Bily, S., and J. Jelinek. 1983. Faunistic records from Czechoslovakia, Coleoptera. Acta. Entomol. Bohemoslov. 80:149-50.
075. Bissell, T. L. 1936. Insects infesting cotton seed. J. Econ. Entomol. 29(3):634.

076. Bissell, T. L., and M. Du-Pree. 1946. Insects in shelled peanuts in relation to storage and bagging. J. Econ. Entomol. 39(4):550-2.
077. Black, J. H. 1978. Orchard floor management for dried fruit beetle control. Proc. Calif. Fig Inst. pp. 14-9.
078. Blackburn, T., and D. Sharp. 1885. Part II. Systematic catalogue of the Coleoptera of the Hawaiian Islands. (Nitidulidae pp. 227-31). In Memoirs on the Coleoptera of the Hawaiian Islands. Sci. Trans. Royal Dublin Soc. 3(series 2):119-300.
079. Blackburn, T. 1894. Trans. R. Soc. S. Austr. 18:203.
080. Blackwelder, R. E. 1939. Fourth supplement 1933-1938 (inclusive) to the Leng catalogue of Coleoptera of America north of Mexico. John D. Sherman, Jr., Mt.V., N.Y. (pp. unknown).
081. Blackwelder, R. E. 1945. Checklist of the Coleopterous insects of Mexico, Central America, the West Indies and South America (Part 3). Smithsonian Inst. U.S. Nat. Mus. Bull. 185:1-550.
082. Blackwelder, R. E. and R. M. Blackwelder. 1948. Fifth supplement 1939 to 1947 (inclusive) to the Leng catalogue of Coleoptera of America, North of Mexico. John D. Sherman, Jr., Mt. V., N.Y. 87 pp.
083. Blackwelder, R. E. 1957. Checklist of coleopterous insects of Mexico, Central America, West Indies and South America. U.S. Nat. Mus. Bull. 185:1-1492.
084. Blair, K. G. 1922. Carpophilus ligneus Murray in Britain. Entomol. Mon. Mag. 58(694):65.
085. Blair, K. G. 1938. Two exotic species of Carpophilus in Britain. Entomol. Mon. Mag. 74:209.
086. Blanchard, C. E. 1842. In Brulle' Insectes de l' Amerique Meridionale recueillis par Alcide d'Orbigny, Insectes. 6(2):1-16. (Original descriptions of C. brevipennis, and pallens).
087. Bland, R. G., and H. E. Jaques. 1978. How to know the insects. Wm. C. Brown Co., Dubuque, Iowa. 409 pp.
088. Blatchley, W. S. 1910. An illustrated descriptive catalogue of the Coleoptera or beetles (exclusive of the Rhynchophora) known to occur in Indiana. (Better known as: Coleoptera or beetles of Indiana.) The Natur. Publishing Co., Indianapolis. 1386pp.
089. Blatchley, W. S. 1920. Notes on the winter Coleoptera of western and southern Florida, with descriptions of new species. Can. Entomol. 52:42-6.

090. Bliss, D. E. 1946. The use of fungicides against spoilage in dates. Rep. Date Growers' Inst. 23:13-7.
091. Bliss, D. E., and D. L. Lindgren. 1947. The use of thiomate "19" on dates, and its effect on fruit spoilage. Rep. Date Growers' Inst. 24:7-9.
092. Bliss, D. E., D. L. Lindgren, W. D. Wilbur, and L. E. Vincent. 1949. Date-bunch covers and their relation to the fruit-spoilage complex of Deglet Noor dates. Rep. Date Growers' Inst. 26:7-15.
093. Bliss, D. E., D. L. Lindgren, W. D. Wilbur, and L. E. Vincent. 1950. Second report on date-bunch covers and their relation to the fruit-spoilage complex of Deglet Noor dates. Rep. Date Growers' Inst. 27:7-12.
094. Bodenheimer, F. S. 1937. Prodrromus Faunae Palaestinae. Mem. Inst. Egypt, Vol.33
095. Boheman, C. H. 1851. Insecta Caffraria annis 1838-1845 a J. A. Wahlberg collecta, Holmiae. 1(2):299-626. (Original description of C. bisignatus, fumatus, pycinus, and deplanatus.)
096. Bondar, G. 1923. Carunchos das amendoas de cacao. Correio Agr. Bahia 1(9):227-30.
097. Bondar, G. 1925. O cacao. Parte II -Molestias e inimigos do cacoeiro no Estado da Bahia, Brasil. Imprensa Official do Estado, 4:1-126.
098. Bonnamour, S. 1938. Nouvelle note sur Carpophilus hemipterus L. Bull. Soc. Linn. Lyon. 7(2):57-8.
099. Bonnemaison, L. 1976. Enemigos animales de las plantas cultivadas y forestales. II. Oikos-tau, S. A. Ediciones, Barcelona, Spain. 496 pp.
100. Borner, V. C. 1949. Insekten. Pages 136-420 in P. Brohmer, ed. Fauna von Deutschland. Quelle and Meyer, Heidelberg. 584pp.
101. Borrer, D. J., D. M. DeLong, and C. A. Triplehorn. 1976. An introduction to the study of insects. Holt, Rinehart and Winston. New York. 852 pp.
102. Boselli, F. B. 1933. Control l'Esphestia cautella (Farfalla dei fichi secchi). Picentino 89(1-3):9-23.
103. Bouhelier, R., and E. Hudault. 1943. Contribution a l'etude du bromure de methyle utilise pour la desinsectisation des produits vegetaux. Bull. Chamb. Agr. Casablanca. 14(149):9-33.
104. Boving, A. G., J. G. Rozen. 1962. Anatomical and systemic study of the mature larvae of the Nitidulidae (Coleoptera). Entomol. Medd. 31:265-99.

105. Bradley, J. C. 1930. A manual of the genera of beetles of America North of Mexico. Daw, Illston and Co., Ithaca, N.Y. 360 pp.
106. Brimely, C. S. 1938. The insects of North Carolina. N.C. Dep. of Agr., Div. Entomol., Raleigh, N.C. 560 pp.
107. Brimley, C. S. 1942. Supplement to insects of North Carolina. N. C. Dep. Agr., Div. Entomol., Raleigh. 39pp.
108. Brooks, J. G. 1969. Records of Coleoptera from Australia. J. Austral. Entomol. Soc. 8:211-2.
109. Brower, J. H., G. L. Miller, and J. E. Edenfield. 1973. Gamma radiation sensitivity of the corn sap beetle, Carpophilus dimidiatus (Coleoptera: Nitidulidae). J. Ga. Entomol. Soc. 8(1):55-8.
110. Brown, G. K., R. M. Perkins, and E. G. Vis. 1969. An improved pesticide duster for date palms. Date Growers' Inst. Rep. 46:19-20.
111. Brues, C. T., and A. L. Melander. 1932. Classification of insects. A key to the known families of insects and other terrestrial arthropods. Bull. Mus. Comp. Zool. 73:1-672.
112. Bryan, 1931. Proc. Hawaii. Entomol. Soc. 7:380.
113. Buchelos, C. T. 1982. The populations of some Coleoptera species found in storage warehouses of currants and sultanas. Ann. Inst. Phytopathol. Benaki 12(2):155-68.
114. Buligan, C. T. 1929. The corn borer, Pyrausta nubilalis Hubner. Philippine Agr. 17:397-450.
115. Burges, H. D., and N. W. Hussey. 1971. Microbial control of insects and mites. Academic Press, New York. 861 pp.
116. Burgess, P. S. 1948. Sour-bug control in date orchards. Ariz. Agr. Exp. Sta. Annu. Rep. 59:34.
117. Buxton, P. A. 1920. Insect pests of dates and the date palm in Mesopotamia and elsewhere. Bull. Entomol. Res. 11:287-303.
118. Calcat, A. 1959. Diseases and pests of date palm in the Sahara and North Africa. FAO Plant Protect. Bull. 8:5-10.
119. Caldis, P. D. 1925. A rot of the Smyrna fig in California. Science 62:161-2.
120. Caldis, P. D. 1927. Etiology and transmission of endosepsis (internal rot) of the fruit of the fig. Hilgardia 2:289-328.

121. Caldis, P. D. 1930. Souring of figs by yeasts and the transmission of the disease by insects. J. Agr. Res. 40:131-51.
122. Cancela da Fonseca, J. P. 1956. Aspectos fitossanitarias do amendoim (mancarra) armazenado, na Guine Portuguesa. 1. Cercos e armazens. An. Jta. Miss. Geogr. 11(2):53-82.
123. Cangardel, H. 1976. Connaissances recentes concernant la faune des pruneaux dans les stockages traditionnels. Bull. organisation Europeenne et Mediterraneenne pour la Protection des Plantes. 6(5):427-37.
124. Cangardel, H. 1981. Influence de la temperature et de l'hydrometrie relative sur le developement de deux Carpophilus, ravageurs des pruneaux stockes: Carpophilus ligneus Murr. et Carpophilus hemipterus L. (Col., Nitidulidae). Acta Oecologica, Oecologia Applicata 2(2):181-88.
125. Cangardel, H., and F. Fleurat-Lessard. 1974. Les insectes et acariens ravageurs du pruneau stocke. Les Cahiers. 232:23-33.
126. Cangardel, H., and F. Fleurat-Lessard. 1976. Essais de fumigation des stocks de pruneaux d'Agen au bromure de methyle (CH₃Br) et au phosphore d'hydrogene (PH₃). Bull. Organisation Europeene et Mediterraneenne pour la Protection des Plantes 6(5):399-411.
127. Carpenter, J. B. 1975. Notes on date culture in the Arab Republic of Egypt, Israel, and the Peoples Democratic Republic of Yemen. Rep. Date Grower's Inst. 52:18-24.
128. Carpenter, J. B., and H. S. Elmer. 1978. Pests and diseases of the date palm. U.S. Dep. Agr., Sci. Educ. Adm., Agr. Handbook 527. 42 pp.
129. Carrillo-S, J. L., A. Ortega-C., and W. W. Gibson. 1966. Lista de insectos en la coleccion entomologica del Instituto Nacional Investigaciones Agricolas. Inst. Nac. Invest. Agri., S.A.G. de Mexico. Folleto Misc. 14. 133 pp.
130. Casey, T. L. 1884. North Amer. Coleopt. p.34. (Original description of C. zuni.)
131. Castelnau, F. L. 1840. Hist. Nat. Coleopt. 2:14.
132. Caswell, G. H. 1962. Agricultural entomology in the tropics. Edward Arnold (publishers) Ltd. London. 152 pp.
133. Chagnon, G. (No date given). Contribution a l'etude des Coleopteres de la province de Quebec. Dep. Bio. Univ. Montreal. 385 pp.
134. Champ, B. R., and J. N. Cribb. 1965. Insecticidal treatment of bulk nut-in-shell peanuts in silos. Tc. No.3. pp. 241-57.

135. Champ, B. R. 1965. An investigation of peanut storage pests in Queensland. *J. Agr. Anim. Sci.* 22(3):227-40.
136. Chang, V. C. S., and L. Jensen. 1974. Transmission of the pineapple disease organism of sugarcane by nitidulid beetles in Hawaii. *J. Econ. Entomol.* 67(2):190-2.
137. Chatterjee, S. N. 1924. Catalogue of Indian Insects. Part 5. Nitidulidae. Government of India Cent. Publ. Br., 40 pp.
138. Chevrolat, L. A. A. 1863. Coleopteres de l'ile de Cuba. Notes, synonymies et descriptions d'especes nouvelles. *Ann. Soc. Entomol. France*, 3(4):589-620.
139. Chittenden, F. H. 1911. The Mexican grain beetle (Pharaxonotha kirschi Reitt.) *Bull. U.S. Bur. Entomol.* 96(1):8-13.
140. Chu, Y. I. 1979. Insect pests of corn at Kediri, Jawa Timur, Indonesia. *Plant Protect. Bull.*, Taiwan 21(4):397-402.
141. Chupp, and Leiby. 1951. N. Y. (Cornell) Ext. Bull. 206. 89pp.
142. Clausen, C. P. 1940. Entomophagous Insects. McGraw-Hill Book Co. Inc., New York., 688pp.
143. Clement, P. 1945. Quelques Coleopteres des bananes sechees. *Bull. Soc. Entomol. France.* 49(10):125-7.
144. Cobos, A. 1949. Datos para el catalogo de los coleopteros de Espana. Especies de los alrededores de Malaga. *Bol. R. Soc. Esp. Hist. Nat.*, Madrid 47:563-609.
145. Cogburn, R. R. 1973. Stored-product insect populations in port warehouses of the Gulf Coast. *Envir. Entomol.* 2(3):401-7.
146. Collins, J. L. 1960. The pineapple. Leonard Hill. London. (pp. unknown).
147. Compte, A. 1966. Resultados de una expedicion zoologica a las islas Pitiusas. 2. Coleopteros. *Bol. R. Soc. Esp. Hist. Nat.*, Madrid. 65(3);239-75.
148. Condit, I. J. 1919. Some causes of the souring and splitting of figs. *Fig and Olive J.* 3(9):13-6.
149. Condit, I. J. 1947. The fig. *Chronica Botanica Co.* Waltham, Mass. 222 pp.
150. Connell, W.A. 1956. Control of larvae infesting sweet corn ears. *J. Econ. Entomol.* 49(1):539-42.
151. Connell, W. A. 1956. Nitidulidae of Delaware. *Delaware Agr. Exp. Stn. Bull.* 318. 67 pp.

152. Connell, W. A. 1957. The genus Carpophilus in Delaware. Ph.D. Thesis, Univ. Md. 99 pp.
153. Connell, W. A. 1957. Corn earworm control tests. Trans. Peninsula Hort. Soc. (Del. St. Board Agr. Bull.) 47(5):35-8.
154. Connell, W. A. 1963. Carpophilus pilosellus Motschulsky, new synonymy and distribution (Coleoptera: Nitidulidae). Coleopt. Bull. 17(3):89-90.
155. Connell, W. A. 1964. Carpophilus fumatus Boh., A beetle new to North America. Proc. Entomol. Soc. Wash. 66(2):101.
156. Connell, W. A. 1974. Which is the corn sap beetle? Dep. Entomol. and Appl. Ecology. Univ. of Del. (Mimeogr.) 3 pp.
157. Connell, W. A. 1975. Hosts of Carpophilus dimidiatus. J. Econ. Entomol. 68(2):279-80.
158. Connell, W. A. 1977. A key to Carpophilus sap beetles associated with stored foods in the United States (Coleoptera: Nitidulidae). U.S. Dep. Agr. Coop. Plant Pest Rep. 2(23): 398-404.
159. Connell, W. A. 1981. Bibliography of Carpophilus humeralis (Fab.) in support of a revision of the genus Carpophilus Stephens. Bull. Entomol. Soc. Amer. 27(4):263-6.
160. Cooke, F. C. 1932. Investigations on coconuts and coconut products. Gen. Ser. Dep. Agr. S. S. and F. M. S. 8:1-99.
161. Coquillett, D. W. 1893. On the pollination of Yucca whipplei in California. Ins. Life 5(5):312.
162. Corbett, G. H. 1923. Annual report of the government entomologist for 1922. Malay. Agr. J. 11(10):273-84.
163. Corbett, G. H. 1929. A review of the insects of 1928. Malay. Agr. J. 17:261-7.
164. Corbett, G. H. 1931. Division of Entomology. Annual Report for the year 1930. Gen. Ser. Dep. Agr. S. S. and F. M. S., 6:48-64.
165. Corbett, G. H. 1932. Insects of coco-nuts in Malaya. Gen. Ser. Dep. Agr. S. S. and F. M. S. 10:1-106.
166. Corbett, G. H. 1933. Division of entomology Annual Report for the year 1932. Gen. Ser. Dep. Agr. S. S. and F. M. S. 14:39-52.
167. Corbett, G. H., M. Yusope, and A. Hassan. 1935. The attraction of Necrobia rufiped De Geer (the Copra beetle) to the fatty acids of coconut oil and to types of copra. Malay. Agr. J. 23(5):217-28.

168. Corbett, G. H., M. Yusope, and A. Hassan. 1937. Insects, fungi and bacteria associated with copra in Malaya Sci. Ser. Dep. Agr. S. S. and F. M. S. 20:1-91.
169. Cotterell, G. S. 1952. The insects associated with export produce in S. Nigeria. Bull. Entomol. Res. 43(1):145-52.
170. Cotton, R. T., and N. E. Good. 1937. Annotated list of the insects and mites associated with stored grain and cereal products, and of their arthropod parasites and predators. U.S. Dep. Agr. Misc. Publ. 258. 81 pp.
171. Cotton, R. T. 1963. Pests of stored grain and grain products. Burgess Publ. Co., Minneapolis. 318 pp.
172. Coviello, R. L. 1983. Report on dried fruit beetle control research, 1982. Ann. Meeting Calif. Fig Inst. 8pp. (mimeo).
173. Cox, H. E. A handbook of the Coleoptera of beetles of Great Britain and Ireland. O. E. Janson and Sons, London. 1:1-322.
174. Craighead, F. C. 1950. Insect enemies of eastern forests. U.S. Dep. Agr. Misc. Publ. No. 657. 679 pp.
175. Crotch, G. R. 1874. Descriptions of new species of Coleoptera from the Pacific coast of the United States. Trans. Amer. Entomol. Soc. 5:73-80. (Original description of C. yuccae.)
176. Crotch, G. R. 1880. Checklist of the Coleoptera of America, North of Mexico. G. A. Bates, Naturalists' Bur., Salem, Mass. 136 pp.
177. Crowson, R. A. 1938. The metendosternite in Coleoptera: A comparative study. Trans. Roy. Entomol. Soc. London 87:397-416.
178. Crowson, R. A. 1955. The natural classification of the families of Coleoptera. N. Lloyd and Co., London. 187pp.
179. C.S.I.R.O. 1970. The insects of Australia. Melbourne Univ. Press., Melbourne 1029 pp.
180. C.S.I.R.O. 1974. The insects of Australia. (Supplement) Melbourne Univ. Press., Melbourne 146 pp.
181. Curl, E. A. 1955. Natural availability of oak wilt inocula. Bull. Ill. Natur. Hist. Surv. Div. 26(3):277-323.
182. Dammerman, K. W. 1919. Landbouwdierkunde van Oost-Indie pp.194, 206-13.
183. Daniel, M., and T. P. Kumar. 1979. Storage pests of arecanut - a survey. J. Plantation Crops 7(1):36-41. Central Plantation Crops Research Institute, Regional Station, Vittal - 574 243, Karnataka, India.

184. Darley, E. F., D. L. Lindgren, L. E. Vincent, and W. D. Wilbur. 1952. Report on date fruit spoilage. Rep. Date Growers' Inst. 29:4-5.
185. Darling, H. S. 1946. Pests in stored products. Ann. Rep. Dep. Agr. Uganda, 1st July, 1944.
186. Darsie, R. F. 1953. Further tests for control of sap beetles in sweet corn. Trans. Peninsula Hort. Soc. (Del. St. Board Agr. Bull.) 43:28-32.
187. Darsie, R. F., and W. C. Connell. 1952. Preliminary tests for control of sap beetles in sweet corn. Trans. Peninsula Hort. Soc. (Del. St. Board Agr. Bull.) 42(5):18-21.
188. Dash, J. S. 1916. Report Dep. Agr. Barbados 1914-1915. pp. 38-44.
189. Daugherty, D. M., and C. H. Brett. 1966. Nitidulidae associated with sweet corn in North Carolina, and influences affecting their damage to this crop. N.C. Agr. Exp. Sta. Tech. Bull. 171:1-40.
190. Davey, A. E., and R. E. Smith. 1933. The epidemiology of fig spoilage. Hilgardia 7(13):523-51.
191. Davidson, R. H., and W. F. Lyon. 1979. Insect pests of farm, garden, and orchard. John Wiley & Son, N. Y. 596 pp.
192. Davies, J. C. 1960. Coleoptera associated with stored products in Uganda. E. Afr. Agr. J. 25(3):199-201.
193. DeGeer, C. 1774. Memoires pour servir a l'histoire des insectes, Stockholm. 4:1-456.
194. Della Beffa, G. 1935. Insetti osservati nella frutta e negli ortaggi def mercati di Torino. Insects observed in fruits and vegetables in the markets of Turin. Difesa d. Piante 12(3):77-85.
195. de Marseul, S. 1885. Nitidulidae Repert. L'Abeille, J. d' Entomol., nos. 289-300. p.36.
196. De Ong, E. R. 1918. Mon. Bull. Calif. Dep. Agr. 7(6):429.
197. De Ong, E. R. 1921. Cold storage control of insects. J. Econ. Entomol. 14(5): 444-7.
198. Deonier, C. C. 1942. Insect pests breeding in vegetable refuse in Arizona. J. Econ. Entomol. 35(3):457-8.
199. De Santis, L. 1964. Encirtidos de la Republica Argentina (Hymenoptera: Chalcidoidea). Anales Comision de Investigacion Cientifica. Prov. Buenos Aires. 4:9-422.

200. Dibble, J. E. 1972. Miticide and dried fruit beetle trials and general discussion concerning industry suggestions on insect control programs. Proc. Calif. Fig Inst. pp. 18-21.
201. Dillon, E. S., and L. S. Dillon. 1964. A manual of common beetles of Eastern North America. Row, Peterson and Co., Evanston, Ill. - Elmsford, N.Y. 884 pp.
202. Dinther; J. B. M. van. 1960. Insect pests of cultivated plants in Surinam. Bull. Agr. Exp. Sta., Surinam. 76:1-159.
203. Ditman, L. P., and F. P. Harrison. 1957. (Del. St. Board Agr.) Bull. 47(5):38-45. An experiment varying the interval between treatments for control of insects attacking the sweet corn ear. Trans Peninsula Hort. Soc.
204. Ditman, L. P., and F. P. Harrison. 1958. An experiment on varying intervals between treatments for control of insects attacking sweet corn. Proc. Peninsula Hort. Soc. (Del. St. Board Agr.) 47:38-45.
205. Ditman, L. P., H. S. Todd, and F. P. Harrison. 1955. Investigation of insects attacking the sweet corn ear. Md. Agr. Exp. Sta. Bull. A-82:1-16.
206. Doane, R. W., E. C. Van Dyke, W. J. Chamberlin, and H. E. Burke. 1936. Forest insects. McGraw-Hill Book Co., Inc., N. Y. 463 pp.
207. Dobson, R. M. 1952. A new species of Carpophilus Stephens (Col., Nitidulidae) from Australia. Entomol. Mon. Mag. 88: 256-8. (Original description of C. davidsoni.)
208. Dobson, R. M. 1954. A note on the anatomy and morphology of the external genitalia of Carpophilus obsoletus Er. (Coleoptera: Nitidulidae). Proc. Roy. Entomol. Soc. London (A) 29(4-6):45-50.
209. Dobson, R. M. 1954. A new species of Carpophilus Stephens (Col., Nitidulidae) found on stored products. Entomol. Mon. Mag. 90:299-300. (Original description of C. halli.)
210. Dobson, R. M. 1954. The species of Carpophilus Stephens (Col., Nitidulidae) associated with stored products. Bull. Entomol. Res. 45:389-402. (C. nitidulus was mentioned, no other information can be found about this species.)
211. Dobson, R. M. 1956. A new species of Carpophilus Stephens (Col., Nitidulidae) associated with stored products. Entomol. Mon. Mag. 92:41-2. (Original description of C. freemani.)
212. Dobson, R. M. 1960. Notes on the taxonomy and occurrence of Carpophilus Stephens (Col., Nitidulidae) associated with stored products. Entomol. Mon. Mag. 95:156-8.

213. Dobson, R. M. 1964. A new species of Carpophilus Stephens (Coleoptera: Nitidulidae) from New South Wales. Proc. Roy. Entomol. Soc. London (B) 33(3-4):71-2. (Original description of C. gaveni.)
214. Dobson, R. M. 1969. A new species of Carpophilus Stephens (Col., Nitidulidae) from East Africa. Entomol. Mon. Mag. 105:99-100. (Original description of C. zeaphilus.)
215. Dobson, R. M. 1972. A new species of Carpophilus Stephens (Coleoptera: Nitidulidae) from Florida. U.S.A., and a reappraisal of the type material of Carpophilus ophthalmicus Murray. J. Entomol. Ser. B. Taxon. 41(2): 145-50. (Original description of C. craigheadi and megalops.)
216. Dodge, H. R. 1939. Nitidulid notes and descriptions (Coleoptera). Entomol. News. 50(10):287-291.
217. Donahaye, E., and M. Calderon. 1964. Survey of insects infesting dates in storage in Israel. Israel J. Agr. Res. 14(3):97-100.
218. Donohoe, H. C. 1939. Notes on Coleoptera found in raisin storages. Proc. Entomol. Soc. Wash. 41(5):154-62.
219. Donohoe, H. C. 1946. Notes on dried fruit insects. II. Pest and their control. 14(10):14-6.
220. Dorsey, C. K., F. F. Jewell, J. G. Leach, and R. P. True. 1953. Experimental transmission of oak wilt by four species of Nitidulidae. U. S. Dep. Agr. Plant Dis. Rep. 37:419-20.
221. Dorsey, C. K., and J. G. Leach. 1956. The bionomics of certain insects associated with oak wilt with particular reference to the Nitidulidae. J. Econ. Entomol. 49:219-30.
222. Douglas, W. A. 1941. Field infestation by insects that injure rice in storage. U.S. Circ. 602:1-8.
223. Duftschmid, C. 1825. Oder Beschreibung osterreichischen Insecten, fur angehende Freunde der entomologie. Fauna Austriae, Linz. 3:1-289.
224. Dupont, P. R. 1917. Insect notes. Ann. Rep. Seychelles Agr. and Crown Lands for 1916, 1917.
225. Durrant, J. H. 1921. Insects associated with grain, etc. Rep. Grain Pests Comm. Roy. Soc., London. 9:33-52.

226. Dury, C. 1901-1906. A revised list of the Coleoptera observed near Cincinnati, Ohio, with notes on localities, bibliographical references, and description of new species. *J. Cincinnati Soc. Natur. Hist.* 20:107-96.
227. Dutra, G. R. P. 1901. Os insectos destruidores dos graos. Meios de prevenir a sua invasao. Processos de destruicao. *Bol. Agr., S. Paulo.* 2(1):1-21.
228. Ebeling, W. 1959. Subtropical fruit pests. *Univ. Calif., Div. Agr. Sci.* 436 pp.
229. Ebeling, W. 1975. Urban entomology. *Agr. Sci. Publ., Univ. Calif. Press, Berkeley, Calif.* 695 pp.
230. Edwards, J. G. 1949. Coleoptera or beetles east of the Great Plains. *Edwards Brothers, Inc., Ann Arbor, Mich.* 181 pp.
231. Edwards, W. H. 1932. Report of the government entomologist. *Rep. Dep. Agr. Jamaica.* 1931:22-24.
232. Ehler, L. E., and J. M. Smilanick. 1975. Potential for biological control of dried fruit beetle and confused sap beetle in California. *Proc. Calif. Fig Inst.* pp.30-8.
233. Ehler, L. E., and S. G. Mirsatari. 1976. Observations on dried fruit beetle in Iran and Italy. *Proc. Calif. Fig Inst.* pp.19-26.
234. Eidmann, H. 1927. Zur Kenntniss der Insektenfauna der balearischen Inseln. *Entomol. Mitt. Berlin.* 16(1):32.
235. El-Haidari, H. S., H. M. Al-Saud, M. Al-Banna, M. A. Fawzia, and A. Khuthair. 1981. New records of insects attacking date palms treated with growth regulators in Iraq. *Date Palm J.* 1(1):134-5.
236. El-Kadi, E., H. Zazou, A. El-Deeb, and S. M. Hammad. 1962. The biology of the dried-fruit beetle, Carpophilus hemipterus L. (Col., Nitidulidae). *Alexandria J. Agric. Res.* 10(1):19-42.
237. El-Kadi, E., H. Zazou, A. El-Deeb, and S. M. Hammad. 1963. The biology of the dried-fruit beetle Carpophilus hemipterus L. (Coleoptera: Nitidulidae). *Bull. Soc. Entomol. Egypte* 46:97-118.
238. Elmer, H. S. 1961. 1960 results using new insecticides and methods for the control of date insects and mites. *Rep. Date Growers' Inst.* 38:17-8.
239. Elmer, H. S. 1962. Date pest control studies. *Rep. Date Growers' Inst.* 39:2-3.
240. Elmer, H. S. 1964. Present status of date pest control studies. *Rep. Date Growers' Inst.* 41:4-6.

241. Elmer, H. S. 1966. Date palm insects and mite pests in the United States. Rep. Date Growers' Inst. 43:9-14.
242. Elmer, H. S. 1967. Malathion, a factor in date harvesting. Rep. Date Growers' Inst. 44:7-8.
243. Elmer, H. S. 1968. Evaluation of the effects of malathion dust applications for the control of date-infesting insects. Rep. Date Growers' Inst. 45:12-3.
244. Elmer, H. S., J. B. Carpenter, and L. J. Klotz. 1968. Pests and diseases of the date palm. FAO Plant Protect. Bull. 16:77-91, 97-110.
245. van Emden, F. 1925. Insektenschadlinge in vegetabilischen Drogen im Jahre 1924. Anz. Schadlingsk. 1(8):89-91.
246. van Emden, F. 1942. Larvae of British beetles III. Keys to the families. Entomol. Mon. Mag. 78:206-26, 253-72.
247. Endrody-Younga, S. 1982. The Nitidulids of the Mascarene archipelago with additional references to Madagascan species (Coleoptera: Nitidulidae). Ann. Transvaal Mus. 33:265-75. (C. foveicollis has been reinstated.)
248. Engel'hardt, V. 1929. Notice sur la Carpophilus hemipterus L. (Col., Nitidulidae), nuisible au pain et aux Autres vivres en Extreme Orient. Defense des Plantes 5(5-6):543-7.
249. Erakay, S., and A. H. Ozar. 1979. Ege bolgesinde kuru incirlerde zararli boceklerin bulasma oranlari ve saras yontemleri uzerinde on arastirmalar. (in Tr.) Bitki Koruma Bulteni 19(3):159-73.
250. Erichson, W. F. 1843. Versuch einer Systematischen Eintheilung der Nitidularien. Germar's Z. Entomol. 4:225-361. (Original description of C. quadripustalatus, corticinus, floralis, dimidiatus, humilis, languidus, marginatus, melanopterus, mutilatus, obsoletus, sordidus, quadrisignatus, castanopterus, niger, succisus, tempestivus, and tristis.)
251. Erichson, W. F. 1845. Naturg. Ins. Deutschl. 3:136.
252. Erichson, W. F. 1847. Arch. fur Naturgesch. 13(1):92. (Original description of C. sordidus.)
253. Eschscholtz, J. F. 1822. Entomogr. I, p.48. (Original description of C. littoralis.)
254. Espanol, F. 1933. De re entomologica. Contribucio al coneixement dels Nitidulidae de Catalunya. Bull. Ins. Cat. Hist. Nat. 33:212-4.

255. Espanol, F. 1943. Contribucion al conocimiento de los Coleopteros de Ibiza y Formentera. Las Ciencias, Madrid. 8(1):93-108.
256. Essig, E. O. 1915. The dried fruit beetle. Carpophilus hemipterus (Linnaeus). J. Econ. Entomol. 8(4):396-400.
257. Essig, E. O. 1920. Calif. Cultiv. 54:279.
258. Essig, E. O. 1920. Important dried fruit insects in California. Mon. Bull. Calif. Dep. Agr. 9(3)(Suppl.): 119-25.
259. Essig, E. O. 1921. Some interesting economic insects recently observed in California. Mon. Bull. Calif. Dep. Agr. 10(4):140-2.
260. Essig, E. O. 1922. The dried fruit beetle. J. Econ. Entomol. 15(3):260.
261. Essig, E. O. 1926. Insects of Western North America. Macmillan Co. New York. pp. 408-9.
262. Essig, E. O. 1931. A history of entomology. The MacMillan Co., New York 1029 pp.
263. Essig, E. O. 1942. College entomology. MacMillan Co., New York. 900pp.
264. Essig, E. O., and W. M. Hoskins. 1944. Insects and other pests attacking agricultural crops. Calif. Agr. Ext. Serv. Cir. 87:1-197.
265. Evans, B. R., and J. E. Porter. 1965. The incidence, importance, and control of insects found in stored food and food handling areas of ships. J. Econ. Entomol. 58(3):479-481.
266. Evans, J. D. 1895. The insect fauna of the Sudbury District, Ontario. Can. Entomol. 27:141-6, 173-5.
267. Everts, E. J. G. 1881. Bijdrage tot de kennis der Nitidularien. Tijdschr. Entomol. 24:9-60.
268. Everts, E. J. G. 1898. Coleopt. Neerl. I, p.473.
269. Faber, W. 1976. Zwielichtige Schadlinge in importierten Futtermittel-Rohstoffen. Koprakafer (Necrobia rufipes Degeer), Saftkafer (Carpophilus spp.) und Siamesischer Flachkafer (Lophocateres pusillus Klug). Muhle Mischfuttertech 113(16):228-31.
270. Fabricius, J. C. 1791. Entomol. Syst. I, p.260. (Original description of C. sexpustulatus.)

271. Fabricius, J. C. 1792. Entomologia systematica 1:1-538. (Original description of C. dimidiatus, also mentioned Nitidula hemipterus which = C. dimidiatus.)
272. Fabricius, J. C. 1798. Supplementum entomologiae systematicae, Hafniae, 572pp. (Original description of C. humeralis and quadratus.)
273. Fabricius, J. C. 1801. Systema eleutheratorum, secundum, ordines, genera, species. Kiliae, 687 pp. (Original description of C. cadaverinus and ficus.)
274. Fairmaire, L. 1849. Essai sur les Coleopteres de la Polynesia. Rev. Mag. Zool., Ser. 2, 1:277-91, 352-65, 410-22, 445-60, 504-56. (Original description of C. mutabilis.)
275. Fairmaire, L. 1869. Notes sur les Coleopterus recueillies par Charles Coquerel a Madagascar, Part 2. Ann. Soc. Entomol. France, (Series 4) 9:179-260. (Original description of C. apicipennis.)
276. Fall, H. C. 1897. A list of the Coleoptera of the Southern California islands, with notes and descriptions of new species. Can. Entomol. 29:233-244.
277. Fall, H. C. 1901. List of the Coleoptera of Southern California, with notes on habits and distribution and descriptions of new species. Occas. Pap. Calif. Acad. Sci. 8:1-282.
278. Fall, H. C. 1910. Miscellaneous notes and descriptions of North American Coleoptera. Trans. Amer. Entomol. Soc. 36: 87-194. (Original description of C. ignobilis, rickseckeri, longus, nitens, and floridanus.)
279. Farahbakhsh, G. 1961. A checklist of economically important insects and other enemies of plants and agricultural products in Iran. Dep. Plant Protec., Mins. Agr. Publ. No.1, Tehran. 153pp.
280. Fattig, P. W. 1937. The Coleoptera of beetles of Georgia. (V). Entomol. News 48(9):250-5.
281. Fauconnet, L. 1892. Faune analytique. Des Coleopteres de France. Bligny-Cottot, Autun. 528 pp.
282. Fauvel, A. 1903. Faune analytique des Coleopteres de la Nouvelle-Caledonie. Rev. d'Entomol. 22:203-378.
283. Fenilli, R. 1978. Identificacao da entomofauna em armazens de soja em grao e de farelo no Estado do Parana', Brasil. O Biologico 44(7):161-4.
284. Ferro, D. N. (Ed.) 1976. New Zealand insect pests. The Caxton Press, Christchurch, New Zealand. 311 pp.

285. Fisher, C. D. 1962. What can we learn from the substandard fig pool? Proc. Calif. Fig Inst. 16:1-5.
286. Fisher, and Barnes. 1938. U.S. Dep. Agr. EPQ ET 132:5.
287. Fisher, C. K., G. B. Wheeler, and R. M. Warner. 1952. Residual action of dieldrin and aldrin in fig orchard soils. Proc. Calif. Fig Inst. 6:12-3b.
288. Fleutiaux, E. 1887. Descriptions of Coleopteres nouveaux de l'Annan. Ann. Soc. Entomol. France (Series 6) 7:59-68. (Original description of C. punctatus (=humeralis).)
289. Forbes, S. A. 1905. Twenty-third report of the state entomologist on the noxious and beneficial insects of the state of Illinois. pp.81-2.
290. Ford, E. J. 1959. Notes and exhibitions. Proc. Hawaii. Entomol. Soc. 17:7-8
291. Fouts, R. 1928. Notes on the Bethylinae with descriptions of on new Cuban and 12 new N. A. species (Hym.). Proc. Entomol. Soc. Wash. 30(7):113-3.
292. Fowler, W. W. 1884. Nitidulidae of Great Britain. (Publ. unknown) p.58.
293. Fowler, W. W. 1889. The Coleoptera of the British Islands. Clavicornia (Leptinidae- Heteroceridae), London. 3:1-399.
294. Fowler, W. W., and H. St. J. Donisthorpe. 1913. The Coleoptera of the British Islands. (Publ. unknown) Vol. 6. (pp. unknown)
295. Freeman, J. A. (Date Unknown) The control of infestation in Greek currants. (Publ. unknown):103-6.
296. Freeman, J. A. 1965. Identifications of insects and mites found at Kalamata. (Publ. unknown). (pp. unknown). (mimeo).
297. French, C. 1911. Dried fruit beetle. J. Dep. Agr. Victoria 9:640-1.
298. Froggatt, W. W. 1907. Australian Insects. William Brooks & Company, Limited, Sydney. 447pp.
299. Froggatt, W. W. 1923. Damage by fruit beetles. Agr. Gaz. New S. Wales. 34:224.
300. Frohlich, G., and W. Rodewald. 1970. Pests and diseases of tropical crops and their control. Pergamon Press, Oxford. 371 pp.
301. Frost, S. W., and H. Dietrich. 1929. Coleoptera taken from bait traps. Ann. Entomol. Soc. Amer. 22(3):427-37.

302. Fuente, J. M. de la. 1927. Catalogo sistematico- geografico de los Coleopteros observados en la Peninsula Iberica, Pirineos propiamente dichos y Baleares. Bol. Soc. Entomol. Esp., Zaragoza, 10:74-5.
303. Fukuda, T., J. E. Lindegren, and H. C. Chapman. 1976. Helicosporidium sp. a new parasite of mosquitoes. Mosquito News. 36(4):514-7.
304. Gahukar, R. T. 1972. A new pest of grapes in Andhra Pradesh (India). Andhra Agr. J. 18(1):42. (Dated 1971).
305. Gallardo-Covas, F. 1983. Effects of CaC_2 on the oviposition of Carpophilus humeralis F. (Coleoptera, Nitidulidae). J. Agr. Univ. Puerto Rico. 67(1):56.
306. Gallardo-Covas, F., and S. Medina-Gaud. 1983. Conditions that affect populations of Carpophilus humeralis F. (Coleoptera: Nitidulidae) in the pineapple fields of Puerto Rico. J. Agr. Univ. Puerto Rico. 67(1):11.
307. Galon, I. 1979. Pollination of Annona in Israel by nitidulid beetles (Nitidulidae) (in Hebrew). M.S. Thesis. Hebrew Univ. of Jerusalem Rehovot. 80 pp.
308. Ganesalingam, V. K. 1976. A study of insects in four rice stores in the Kandy district in Sri Lanka. Ceylon J. Biol. Sci. 12(1):30-46.
309. Ganglbauer, L. 1899. Die Kafer von Mitteleuropa III, 459 pp.
310. Gaven, M. J. 1964. Carpophilus beetles as a pest of peaches. J. Entomol. Soc. Aust. (NSW). 1:59-62.
311. Gaven, M. J. 1965. Note on Carpophilus gaveni Dobson. J. Entomol. Soc. Aus. New S. Wales 2:49.
312. Gazit, S., I. Galon, and H. Podoler. 1982. The role of Nitidulid beetles in natural pollination of annona in Israel. J. Amer. Soc. Hort. Sci. 107(5):849-52.
313. Geijskes, D. C. 1940. Voorraadsinecten van rijst in suriname met aanwijzingen ter bestrijding. Bull. Dep. Landbouwproefstation Sur. 55.
314. Gemminger, M., and E. von Harold. 1868. Cat. Coleopt. 3:753-978. (Carpophilus pages 802-38.) (Original description of C. biguttatus and sanguineofasciatus.)
315. Genduso, P. 1970. Attuale tecnica de allevamento dell Opius concolor Szepl. Siculus Mon. Boll. Ist. Entomol. Agr. Osserv. Fitopatol. Palermo. 7:9-40.

316. George, L. D. 1978. Comparative life histories of Haptoncus luteolus, Urophorus humeralis, Carpophilus freemani, C. mutilatus and C. hemipterus on figs. M. A. Thesis, Calif. St. Univ., Fresno. 29 pp.
317. Gerdts, M., G. Obenauf, A. Yerington, and J. Dibble. 1973. Guidelines for dried fruit beetle control. Coop. Ext. Work Agr. and Home Econ., Univ. Calif. and U.S. Dep. Agr., Farm and Home Advisors Office, Fresno. 8 pp.
318. Gerling, D., and Y. Ben-Mordechai. 1981. Biological observations with Zeteticontus sp. (Hymenoptera: Encyrtidae). A parasite of Carpophilus hemipterus (L.) (Coleoptera: Nitidulidae). Proc. Hawaii. Entomol. Soc. 23(3):351-4.
319. Germain, P. 18565 Descripcion de coleopteros de diversas especies que non se hallan en la obra del senor Gay. Anal. Univ. Chile, 1855 (1856), pp.386-407. (Original description of C. brevipennis.)
320. Gerstaecker, C. E. A. 1871. Beitrag zur Insektenfauna von Zamzibar. III. Coleoptera Arch. Nat. 37:42-86.
321. Ghosh, 1921. R. P. E. M. p.108. (According to Chatterjee 1924).
322. Ghosh, B. N., and P. Silva. 1972. Algumas observacoes sobre armazenagem de cacau no Brasil. Cacau Atualidades 9(1):11-21.
323. Gibson, W. W., and J. L. Carrillo-S. 1959. Lista de insectos en la coleccion entomologica de la Oficina de Estudios Especiales, S.A.G. Secretaria de Agricultura y Ganaderia, Oficina de Estudios Especiales, Mexico. Folleto Misc. 9: 254 pp.
324. Giles, P. H. 1969. Observations in Kenya on the flight activity of stored products insects, particularly Sitophilus zeamais Motsch. J. Stored Prod. Res. 4(4):317-29.
325. Gillogly, L. R. 1947. A sensillum in Carpophilus and Haptoncus. Pan-Pac. Entomol. 23(3):134-6.
326. Gillogly, L. R. 1962. Insects of Micronesia Coleoptera: Nitidulidae. Insects of Micronesia. B. P. Bishop Mus. 16(4):133-88.
327. Gisamatsu, 1968? (Added to distribution of C. frivolus Murr.) (Publ. unknown), (pp. unknown).
328. Giudice, V., and G. Lanza. 1973. Presenza di Sheraphelenchus entomophagus su frutti di arancio. Informatore Fitopatologico. 23(3):15-6.
329. Giudice, V., and G. Lanza. 1975. Presenza di Sheraphelenchus entomophagus su frutti di arancio. Annali dell'Instituto Sperimentale per l'Agrumicoltura. 6:347-9.

330. Glover, T. 1878. Manuscript notes from my journal. Cotton, and the principal insects, etc., frequenting or injuring the plant in the United States. Washington, D. C., 2pp.
331. Gould, G. E. 1948. Insect problems in corn processing plants. J. Econ. Entomol. 41(5):774-8.
332. Gouveia, A. J. S. de. 1976. Defesa fitossanitaria dos produtos armazenados de importacao em S. Tome e Principe. Retrospectiva de estudos realizados no periodo de 1968 a 1972. An. Inst. Sup. Agr. 36:129-73.
333. Gouveia, A. J. S. de, and M. E. da S. E. Sousa. 1968. Aspectos da defesa fitossanitaria do cacau armazenado em S. Tome. Garcia de Orta 16(3):309-66.
334. Gowdey, C. C. 1914. Annual report of the entomologist. Rep. Dep. Agr. Uganda 1914. pp.36-58.
335. Grant, V., and W. A. Connell. 1979. The association between Carpophilus beetles and cactus flowers. Plant Syst. Evol. 133:99-102.
336. Grant, V., and A. Grant. 1979. Pollination of Opuntia basilaris and Opuntia littoralis. Plant Syst. Evol. 132(4):321-6.
337. Grouvelle, A. H. 1890. Ann. Mus. Genova. 19:120. (Original description of C. feai.)
338. Grouvelle, A. H. 1891. Voyage de M. E. Simon au Venezuela (December 1887-Avril 1888). Mem. 14. Nitidulidae, Monotomidae. Ann. Soc. Entomol. France, 60:313-6.
339. Grouvelle, A. H. 1892. Notes Leyden Mus. 14:43. (Original description of C. bosschai.)
340. Grouvelle, A. H. 1892. Viaggio di Leonardo Fea in Birmania e regioni vicine. 50. Nitidulides, Cucujides, et Parnides. Ann. Mus. Civ. St. Natur. 32:833-68. (Original description of C. bicolor, heros, and murrayi.)
341. Grouvelle, A. H. 1893. Voyage de M. E. Simon a l'ile de Ceylan (janvier fevrier 1892). Nitidulidae, Temnochilidae, Colydiidae, Rhysodide and Cicujidae. Ann. Soc. Entomol. France. 62:383-4.
342. Grouvelle, A. H. 1894. Ann. Soc. Entomol. Belg. 38:578. (Original description of C. fulvipes.)
343. Grouvelle, A. H. 1897. Clavicornes nouveaux des Indes Orientales et pays voisins (Nitidulidae). Ann. Mus. Civico Storia, Natur. Genova, Ser. 2, 18(38):342-98. (Original description of C. debilis, dubitabilis, familiaris, modiglianii, nigricans, opaculus, pygidialis, sanguinipennis and variabilis.)

344. Grouvelle, A. H. 1898. Ann. Soc. Entomol. Belg. 42:110. (Original description of C. erythrogonus.)
345. Grouvelle, A. H. 1899. Nitidulides de l'Afrique occidentale (Cameroun) recoltés par M. L. Conradt. Ann. Soc. Entomol. Fr. 68:125-35. (Original description of C. analis, rufangulus, and tumidulus.)
346. Grouvelle, A. H. 1900. Ann. Soc. Entomol. Belg. 44:262. (Original description of C. weyersi.)
347. Grouvelle, A. H. 1902. Supplement a la liste des coleopteres de la Guadeloupe de MM. Fleutiaux et Salle. Ann. Soc. Entomol. Fr. 71:756-69. (Original description of C. vitraci.)
348. Grouvelle, A. H. 1903. Ann. Soc. Entomol. Fr. 72:108. (Original description of C. oblongopunctatus.)
349. Grouvelle, A. H. 1906. Contribution a l'etude des Coleopteres de Madagascar. Nitidulidae, Colydiidae, Cucujidae, Monotomidae, Cryptophagidae, Mycetophagidae, Dryopidae, Heteroceridae. Ann. Soc. Entomol. Fr. 75:72. (Original description of C. piceus.)
350. Grouvelle, A. H. 1906. Clavicornes nouveaux du Musee Civiq de Genes. Ann. Mus. Civico di Storia Nat. "Giacomo Doria" Genova 42:310-1. (Original description of C. lorlai, and proximus.)
351. Grouvelle, A. H. 1908. Coleopteres de la Region Indienne. Ann. Soc. Entomol. Fr. 77:315-495. (Original description of C. dufau, hebetatus, signatus, ornatus, and undulatus.)
352. Grouvelle, A. H. 1912. Clavicornes du Musee du Congo Belge. Nitidulidae-Colydiidae. Ann. Soc. Entomol. Belg. 56:9-18. (Original description of C. kolleri, and longior.)
353. Grouvelle, A. H. 1912. (1913). Ann. Soc. Entomol. Fr. 81:289-312. (Original description of C. ovatus.)
354. Grouvelle, A. H. 1913. Rectifications a la nomenclature des Nitidulidae (Col.). Bull. Soc. Entomol. Fr. (Vol. unknown):253. (Original description of C. teter.)
355. Grouvelle, A. H. 1912 (1913). Famille des Nitidulidae. Notes synonymiques et rectifications a la nomenclatures. Ann. Soc. Entomol. Fr. 8(1912):387-400.
356. Grouvelle, A. H. 1913. Coleopterorum catalogus. Byturidae, Nitidulidae. Part 56. W. Junk, Berlin. 14(1):1-223.
357. Grouvelle, A. H. 1913. Insects of the Percy Sladen Trust expedition. 1905. Coleoptera: Nitidulidae, Heteroceridae. Trans. Linn. Soc. Series 2, Zool., 16:93-166. (Original description of C. fusciceps, and scotti.)

358. Grouvelle, A. H. 1917. Nitidulidae des iles Philippines recoltés par C. F. Baker, 2. Philippines J. Sci., D12:329-44. (Original description of C. sinuatus and subplanus.)
359. Grouvelle, A. H. and A. Raffray. 1908. Supplement a la liste des coleopteres de la Guadeloupe. Ann. Soc. Entomol. France. 77:33-64. (2e supplement)
360. Guerra, M. De S., and S. M. Dos Santos. 1977. Ocorrença de insetos em frutos dessecados no Rio Grande do Sul. An. Soc. Entomol. Brasil 6(2):306-11.
361. Gurney, W. B. 1912. Fruit-flies and other insects attacking cultivated and wild fruits in New South Wales. Agr. Gaz. New S. Wales. 23:75-80.
362. Gurney, W. B. 1918. The insect pests of maize. Agr. Gaz., New S. Wales. 29(9):641-50.
363. Gutlf., 1859. Kaf. Deutschl. p.236.
364. Gyllenhal, L. 1808. Insecta Suecica descripta 1:244.
365. Hagan, H. R. 1929. The fig insect situation in the Smyrna fig district. J. Econ. Entomol. 22:900-9.
366. Hall, R. W., and J. M. Smilanick. 1976. Rearing methods for dried fruit beetle and confused sap beetle. Proc. Calif. Fig Inst. pp. 42-7.
367. Hall, R. W., J. M. Smilanick, and L. E. Ehler. 1978. Laboratory rearing and field observations on Carpophilus mutilatus. Ann. Entomol. Soc. Amer. 71(3):408-10.
368. Hall, W. J. 1924. The insect pests of citrus trees in Egypt. Bull. Minist. Agr. Egypt. 45:1-30.
369. Halliday, D., and I. Kazaure. 1968. Distribution and concentration of phosphine in groundnut pyramids fumigated with Phostoxin. Rep. Nigerian Stored Prod. Res. Inst., pp.45-52.
370. Halstead, D. G. H. 1963. External sex differences in stored-products Coleoptera. Bull. Entomol. Res. 54(1):119-34.
371. Hamilton, J. 1895. Catalogue of the Coleoptera of southwestern Pennsylvania, with notes and descriptions. Trans. Amer. Entomol. Soc. 22:317-61.
372. Hammad, S. M., A. A. Kadous, and M. M. Ramadan. 1981. Insects and mites attacking date palm in the Eastern Province of Saudi Arabia. Proc. Saudi Biol. Sci. (King Saud Univ., Abha).5:251-68.
373. Hansen, H. N. 1929. Thrips as carriers of fig decaying organisms. Science 69:356-7.

374. Hansen, H. N., and A. E. Davey. 1932. Transmission of smut and molds in figs. *Phytopathol.* 22:247-52.
- 375a Hansen, V. 1950. *Biller.* 13. *Clavicornia.* 1. *Del. Denmarks Fauna* 55:1-278.
- 375b Hansen, V., E. Klefbeck, O. Sjoberg, G. Stenius, and A. Strand. 1960. *Catalogus Coleopterorum Fennoscandiae et Daniae.* *Entomologiska Sallskapet I Lund.* 277 pp.
376. Hardy, A. R., and F. G. Andrews. 1976. A final report to the office of endangered species on contract 14-16-0008-966. *Insect Taxonomy Lab., Div. Plant Ind., Calif. Dep. Food & Agr.* 42pp.
377. Hargreaves, E. 1927. Some insect pests of Sierra Leone. *Proc. 1st W. Afr. Conf. Ibadan, Nigeria.* pp.113-28.
378. Hargreaves, H. 1922. Annual report of the government entomologist, 1921. *Rep. Dep. Agr. Uganda* 1921:57-64.
379. Hargreaves, H. 1924. Annual report of the government entomologist. *Uganda Dep. Agr. Annu. Rep. for 1923.* pp. 15-21,29-32.
380. Haring, C. M. 1922. The dried fruit beetle. Report of the director of the agricultural experiment station. *Rep. Calif. Agr. Exp. Sta.* p.87.
381. Haring, C. M. 1922. *California Division of Entomology and parasitology Work.* p. 8.
382. Harrington, W. H. 1884. On the lists of Coleoptera published by the Geological Survey of Canada. *Can. Entomol.* 22:135-40, 153-60.
383. Harris, W. B. 1960. Clean up Carpophilus beetles, they spread disease. *J. Dep. Agr. S. Aust.* 64:173.
384. Harrison, F. P. 1960. Experiment for the control of sap beetles in sweet corn grown for processing. *J. Econ. Entomol.* 53(1):174-5.
385. Harrison, F. P. 1962. Infestation of sweet corn by the dusky sap beetle. *J. Econ. Entomol.* 55(6):922-5.
386. Harrison, F. P. 1962. On the control of corn earworm, Heliothis zea, and dusky sap beetle, Carpophilus lugubris, in sweet corn. *J. Econ. Entomol.* 55(5):671-4.
387. Harrison, F. P. 1965. Granulated insecticides for control of some corn pests. *J. Econ. Entomol.* 58(1):137-9.
388. Harrison, F. P. 1968. Control of insects infesting sweet corn ears. *J. Econ. Entomol.* 61(5):1463-4.

389. Harrison, F. P. 1974. Chemical control of ear-infesting insects of sweet corn. *J. Econ. Entomol.* 67(4):548-50.
390. Harrison, F. P., and L. P. Ditman. 1958. Ecological studies of insects attacking canning sweet corn in relation to timing chemical control. *Md. Agr. Exp. Sta. Bull.* A-96. 19 pp.
391. Harrison, F. P., and L. P. Ditman. 1960. Further studies on the timing of chemical treatments for the control of insects attacking the sweet corn ear. *Md. Agr. Exp. Sta. Bull.* A-107. 8 pp.
392. Harrison, F. P., and J. C. Richardson. 1978. Dusky sap beetle Carpophilus lugubris (Coleoptera Nitidulidae) control in sweet corn. *J. N. Y. Entomol. Soc.* 86(4):292-3.
393. Hatch, M. H. 1925. A list of Coleoptera from Charlevoix County Michigan. *Pap. Mich. Acad. Sci., Arts, & Letters.* 4:543-86.
394. Hatch, M. H. 1961. The beetles of the Pacific Northwest. Univ. Washington Press. Seattle. 503 pp.
395. Haut, I. C. 1954. Methods of controlling sap beetles studied. *Md. Agr. Exp. Sta. Bull.* A-78:62.
396. Hayashi, N. 1978. A contribution to the knowledge of the larvae of Nitidulidae occurring in Japan, (Coleoptera: Cucujoidea). *J. Faculty Agr. Hokkaido Univ. Ser.* 14. 97 pp.
397. Hayashi, N. 1980. Illustrations for identification of larvae of the Cucujoidea (Coleoptera) found living in dead trees in Japan. *Memoirs of the Education Institute for Private Schools in Japan* No. 72:95-147 plus 53 plates.
398. Hayhurst, H. 1937. Insect infestation of stored products. *Ann. Appl. Biol.* 24(4):797-807.
399. Hayhurst, H. 1942. Insect pests in stored products. Chapman and Hall Ltd., London. 108pp.
400. Headstrom, R. 1977. The beetles of America. A. S. Barnes and Co., New York. 488 pp.
401. Heape, R. J. 1968. Some aspects of the insect infestation on stored benniseed. *Rep. Nigerian Stored Prod. Res. Inst.* pp.81-5.
402. Heer, O. 1841. *Fauna Coleopterorum helvetica* 1:416. (Original description of C. bipustulatus, rubripennis, dimidiatus, and pictus.)
403. Hendrickson, G. O. 1930. Studies on the insect fauna of Iowa prairies. *Iowa St. Coll. J. Sci.* 4(2):49-179.

404. Henshaw, S. 1885. List of the Coleoptera of America, North of Mexico. Amer. Entomol. Soc., Philadelphia, Penn. 62 pp.
405. Herbst, J. F. W. 1790. Natursystem aller bekannten in-und ausländischen Insecten,..., Kafer. Berlin. 3:1-324. (Natural System of all known native and native foreign insects). Berlin. 3:1-324. (Original description of C. flexuosus.)
406. Herbst, J. F.W. 1792. Natursystem aller bekannten in- und ausländischen Insecten,...,Kafer. Berlin. 4:1-197.
407. Herbst, J. F. W. 1793. Natursystem aller bekannten in-und ausländischen Insecten,...,Kafer. Berlin. 5:1-392.
408. Heuermann, R. F., and O. L. Kurtz. 1955. Identification of stored products insects by the micromorphology of the exoskeleton. J. Ass. official Agr. Chem. 38:766-81.
409. Heyden, L. V., E. Reitter, and J. Weise. 1891. Catalogus Coleopterorum Europae, Caucasi, et Armeniae rossicae. R. Friedlander & Sohn. Berlin. 420pp.
410. Hilgeman, R. H., and G. C. Sharples. 1950. Progress report: The effects of four insecticides upon the control of beetle infestation in soil and dropped dates. Rep. Date Grower's Inst. 27:12-3.
411. Himelick, E. B., and E. A. Curl. 1958. Transmission of Ceratocystis fagacearum by insects and mites. U.S. Dep. Agr. Plant Dis. Rep. 42:538-45.
412. Hinton, H. E. 1943. A key to the species of Carpophilus (Col. Dermestidae) that have been found in Britain, with notes on some species recently introduced with stored food. Entomol. Mon. Mag. 79:275-7.
413. Hinton, H. E. 1944. A new nitidulid beetle from Burma, Carpophilus (Urophorus) prodicus sp. n. Entomologist. 77:172-3. (Original description of C. prodicus.)
414. Hinton, H. E. 1945. A monograph of beetles associated with stored products. Brit. Mus. Natur. Hist. 1(8):1-433.
415. Hinton, H. E., and A. S. Corbet. 1963. Common insect pests of stored food products. British Mus. (Natur. Hist.) Econ. Ser. 15. 61 pp.
416. Hisamatsu, S. 1953. The insect fauna of Mt. Ishizuchi and Omogo Valley, Iyo, Japan. The Nitidulidae. Trans. Shikoku Entomol. Soc. 3(5-6):139-43.
417. Hisamatsu, S. 1956. The Nitidulidae of the Amani Islands south of Kyushu, Japan (Coleoptera). Mem. Ehima Univ. Sec. 6, Agr. 1(2):163-9.

418. Hisamatsu, S. 1963. Carpophilus hemipterus (Linne) and its allied species (Col. Nitidulidae). Entomol. Rev. Japan 15:59-62. (Original description of C. delkeskampi and indicus.)
419. Hisamatsu, S. 1970. Carpophilus spp. attracted by the rotten jack fruit (Coleoptera: Nitidulidae). Trans. Shikoku Entomol. Soc. 10(3&4):130.
420. Horn, G. H. 1879. Revision of the Nitidulidae of the United States. Trans. Amer. Entomol. Soc. 7:267-336. (Original description of C. pallipennis, and decipiens.)
421. Howard, L. O. 1900. Smyrna fig culture in the United States. U. S. Dep. Agr. Yearbook 1900:76-106.
422. Hubbard, H. G., and E. A. Schwarz. 1878. List of Coleoptera found in the Lake Superior Region. Proc. Amer. Phil. Soc. 17:627-43.
423. Hubbard, H. G., and E. A. Schwarz. 1878. A contribution to a list of the Coleoptera of the lower peninsula of Michigan. Proc. Amer. Phil. Soc. 17:643-66.
424. Hubbard, H. G., and E. A. Schwarz. 1878. Coleoptera of Florida and Michigan. Proc. Amer. Phil. Soc. 17:353-69.
425. Hussain, A. A. 1974. Date palms and dates with their pests in Iraq. Min. Higher Edu. Sci. Res. Baghdad, Univ. Baghdad. 166 pp.
426. Hussain, N. G. 1968. The role of nitidulids in the transmission of Ceratocystis canker of quaking aspen. M. S. Thesis. Col. St. Univ. 138 pp.
427. Hussein, F., K. A. Goubar, and N. K. Abdel-Messieh. 1971. Control of insects infesting dry-dates grown at Asswan. Beit. Trap. Subtrop. Landwirts. u. Tropenvet-med. 9:241-6.
428. Hutson, J. C. 1926. Report of entomological division. Admstr. Rep. Director Agr. Ceylon for 1925. pp. 15-7.
429. Hutson, J. C. 1927. Report of entomological division. Admstr. Rep. Director Agr. Ceylon for 1926. pp. 20-2.
430. Ibrahim, M. M., A. Koura, and M. El-Halfaway. 1970. Ecological and biological studies in some insects infesting dried onions, in U.A.R. Agr. Res. Rev. 48(1):59-63.
431. Illingworth, J. F. 1926. Pineapple insects and some related pests. Exp. Sta. Assoc. Hawaiian Pineapple Cannery. Univ. of Hawaii Bull. 9:33-4.
432. Illingworth, J. F. 1929. Pests of pineapple in Hawaii. Proc. Hawaii. Entomol. Soc. 7:254-6.

433. Ilvessalo, I. 1979. Carpophilus hemipterus L. (Nitidulidae) first outline report from Finland. Carpophilus hemipterus L. (Nitidulidae) Suomesta ensikertaa luonnosta. (in Fi.) Notulae Entomol. 59(4):179.
434. Imms, A. D. 1924. A general textbook of entomology. E. P. Dutton and Co., Inc., New York. 703 pp.
435. Isaac, P. V. 1934. Report of the Imperial Entomologist. Sci. Rep. Inst. Agr. Res. Pausa 1932-33 Delh. pp.161-6.
436. Jackson, M. M., A. F. Ratay, and E. J. Woznicki. 1956. Identification of stored products insects by the micromorphology of the exoskeleton. II. Adult antennal characters. J. Ass. Off. Agr. Chem. 39(3):879-88.
437. Jackson, M. M., A. F. Ratay, and E. J. Woznicki. 1958. Identification of stored products insects by the micromorphology of the exoskeleton. VI. Adult and larval beetle mandibles. J. Ass. Off. Agr. Chem. 41(2):460-71.
438. Jacobson, G. G. 1905. Zhuki Rossii i zopadnoj Evropy. A.f. Dervien, St. Petersburg. 1024 pp.
439. Jacobson, M., D. K. Reed., M. M. Crystal., D. S. Moreno., and E. L. Soderstrom. (ca. 1979) Chemistry and biological activity of insect feeding deterrents from certain weed and crop plants. Agr. and Environ. Quality Inst. Beltsville, Md. pp. 448-57.
440. Jacquelin-du-Val, P. N. C. 1856. Coleopteros (In Sagra. Historie physique, politique et naturelle de l'Ile de Cuba. Animaux articulés, insectes). Paris. 136 pp. (Original description of C. tempestivus (Non Er..))
441. Jacquelin-du-Val, P. N. C. 1858. Famille des Nitidulides. Pages 134-160 in C. Jacquelin-Duval, Manuel Entomologique. Genera des Coleopteres d'Europe. Vol. 2. C. A. Deyrolle, Paris.
442. Jacquemin, P., and M. Fourment. 1955. Un Cas de Carpophilus (Coleoptera: Nitidulidae) Soc. d'Hist. Nat. de l'Afrique du Nord. B. 46:275-6.
443. Jacquet, J., and S. Bonnamour. 1929. Note sur les moeurs et l'alimentation de Carpophilus hemipterus L. (Col. Nitidulidae) et de sa larve. Bull. Soc. Entomol. France. 14:223-4.
444. Jacquet, J., and S. Bonnamour. 1929. Note sur C. hemipterus (Col. Nitidulidae) et de sa larve. Bull. Bimensuel Soc. Linn. Lyon. 8:7-8.
445. Jantz, O. K., R. F. Gertz, and M. T. Wells, Jr. 1967. Automobile paint effective as an insect attractant. Science 156(3777): 946-7.

446. Jarvis, E. 1914. A new fruit-boring caterpillar of bananas occurring at Tweed Heads, Heteromicta latro. Queensland Agr. J. Brisbane, April 1914. pp.280-4.
447. Jelinek, J. 1964. Nitidulidae of the Klapperich's expedition in Afghanistan. Annotationes Zoologicae et Botanicae, Slovenske narodne muzeum. 8:1-5.
448. Jelinek, J. 1965. Ergebnisse der Albanien-Expedition 1961 des Deutschen Entomologischen Institutes. 37. Beitrag. Beitrage zur Entomologie 15:673-88.
449. Jelinek, J. 1967. 30th result of the zoological expedition of the national museum in Prague to Turkey. ACTA entomol. musei nationalis Pragae. 37:23-30.
450. Jelinek, J. 1969. Coleoptera Nitidulidae. Mem. Inst. Fond. Afr. Noire 84:279. (in French)
451. Jelinek, J. 1978. Ergebnisse der Bhutan-Expedition 1972 des Naturhistorischen Museum in Basel. Entomologica Basiliensia 3:171-218.
452. Jelinek, J. 1979. Insects of Saudi Arabia Coleoptera: Fam. Nitidulidae. Fauna of Saudi Arabia 1:223-7. Ciba-Geigy Ltd., Basle, Switzerland.
453. Jelinek, J. 1981. Results of the Czechoslovak-Iranian entomological expeditions to Iran 1970 and 1973. Acta Entomol. Mus. Nat. Pragae. 40:105-19.
454. Jewell, F. F. 1956. Insect transmission of oak wilt. Phytopathol. 46:244-57.
455. Johannsen, O. A. 1910. Insect notes for 1909. Me. Agr. Exp. Sta. Bull. 177:21-44.
456. Johannsen, O. A., and E. M. Patch. 1912. Insect notes for 1911. Me. Agr. Exp. Sta. Bull. 195:229-48.
457. Johnson, C. W. 1927 & 1946. The insect fauna. In W. Procter. Biological survey of The Mount Desert Region. Wistar Inst. Anat. & Biol., Philadelphia. 247 pp.
458. Johnson. 1935. The pineapple. p.154.
459. (Citation eliminated.)
460. Johnson, C. 1964. A further outdoor record of Carpophilus marginellus Motsch. (Coleoptera: Nitidulidae). Entomologist 97(1208):14.

461. Johnston, H. B. 1930. A note on certain minor crop pests hitherto unrecorded from the Gazira district of the Sudan. Bull. Wellcome Trop. Res. Lab. 31:67-70.
462. Johnston, H. B. 1933. Remarks on the Coleoptera of the Red Sea coast region of the Sudan. Entomol. Mon. Mag. 69:143-51.
463. Jorda, J. 1927. Contribucio al coneixement dels coleopters de les Balears. Formes inedites 4(1). Bull. Ins. Cat. Hist. Nat., 7(1&2):30-4.
464. Joy, N. H. 1932. Coleoptera from a granary at Reading. Entomol. Mon. Mag. 68:(pp. unknown).
465. Kalshoven, L. G. E., H. J. V. Sody, and A. C. V. Van Bommel. 1951. De Plagen van de Cultuurgewassen in Indonesie. N. V. Uitgeverij W. Van Hoeve. S-Gravenhage/Bandoeng. pp. 667-9.
466. Kehat, M., S. Stoller, J. Meisner, and S. Greenberg. 1966. Development of population and control of Carpophilus dimidiatus F., C. hemipterus L. and Coccotrypes dactyliperda F. in dates. Israel J. Agr. Res. 16(4):173-6.
467. Kehat, M., E. Swirski, D. Blumberg, and S. Greenberg. 1974. Integrated control of date palm pests in Israel. Phytoparasitica 2(2):141-9.
468. Kehat, M., D. Blumberg, and S. Greenberg. 1976. Fruit drop and damage in dates: The role of Coccotrypes dactyliperda F. and nitidulid beetles, and prevention by mechanical measures. Phytoparasitica 4(2):93-9.
469. Kehat, M., D. Blumberg, and R. N. Williams. 1983. Seasonal abundance of sap beetles (Coleoptera: Nitidulidae) in date plantations in Israel. Phytoparasitica (In press.)
470. Kellen, W. R., and J. E. Lindegren. 1968. Biology of Nosema plodiae sp. n., a microsporidian pathogen of the Indian-meal moth, Plodia interpunctella (Hubner), (Lepidoptera: Phycitidae). J. Invert. Pathol. 11(1):104-11.
471. Kellen, W. R., and J. E. Lindegren. 1973. New host records for Helicosporidium parasiticum. J. Invert. Pathol. 22(2):296-7.
472. Kemmer, D. A., and R. M. Warner. 1954. Further work on soil treatments for insect control in fig orchards. Proc. Calif. Fig Inst. 8:33-4.
473. Kemper, H. 1938. Uber den Saftkafer (Carpophilus hemipterus L.). Zeitschrift fuer Hygienische und Schaedlingsbekampfung. 5:345-53.
474. Kemper, H. 1939. Die Nagrungs-und Genussmittelschadlinge und ihre Bekampfung. Monogr. Hyg. Zool. Leipzig 6:1-270.

475. Kido, H. 1954. Laboratory tests of malathion dust residues for kill of dried fruit beetle adults. Proc. Calif. Fig Inst. 8:35-6.
476. Kiritani, K., T. Muramatu, and S. Yoshimura. 1963. Characteristics of mills in faunal composition of stored product pests; their role as a reservoir of new imported pests. Jap. J. Appl. Entomol. Zool. 7(1):49-58.
477. Kirk, V. M. 1969. A list of beetles of South Carolina. Part 1. Northern Coastal Plain. S. C. Agr. Exp. Sta. Bull. 1033. 124 pp.
478. Kirk, V. M. 1970. A list of the beetles of South Carolina. Part 2. Mountain, Piedmont, and Southern Coastal Plain. S. C. Agr. Exp. Sta. Bull. 1038. 117 pp.
479. Kirk, V. M., and E. U. Balsbaugh, Jr. 1975. A list of the beetles of South Dakota. S. Dakota St. Univ. Agr. Exp. Sta. Bull. 42. 139 pp.
480. Kloet, G. S., and W. D. Hincks. 1945. A checklist of British insects. T. Buncle and Co., Ltd., Stockport. 483 pp.
481. Klug, J. C. F. 1862. (Coleoptera). In Peters, Naturwissenschaftliche Reise nach Mossambique, Berlin. 566pp. (Original description of var. C. ochropterus and biguttatus (non Motsch.))
482. Knowlton, G. F. 1942. Nitidulidae in corn. J. Econ. Entomol. 35:105.
483. Knowlton, G. F., and B. B. Houck. 1948. Nitidulid beetle infesting sweet corn. J. Econ. Entomol. 41(6):990-1.
484. Kogan, M. 1963. Pragas dos produtos armazenados e o seu reconhecimento. Bol. Campo., R. Janeiro, 19(165):19-32.
485. Kono, H. 1940. Die Nitiduliden und Cucujiden in Tannen-und fichtenwald in Japan. Insecta Matsumurana 14:56-62.
486. Kraatz, G. 1895. Nitidulidae von Togo. Deut. Entomol. Z. 1:145-53. (Original description of C. scutellaris.)
487. Kraepelin, K. 1900. Uber die durch den Schiffsverkehr eingeschleppten Tiere. Jb. Hamburg. Wiss. Anst. (Beiheft) 18:183-209.
488. Kranz, J., H. Schmutterer, and W. Koch. 1977. Diseases, pests and weeds in tropical crops. John Wiley & Sons, New York. 666 pp.
489. Krauss, N. H. 1944. New insect records for Kauai. Proc. Hawaii. Entomol. Soc. 12(1):11.

490. Kulash, W. M. 1954. Save stored grain from insect pests. N. C. Agr. Exp. Sta. Bull. 389:1-24.
491. Kunck., (Date unknown). Grandid. Hist. Madag. Coleopt. (pp. unknown).
492. Kurtz, O. L. 1956. Identification of stored products insects by the micromorphology of the exoskelton. III. Identification of larval fragments and their significance in sanitation analyses. J. Ass. Off. Agr. Chem. 39(4):990-1014.
493. Kvenberg, J. E. 1977. Scanning electron microscopic study of adult stored product beetle mandibles. J. Ass. Off. Agr. Chem. 60(5):1185-1209.
494. Lacordaire, J. T. 1854. Genera des Coleopteres. (pages 293&5) 2:1-548.
495. La Hue, D. W., B. W. Clements, Jr., and H. Womack. 1959. Insect infestation as a factor in storing farmers stock peanuts grown in Georgia. U.S. Dep. Agr. Marketing Serv. Res. Rep. 364:1-39.
496. La Hue, D. W., B. W. Clements, Jr., and H. Womack. 1959. In storage treatments for the protection of farmers stock peanuts from insect damage exploratory tests. U.S. Dep. Agr. Marketing Serv. Res. Rep. 363:1-32.
497. La Hue, D. W. 1979. Pirimiphos-methyl and chlorpyrifos-methyl as controls of indigenous insect infestations in farmers' stock peanuts. J. Econ. Entomol. 72(4):621-4.
498. Lal, O. P., and A. H. Naji. 1979. Outbreaks and new records: Socialist Peoples Libyan Arab Jamahirija. FAO (Food and Agr. Organ. UN) Plant Protect. Bull. 27:21-2.
499. Lamb, K. P. 1974. Economic entomology in the tropics. Academic Press. New York. 195 pp.
500. Lameere, A. 1900. Fn. Belg. 2:344.
501. Latreille, P. 1840. Hist. Nat. Crust. Ins. 2:14.
502. Lauderdale. (1947?). Ariz. St. Entomol. Rep. (1945-46):17,19.
503. Lauderdale. (1952?). Ariz. St. Entomol. Rep. (1950-51):22.
504. Lea, A. M. 1901. (No title) J. Dep. Agr. W. Aust. 3&4:187.
505. Lea, A. M. 1920. Descriptions of new species of Australian Coleoptera. Pt. 16. Proc. Linn. Soc. New S. Wales, Sydney. 45:375-403.
506. Lea, A. M. 1921. On Coleoptera, mostly from Queensland. Mem. Queensland Mus., Brisbane. 7:182-240. (Original description of C. suturalis.)

507. Leach, J. G. 1940. Insect transmission of plant diseases. McGraw Hill Co. New York. 615pp.
508. Leach, J. R., R. P. True, and C. K. Dorsey. 1952. A mechanism for liberation of spores from beneath the bark and for deplodization in Chalara queroina. *Phytopathol.* 42:537-9.
509. LeCato, G. L., and B. R. Flaherty. 1974. Descriptions of eggs of selected species of stored-product insects. *J. Kans. Entomol. Soc.* 47:308-17.
510. Lechanteur, F. 1980. Remarks concerning Carpophilus marginellus new species for Belgium (Coleoptera Nitidulidae). *Bull. Ann. Soc. R. Belge. Entomol.* 115 (10-12):323-6.
511. LeConte, J. L. 1858. Description of new species of Coleoptera, chiefly collected by the United States and Mexican Boundary Commission, under Major W. H. Emory, U.S.A. *Proc. Acad. Sci. Philadelphia*, 10:59-89. (Original description of C. discoideus.)
512. LeConte, J. L. 1859. The Coleoptera of Kansas and eastern New Mexico. *Smiths. Contr. Knowl.*, 2:1-58. (Original description of C. apicalis, and carbonatus.)
513. LeConte, J. L. 1859. Catalogue of the Coleoptera of Fort Tejon, California. *Proc. Acad. Nat. Sci. Philadelphia*, 11:69-90. (Original description of C. caudalis.)
514. LeConte, J. L. 1859. The complete writings of Thomas Say on entomology of North America. Estes and Lauriat, Boston, Mass. 814 pp. (In 2 Vol.).
515. LeConte, J. L. 1875. Descriptions of new Coleoptera of the United States with notes on the geographical distribution. *Trans. Amer. Entomol.* 5:169-76.
516. LeConte, J. L., and G. H. Horn. 1883. Classification of the Coleoptera of North America. *Smithsonian Inst. Misc. Collect.* 507. 567 pp.
517. Lee, R. M., G. S. Langford, and E. N. Cory. 1953. Sap beetles in Maryland. *J. Econ. Entomol.* 46(2):366-7.
518. Lefkovitch, L. P. 1966. Some observations on the life cycle of Carpophilus dimidiatus (F.) (Coleoptera, Nitidulidae) on wheat bran. *J. Stored Prod. Res.* 2(2):163-5.
519. Leng, C. W., and A. J. Mutchler. 1914. A preliminary list of the Coleoptera of the West Indies as recorded to Jan. 1, 1914. *Bull. Amer. Mus. Nat. Hist.* 33:391-421.
520. Leng, C. W., and A. J. Mutchler. 1917. Supplement to preliminary list of the Coleoptera of the West Indies. *Bull. Amer. Mus. Nat. Hist.* 37:191-220.

521. Leng C. W. 1918. Notes on some changes in the list of Coleoptera. J. N. Y. Entomol. Soc. 26:201-5.
522. Leng, C. W. 1920. Catalogue of the Coleoptera of America, North of Mexico. J. D. Sherman, Jr., Mt. Vernon, N.Y. 470 pp.
523. Leonard, M. D. 1928. A list of the insects of New York with a list of the spiders and certain other allied groups. Cornell Univ. Agr. Exp. Sta. Mem. 101. 1121 pp.
524. Leonard, M. D. 1933. Notes on insect conditions in Puerto Rico for 1931-32. J. Dep. Agr. Puerto Rico 17:97-137.
525. Lepage, H. S., and E. R. Figueiredo Junior. 1946. Contribuicao para o levantamento fitossanitario do Estado de S. Paulo. Fol. Av. Dir. Publ. Agr. Sec. Agr. Ind. Com., S. Paulo. 116 pp.
526. Lepage, H. S., and L. I. Goncalves. 1939. Insetos prejudiciais ao milho armazenado. Sec. Agr. Ind. Com., Sec. Cereais, Bol., S. Paulo. 2:1-38.
527. Lepesme, P. 1944. Les Coleopteres des denrees alimentaires et des produits industriels entreposes. Encyclopedie Entomologique. Lechevalier, Paris. 335 pp.
528. Lepesme, P. 1947. Les insects des palmiers. Lechevalier, Paris, 903 pp.
529. Lesne, P. 1938. Sur un nitidulide mycetophage nouveau et sur quelques caracteres de la famille. Rev. Fr. Entomol. 5:158-70. (Original description of C. mycetophagus.)
530. Le Torc'h, J. M. 1977. Le Froid: moyen de protection contre les ravageurs des denrees stockees. Essais de laboratoire sur les insectes des Pruneaux. Rev. Zool. Agr. Pathol. Veg. 76(4):109-17.
531. Letzner, K. 1852. Jahresb. Schles. Ges. vaterl. Kult., p.315.
532. Lever, R. J. A. W. 1934. Insects of the coconut palm in the British Solomon Islands.(List 3.) Brit. Solomon Is. Agr. Gaz. 2(3):7-8.
533. Lever, R. J. A. W. 1940. Insect pests of citrus, pineapple and tobacco. J. Dep. Agr. Fiji 11:99-101.
534. Lever, R. J. A. W. 1943. Entomological notes. Agr. J. Fiji 14(1):14-8.
535. Lever, R. J. A. W. 1945. Insect pests of some economic crops in Fiji. Bull. Entomol. Res. 35(4):367-77.
536. Lewis, G. 1879. On certain new species of Coleoptera from Japan. Ann. Mag. Nat. Hist. Series 5. 4:459-67. (Original description of C. hemipterus.)

537. Liebermann, L. H., and L. H. Bertolini. 1942. Entomologia agricola indentificacion y control de insectos y otros animales daninos o utiles a las plantas. O. Chiesa Molinari, San Juan. (pp. unknown).
538. Lima, A. M. da Costa. 1928. Segundo catalogo systematico dos insectos que vivem nas plantas do Brasil e ensaio de bibliographia entomologia brasileira. Arq. Esc. Sup. Agr. Med. Vet., R. Janeiro 8(1-2):69-301.
539. Lima, A. M. da Costa. 1936. Terceiro catalogo dos insectos que vivem nas plantas do Brasil. Min. Agr. Esc. Nac. Agron; Direct. Estat. Producao, R. Janeiro. 460 pp.
540. Lima, A. da Costa. 1953. Insectos do Brasil. Tomo 8. Coleopteros. 2 Parte. Escola Nacional de Agronomia. Serie Didatica No. 10, Tip. Jornal de Commercio, R. Janeiro. 323 pp.
541. Lin, T. 1965. Chemical control of granary insects and the oral test of white mice with insecticides (in Chinese). J. Taiwan Agr. Res. 14(2):534-66.
542. Lindegren, J. E., and G. T. Okumura. 1973. Pathogens from economically important nitidulid beetles. ARS W-9, Western Region, U.S. Dep. Agr. 7 pp.
543. Lindegren, J. E. 1976. Current prospects for microbial control of nitidulid beetles. Proc. Calif. Fig Inst. pp. 15-8.
544. Lindegren, J. E., and D. F. Hoffman. 1978. Laboratory evaluation of Helicosporidium sp. as a biological control agent of nitidulids. Proc. California Fig Inst. pp. 6-9.
545. Lindgren, D. L., D. E. Bliss, and D. F. Barnes. 1949. Insect infestation and fungus spoilage of dates. Rep. Date Growers' Inst. 25:12-7.
546. Lindgren, D. L., and L. E. Vincent. 1949. Investigations on life history and control of date insects and the date mite. Rep. Date Growers' Inst. 26:21-4.
547. Lindgren, D. L., L. E. Vincent, and P. D. Gerhardt. 1951. Report on date-insect and date-mite control investigations. Rep. Date Growers' Inst. 28:4-5.
548. Lindgren, D. L., and L. E. Vincent. 1953. Nitidulid beetles infesting California dates. Hilgardia 22(2):97-118.
549. Lindgren, D. L., and L. E. Vincent. 1953. Experiments on the control of insects infesting dates in the bunch. Rep. Date Growers' Inst. 30:14-6.
550. Linnaeus, C. 1758. Systema naturae per regna tria naturae secundum classes, ordines, genera, species cum characteribus,

- differentiis, synonymis, locis, ed. Holmiae. 1(10):1-823.
(Original description of C. hemipterus.)
551. Linnaeus, C. 1767. Systema naturae per regna tria naturae secundum classes, ordines, genera, species, cum characteribus, differentiis, synonymis, locis. (ed. 10) 1(2):533-1327. (Original description of C. bimaculatus.)
552. Linsley, E. G., and A. E. Michelbacher. 1943. Insects affecting stored food products. Rep. Calif. Agr. Exp. Sta. Bull. 676:3-48.
553. Linsley, E. G., and A. E. Michelbacher. 1946. Pest control and sanitation. 1(10):10-1.
554. Lockwood, 1954. Calif. Dep. Agr. Bull. 43:185.
555. Loding, H. P. 1945. Catalogue of the beetles of Alabama. Monogr. 11, Geol. Surv. Ala., Univ. Ala. 172 pp.
556. Loschiavo, S. R., and G. T. Okumura. 1979. A survey of stored product insects in Hawaii. Proc. Hawaii. Entomol. Soc. 13(1): 95-118.
557. Lucas, P. 1849. Histoire naturelle des animaux articulés. In exploration scientifique de l'Algerie pendant les années 1840,41,42...,Sci. Phys., Zoologie 2:1-590. (Original description of C. immaculatus.)
558. Luckmann, W. H., and E. T. Hibbs. 1959. Present status in the North Central states of some nitidulids known to damage sweet corn. Proc. N. Cent. Br., Entomol. Soc. Amer. 14:81-2.
559. Luggar, O. 1900. Beetles (Coleoptera) injurious to fruit producing plants. Bull. No. 66, Minn. Agr. Exp. Sta., Dec., 1899, pp.85-331.
560. Lutz, F. E. 1935. Field book of insects. G. P. Putnam's Sons, New York. 562 pp.
561. Mackie, D. B. 1937. Report of the entomological service. Calif. Dep. Agr. Bull. 25:455-81.
562. MacLeay, W. J. 1873. Notes on a collection of insects from Gayndah. Trans. Entomol. Soc. New South Wales, (1871) 2:79-205. (Original description of C. aterrimus, luridipennis, pilipennis, and convexiusculus (=Haptoncus ocularis (Fairm.) see Lea 1920.)
563. Malkin, B. 1941. Additions to New Jersey State list of Coleoptera. J. New York Entomol. Soc. 49:285-91.
564. Mallamaire, A. 1954. Les insectes nuisibles aux produits vegetaux et denree alimentaires entreposes a Dakar. Bull. Prot. Veg. A. O. F. no.1 pp.48-57.

565. Mallis, A. 1969. Handbook of pest control, the behavior, life history, and control of household pests. (5th ed.) MacNair-Dorland Co., New York. 1158pp.
566. von Mannerheim, C. G. 1843. Beitrag zur Kaferfauna der Aleutischen, Inseln der Insel Sitka und Neu Californiens. Bull. Soc. Imp. Nat. Moscou, 16(2):175-314.
567. von Mannerheim, C. G. 1852. Zweiter Nachtrag zur Kaefer- Fauna der nord-amerikanischen Laender des russischen Reiches. Bull. Soc. Imp. Nat. Moscou, 25(1):283-387.
568. Marek, O. 1968. Nitiduliden-fauna (Coleoptera) aus Liberia. Natura Jutlandica. 14:153-4.
569. Mariconi, F. A. M. 1963. Inseticidas e seu emprego no combate as pragas. Ed. Agron. "Ceres", Sao Paulo. 607 pp.
570. Marlatt, C. L. 1929. Report (1928-29) of the chief of the bureau of entomology. Rep. Entomol. U.S. 39pp.
571. Marlatt, C. L. 1930. U.S. Dep. Agr. Entonol. Rep. p.62.
572. Marseul, S. A. 1872. N. Repert. p.96. (Source: Grouvelle 1913).
573. Marseul, S. A. 1885. Precis des genres et especes de la tribu des nitidulides de l'Ancien Monde. L'Abeille. 23:19-142.
574. Marseul, S. A. 1885. N. Repert. pp. 35-42.
575. Marsham, T. 1802. Entomologia Britannica, London 1:133.
576. Martin, H. 1958. Pests and diseases of date palm in Libya. F.A.O. Plant Prot. Bull. 6(8):120-3.
577. Martin, H. 1959. Ravageurs et maladies du palmier datier en Libye. 1st FAO Int. Tech. Meeting Date Prod. and Processing. 5-11 Dec. 1959, Tripoli, Libya. Food Agr. Organ., Rome. 9 pp.
578. Martinez de la Escalera, M. 1914. Los Coleopteros de Marruecos. Trav. Mus. Nac. Cienc. Nat., ser. Zool., Madrid. 11:114-7,537.
579. Maskew, F. 1916. Quarantine Division; report for the month of March 1916. Mon. Bull. Calif. Comm. Hort. 5(5):198-200.
580. Maskew, F. 1919. Mon. Bull. Calif. Dep. Agr. 7(6):429-32.
581. Maskew, F., and L. A. Strong. 1920. Mon. Bull. Calif. Dep. Agr. 7(12):721-35.
582. Maxwell-Lefroy, H. 1909. Indian insect life. Thacker, Spink & Co., Calcutta. pp.786.

583. McCoy, E. D., and J. R. Rey. 1981. Terrestrial arthropods of northwest Florida salt marshes: Coleoptera. Fla. Entomol. 64(3):405-11.
584. McFarlane, J. A. 1962. A note on the field infestation of pods of the tamarind tree, Tamarindus indica L., in Jamaica. Entomol. Mon. Mag. 97:198-9.
585. McMullen, L. H., C. R. Drake, R. D. Shenefelt, and J. E. Kuntz. 1955. Long distance transmission of oak wilt in Wisconsin. Plant Dis. Rep. 39(1):51-3.
586. McMullen, L. H., R. D. Shenefelt, and J. E. Kuntz. 1960. A study of insect transmission of oak wilt in Wisconsin. Wis. Aca. Sci., Arts and Letters, Trans. 49:73-84.
587. McMullen, L. H., and R. D. Shenefelt. 1961. Nitidulidae collected from banana bait traps in Wisconsin. Wisc. Acad. Sci. Arts and Letters, Trans. 50:233-7.
588. Melsheimer, F. E. 1844. Descriptions of new species of Coleoptera of the United States. Proc. Acad. Nat. Sci. Philadelphia, 2:98-118. (Original description of C. antiquus and var. C. punctulatus.)
589. Melsheimer, F. E. 1853. Catalogue of the described Coleoptera of the United States. Smithsonian Inst., Washington, D.C. 174 pp.
590. Metcalf, C. L., W. P. Flint, and R. L. Metcalf. 1962. Destructive and useful insects their habits and control. McGraw-Hill Book Co., New York. 1085 pp.
591. Michelbacher, A. E., and J. C. Ortega. 1958. A technical study of insects and related pests attacking walnuts. Calif. Agr. Exp. Sta. Bull. 764:1-86.
592. Miller, D. 1922. Insect notes: 1921-22 season. N. Z. J. Agr. 24(5):294-6.
593. Miller, J. C. 1978. Observations on dried fruit beetles in Chile. Proc. Calif. Fig Inst. pp. 1-3.
594. Miller, K. V. 1981. The biology, host preference, and functional response of Atheta coriaria (Kraatz) (Coleoptera: Staphylinidae). M.S. Thesis, Ohio St. Univ. pp.1-49.
595. Miller, K. V., and R. N. Williams. 1983. Biology and host preference of Atheta coriaria (Coleoptera: Staphylinidae), and egg predator of Nitidulidae and Muscidae. Ann. Entomol. Soc. Amer. 76(2):158-61.
596. Miller, M. W. 1952. Yeast associated with the dried-fruit beetle in figs. Proc. Calif. Fig Inst. 6:8-9.

597. Miller, M. W., and E. M. Mrak. 1953. Yeasts associated with dried fruit beetles in figs. *Appl. Microbiol.* 1:174-8.
598. Miller, M. W., and H. J. Phaff. 1962. Figs, insects, and disease. *Proc. Calif. Fig Inst.* 16:8-10.
599. Milliron, H. E. 1958. Economic insect and allied pests of Delaware. *Del. Agr. Exp. Sta. Bull.* 321:1-87.
600. Misra, C. S. 1920. Index to Indian fruit pests. In *Proc. 3rd. Entomol. Meeting (Pusa 1919)*, T. B. Fletcher (ed). Calcutta, 2:418-835.
601. Molinari, O. C. 1942. *Entomologia agricola, identification y control de insectos y otros animales daninos o utiles a las plantas.* (Publ. unknown). San Juan, Argentina. (pp. unknown).
602. Moller, W. J., and J. E. DeVay. 1966. Role of insect vectors in the Ceratocystis canker disease of stone fruit trees. *Phytopathol.* 56(8):891.
603. Moller, W. J., and J. E. DeVay. 1968. Insect transmission of Ceratocystis fimbriata in deciduous fruit orchards. *Phytopathol.* 58:1499-1508.
604. Monroe, C. F., A. E. Perkins, and C. E. Knoop. 1947. Silage from drought-damaged corn. Page 48 in *Farm science and practice.* O. Agr. Exp. Sta. Bull. 673:1-103.
605. Monte, O. 1937. O bicho da anona (Syprestia carinosa Casey). *Campo, R. Janeiro,* 8(93):26-7.
606. Montrouzier, X. 1860. *Essai sur la faune entomologique de la Nouvelle-Caledonie (Balade) et des Iles des Pins, Art, Lifu, etc.* *Ann. Soc. Entomol. Fr.* 8(3):229-308, 867-916. (Original description of C. bimaculatus and puberulus.)
607. Moore, I. 1937. A list of the beetles of San Diego county, California. *Occasional Papers.* San Diego Soc. Nat. Hist. No.2:1-109.
608. Moragues, F. 1889. Coleopteros de Mallorca. *An. Soc. Esp. Hist. Nat.,* 18:11-34.
609. Morrill, A. W. 1913. Entomological pioneering in Arizona. *J. Econ. Entomol.* 6:185-95.
610. Morrill, A. W. 1917. 9th Annu. Rep. Ariz. Commiss. Agr. & Hort. pp.15-61.
611. Morris, C. L., H. E. Thompson, B. L. Hadley, Jr., and J. M. Davis. 1955. Use of radioactive tracer for investigation of the activity pattern of suspected insect vectors of the oak wilt fungus. *U.S. Dep. Agre. Pl. Dis. Rep.* 39(1):61-3.

612. Morris, 1920. Ann. Trop. Med. Parasit. 12(4):339-42.
613. Morris, H. M. 1937. Injurious insects of Cyprus. Bull. Agr. Dep. Cyprus, No.4. (pp. unknown).
614. Motschulsky, T. V. 1858. Entomologie speciale. Insectes des Indes orientales. Etudes Entomologiques. 7:20-122. (Original description of C. fulvipes, marginellus, biguttatus, fuscus, cribellatus, sericeus, pilosellus, plagiatiennis, dilutus strigipennis, and marginellus).
615. Motschulsky, T. V. 1860. Etudes Entomologiques. 9:1-41. (Original description of C. grandis.)
616. Mullett, 1955. Tenn. Ext. Pub. 360:10.
617. Munro, J. W. 1940. Report on a survey of the infestation of grain by insects. Dep. Sci. Industr. Res. London. 1940:8-45.
618. Munro, J. W. 1966. Pests of stored products. Hutchinson, London. 234pp.
619. Murray, A. 1864. Monograph of the family Nitidulariae. Trans. Linn. Soc. London. 24:211-414. (Original description of C. adumbratus, conspicuus, augustus, australis, bakewelli, bifenestratus, binotatus, lacertosus, purpureipennis, chalybeus, canus, compressus, cribratus, cuneiformis, cylindricus, dilutus, limbalis, nigritus, robustus, testaceus, discolor, dolens, ferrugineus, flavipes, foveicollis, frivulus, funereus, fusus, gentilis, hoffmannseggi, inconspicuus, lepidus, ligatus, ligneus, lugubris, maculatus, vittiger, morio, luridus, nepos, nitidus, notatus, obesus, oculatus, ophthalmicus, pallescens, piger, planatus, pubescens, puncticeps, rubescens, rubiginosus, rufitarsis, rufus, schioedtei, senex, tectus, terminatus, tenuis, terminalis, triton, truncatus, ustulatus, variolosus, and xanthopterus.)
620. Murtfeldt, M. E. 1903. Another yucca feeding insect. Entomol. News 14:293-5.
621. Myers, J. G. 1928. Report on insect infestation of dried fruit. E. M. B. H. M. Stationary Off., London. 12:1-36.
622. Nakane, T. 1959. Entomological results from the scientific survey of the Tokara Islands, VII. Coleoptera: Clavicornia-Nitidulidae, Rhizophagidae, Languriidae, Erotylidae and Endomychidae (in Japanese). Sci. Rep. Kyoto Prefect. Univ. (Nat. Sci.). 3(1):A53-A61. (Original description of C. cingulatoides, and tenuis hana.)
623. Nakane, T. 1959. The Coleoptera of Yakushima Island, Clavicornia (Nitidulidae, Cryptophagidae, Biphyllidae, Languriidae, Erotylidae, Endomychidae, Cisidae) (in Japanese). Sci. Rep. Kyoto Prefect. Univ. (Nat. Sci.), 3(1):A69-A72.

624. Nakao, H. K., G. Y. Funasaki, S. Y. Higa, and P. Y. Lai. 1981. Introductions for biological control in Hawaii USA. 1977 and 1978. Proc. Hawaii. Entomol. Soc. 23 (3):425-30.
625. Nash, D. R. 1975. Carpophilus marginellus (Coleoptera: Nitidulidae) out of doors in Wiltshire, England. Entomol. Mon. Mag. 111(1328-30):50.
626. Nash, D. R. 1977. Carpophilus sexpustulatus (F.) (Col., Nitidulidae) out-of-doors in Wilts. and Suffolk. Entomol. Mon. Mag. 113:84.
627. Neel, W. W., B. D. Glick, L. L. May, and R. P. True. 1967. Attractiveness to Nitidulidae (Coleoptera) of natural attractants of tree and fungus origin supplemented with vinegar and water in an Appalachian hardwood forest. J. Econ. Entomol. 60(4):1104-9.
628. Nelson, D., G. H. Spitler, and A. P. Yerington. 1963. Protecting raisins against insects during drying and storage with malathion-treated trays. Market Quality Res. Div. Agr. Marketing Service U.S. Dept. Agr. No.594, 18pp.
629. Nelson, D., G. H. Spitler, and A. P. Yerington. 1967. Use of malathion-treated drying trays to protect raisins from insects during drying and storage. U.S. Dep. Agr. Mktg. Res. Rep. No.789, 14pp.
630. Newell, W., and R. I. Smith. 1905. Insects of the year 1904 in Georgia. pages 69-73, in bureau of entomology U.S. Dep. Agr. Bull. No.52. Proc. 17th Annu. Meeting Ass. Econ. Entomol.
631. Nixon, R. W. 1951. Date culture in the United States. U. S. Dep. Agr. Circ. 728(Rev.), 57 pp.
632. Nonveiller, G. 1969. Note sur les chenilles des panicules de sorgho au Cameroun et la correlation entre l'intensite'de l'attaque et la compacite' des panicules. Agron. T. 24(6-7):610-63.
633. Noyes, J. S. 1982. A new species of Zeteticontus Silvestri (Hymenoptera: Encyrtidae) from Israel and Kenya, a parasite of Carpophilus hemipterus (L.) (Coleoptera: Nitidulidae). Bull. Entomol. Res. 72(3):457-60.
634. Nunberg, M. 1976. Klucze do oznaczania owadow Polski. Polskie Towarzystwo Entomol. 92:1-92.
635. Nurein, M. O. M. 1965. The taxonomy and biology of Carpophilus longiventris Sharp and Carpophilus pallipennis (Say) in cacti in southern Arizona. M.S. Thesis Univ. Ariz. 48 pp.
636. Nuzzaci, G. 1968. Danni da Carpophilus mutilatus Erichs. a frutti di melograno. Entomologica 4:167-73.

637. Nwankwo, F. I., and E. O. Nwogu. A survey of seasonal quality of bagged palm kernels and cocoa awaiting export from Port Harcourt. pp.47-56 (En, Technical Report No. 3). Niger. Stored Prod. Res. Inst. P.M.B. 12543, Lagos, Nigeria.
638. Obenauf, G., and T. Hall. 1973. Report of nitidulid and drosophila research. Univ. Calif. Agr. Ext. Bull. 61 pp.
639. Obenauf, G., and C. Knight. 1975. Daily flight of nitidulids and drosophila in fig orchards. Proc. Calif. Fig Inst. pp. 56-64.
640. Obenauf, G., and C. Knight. 1975. Trap design and attractants. Proc. Calif. Fig Inst. pp. 46-55.
641. Obenauf, G., and C. Ferris, C. Knight, and G. Obenauf. 1975. Monitoring insect populations in figs. Proc. Calif. Fig Inst. pp. 65-96.
642. Obenauf, G. 1976. Daily flight of nitidulids and drosophila in fig orchards. Proc. Calif. Fig Inst. pp.55-60.
643. Obenauf, G., and C. Knight. 1976. Trap placement. Proc. Calif. Fig Inst. pp. 48-54.
644. Obenauf, G., H. Black, C. Knight, and K. Husbands. 1976. Monitoring insect populations in fig orchards. Proc. Calif. Fig Inst. pp. 61-94.
645. Obenauf, G., H. Black, and K. Lee. 1978. Evaluation of dichlorovos for control of nitidulids and drosophila on figs. 1977. Proc. Calif. Fig Inst. pp. 20-6.
646. Ogawa, J. M. 1957. The dried fruit beetle disseminating spores of the peach brown rot fungus. Phytopathol. 47(9):530.
647. Ogawa, J. M. 1960. Vectors of peach fruit-rot pathogens. Proc. Calif. Fig Inst. 14:41.
648. Ogilvie, L. 1925. Chief plant diseases and pests observed during the year. Rep. Bd. Agr. Bermuda. 1924:36-43.
649. Okobi, A. O. 1980. A study of the effects of 5 months storage on bagged cocoa in a 1250 ton stack. pp. 13-5. (En) Niger. Stored Prod. Res. Inst.,PMB 12543, Lagos, Nigeria.
650. Okumura, G. T., and R. G. Strong. 1965. Insects and mites associated with stored foods and seeds in California. Part II. Bull., Dep. Agr., St. Calif. 54(1):13-23.
651. Okumura, G. T., and I. E. Savage. 1974. Nitidulid beetles most commonly found attacking dried fruits in California. Nat. Pest Control Operators News 34(3):2-7.

652. Okuni, T. 1928. Report of the studies on stored grain pests. (in Japanese). Part II. Rep. Govt. Res. Inst., Dep. Agr. Formosa 34:1-121.
653. Olivier, A. G. 1790. Entomologie Coleopteres, Paris, 2:1-485.
654. Olivier, A. G. 1811. Encyclopedie methodique dictionnaire des insectes. Paris. 8:1-704.
655. Olliff, A. S. 1883. Entomologist 16:97. (Original descriptions of C. assimilis and ordinatus. C. ordinatus is no longer in the genus Carpophilus.)
656. Olliff, A. S. 1885. Notes on certain Ceylonese Coleoptera Proc. Linn. Soc. New S. Wales. 10:69-72.
657. Olsen, A. R. 1981. List of stored-product insects found in imported foods entering United States at southern California ports. Bull. Entomol. Soc. Amer. 27(1):18-20.
658. Onyearu, A. K. 1967. The keeping quality of palm kernels in relation to climate and insect infestation. Rep. Niger. Stored Prod. Res. Inst. pp. 97-102.
659. Osuji, F. N. C. 1980. Observations on beetles attacking dried yams and yam flour from three Nigerian markets. Trop. Stored Prod. Inform. No.39 pp. 35-8.
660. Packard, A. S. 1869. Guide to the study of insects. H. Holt and Co., New York. 715 pp.
661. Panzer, G. W. F. 1793. Faunae Insectorum Germanicae, Nurnberg, pp.13-24. (Original description of C. abbreviatus.)
662. Panzer, G. W. F. 1795. Entomol. Germ. 1:129.
663. Papadopoulou, C. P. 1963. Disinfestation of dried figs by gamma radiation. Pages 85-91. in Radiation and Radioisotopes Applied to Insects of Agricultural Importance. Proc. Sympos., Athens, 22-6 April, 1963. International Atomic Energy Agency Vienna, Austria.
664. Parker, W. B. 1915. Control of dried-fruit insects in California. U.S. Dep. Agr. Bull. 235:15.
665. Parker. 1946/47. Ariz. St. Entomol. Rep. p.27.
666. Parsons, C. T. 1943. A revision of Nearctic Nitidulidae (Coleoptera). Bull. Mus. Comp. Zool. 92(3):119-278. (Original description of C. nigrovittatus and sayi.)
667. Passmore, F. R. 1931. Depreciation of prepared copra due to moulds and insects. Bull. Imp. Inst. London. 29(2):171-80.

668. Passmore, F. R. 1932. A survey of damage by insects and moulds to West African cacao before storage in Europe. Season 1930-31. Bull. Imp. Inst., London. 30(3):296-305.
669. Patton, W. S. 1931. Insects, ticks, mites, and venomous animals of medical and veterinary importance. Part II, Public Health. Croydon, England. 740 pp.
670. Pavlova, A. P., and M. V. Listov. 1978. Insects inhabiting warehouses in Leningrad Oblast. (in Russian). Entomol. Obozrenie 57(3):694-9.
671. Paykull, G. 1798. Fauna Suecica, Upsala 1:354.
672. Payne, J. A., and E. D. King. 1970. Coleoptera associated with pig carrion. Entomol. Mon. Mag. 105:224-32.
673. Pemberton, C. E., and F. X. Williams. 1938. Some insect and other animal pests in Hawaii not under satisfactory biological control. Hawaii. Plant Rec. 42: 211-30.
674. Pemberton, C. E. 1939. Proc. Hawaii. Sugar Planters Ass. Exp. Sta. Rep. p.26.
675. Pemberton, C. E. 1950: Insects. In J.P.Martin, Germination of sugar cane cuttings. Rep. Hawaii. Sugar Technologists. 9:53-8.
676. Peng, Wu-Kang. 1979. Density of Coleoptera pests in rice storehouses. NTU (Natl. Taiwan Univ.) Phytopathol. Entomol. 5(0):46-56.
677. Pennock, W., and H. Gandia, 1975. Effect of slip size, and time of planting on yield of "Red Spanish" pineapple in Puerto Rico. J. Agr. Univ. Puerto Rico. 59 (3):141-64.
678. Perris, E. J. P. O. A. 1853. Histoire des Insectes du Pin Maritime Ann. Soc. Entomol. Fr. 1(3):555-644.
679. Perris, E. J. P. O. A. 1863. Histoire des Insectes du Pin Maritime. Ann. Soc. Entomol. Fr. 1:71,(18):69-76.
680. Perris, E. J. P. O. A. 1875. Larves de coleopteres. Ann. Soc. Linn. Lyon, 22:303.
681. Perris, E. J. P. O. A. 1876. Larves de coleopteres. Ann. Soc. Linn. Lyon, 23:(pp. unknown).
682. Perris, E. J. P. O. A. 1877. Larves de coleopteres. Ann. Soc. Linn. Lyon, Paris, 590pp.
683. Petekassis, C. E. D. 1962. A catalogue of the more important insects and other animals harmful to the agricultural crops of Greece during the last thirty- year period. Ann. Inst. Phytopathol. Benaki, (N.S.). 5:5-104.

684. Peterson, A. 1960. Larvae of insects, an introduction to Nearctic species. Pt. 2. Coleoptera, Dystera, Neuroptera, Siphonoptera, Mecoptera, Trichoptera. Edward Brothers, Inc., Ann Arbor, Mich. 416pp.
685. Pfeiffer, D. G., and R. C. Axtell. 1980. Coleoptera of poultry manure in caged-layer houses in North Carolina. Environ. Entomol. 9(1):21-8.
686. Phillips, E. H., E. H. Smith, and R. E. Smith. 1925. Fig smut. Calif. Agr. Exp. Sta. Bull. 387:38.
687. Pilgrim, A. J. 1949. Laboratory testing of insecticides. Proc. Calif. Fig Inst. 3:23-4.
688. Pires, M. do., C. Victoria. 1959. Carpophilus hemipterus (L.) (Coleoptera, Nitidulidae) praga do figo armazenado. Rev. Agron. Lisboa. 42. 56 pp.
689. Plaza, E. 1974. Generos de Nitidulidae de la Peninsula Iberica. Graellsia 30:113-27.
690. Plaza, E. 1977. Los Carpophilus Stephens, 1830, de Espana (Col. Nitidulidae). Graellsia 32:171-92.
691. Poinar, G. O. 1975. Entomogenous nematodes. E. J. Brill, Leiden, 317 pp.
692. Poinar, G. O., and G. M. Thomas. 1978. Diagnostic manual for the identification of insect pathogens. Plenum Press, New York. 218 pp.
693. Poinar, G. O. 1979. Nematodes for biological control of insects. (CRC Press), Boca Raton, Fla. 277 pp.
694. Popenoe, E. A. 1878. Additions to the Catalogue of Kansas Coleoptera. Trans. Kans. Acad. Sci. 6:77-86.
695. Popenoe, P. B. 1913. Date growing in the old world and the new. 316pp., 40pl., Publ. Altadena, California, West India Gardes.
696. Popová, L. G., and V. F. Skopinskii. 1977. An important part of the work (in Russian). Odesskaya Karantinnaya Inspektsiya, USSR. Zashchita Rastenii. No. 7. 38 pp.
697. Porta, A. 1929. Fauna Coleopterorum Italica Diversicornia. Piacenza. 3:142-68.
698. Portevin, G. 1931. Histoire naturelle des Coleopteres de France, Polyphaga, Lamellicornia, Palpicornia, Diversicornia. Lechevalier, Paris. 2:131-2.
699. Poutiers, 1921. Effects des attaques de la Pyrale du mais. Bull. Soc. Pathol. Veg. France. 8(1):45-6.

700. Pratt, D. F., and R. M. Warner. 1955. Bio-assay methods for soil insecticides against the dried fruit beetle. Proc. Calif. Fig Inst. 9:32-3.
701. Prevett, P. F. 1959. An investigation into storage problems of rice in Sierra Leone. Colon. Res. Stud. No.28. (pp. unknown).
702. Pruthi, H. S. 1969. Textbook of agricultural entomology. New Delhi (India Council Agr. Res.), 977 pp.
703. Putnam, J. D. 1876. List of Coleoptera collected in the Rocky Mountains of Colorado, in 1872. Proc. Davenport Acad. Nat. Sci. 1:177-82.
704. Quayle, H. J. 1914. Citrus fruit insects in Mediterranean countries. U.S. Dep. Agr. Bur. Entomol. Bull. 134:1-35.
705. Quayle, H. J. 1929. The Mediterranean and other fruit flies. Calif. Agr. Exp. Sta. 315:1-20.
706. Quayle, H. J. 1938. Insects of citrus and other subtropical fruits. Comstock Publ. Co., New York. 583 pp.
707. Qureshi, A. H., and J. Riley. 1968. Studies on the fumigation of bagged groundnuts with Phostoxin in railway waggons. Rep. Niger. Stored Prod. Res. Inst. pp. 99-103.
708. Rai, B. K., and W. Singh. 1977. Studies on the insect pests of stored copra. Bull. of Grain Technol. 15(3):197-205.
709. Rajagopal, D., and G. P. ChannaBasawanna. 1975. Insect pests of maize in Karnataka. Mysore J. of Agr. Sci. 9(1):110-21.
710. Rajagopal, D., and G. P. ChannaBasavanna. 1977. Preliminary studies on the chemical control of maize insects. Mysore J. Agr. Sci. 11(1):73-6.
711. Rajendra, A. 1974. The biology and control of Saccharicoccus sacchari Ckll. (Hom: Pseudococcidae) the pink mealy bug of sugar cane in Sri Lanka. Ceylon J. Sci., Bio. Sci. 11(1): 23-8.
712. Rakshpal, R., 1947. Notes on the structure and development of the male genital organs in Carpophilus sp. (Nitidulidae, Coleoptera). Indian J. Entomol. 8(1):59-68.
713. Rakshpal, R. 1947. Notes on the structure and development of the female genital organs of Carpophilus sp. (Nitidulidae, Coleoptera) with a comparison of the genital organs in the two sexes. Indian J. Entomol. 8(2):164-73.
714. Ramachandra Rao, Y., and A. Dutt. 1921. The pest of the date palm in Iraq. Mem. Mesopotamia Dep. Agr., Basrah. 6:1-21.

715. Rangarajan, A. V., N. R. Mahadevan, and S. Iyemperumal. 1977. Pest complex of sunflower (Helianthus annuus Linn.) in Tamil Nadu. Indian J. Entomol. 37(2):188-91.
716. Ratay, A. F., M. M. Jackson, and E. J. Woznicki. 1958. Identification of stored products insects by the micromorphology of the exoskeleton. VII. Labral characteristics of adult beetles. J. Ass. Off. Agr. Chem. 41(2):472-8.
717. Rathore, Y. S., and C. S. Sengar. 1969. New records of Nitidulid and rhizophagid beetles on maize cobs in the U. P. Tarai. J. Bombay Natur. Hist. Soc. 69(1):208-9.
718. Ratti, E., and L. Rampini. 1976. Results of phytosanitary inspections in the port of Venice, Italy. Part I. Beetles associated with cassava rootstocks imported from southern Africa, Coleoptera. Soc. Ven. Sci. Nat. Lav. 2:30-4.
719. Rauterberg, F. 1888. Coleoptera of Wisconsin. Proc. Natur. Hist. Soc. Wis. pp. 145-53.
720. Redtenbacher, L. 1849. Fauna Austriaca 1:163.
721. Redtenbacher, L. 1858. Fauna Austriaca 2:324.
722. Redtenbacher, L. 1874. Fauna Austriaca 3(1):356.
723. Reed, J. P. 1949. What is the present status of sap beetle control? New Jersey Agr. Exp. Sta. Annu. Rep. ("Science and the Land".) 70:32-3.
724. Reed, L. B., and R. E. Webb. 1971. Insects and diseases of vegetables in the home garden. U.S. Dep. Agr. Home Garden Bull. 46:39.
725. Reiss, A. 1971. Pollination fruit set and fruit development in Annona (in Hebrew). M.S. Thesis. The Hebrew Univ. Jerusalem, Rehovot, Israel. (pp. unknown).
726. Reitter, E. 1873. Systematische Eintheilung der Nitidularien. Verh. Naturf. Ver. Brunn, 12(1):3-194. (Original description of C. crassicollis, distinctus, humerosus, limbipennis, luteipennis, mexicanus, punctipennis, obtusicollis, and pauculus.)
727. Reitter, E. 1875. Die europaischen Nitidularien. Deut. Entomol. Z. 19(3):1-30.
728. Reitter, E. 1875. Beschreibungen neuer Nitidulidae aus der Sammlung der Herren Deyrolle in Paris. Verh. Naturf. Ver. Brunn. 13:99-122. (Original description of C. excellens.)
729. Reitter, E. 1876. Neue Peruanische Nitidularier der Kirsch'schen, Dohrn'schen Sammlung. 20:305-9. (Original description of C. dohrni.)

730. Reitter, E. 1877. Deut. Entomol. Z. 21:371. (Original description of C. heterostomoides and punctatissimus.)
731. Reitter, E. 1879. Beitrag zur synonymie der Coleopteren. Verhandl. Zool.-Bot. Ges. Wien., 29:507-12.
732. Reitter, E. 1879. Verzeichniss der von H. Christoph in Ost-Sibirien gesammelten Clavicornier etc. Deut. Entomol. Z., 23:209-26. (Original description of C. sibiricus.)
733. Reitter, E. 1882. Wien. Entomol. Zeit. 1:189.
734. Reitter, E. 1884-1885. Die Nitiduliden Japans. Wien. Entomol. Zeit. 3:257-72, 299-302, 4:75-80, 101-3, 173-6. (Original description of C. acutangulus, cingulatus, hemipterus, lewisi, funereus, and titanus.)
735. Reitter, E. 1911. Zwei neue Coleopteren- Varietaten. Wien. Entomol. Zeit. 30:291.
736. Reitter, E. 1911. Fauna Germanica Die Kafer des Deutschen Reiches. III, 436pp. (Carpophilus pages 10-15).
737. Reitter, E. 1919. Bestimmungs-Tabelle der Europäischen Coleopteren. Heft 86 (Nitidulidae und Byturidae). Brunn. pp.1-9.
738. Reitter, E. 1919. Bestimmungs-Tabelle der Coleopterenfamilien: Nitidulidae und Byturidae aus Europa und den angrenzenden Landern. Verh. Naturf. Ver. Brunn. 56:1-104 (separ.).
739. Remillet, M., and D. Van Waerebeke. 1972. Particularities of heterogonic cycle of two Tylenchida nematodes parasites of Nitidulidae. Acad. Sci. C. R. Ser. D. 275(14):1507-9.
740. Remillet, M., and D. Van Waerebeke. 1975. Description and life cycle of Howardula madecassa n. sp. and Howardula truncati n. sp. (Nematoda: Sphaerulariidae) parasitic in Carpophilus (Coleoptera: Nitidulidae). Nematologica 21(2): 192-206.
741. Remillet, M., and D. Van Waerebeke. 1978. Description et cycle biologique de Heteromorphotylenchus stelidotae n.g., sp. et de Heteromorphotylenchus carpophili n. sp. (Nematoda, Allantonematidae). Nematologica 24:222-38.
742. Richards, O. W., and G. V. B. Herford. 1930. Insects found associated with cacao, spices and dried fruits in London warehouses. Ann. Appl. Biol. 17:367-93.
743. Richert, W. S. 1938. The California dried fruit industry. V. Figs. Fruit Prod. J. Amer. vinegar Ind. 17(10):297-300.
744. Riley, C. V., and L. O. Howard. 1889. Sap-beetles in injured figs. Insect Life. pp. 253-4.

745. Riley, C. V., and L. O. Howard. 1891. Extracts from correspondence. Fig beetles. *Insect Life*. 3:414-5.
746. Riley, C. V. 1894. Insects occurring in the foreign exhibits of the Worlds Columbia Exposition. *Insect Life* 6:213-27.
747. Riley, J., and E. A. Simmons. 1967. A survey of palm kernels exported from Apapa and Port Harcourt with special reference to discoloration and infestation. Rep. Nigeria Stored Prod. Res. Inst. pp. 81-5.
748. Riley, J., and E. A. Simmons. 1968. The fumigation of large cocoa stacks in a specially designed cocoa warehouse using phosphine. Rep. Nigeria Stored Prod. Res. Inst. pp. 17-27.
749. Riley, J., and E. A. Simmons. 1968. The fumigation of large cocoa stacks at the Ikeja cocoa stores using methyl bromide in the 1966-7 cocoa season. Rep. Nigeria Stored Prod. Res. Inst. pp. 29-38.
750. Riley, J. 1969. The fumigation of large cocoa stacks in a specially designed cocoa warehouse using phosphine. Part 2. Annu. Rep. Nigeria Stored Prod. Res. Inst. pp.17-22.
751. Rixford, G. P. 1918. Smyrna fig culture. U.S. Dep. Agr. Bull. 732:48.
752. Roepke, 1918. Entomologische onderzoekingen 1917-18:13-4.
753. Ronna, E. 1934. Catalogo dos insetos ate hoje encontrados nas plantas do Rio Grande do Sul. *Egatea*, P. Alegre. 19(3): 115-20.
754. Room, P. M., and K. G. Wardhaugh. 1977. Seasonal occurrence of insects other than Heliothis spp. feeding on cotton in the Namoi Valley of New South Wales. *J. Aust. Entomol. Soc.* 16(2):165-74.
755. Roubal, J. 1927. Zwei neue palaearktische Coleopteren. (Two new palaeartic Coleoptera). *Entomol. Anzeiger* (Wien) 6(22): 171. (Original description of C. tenenbaumi.)
756. Rozen, J. G. 1963. Preliminary systematic study of the pupae of the Nitidulidae. *Amer. Mus. Novitates* No. 2124. 13 pp.
757. Ruschkamp, F. 1920. Coleoptera Neerlandica und die Lokalfauna Sud- Limburgs. *Jaarb. Natuurh. Genoot. Limburg*. 1919:35-80.
758. Rutgers, 1918. Verslag Van den Directeur Van het Algemeen Proefstation der A. V. R. O. S. p.44.
759. Sahlberg, C. R. 1820. *Ins. Fenn.* 1:81.
760. Sahlberg, J. 1889. *Enum. Coleopt. Fenn.* p.87.

761. Sakimura, K. 1966. A brief enumeration of pineapple insects in Hawaii. Pineapple Res. Tech. Paper No. 315. 7 pp.
762. Sanford, J. W. 1963. Observations on the biology and control of the dusky sap beetle, Carpophilus lugubris Murray, infesting sweet corn in Illinois. Ph. D. Thesis. Univ. Ill. 54pp.
763. Sanford, J. W., and W. H. Luckmann. 1963. Observations on the biology and control of the dusky sap beetle in Illinois. Proc. N. Cent. Br. Entomol. Soc. Amer. 18:39-43.
764. Satiénranont, W. 1975. Olfactory response by Carpophilus hemipteres (L.), Carpophilus mutilatus (Er.), Urophorus humeralis (F.), and Haptoncus luteolus (Er.) to various portions of citrus fruits (Nitidulidae), Coleoptera). M. S. Thesis, Dep. Plant Sci., Fresno St. Univ. 15 pp.
765. Say, T. 1823. Description of coleopterous insects collected in the late expedition to the Rocky Mountains, performed by order of Mr. Calhoun, Secretary of War, under the command of Major Long. J. Acad. Nat. Sci. Philadelphia, 3(1):139-331. (Original description of C. pallipennis).
766. Say, T. 1825. Descriptions of new species of coleopterous insects inhabiting the United States. J. Acad. Nat. Sci. Philadelphia, 5:160-204. (Original description of C. brachypterus).
767. Schaeffer, C. F. A. 1911. New Coleoptera and miscellaneous notes. J. N.Y. Entomol. Soc. 19:113-29. (Original description of C. californicus and rufiventris).
768. Schaufuss, C. 1916. Calwers Kaferbuch Einführung in die Kenntnis der Kafer Europas. E. Schweizerbart'sche Verlangbuchhandlung, Stuttgart. 709pp.
769. Schaufuss, L. W. 1882. Neue Coleopteren-Arten und-Varietaten. Nunquam otiosus 3: 552-60.
770. Schaum, H. R. 1847. Stett. Entomol. 8:317.
771. Scherdlin, P. 1907. Sur la presence du Carpophilus decipiens Horn en Alsace (Col.). Bull. Soc. Entomol. France. pp.66-7.
772. Schilsky, J. 1909. Systematisches Verzeichnis der Kafer Deutschlands und Deutch-Oesterreichs. Verlag von Strecker and Schroder. Stuttgart. 221 pp.
773. Schlottfeldt, C. S. 1944. Insetos encontrados em plantas cultivadas e comuns. Ceres, Vicosa, Minos. Gerais, 6(31):52-65.
774. Schmidt, C. T. 1935. Biological studies on the nitidulid beetles found in pineapple fields. Ann. Entomol. Soc. Amer. 28(4):475-511.

775. Schneider, O, and H. Leder. 1878. Beitrage zur kenntniss der kaukasischen kafer fauna. W. Burkart, Brunn. 359pp. (Contribution to the knowledge of beetle fauna of Caucasus).
776. Schwarz, E. A. 1878. The Coleoptera of Florida. Proc. Amer. Phil. Soc. 17:353-469.
777. Seabra, A. F. 1943. Contribucoes para o inventario da fauna lusitânica (Col.). Mem. Mus. Zool. Univ. Coimbra, Portugal. 142:153.
778. Seidlitz, G. 1872. Seidl. Fn. Balt. ed. 1:141.
779. Seidlitz, G. 1875. Fauna Baltica. Die Kaefer (Coleoptera) der Ostseeprovinzen Russlands. Arch. Naturk. Kurlands Ser. 2, 5:1-560.
780. Seidlitz, G. 1888. Fn. Transsylv. P.225.
781. Seidlitz, G. 1888. Seidl. Fn. Balt. ed. 2:210.
782. Seidlitz, G. 1891. Fauna Baltica. Die kaefer (Coleoptera) der Deutschen Ostseeprovinzen Russlands. Konigsberg. 819 pp.
783. Sellards, E. H. 1907. Letter to the director. Report of the entomologist. Fla. Agr. Exp. Sta. pp.16-8.
784. Sepasgosarian, H. 1966. Storage pests of Iran and their control. Univ. Tehran, Public. No.1026. 225pp.
785. Sessions, A. C. 1954. Field studies in fig pest control. Proc. Calif. Fig Inst. pp.38-45.
786. Sharp, D. 1885. Part 3. Topographical table of Hawaiian Coleoptera, with summary, generalizations, and comments. Pages 263-300 in Memoirs on the Coleoptera of the Hawaiian Islands. Sci. Trans. Royal Dublin Soc. 3(2):119-300.
787. Sharp, D. 1889. Biologia Centrali - Americana, Insects, Coleoptera, Vol. 2, pt. 1, Nitidulidae, :265-388. (Original description of C. alticola, canescens, comatus, concolor, confertus, crassus, curvipes, deceptor, deflexus, dulcis, elaterinus, epuraeoides, erichsoni, funnebris, longiventris, pallens, palmaris, senilis, similaris, obscurus, transitans, ventralis, veraepacis, and viduatus.)
788. Sharp, D. 1899. Biologia Centrali-Americana, Insecta, Coleoptera, Colydiidae, Rhysodidae, Cucujidae, 2:497-560. (Original description of C. dulcis, elaterinus, epuraeoides, and erichsoni.)
789. Sharp, D. 1908. Fauna Hawaiiensis or the zoology of the Sandwich (Hawaiian) Isles. Cambridge Univ. Press. 3(5):435-508.

790. Shuckard, W. E. 1839. Elements British Entomology. 1:1-240.
791. Shuckard, W. E. 1840. Brit. Coleopt. delin. (Publ. unknown):(pp. unknown).
792. Shuckard, W. E. 1861. The British Coleoptera delineated. Henry G. Bohn, London. 76 pp.
793. Silva, A. G., C. R. Goncalves, L. M. Galvao, A. J. L. Goncalves, J. Gomes, M. N. Silva, and L. Simoni. 1968. Quarta catalogo dos insectos que vivem nas plantas do Brasil seus parasitos e predadores. Parte II, Tomo I. Insectos, hospedeiros e inimigos naturais. Min. Agr. Depto. Def. e Inspecao Agropecuaria Rio de Janeiro. 622 pp.
794. Silva, P., and C. A. S. Bastos. 1976. Armazenagem nos tropicos com referencia especial ao cacau comercial da Bahia. II Seminario Nacional de Armazenagem, CIBRAZEM - Ministerio da Agricultura, Brasilia. CEPLAC, 22 pp.
795. Silvestri, F. 1915. Descrizione di nuovi Imenotteri Calcidi africani. Boll. Lab. Zool. Gen. Agr. Portici 9:337-77.
796. Simmons, P., W. D. Reed, and E. A. McGregor. 1931. Fig insects in California. U.S. Dep. Agr. 157. 72 pp.
797. Simmons, P. 1933. Results of 1932- crop experiments in insect control. Calif. Dried Fruit Assoc. Bull. 1480:1-3.
798. Simmons, P., D. F. Barnes, C. K. Fisher, H. C. Donohoe, and C. D. Fisher. 1935. Dried fruit fumigation. U. S. Dep. Agr. Bur. Entomol. 15pp.
799. Simmons, P. 1960. Malathion sprays for reducing dried fruit packing house infestations. J. Econ. Entomol. 53(5):969-70.
800. Simmons, P., and H. D. Nelson. 1975. Insects on dried fruits. U.S. Dep. Agr. Handbook 464. 26 pp.
801. Singh, P. 1977. Artificial diets for insects, mites and spiders. IFI/Plenum, New York. 594 pp.
802. Skalbeck, T. C. 1976. The distribution of Nitidulidae in deciduous forests of Minnesota. Ph.D. Thesis, Univ. Minn. 204 pp.
803. Skinner, H. 1903. List of the insects of Beulah, New Mexico. Trans. Amer. Entomol. Soc. 29:35-117.
804. Slosson, A. T. 1896. Additional list of insects taken in Alpine region of Mt. Washington. Entomol. News 7:262.
805. Smilanick, J. M., and L. E. Ehler. 1975. An analysis of the insect component of field-collected, infested figs for 1974. Proc. Calif. Fig Inst. pp.19-29.

806. Smilanick, J. M., and L. E. Ehler. 1976. An analysis of the insect component of field-collected, infested figs for 1975. Proc. Calif. Fig Inst. pp. 27-41.
807. Smilanick, J. M., L. E. Ehler, and M. C. Birch. 1978. Attraction of Carpophilus spp. (Coleoptera: Nitidulidae) to volatile compounds present in figs. J. Chem. Ecol. 4(6):701-7.
808. Smilanick, J. M., and L. E. Ehler. 1978. Significance of fruit volatiles in the distribution and abundance of dried fruit beetle. Proc. Calif. Fig Inst. pp. 4-5.
809. Smilanick, J. M. 1979. Colonization of ripening figs by Carpophilus spp. J. of Econ. Entomol. 72(4):557-9.
810. Smith, E. E. 1954. Packing house experience in use of malathion for control of dried fruit beetle Rep. Date Growers' Inst. 31:27.
811. Smith, J. B. 1899. Insects of New Jersey. MacCrellish and Quigley, Trenton, N. J. 755pp.
812. Smith, J. B. 1910. Annual report of the New Jersey State Museum, including report of the insects of New Jersey. MacCrellish and Quigley, Trenton, N. J. 888 pp.
813. Smith, K. G. 1963. The study of an insect population living on bagged groundnuts stored in southern Nigeria with particular reference to the behavior of Trogoderma granarium Everts (Col., Dermestidae). J. W. Afr. Sci. Ass. 8(1):44-57.
814. Smith, L. M., and E. M. Stafford. 1955. Grape pests in California. Calif. Agr. Exp. Sta. Ext. Serv. Cir. 445:57-8.
815. Smith, R. E., and H. N. Hansen. 1927. The improvement of quality in figs. California Agr. Exp. Sta. Circ. 311. 23pp.
816. Smith, R. E., and H. N. Hansen 1929. Fig endosepsis clean-up in Merced County. Pacific Rural Press. 118:554.
817. Smith, R. E., and H. N. Hansen. 1931. Fruit spoilage diseases of figs. Univ. Calif. Agr. Exp. Sta. Bull. 506. 84pp.
818. Snow, F. H. 1906. List of Coleoptera collected in New Mexico by the Entomological Expeditions of the University of Kansas. Trans. Kan. Acad. Sci. 20(2):165-89.
819. Soderstrom, E. D., J. Lindgren, and G. H. Spitler. 1981. Dried fruit beetle. Pages 135, 222, 224-5 in Grape Pest Management. Div. Agr. Sci., Univ. Calif. Publ. No. 4105. 312 pp.
820. Soderstrom, E. L. 1975. Nitidulids: alternate hosts, population densities and insecticide evaluation. Proc. Calif. Fig Inst. pp. 44-5.

821. Soderstrom, E. L., and J. W. Armstrong. 1976. Nitidulids: insecticide, attractant and repellent evaluations: population and temperature studies. Proc. Calif. Fig Inst. pp. 1-14.
822. Soderstrom, E. L., and D. G. Brandl. 1978. Nitidulid research 1976-1978. Proc. Calif. Fig Inst. pp. 10-3.
823. Soultanopoulou- Mantaka, A. 1976. Morphological characters of two species of the genus Carpophilus and variations in the elytral markings of C. hemipterus Lin. (Coleoptera, Nitidulidae). Ann. Inst. Phytopathol. Benaki. 11(3):193-9.
824. Spitler, G. H. 1961. Methyl bromide fumigation in dried fruits. Proc. Calif. Fig Inst. pp. 31-5.
825. Spornraft, K. 1966. Kurzbeitrage zur Kenntnis der mitteleuropaischen Nitiduliden (Coleoptera). Nachr. Bl. Bayer. Entomol. 15:15-6.
826. Spornraft K. 1966. Nitidulidae aus Madeira. Notulae Entomol. 46:122-4.
827. Spornraft, K. 1967. Nitidulidae. In Freude, Harde, Lohse. Die Kafer Mitteleuropas, Goecke and Evers, Krefeld. 7(50):20-77.
828. Spornraft, K. 1968. Beitrag zur Kenntnis der Gattung Carpophilus Steph. (Coleoptera, Nitidulidae). Nachr. Bl. Bayer. Entomol. 17:123-5.
829. Squire, F. A. 1972. Entomological Problems in Bolivia. Pans. 18(3):249-68.
830. Srdic, S., and N. Mitic-Muzina. 1974. Insects recorded in certain warehouses of the frontier zone next to Hungary and Romania. Institut za Zastitu Bilja, Belgrade, Yugoslavia. 25(127):31-7.
831. Stafford, E. M. 1962. Some trends in insect control research. Proc. Calif. Fig Inst. 16:19-22.
832. Stagg, S. B. 1958. An experiment in fogging a dried fruit storage room. Proc. Calif. Fig Inst. pp. 14-7.
833. Stambaugh, W. J., C. L. Fergus, F. C. Craighead, and H. E. Thompson. 1955. Viable spores of Endoconidiophora fagacearum from bark and wood-boring beetles. Plant Dis. Rep. 39(11):867-71.
834. Stambaugh, W. J., and C. L. Fergus. 1956. Longevity of spores of the oak wilt fungus on overwintered nitidulid beetles. Plant Disease Rep. 40(10):919-22.
835. Stamsel, R. H., and R. H. Wyche 1932. Culture in the Gulf Coast Region of Texas. Tex. Agr. Exp. Sta. Bull. 466:1-28.

836. Stebbing, E. P. 1908. A manual of elementary forest zoology for India. Calcutta. (Publ. unknown):(pp. unknown).
837. Stebbing, E. P. 1914. Indian forest insects of economic importance. Coleoptera. (Publ. unknown). London. 648pp.
838. Stedman, J. M. 1894. A new disease of cotton. Ala. Agr. Exp. Sta., April, No.55, 12 pp.
839. Stedman, J. M. 1895. Insects injurious to stored grain. Alabama Agr. Exp. Sta. Bull. 61:34-60.
840. Steinhaus, E. A. 1946. Insect microbiology. Comstock Publ. Co., Inc., Ithaca, N. Y. 763 pp.
841. Stephens, J. F. 1830. Illustrations of British Entomology. 3:1-374. (The genus Carpophilus originated in this publication.) (Original description of C. pusillus.)
842. Stickney, F. 1924. Date palm insects. Rep. 1st Date Growers' Inst., Coachella. 1924:16-7.
843. Stickney, F. S., D. F. Barnes, and P. Simmons. 1950. Date palm insects in the United State. U.S. Dep. Agr. Circ. 846. 57 pp.
844. Stierlin, 1900. Kaferf. Schweiz. 1:523.
845. Strand, A. 1961. A Norwegian discovery of Carpophilus marginellus Motsch. (Col., Nitidulidae). Norsk Entomol. Tidsskr. 11(5/6):248-9.
846. Strauch, A. 1861. Catalogue systematique de tous les Coleopteres. H. W. Schmidt, Libraire-Editeur, Halle. 628 pp.
847. Stride, G. O. 1953. On the nutrition of Carpophilus hemipterus L. (Coleoptera: Nitidulidae). Trans. R. Entomol. Soc. London. 104(6):171-96.
848. Strong, L. A. 1935. Report of the Chief of the Bureau of Entomology and Plant Quarantine. Washington, D. C., U. S. Dep. Agr. Rep. Entomol. 96pp.
849. Strong, R. G., and G. T. Okumura. 1958. Insects and mites associated with stored foods and seeds in California. Bull. Dep. Agr. Calif. 47(3):233-49.
850. Strumpel, H. 1969. Die tierischen Schadlinge der Dattelpalme Phoenix dactylifera L. und ihrer Fruchte in Nordafrika. Z. Angew. Entomol. 64(3):232-40.
851. Stuckey, H. P. 1947. Fumigation of the corn sap beetle. Ga. Exp. Sta. Annu. Rep. 59:92.
852. Sturm, J. 1839. Deutschlands Fauna Insecten 14:102.

853. Sturm, J. 1844. Deutschlands fauna 14:39.
854. Sturm, J. 1844. Deutschlands fauna 15:36.
855. Subba Rao, B. R. 1972. On Zeteticontus Silvestri, with descriptions of three new species (Hymenoptera, Encyrtidae). Entomophaga 17(2):179-95.
856. Summers, S. V. 1875. List of Coleoptera of St. Louis County, Missouri. Can. Entomol. 6(3):52-5.
857. Swan, L. A., and C. S. Papp. 1972. Common insects of North America. Harper and Rowe, New York, 750 pp.
858. Swezey, O. H. 1933. Summary of insect conditions in Hawaii for 1932. U. S. Dep. Agr. Insect Pest Surv. Bull. 12:429-31.
859. Swezey, O. H. 1942. B. P. Bishop Mus. Bull. 172:155.
860. Takahashi, R. 1937. Kurze Uebersicht der gegenwertigen Kenntnisse uber die Vorratsschadlinge auf der Insel Formosa. Mitt. Ges. Vorratsschutz. 13(1):4-6.
861. Tamaki, G., L. Fox, and P. Featherston. 1982. Laboratory biology of the dusky sap beetle and field interaction with the corn earworm on ears of sweet corn. J. Entomol. Soc. British Columbia. (In Press).
862. Tan, K. M., Y. C. Wee, and W. S. Chong. 1969. Bionomics of Carpophilus foveicollis Murr. in pineapple. Malaysian Agr. J. 47(1):4-13.
863. Tanada, Y. 1948. Susceptibility of white, processed, and whole rice to insect infestation. Hawaii. Agr. Exp. Sta. Rep. pp.75-6.
864. Tanada, Y. 1950. Hawaii. Tech. Bull. 10:37-9.
865. Taniguchi, G. 1977. Report on the biological and ecological studies of Zeteticontus sp. (Hymenoptera: Encyrtidae). Hawaii Dep. Agr (Mimeo). 6 pp.
866. Tanner, V. M. 1928. The Coleoptera of Zion National Park, Utah. Ann. Entomol. Soc. Amer. 21:269-80.
867. Tate, K. G. 1973. Nitidulid beetles as vectors of Monilinia fructicola (Wint) Honey in California stone fruits. Ph.D. Thesis. Univ. Calif. Davis. 53pp.
868. Tate, K. G., and J. M. Ogawa. 1975. Nitidulid beetles as vectors of Monilinia fructicola in California stone fruits. Phytopathol. 65:977-83.

869. Tawfik, M. F. S., M. T. Kira, and S. M. I. Metwally. 1974. On the abundance of major pests and their associated predators in corn plantations. Bull. Soc. Entomol. Egypte. 58:167-77.
870. Taylor, T. A. 1971. On the flight activity of Sitophilus zeamais Motsch. (Coleoptera, Curculionidae) and some other grain-infesting beetles in the field and in store. J. of Stored Prod. Res. 6(4):295-306.
871. Teisseire, M. 1961. Les ennemis du palmier-dattier et de la datte; mesures a prendre pour les combattre. Pages 47-58. In Journees de la Datte, 3-4 mai 1961 Algerie, Direct. Dep. Serv. Agr. Aures.
872. Tenenbaum, S. 1915. Faune coleopterologique de iles Baleares. Warszawa. pp.150.
873. Thompson, C. G. 1862. Skandinaviens Coleoptera. (Publ. unknown). 4:1-269.
874. Thrasher, J. J., and O. L. Kurtz. 1957. Identification of stored products insects by the micromorphology of the exoskeleton. IV. Adult legs. J. Ass. Off. Agr. Chem. 40(3):973-91.
875. Thunberg, C. P. 1794. Diss. Entomol. sistens Ins. Suecica, Upsala. 5:70. (Original description of C. quadriguttatus.)
876. Tinkham, E. R. 1954. The longevity of soil larvacides with special reference to dried fruit beetle control. Proc. Calif. Fig Inst. 8:28-32.
877. Tinkham, E. R. 1954. The control of date beetles by eye gnat larvacides. Rep. Date Growers' Inst. 31:12-3.
878. Torc'h, J. M. Le. 1977. Le froid: moyen de protection contre les ravageurs des denrees stockees. Essais de laboratoire sur les insectes des pruneaux. Rev. Zool. Agr. Pathol. Vegetale. 76(4):109-17.
879. Townsend, C. H. T. 1885. A list of Coleoptera collected in Louisiana on or south of parallel 30°. Can. Entomol. 17:66-73.
880. Townsend, C. H. 1895. On the Coleoptera of New Mexico and Arizona, including biologic and other notes. Canadian Entomol. 27:39-51.
881. Tsvetkov, D. 1970. (The dried fruit beetle).(in Bulgarian). Rastitelna Zashita 18(8):18-9.
882. Ulke, H. 1903. List of beetles of District of Columbia. Proc. U.S. Nat. Mus. 25:1-57.
883. USDA. 1907. The principal injurious insects of the year 1907. Pages 541-552 in Yearbook of the U. S. Dep. Agr.

884. USDA. 1952. Insects-Yearbook of Agriculture-1952. U.S. Govt. Print Office, Washington. 780pp.
885. USDA. 1957. Coop. Econ. Insect Rep. 7(29):569, (30):601.
886. USDA. 1958. Coop. Econ. Insect Rep. 8(18):352, (20):399, (35):764.
887. USDA, 1959. Coop. Econ. Insect Rep. 9(11):175, (28):620, (29):643, (33):746.
888. USDA. 1960. Coop. Econ. Insect Rep. 10(17):320, (31):701, (33):758.
889. USDA. 1961. Coop. Econ. Insect Rep. 11(13):255, (29):654, (31):714, (33):773.
890. USDA. 1962. Coop. Econ. Insect Rep. 12(9):127, (12):272, (18):434, (29):788.
891. USDA. 1963. Coop. Econ. Insect Rep. 13(16):416-7, (24):660, (25):694, (29):840, (30):847, 872, (32):906, (33):943, (35):1015, (40):1208.
892. USDA, 1964. Coop. Econ. Insect Rep. 14(14):299, (17):381, (201):485, (28):780, (29):789, (31):866, (32):906, (39):1112.
893. USDA. 1965. Stored-grain pests. Farmer's Bull. 1260. 46 pp.
894. USDA. 1965. Coop. Econ. Insect Rep. 15(10):164, (18):415, (29):779, (30):813, (31):851, (32):887, 907, (33):923, (34):958-9, (38):1092, (42):1183.
895. USDA. 1966. Coop. Econ. Insect Rep. 16(7):112, (30):721-22, (32):773, (33):812, (35):865, (51):1151.
896. USDA. 1967. Coop. Econ. Insect Rep. 17(9):141, (31):696, 699.
897. USDA. 1968. Coop. Econ. Insect Rep. 18(35):833.
898. USDA. 1971. Coop. Econ. Insect Rep. 21(11):152.
899. USDA. 1973. Coop. Econ. Insect Rep. 23(31):507.
900. USDA. 1974. Coop. Econ. Insect Rep. 24(12):151.
901. USDA. 1978. Stored-grain insects. Agr. Res. Serv. Agr. Handbook 500. 57 pp.
902. USDA. 1982. Guidelines for the control of insect and mite pests of foods, fibers, feeds, ornamentals, livestock, and households. U.S. Dep. Agr., Agr. Handbook 584. 734pp.
903. Valasco, 1955. (see Amos 1965. Reference not given).

904. Van Dame, H. C., G. L. Reed, and P. T. Ikari. 1958. Identification of stored products insects by the micromorphology of the exoskeleton. IX. Head, thorax, and abdomen. J. Ass. Off. Agr. Chem. 41(4):828-86.
905. Vernalha, M. M. 1953. Coleopteros que atacam cereais armazenados. Bol. Inst. Biol. Pesqs. Tecnol., Parana, Brazil. 24:1-47.
906. Vernalha, M. M., S. G. Soares, M. A. Loyola da Rocha, and J. C. Gabarbo. 1966. O expurgo. Governo do Estado do Parana. Instituto de Biologia e Pesquisas Technologicas. Bol. No.43. (pp. unknown).
907. Vincent, L. E., and D. L. Lindgren. 1950. Progress report on control of date insects and the date mite. Rep. Date Growers' Inst. 27:3-7.
908. Vincent, L. E., and D. L. Lindgren. 1954. Malathion dust for control of nitidulid beetles and pyralid moths infesting Deglet Noor and Khadrawi dates in the Coachella Valley. Rep. Date Growers' Inst. 31:28.
909. Vincent, L. E., and D. L. Lindgren. 1956. Progress report on control of date insects. Rep. Date Growers' Inst. 33:3-4.
910. Vincent, L. E., and D. L. Lindgren. 1971. Fumigation of dried fruit insects with hydrogen phosphide and ethyl formate. Rep. Date Growers' Inst. 48:4-5.
911. Vincent, L. E., and D. L. Lindgren. 1972. The use of Malathion for the control of date insects. Rep. Date Growers' Inst. 49:9.
912. Vincent, L. E., and D. L. Lindgren. 1972. Hydrogen phosphide and ethyl formate: fumigation of insects infesting dates and other dried fruits. J. Econ. Entomol. 65(6):1667-9.
913. Vogt, G. B. 1950. Occurrence and records of Nitidulidae. Coleopt. Bull. 4(6):81-91.
914. Vogt, G. B. 1951. Occurrence and records of Nitidulidae. Coleopt. Bull. 5(1):4-11.
915. Wade, J. S. 1935. A contribution to a bibliography of the described immature stages of North American Coleoptera. Cereal Forage Insect Invest. Bur. Entomol. Plant Quar. U.S. Dep. Agr. Wash. D. C. :(pp. unknown).
916. Waiyaki, J. N. 1972. Ecology of Eldana saccharina Walker and loss of sugar cane yield at Arusha-Chini, Moshi, Tanzania. Proc. 1971 Congress Int. Soc. Sugar Cane Technol. 14:457-62.

917. Walkden, H. H., and H. D. Nelson. 1959. Evaluation of synergized pyrethrum for the protection of stored wheat and shelled corn from insect attack. U.S. Dep. Agr. Marketing Serv. Res. Rep. 322:1-48.
918. Walker, F. 1858. Characters of some apparently undescribed Ceylon insects. Ann. Mag. Nat. Hist. 2(3):202-9. (Original description of C. contingens.)
919. Walker, J. J. 1920. Fifth supplement to the preliminary list of the Coleoptera of the Oxford District. Rep. Proc. Ashmol. Nat. Hist. Soc. pp.23-31.
920. Walker, and Mitchell. 1944. Date Growers' Inst. Rep. 21:4-5.
921. Warner, R. M. 1948. Dried fruit beetle control experiments. Calif. Fig Inst. p.1.
922. Warner, R. M. 1949. Orchard experiments against the dried fruit beetle. Proc. Calif. Fig Inst. 3:24-5.
923. Warner, R. M. 1951. Proc. Calif. Fig Inst. pp.15-6,42-3.
924. Warner, R. M., and G.B. Wheeler. 1952. Dried fruit beetle control by soil treatments. Proc. Calif. Fig Inst. 6:10-2.
925. Warner, R. M. 1953. Dried fruit beetle control through soil treatment. Proc. Calif. Fig Inst. pp.21.
926. Warner, R. M., and D. A. Kemmer. 1954. Summary of 1953 malathion field experiments on figs. Proc. Calif. Fig Inst. pp.36-7.
927. Warner, R. M. 1959. Life cycle data for important fig insects. Proc. Calif. Fig Inst. pp.43-53.
928. Warner, R. M. 1960. Area baiting to control Drosophila and nitidulid beetles. Proc. Calif. Fig. Inst. 14:35-8.
929. Warner, R. M. 1960. Bait cans control Drosophila. Western Fruit Grower. 14:19-20.
930. Warner, R. M. 1961. Area baiting program 1960 results. Proc. Calif. Fig Inst. pp.36-40.
931. Watrous, L. E. 1980. Morphology, reclassification and phylogeny of the genus Colopterus (Coleoptera: Nitidulidae). Ph.D. Thesis. Ohio St. Univ. 551pp.
932. Watson, J. R. 1919. Florida truck and garden insects. Fl. Agr. Exp. Sta. 151: 1-211.
933. Watson, J. R., and A. N. Tissot. 1942. Insects and other pests of Florida vegetables. Fla. Agr. Exp. Sta. 370:1-118.

934. Watters, F. L. 1968. An appraisal of gamma radiation for insect control in cereal foods. *Manitoba Entomol.* 2:37-45.
935. Weber, R. G., and W. A. Conell. 1971. Stelidota geminata (Say): Studies of its biology (Coleoptera: Nitidulidae). *Ann. Entomol. Soc. Amer.* 68(4):649-53.
936. Webster, F. M. 1890. Entomological notes. *Ind. Agr. Exp. Sta. Bull.* 33:36-45.
937. Weed, H. E. 1891. Insects injurious to stored grain. *Bull. Miss. Agr. Exp. Sta.* 17:1-16.
938. Weidner, H. 1965. Die Bedeutung der Schädlinge in Lebensmittelimporten für die Lagerhaltung im Binnenland. *Z. Angew. Zool.* 52(4):491-505.
939. Weidner, H. 1967. Thaneroclerus buqueti (Lefebvre) und Necrobia rufipes (De Geer) als Schädlinge an Textilien aus Hongkong. *Anz. Schadlingsk.* 40(6):81-3.
940. Weiss, H. B., and E. West. 1922. Notes on fungous insects. *Can. Entomol.* 54:198-9.
941. Weiss, M. J., and R. N. Williams. 1980. Some host-parasite relationships of Microctonus nitidulidis and Stelidota geminata. *Ann. Entomol. Soc. Amer.* 73(3):323-6.
942. Werner, F. G. 1959. Carpophilus longiventris in saguaro blossoms (Coleoptera: Nitidulidae). *Psyche.* 66(3):35-6.
943. Westcott, C. 1972. The gardener's bug book. Doubleday, New York. 689 pp.
944. Westwood, J. O. 1840. An introduction to the modern classification of insects. Vol. 2. Longman, Orme, Brown, Green, and Longmans, London. 158 pp.
945. Wheeler, G. B. 1953. Molds and souring in relation to infestation. *Proc. Calif. Fig Inst.* pp.26-9.
946. Whitlaw, J. T., W. G. Phillips, and L. P. Ditman. 1959. Observation on commercial application of insecticide for control of sap beetles on sweet corn. *J. Econ. Entomol.* 52: 640-2.
947. Whitney, L. A. 1927. Report of the associate plant inspector. *Hawaii. For. Agr.* 24:145-50.
948. Wickham, H. F. 1894. Descriptions of the larvae Tritoma, Carpophilus and Cyllodes. *Entomol. News* 5:260-3.
949. Wickham, H. F. 1911. List of Coleoptera of Iowa. *Bull. Lab. Nat. Hist. Univ. Iowa*, 6:1-40.

950. Wildman, J. D. 1933. Notes on the use of microorganisms for the production of odors attractive to the dried - fruit beetle. J. Econ. Entomol. 26:516-7.
951. Willcocks, F. C. 1922. A survey of the more important economic insects and mites of Egypt, with notes on life-history, habits, natural enemies and suggestions for control. Bull. Agr. Soc. Cairo 1:1-483.
952. Williams, F. X. 1931. The insects and other invertebrates in Hawaiian sugar cane fields. Hawaii. Sugar Planter's Assoc. Handbook, Honolulu. 400 pp.
953. Williams, F. X. 1937. Proc. Hawaii. Entomol. Soc. 9:377.
954. Williams, R. N. 1966. Ecology of the maize weevil, Sitophilus zeamais Motschulsky, relative to flight habits, attraction to sunflowers, and hymenopterous parasites. Ph.D. Thesis. La. St. Univ., Baton Rouge. 103 pp.
955. Willson, R. 1976. Nitidulid beetle flight activity correlation with some meteorological factors. Fresno, Calif., M.A. Thesis, Calif. St. Univ., Fresno. (pp. unknown).
956. Wilmhurst, 1920. Ad. Rept. Agr. Directorate (Mesopotamia) 1919. pp.39-41.
957. Winkle, A. 1927. Catalogus Coleopterorum regionis Palearcticae, Wien. 7:690-708.
958. Wolcott, G. W. 1948. The insects of Puerto Rico. Nitidulidae. J. Agr. Univ. Puerto Rico 32(2):295-7.
959. Wollaston, T. V. 1854. Insecta Maderensia; being an account of the insects of the islands of the Madeiran group. (Publ. unknown). London. 634 pp. (Original description of C. auropilosus.)
960. Wollaston, T. V. 1857. Cat. of Coleopt. of Madeira, London. p.38.
961. Wollaston, T. V. 1864. Catalogue of the Coleopterous insects of the Canaries in the collection of the British Museum, London, 648 pp.
962. Wollaston, T. V. 1865. Coleoptera atlantidum, being an enumeration of the coleopterous insects of the Madeiras, Salvages, and Canaries: J. V. Voorst. London. 140pp. (Original description of C. tersus.)
963. Wollaston, T. V. 1867. Coleoptera Hesperidum, being an enumeration of the coleopterous insects of the Cape Verde Archipelago, London. 285pp.

964. Wollaston, T. V. 1877. Coleoptera of St. Helena (Publ. unknown). p.39.
965. Woodroffe, G. E. 1969. Carpophilus marginellus Motsch. (Col., Nitidulidae) out-of-doors in Berkshire (England) Entomol. Mon. Mag. 105:192.
966. Yang, Chio-ching. 1934. Some preliminary notes on stored grain insects of Sioshan, Chekiang, May 1934 (in Chinese) Entomol. and Phytopathol. 2(21):416-21.
967. Yaseen, M. 1976. Investigations on the natural enemies of nitidulids in Trinidad, Belonuchus rufipennis (Fab.) (Coleoptera: Staphylinidae). Commonw. Inst. Bio. Con. Trinidad. 4 pp. (Mimeo)
968. Yaseen, M. 1976. Project 2. Biological control of Carpophilus spp. In Report of work carried out during 1976. Common. Inst. Bio. Con. Commonw. Agr. Bureaux. 108pp.
969. Yerington, A. P., and R. M. Warner. 1961. Experiments to control Drosophila and dried fruit beetles in fruit dumps. Proc. Calif. Fig Inst. 15:27-30.
970. Yerington, A. P. 1967. Insects attracted to argon light traps in Calif. wineries. Calif. Vector Views 14(8):52-4.
971. Yerington, A. P. 1969. Insecticidal control of vinegar flies and dried fruit beetles in cull fruit dumps. Calif. Vector Views 16(8):79-82.
972. Yerington, A. P. 1971. Evaluation of pyrethrins thermal aerosols for control of vinegar flies and dried fruit beetles in wine cellars. J. Econ. Entomol. 64(4):986.
973. Yero, R. J. 1957. The biology and control of Carpophilus in sweet corn. Proc. N. Cent. Br. Entomol. Soc. Amer. 12: 46-7.
974. Zaazou, H., A. El Deeb, S. M. Hammad, and E. A. El-Kady. 1960. The dried-fruit beetle: Carpophilus hemipterus L. (Col.:Nitidulidae) and its occurrence in Egyptian onions from March, 1953 until April, 1954. Alexandria J. Agr. Res. 8(2):105-24.
975. Zacher, F. 1926. Schadlinge in Rohkakao, Schokolade, Marzipan und ahnlichen Erzeugnissen. Verh. Deutsch. Ges. Angew. Entomol. 5:68-9. (Mitgliederves. 1925)
976. Zacher, F. 1927. Die Vorrats - Speicher und Materialschadlinge und ihre Bekampfung. (Publ. unknown). Berlin, 366 pp.
977. Zacher, F. 1929. Ein neuer Schadling des Backobstes, Carpophilus hemipterus und andere Saftkafer als Vorratsschadlinge. Mitt. d. Ges. f. Vorratsschutz. 5:2-5.

978. Zacher, F. 1940. Die Fauna der Muhlen und Speicher in Aegypten. Int. Congr. Entomol. (1935) 6:353-68.
979. Zeck, E. H. 1943. Pests of dried fruit. Agr. Gaz. New S. Wales 54(2):67-71.
980. Zimmerman, E. C. 1939. Identification tables for the introduced Hawaiian Nitidulidae (Coleoptera). Proc. Hawaii. Entomol. Soc. 10(2):331-3.
981. Zimmerman, H. G. 1974. Preliminary work on the biological control of satans bos (Solanum eleagnifolium). National Programme for Environmental Sciences; Terrestrial Biology; papers presented at the First National Weeds Conference, Pretoria, S. Africa:151-68.
982. Zwaluwenburg, R. H. 1918. Report Porto Rico Agr. Exp. Sta. 1917. pp.31-4.

ADDENDUM

983. Burbutis, P. P., and E. L. Wisk. 1976. Exclusion as a means of managing insects in vegetable gardens. Trans Peninsula Hort. Soc. (Del. St. Board Agr. Bull.). 62:5-9.
984. Connell, W. A. 1984. Nearctic Nitidulidae - synonymy and additions since Parsons' revisions. Coleopt. Bull. (In press.)
985. Fisher, C. D. 1945. Controlling storage insects by fumigation. Food Industries 17:102-104.
986. Gallardo-Covas, F., and R. Ingles-Casanova. 1983. Insecticide evaluation for the control of Carpophilus humeralis F. in pineapple fields of Puerto Rico. J. Agr. Univ. Puerto Rico 67(2):174-5.
987. Gillogly, L. R. 1969. Nitidulidae (Col.) collected by the Noona Dan expedition in the Philippine and Bismarch Islands. Entomol. Medd. 37:207-24.
988. Grant, V., and K. A. Grant. 1979. Pollination of Echinocereus fasciculatus and Ferrocactus wisligenii. Plant Systematics Evolution. 132:85-90.
989. Grant, V., K. A. Grant, and P. D. Hurd. 1979. Pollination of Opuntia lindheimeri and related species. Plant Systematics Evolution. 132:313-20.
990. Grant, V., and P. D. Hurd. 1979. Pollination of southwestern Opuntias. Plant Systematics Evolution. 133:15-28.

991. Grouvelle, A. 1903. Voyage De M. Maurice Maindron Dans L'inde Meridionale (Coleopteres: Clavicornes). Ann. Soc. Entomol. Fr. 72:340-347.
992. Grouvelle, A. 1908. Coleopteres clavicornes de l'Afrique Australe et Orientale. Rev. Entomol. (France) 27:127-206. (Original description of: C. bistigma, constrictus, and opacus.)
993. Grouvelle, A. 1908. Coleopteres recoltés dans l'Afrique Orientale Allemande par le Dr. F. Eichelbaum (1903). Rev. Entomol. (France) 27:97-126. (Original description of C. extensus.)
994. Herausgeber, V. 1882. Neue Coleopteren-Arten und- Varietaten. Nunquam Otiosus. 3:552-60. p. 560 Lists C. quadripustulatus as a synonym of C. bipustulatus Heer.
995. Husband, R. W., and T. M. Brown. 1976. Insects associated with Michigan bumble bees (Bombus sp.). Great Lakes Entomol. 9:57-62.
996. Kirejtshuk, A. G. 1982. Systematic position of the genus Calonecrus J. Thomson and notes on the phylogeny of the family Nitidulidae (Coleoptera). Rev. Entomol. (URSS) 61(1):117-29.
997. Lea, A. M. 1912. Australian and Tasmanian Coleoptera inhabiting or resorting to the nests of ants, bees and termites. Proc. Roy. Soc. Victoria. 25(1):31-78.
998. Letzner, K. 1882. Jahresb. Schles. Ges. 109:345-7.
999. Olliff, A. S. 1883. Remarks on a small collection of clavicorn Coleoptera from Borneo, with descriptions of new species. Trans. Entomol. Soc., London. pp. 173-86.
1000. Olufade, A. O. 1974. A review of insect pests of maize and their control in Nigeria. Nigerian J. Entomol. 1(1):57-62.

SUBJECT INDEX

The following index is designed to pick out the references pertaining to a given species or topic. The index covers citations in the main body as well as those in the Addendum at the end. Entries are listed in alphabetical order according to the following scheme:

Attractants, Biology, Control, Disease transmission, Faunal lists, Host crops, Natural enemies, Species, Taxonomy, and Textbook

ATTRACTANTS

Artificial attractants (chemicals, light):

002, 225, 445, 627, 821

Natural attractants (decomposing fruits, fungus, etc.):

028, 167, 225, 301, 317, 322, 365, 373, 457, 510, 587, 627, 639, 640, 641, 642, 643, 644, 764, 785, 807, 808, 838, 845, 928, 929, 930, 940, 950

Pollination (attraction to flowers):

307, 312, 336

BIOLOGY

Behavior:

011, 013, 014, 015, 016, 017, 018, 019, 020, 022, 056, 057, 059, 060, 062, 124, 181, 324, 639, 642, 643, 644, 821, 870, 955, 970

Diet:

366, 367, 801, 847

General Biology:

056, 061, 062, 128, 151, 188, 228, 236, 237, 241, 256, 264, 305, 310, 316, 321, 362, 366, 455, 509, 531, 546, 548, 552, 565, 580, 581, 590, 610, 612, 636, 644, 660, 699, 743, 752, 758, 763, 774, 800, 837, 839, 843, 861, 862, 881, 927, 935, 952, 956, 973, 982

Genetics:

012

Habitat:

023, 031, 077, 286, 306, 583

Rearing:

315, 910

CONTROL

Chemical:

001, 002, 003, 005, 021, 028, 036, 054, 058, 061, 103, 110, 118,
128, 134, 135, 150, 153, 172, 184, 186, 187, 200, 203, 228, 238,
239, 242, 243, 249, 258, 287, 310, 317, 322, 333, 369, 384, 385,
386, 387, 388, 389, 390, 391, 392, 395, 410, 429, 455, 466, 467,
468, 496, 497, 517, 547, 548, 549, 552, 556, 570, 590, 628, 629,
644, 645, 687, 688, 700, 707, 710, 724, 748, 749, 750, 751, 752,
762, 784, 798, 810, 820, 821, 822, 824, 831, 832, 851, 876, 877,
907, 908, 909, 910, 911, 912, 921, 922, 924, 925, 926, 928, 929,
969, 971, 972, 973, 985, 1000

Non Chemical:

093, 102, 109, 196, 197, 232, 235, 256, 297, 530, 590, 638, 848,
850, 878, 902, 979

Cultural:

063

Radiation:

611, 663, 934

DISEASE TRANSMISSION

Disease Transmission by Carpophilus:

026, 029, 033, 042, 073, 091, 092, 119, 120, 121, 132, 136, 148,
149, 181, 190, 206, 220, 221, 260, 307, 310, 328, 329, 374, 380,
383, 411, 426, 454, 507, 508, 585, 586, 597, 602, 603, 611, 646,
648, 673, 686, 802, 815, 817, 833, 840, 867, 868, 945

FAUNAL LISTS

Faunal Lists of Specific Areas:

035, 040, 045, 047, 064, 067, 068, 074, 078, 080, 081, 082, 083,
088, 106, 107, 108, 129, 133, 137, 144, 147, 176, 234, 292, 293,
302, 309, 323, 326, 340, 341, 343, 371, 375b, 376, 382, 452, 566,
567, 568, 573, 578, 580, 818, 957, 986

HOST CROPS

Apple:

031

Banana:

143, 446, 648

Cacao:

002, 003, 096, 097, 169, 322, 333, 649, 668, 749, 750,
794, 975

Cactus:

070, 155, 215, 259, 261, 277, 335, 336, 635, 866, 880

Citrus:

031, 057, 089, 162, 192, 198, 328, 329, 368, 706

Copra:

160, 163, 165, 166, 167, 168, 532, 667, 708

Corn (maize):

007, 010, 053, 114, 139, 140, 150, 156, 157, 182, 185,
186, 187, 189, 192, 203, 204, 205, 214, 230, 261, 324,
331, 362, 377, 378, 384, 385, 386, 387, 388, 389, 390
391, 392, 395, 482, 483, 498, 504, 517, 558, 599, 604
709, 710, 717, 723, 724, 746, 762, 763, 861, 869, 870
885, 887, 888, 889, 890, 891, 892, 894, 895, 896, 897
898, 899, 900, 932, 933, 936, 940, 946, 973

Date:

001, 008, 048, 054, 061, 062, 090, 091, 092, 093, 094,
110, 116, 117, 118, 127, 128, 184, 217, 235, 242, 261,
372, 466, 467, 468, 469, 498, 545, 546, 548, 549, 576,
577, 609, 631, 714, 810, 842, 843, 850, 877, 909, 911,
912, 919

Dried Fruit:

034, 084, 103, 149, 179, 210, 218, 219, 229,
258, 261, 295, 297, 299, 360, 434, 487, 499,
530, 592, 613, 651, 712, 757, 771, 798, 799,
902, 912

Fig:

026, 036, 046, 054, 056, 058, 077, 102, 119, 120, 121,
148, 149, 172, 190, 194, 200, 219, 228, 232, 249, 285,
287, 316, 317, 365, 367, 373, 374, 421, 443, 472, 475,
507, 596, 597, 598, 639, 640, 641, 642, 643, 644, 645,
664, 686, 687, 688, 700, 706, 746, 745, 751, 785, 796,
805, 806, 807, 808, 809, 815, 817, 821, 823, 824, 831,
835, 848, 876, 921, 924, 925, 926, 927, 928, 930, 945

Grape & Raisin:

032, 059, 060, 071, 072, 073, 113, 304,
383, 475, 554, 628, 823, 832

Minor Hosts:

042, 085, 113, 164, 307, 311, 312, 330, 334,
401, 403, 419, 435, 455, 456, 461, 462, 510,
518, 524, 532, 534, 561, 579, 581, 584, 591,
625, 630, 632, 636, 637, 647, 658, 659, 672, 694,
696, 701, 704, 715, 718, 719, 725, 747, 748, 754,
834, 836, 863, 878, 880, 903, 936, 939, 942, 948,
970, 972, 974, 981

Multiple Hosts:

013, 027, 044, 099, 132, 151, 152, 154, 201,
206, 212, 216, 219, 230, 256, 260, 284, 289,
300, 304, 332, 361, 380, 394, 399, 542, 559,
565, 569, 582, 626, 650, 657, 669, 683, 690,
742, 793, 814, 820, 839, 843, 857, 882, 883,
884, 901, 922, 950, 951, 958, 969, 971, 978

Nuts (Peanuts & Seeds Other than Grasses, Sunflower, etc.):

038, 041, 043, 076, 122, 134, 135, 183, 224, 261, 283,
369, 379, 495, 496, 497, 564, 707, 813, 829, 851, 938

Onion & Garlic:

004, 069, 430

Pineapple:

146, 306, 431, 432, 533, 624, 633, 677, 761, 774, 858, 862

Sour & Decaying Fruit:

259, 277, 521

Stonefruits:

029, 030, 123, 124, 125, 126, 230, 231,
245, 261, 298, 310, 311, 443, 867, 868

Stored Food:

265

Stored Grains:

005, 050, 051, 065, 075, 145, 158, 170, 171,
185, 202, 222, 225, 230, 308, 313, 398, 414,

434, 464, 476, 490, 535, 541, 556, 617, 652,
676, 830, 849, 857, 860, 917, 966, 976

Sugarcane:

006, 033, 034, 136, 673, 675, 711, 858, 916, 952

Yucca:

161, 175, 230, 277

NATURAL ENEMIES

Diseases (which attack the sap beetles):

115, 470, 471, 543, 544

Predators (of sap beetles):

595, 967, 968

Parasites (of sap beetles):

170, 199, 232, 318, 691, 692,
741, 855, 865, 941, 954

Nematodes (of sap beetles):

693, 739, 740

Sap beetles as predators:

088, 114, 142, 188, 294

SPECIES

Species of Carophilus (including synonyms):

acutangulus: 356, 734

abbreviatus: 223, 356, 409, 441, 661, 772, 852

adumbratus: 340, 343, 356, 619

alticola: 040, 081, 083, 356, 787

analis: 345, 356

angustatus: 356, 357, 619

antiquus: 040, 067, 088, 106, 151, 156, 157, 176, 189, 191,
225, 278, 280, 289, 301, 356, 403, 420, 477, 478,
479, 523, 588, 619, 660, 666, 763, 811, 812, 856,
882, 891, 940

apicalis: 040, 356, 512, 619

apicipennis: 045, 275, 356

assimilis: 356, 655

aterrimus: 179, 298, 356, 562

auropilosus: 040, 083, 356, 772, 959, 960, 961, 962

australis: 356, 619

bakewelli: 356, 619

bicolor: 137, 340, 343, 356
bifenestratus: 137, 340, 356, 419, 465, 619, 991
biguttatus Motsch.: 137, 314, 340, 356, 614
biguttatus Gemm. & Har.: 040, 083, 356
biguttatus Klug (non Motsch.): 356, 619
bimaculatus (L.): 040, 131, 356, 501, 551, 606, 770
bimaculatus (Marsh.): 356, 653
bimaculatus (Montr.): 040, 083, 356, 364, 441, 575, 759, 772
binotatus: 045, 356, 619
bipustulatus: 035, 251, 309, 356, 363, 409, 441, 447, 448, 574, 619, 634, 689, 690, 698, 720, 721, 722, 738, 769, 772, 827, 853
bisignatus: 095, 356, 452, 619
bistigma: 356, 992
bosschai: 339, 356
brachypterus: 040, 067, 088, 106, 151, 176, 191, 201, 230, 266, 277, 301, 356, 371, 400, 403, 420, 422, 423, 426, 479, 523, 555, 559, 589, 619, 666, 694, 719, 763, 766, 804, 811, 812, 882, 913, 936, 941, 949
brevipennis Blanch.: 040, 081, 082, 083, 086, 319, 356, 619, 849
brevipennis Germain: 040, 083, 356, 666
cadaverinus: 356, 441
californicus: 040, 356, 394, 666, 767
canescens: 040, 081, 083, 278, 356, 787
canus: 356, 619
carbonatus: 040, 356, 512
castanopterus: 356, 409, 441, 447, 772
caudalis: 040, 176, 356, 512, 513, 619
chalybeus: 356, 416, 574, 619, 738
cingulatoides: 622
cingulatus: 356, 734
comatus: 040, 081, 083, 356, 787
compressus: 081, 083, 356, 619
concolor: 040, 081, 083, 356, 787
confertus: 040, 081, 083, 356, 787
conspicuus: 356
constrictus: 356, 992
contingens: 040, 083, 356, 357, 656, 918
convexiusculus: 562
corticinus: 040, 067, 088, 106, 151, 176, 191, 225, 301, 356, 371, 393, 420, 426, 454, 477, 523, 542, 587, 619, 666, 763, 811, 812, 882, 913
craigheadi: 215, 984
crassicollis: 081, 083, 356, 726
crassus: 040, 081, 083, 356, 787
cribellatus: 040, 082, 356, 614
cribratus: 137, 356, 619
cuneiformis: 356, 619
curvipes: 040, 081, 083, 356, 787
cylindricus: 137, 356, 619
davidsoni: 207, 210, 326, 986
debilis: 343, 356
deceptor: 040, 081, 083, 129, 356, 787

decipiens: 040, 170, 277, 356, 375b, 420, 527, 607, 666, 738,
 768, 771, 772, 977
deflexus: 040, 081, 083, 356, 666, 787
delkeskampii: 045, 396, 418, 419
deplanatus: 095, 356, 619
dilutus (Motsch.): 356, 614
dilutus Murr.: 040, 083, 356, 619
dimidiatus F.: 002, 003, 011, 012, 013, 014, 015, 016, 017, 018,
 019, 020, 022, 026, 035, 038, 040, 041, 042, 043,
 044, 050, 051, 056, 057, 061, 062, 064, 065, 067,
 069, 075, 078, 081, 082, 083, 084, 087, 088, 091,
 092, 093, 096, 099, 106, 109, 115, 116, 117, 122,
 128, 129, 134, 135, 137, 139, 141, 143, 149, 154,
 155, 156, 157, 158, 160, 164, 165, 166, 167, 168,
 169, 170, 171, 185, 191, 192, 202, 210, 211, 212,
 217, 218, 219, 224, 225, 228, 230, 231, 233, 239,
 241, 242, 245, 263, 265, 267, 268, 271, 277, 278,
 280, 281, 283, 289, 309, 313, 322, 323, 324, 326,
 331, 332, 333, 334, 338, 356, 357, 360, 369, 370,
 371, 372, 375b, 377, 378, 394, 396, 399, 400, 401,
 402, 403, 407, 409, 410, 414, 415, 417, 426, 430,
 440, 441, 447, 448, 461, 464, 465, 466, 468, 471,
 477, 478, 480, 495, 496, 497, 504, 509, 518,
 519, 520, 523, 525, 526, 527, 528, 532, 534, 535,
 538, 539, 540, 542, 547, 548, 555, 556, 564, 565,
 567, 569, 571, 574, 582, 583, 589, 594, 605, 607,
 609, 613, 616, 618, 619, 630, 634, 648, 654, 658,
 665, 666, 684, 689, 690, 698, 701, 704, 706, 708, 717,
 724, 736, 738, 742, 746, 747, 748, 749, 750, 772, 786,
 787, 789, 793, 794, 800, 802, 811, 812, 813, 818,
 826, 827, 829, 830, 835, 843, 849, 851, 863, 864,
 870, 879, 882, 892, 893, 894, 895, 901, 903, 905,
 906, 909, 910, 911, 914, 917, 919, 927, 934, 938,
 943, 951, 952, 956, 958, 964, 966, 975, 980
dimidiatus Er.: 250
dimidiatus Heer.: 356, 409
discoideus: 040, 067, 176, 277, 356, 376, 394, 420, 422,
 423, 511, 607, 619, 666, 703
discolor: 340, 343, 356, 619
distinctus: 081, 083, 356, 726
dohrni: 081, 083, 356, 729
dolens: 356, 619
dubitabilis: 137, 343, 356, 451
dufaui: 040, 081, 083, 351, 356, 359, 519
dulcis: 040, 081, 083, 356, 787, 788
elaterinus: 040, 081, 083, 356, 787, 788
epuraeoides: 040, 081, 083, 356, 787, 788
erichsoni: 040, 081, 083, 356, 787, 788
erythrogonus: 137, 344, 356
excellens: 356, 728
extensus: 356, 993
familiaris: 137, 343, 356
feai: 137, 337, 340, 343, 356
ferrugineus: 040, 081, 083, 129, 278, 338, 356, 424, 619,

776, 787
ficus: 356, 441
flavipes: 137, 210, 341, 356, 414, 465, 480, 527, 619, 667,
 742, 836, 991
flexuosus: 356, 405, 441, 662, 671, 772
floralis: 040, 081, 083, 107, 151, 278, 335, 356, 477, 478,
 523, 555, 666, 787, 988, 989
floridanus: 040, 154, 157, 278, 356, 555, 666
freemani: 040, 115, 151, 156, 157, 158, 189, 191, 211,
 212, 233, 316, 366, 396, 419, 426, 471, 477, 479, 493,
 542, 594, 595, 603, 607, 638, 639, 640, 641, 642,
 643, 644, 650, 651, 717, 763, 805, 806, 807, 809,
 819, 820, 821, 826, 827, 867, 868, 938, 941, 984
foveicollis: 040, 045, 082, 114, 159, 340, 343, 356, 357, 528,
 582, 619, 862
frivulus: 326, 327, 356, 419, 619, 987
fulvipes Motsch.: 137, 340, 342, 356, 419, 614, 619
fulvipes Grouv.: 356
fumatus: 005, 045, 095, 155, 156, 157, 158, 210, 212, 320, 324,
 356, 542, 584, 594, 619, 718, 739, 740, 984
funebri: 040, 081, 083, 356, 666, 787
funereus Murr.: 082, 137, 356, 619, 734
funereus Reitt. (non Murr.): 040, 356
fusciceps: 356, 357
fusculus: 356, 614
fusus: 356, 619
gaveni: 213, 311
gentilis: 356, 619
genuinus: 998
grandis: 356, 438, 574, 615, 738
halli: 040, 209, 212
hebetatus: 137, 351, 356
hemipterus L.: 001, 008, 011, 013, 015, 017, 018, 020, 022, 025,
 026, 027, 033, 035, 036, 037, 040, 042, 044, 046,
 054, 055, 056, 057, 058, 059, 060, 061, 062, 063,
 064, 067, 071, 072, 077, 078, 081, 083, 084, 087,
 088, 091, 092, 093, 098, 099, 100, 102, 103, 104,
 106, 115, 116, 117, 119, 120, 121, 123, 124, 125,
 127, 128, 136, 137, 146, 149, 151, 156, 157, 158,
 162, 170, 172, 173, 176, 177, 179, 180, 184, 189, 190
 191, 193, 194, 196, 197, 198, 200, 210, 212, 217, 218,
 219, 221, 225, 228, 232, 233, 235, 236, 237, 239, 241,
 248, 257, 258, 260, 263, 264, 265, 277, 278, 279, 281,
 284, 285, 286, 287, 291, 295, 296, 297, 299, 300, 301,
 303, 304, 307, 309, 310, 312, 315, 316, 317, 318, 322,
 323, 326, 328, 329, 330, 331, 340, 356, 357, 360, 361,
 362, 365, 366, 368, 370, 371, 372, 373, 374, 375b, 381
 394, 396, 399, 400, 408, 409, 410, 414, 415, 417,
 418, 420, 425, 426, 427, 430, 433, 435, 436, 437,
 439, 441, 442, 444, 446, 448, 452, 453, 455, 457,
 458, 462, 465, 466, 468, 469, 470, 471, 473, 474,
 475, 476, 477, 478, 479, 480, 486, 489, 490, 492,
 493, 499, 500, 507, 519, 520, 523, 527, 528, 530, 531,
 538, 539, 540, 542, 543, 548, 550, 551, 553, 555,

556, 559, 560, 565, 566, 568, 570, 574, 576, 577,
 579, 580, 581, 582, 586, 587, 589, 590, 591, 592,
 593, 594, 595, 596, 597, 598, 600, 601, 602, 603, 605,
 607, 610, 612, 617, 618, 624, 628, 629, 633, 634,
 638, 639, 640, 641, 642, 643, 644, 646, 647, 650,
 651, 654, 657, 659, 663, 664, 666, 673, 680, 681, 682,
 683, 684, 686, 687, 688, 689, 690, 698, 699, 700, 705,
 706, 716, 717, 725, 734, 736, 738, 742, 743, 751, 753,
 760, 761, 764, 771, 772, 774, 778, 779, 780, 781, 784,
 786, 787, 789, 791, 792, 793, 794, 796, 798, 800,
 802, 805, 806, 807, 808, 809, 810, 811, 812, 814,
 815, 817, 820, 821, 822, 823, 824, 826, 827, 831,
 832, 837, 840, 842, 843, 844, 847, 848, 849, 854,
 856, 862, 865, 867, 868, 873, 874, 876, 878, 880, 881,
 882, 883, 896, 902, 904, 906, 909, 910, 911, 912,
 913, 915, 920, 922, 923, 924, 925, 926, 927, 930, 939,
 941, 943, 944, 945, 949, 950, 952, 958, 967, 968, 972,
 974, 978, 979, 980, 985, 991
hemipterus F.: 040, 083, 356, 409
hemipterus Lewis: 536
hemipterus Reitt.: 734
heros: 137, 340, 343, 356
heterostomoides: 356, 730
hoffmannseggi: 356, 619
humeralis: 007, 033, 034, 040, 042, 043, 045, 062, 068, 081,
 082, 083, 091, 092, 093, 104, 128, 136, 137, 151,
 156, 157, 158, 159, 163, 170, 189, 195, 210, 217,
 228, 229, 233, 235, 239, 241, 272, 305, 306, 307,
 312, 316, 326, 340, 343, 356, 357, 366, 372, 379,
 396, 406, 414, 426, 428, 429, 431, 432, 452, 453,
 465, 468, 469, 471, 472, 477, 478, 480, 482, 493,
 498, 521, 524, 527, 528, 533, 542, 543, 545, 546,
 548, 555, 556, 565, 568, 574, 594, 595, 619, 624, 631,
 633, 638, 639, 640, 641, 642, 643, 644, 650, 651,
 666, 673, 674, 675, 677, 691, 693, 702, 717, 725,
 756, 761, 764, 774, 789, 800, 805, 806, 819, 820,
 821, 837, 843, 849, 857, 858, 865, 867, 893, 901,
 907, 908, 909, 910, 912, 914, 916, 927, 935, 941,
 947, 952, 958, 974, 976, 980, 986, 991
humerosus: 356, 726, 734
humilis: 040, 081, 083, 356, 787
ignobilis: 040, 082, 278, 356
immaculatus: 035, 210, 356, 409, 414, 448, 557, 574,
 619, 669, 689, 690, 706, 738, 768
immarginatus: 727
inconspicuus: 356, 619, 987
indicus: 418, 419, 453
kolleri: 352, 356
lacertosus: 040, 082, 083, 338, 356, 619, 787
languidus: 081, 083, 356, 619
lepidus: 137, 356, 619
lewisi: 040, 083, 356, 734
ligatus: 137, 356, 619
ligneus: 040, 081, 083, 084, 123, 124, 125, 126, 170, 210, 212,

356, 370, 394, 399, 414, 415, 480, 487, 527, 602,
 618, 619, 634, 742, 757, 787, 827, 878, 977, 984
limbalis: 040, 083, 356, 619
limbipennis: 040, 083, 356, 726
littoralis: 253, 356
longior: 352, 356
longiventris: 040, 081, 083, 129, 278, 356, 635, 666, 787, 942
longus: 040, 278, 356, 666
loriai: 108, 350, 356
lugubris: 040, 081, 083, 101, 150, 151, 153, 156, 157, 158,
 176, 186, 187, 191, 203, 204, 205, 220, 221, 356,
 366, 384, 385, 386, 387, 388, 389, 390, 391, 392,
 394, 426, 477, 478, 482, 483, 508, 517, 542, 558,
 594, 595, 599, 604, 619, 651, 666, 684, 685, 717,
 756, 762, 763, 787, 806, 807, 861, 865, 887, 888,
 890, 891, 892, 894, 895, 896, 897, 898, 899, 900,
 914, 931, 941, 943, 946, 973, 983
luridipennis: 079, 356, 562
luridus: 040, 082, 083, 278, 341, 356, 424, 519, 555, 574,
 619, 772, 776, 856
luteipennis: 040, 081, 083, 356, 726
maculatus: 078, 112, 158, 182, 210, 212, 326, 356, 370, 414,
 480, 594, 619, 786, 789, 980, 987
marginatus: 040, 081, 083, 088, 174, 176, 225, 278, 356, 371,
 394, 420, 456, 523, 666, 744, 787, 811, 812, 882, 913
marginellus: 009, 052, 074, 081, 083, 137, 140, 151, 156, 157,
 158, 189, 210, 212, 290, 326, 340, 341, 356, 394,
 396, 414, 417, 419, 426, 460, 476, 477, 479, 480,
 510, 542, 594, 614, 619, 625, 650, 651, 685, 711,
 717, 734, 826, 845, 965, 984, 987, 991
megalops: 215
melanopterus: 040, 081, 083, 088, 106, 151, 176, 216, 230, 278,
 280, 323, 356, 420, 424, 426, 477, 478, 555, 589,
 619, 787, 914, 666, 684, 776
mexicanus: 040, 081, 083, 129, 356, 726, 787
modiglianii: 343, 356
morio: 356, 619
murrayi: 137, 340, 356
mutabilis: 278, 356, 619
mutilatus: 006, 007, 040, 044, 082, 107, 115, 142, 151, 155, 156,
 157, 158, 176, 188, 210, 211, 232, 233, 235, 278, 281,
 292, 293, 303, 307, 310, 312, 316, 326, 340, 356, 366,
 367, 371, 375b, 394, 396, 399, 409, 419, 420, 426, 440,
 441, 447, 448, 449, 452, 453, 468, 469, 471, 477, 478,
 480, 486, 493, 519, 520, 542, 543, 544, 555, 568, 574,
 582, 594, 634, 636, 638, 639, 640, 641, 642, 643, 644,
 650, 651, 689, 690, 698, 717, 725, 735, 736, 738, 744,
 745, 756, 764, 772, 783, 805, 806, 807, 809, 819, 820,
 823, 826, 827, 838, 865, 867, 868, 912, 941, 959,
 963, 987, 991
mycetophagus: 529
nepos: 081, 083, 356, 619
niger: 040, 067, 069, 088, 106, 174, 176, 181, 201, 210, 225,
 277, 278, 301, 356, 371, 382, 393, 411, 420, 423, 523,

589, 619, 684, 694, 765, 811, 812, 882, 915, 948
nigricans: 343, 356, 987
nigritus: 040, 083, 356, 619
nigrovittatus: 040, 082, 129, 666
nitens: 040, 222, 278, 301, 331, 356, 555, 563, 565, 666, 913, 914
nitidulus: 209, 210
nitidus: 045, 210, 340, 343, 356, 528, 568, 619
notatus: 356, 619, 739, 740
obesus: 137, 356, 619
oblongopunctatus: 137, 348, 356
obscurus MacLeay: 356, 562, 787
obscurus Sharp: 040, 083, 356
obsoletus: 002, 004, 044, 069, 085, 115, 137, 143, 156, 157, 158, 170, 210, 212, 235, 324, 326, 340, 356, 370, 414, 415, 435, 453, 465, 480, 527, 541, 542, 543, 594, 618, 619, 649, 650, 652, 666, 676, 696, 717, 860, 954
obtuscollis: 040, 081, 083, 356, 726, 787
ochraceus: 250
ochropterus: 040, 083, 138, 356, 357, 481, 486, 519, 619
oculatus: 326, 356, 619
opaculus: 343, 356
opacus: 045, 356, 992
ophthalmicus: 040, 081, 083, 215, 356, 619, 787
ornatus Grouv., 1908 (1912): 351, 356
ordinatus: 994
ovatus: 040, 081, 083, 353, 356, 519
pallens Blanch.: 081, 082, 083, 356, 787
pallescens: 356, 619
pallipennis Say: 010, 040, 067, 070, 081, 082, 083, 129, 157, 161, 170, 176, 189, 210, 227, 276, 277, 278, 289, 335, 336, 356, 376, 394, 414, 424, 479, 512, 519, 527, 589, 620, 635, 666, 703, 765, 776, 787, 793, 811, 812, 818, 839, 856, 866, 880, 914, 915, 937, 988, 990
pallipennis Murray/Horn: 356, 420, 426, 619
palmatius: 040, 081, 083, 356, 787
pauculus: 356, 726
piceus: 349, 356
picinus: 040, 082, 095, 356
pictus: 356, 402, 409, 441, 772, 998
piger: 040, 081, 083, 129, 356, 619, 787
pilipennis: 027, 298, 356, 562
pilosellus: 074, 113, 115, 137, 145, 154, 156, 157, 158, 183, 283, 326, 356, 396, 417, 471, 478, 542, 594, 614, 619, 685, 829, 984
plagiatipennis: 137, 356, 614
planatus: 356, 619, 997
pollens Sharp: 040, 083, 086, 356
prodicus: 413
proximus: 081, 083, 350, 356
puberulus: 040, 083, 356, 606
pubescens: 137, 356, 619
punctatissimus: 356, 730, 732, 734
punctatus: 356

puncticeps: 356, 619
punctipennis: 081, 083, 356, 726
punctulatus: 040, 288, 356, 588, 589
purpureipennis: 040, 082, 083, 338, 356, 619
pusillus: 040, 083, 356, 841
pygidialis: 343, 356
quadratus: 356, 441, 654, 772
quadriguttatus: 356, 875
quadripustulatus: 250, 356, 409, 769, 994
quadrisignatus: 394, 409, 418, 441, 448, 449, 574, 619, 634, 733, 772, 825, 827
rickseckeri: 040, 082, 089, 262, 278, 561, 607
robustus: 040, 083, 356, 619
rubescens: 356, 619
rubiginosus: 356, 619
rubripennis: 035, 074, 309, 340, 343, 356, 402, 409, 441, 447, 448, 574, 619, 634, 690, 698, 727, 736, 738, 768, 772, 827
rufangulus: 345, 356
rufitarsis: 040, 081, 083, 356, 619, 787
rufiventris: 040, 356, 666, 767
rufus: 040, 081, 083, 176, 356, 479, 619, 666, 787
sanguineofasciatus: 314, 356
sanguinipennis: 343, 356
sayi: 040, 082, 151, 181, 323, 400, 426, 585, 586, 587, 611, 666, 723, 802, 833, 834, 894, 913
schioedtei: 356, 619, 987
scotti: 356, 357
scutellaris: 356, 486
senex: 040, 081, 083, 129, 356, 619, 787
senilis: 040, 081, 083, 129, 356, 787
sericeus: 137, 614, 619
sexpustulatus: 035, 065, 084, 173, 210, 270, 294, 309, 356, 407, 409, 414, 441, 448, 480, 574, 619, 626, 634, 654, 678, 679, 689, 690, 698, 727, 736, 738, 771, 772, 775, 827, 846
sibiricus: 356, 396, 397, 485, 574, 732, 734, 738
signatus: 137, 351, 356
similaris: 040, 081, 083, 356, 787
sinuatus: 358
sordidus: 083, 252, 356, 601, 619
strigipennis: 040, 082, 356, 614
subplanus: 358
succisus: 040, 081, 083, 210, 338, 356, 619
suturalis: 506
tectus: 137, 356
tempestivus Er.: 040, 081, 083, 138, 278, 280, 356, 420, 440, 477, 519, 619, 666, 914, 958
tempestivus Jacq.-du-Val: 040, 083, 356
tenenbaumi: 755
tenuis: 356, 619, 734, 987
tenuis hana: 622
terminalis: 356
terminatus: 040, 083, 356

tersus: 356, 572, 962
testaceus: 040, 083, 356, 619
teter: 040, 081, 083, 354, 356
titanus: 356, 396, 397, 485, 734
transitans: 040, 081, 083, 356, 787
tristis: 081, 083, 356, 619
triton: 356, 574, 619
truncatus: 356, 491, 520, 589, 619
tumidulus: 045, 345, 356
undulatus: 137, 351, 356
ustulatus: 356, 619
variabilis: 343, 356
variolosus: 356, 619
ventralis: 040, 081, 083, 356, 787
veraepacis: 040, 081, 083, 356, 787
viduatus: 040, 081, 083, 129, 356, 787
vitraci: 040, 081, 083, 347, 356, 519
vittiger: 040, 083, 356, 619, 859
weyersi: 346, 356
xanthopterus: 356, 619
yuccae: 040, 175, 277, 278, 356, 376, 420, 515, 666
zeaphilus: 214
zuni: 040, 130, 356, 666, 803

Carpophilus Species Unknown: 002, 003, 004, 021, 023, 024,
 028, 029, 030, 031, 032, 034, 039, 047, 048, 049, 073,
 076, 080, 090, 094, 105, 110, 111, 115, 118, 132, 133, 144,
 147, 148, 152, 178, 181, 199, 203, 206, 238, 240, 241, 243,
 244, 246, 249, 250, 269, 273, 282, 300, 302, 308, 321, 325,
 355, 383, 395, 404, 412, 421, 434, 442, 445, 450, 456, 463,
 466, 467, 484, 488, 494, 502, 503, 505, 514, 516, 522, 537,
 554, 556, 558, 573, 578, 627, 632, 637, 645, 657, 660, 668,
 670, 692, 695, 697, 707, 709, 710, 712, 713, 714, 715, 731,
 737, 741, 752, 754, 773, 777, 782, 790, 795, 799, 801, 816,
 828, 850, 855, 869, 871, 872, 877, 884, 885, 886, 887, 889,
 892, 894, 896, 929, 932, 933, 953, 969, 970, 971, 981, 982

TAXONOMY

Taxonomy

104, 173, 177, 178, 208, 212, 213, 274, 278, 289, 396, 397, 400,
 412, 415, 420, 438, 474, 493, 514, 516, 550, 552, 651, 666, 684,
 698, 712, 713, 731, 732, 734, 736, 756, 772, 792, 827, 881, 948,
 977, 980

Morphology

208, 325, 370, 400, 408, 415, 436, 437, 465, 473, 482, 492, 528,
 690, 698, 712, 713, 792, 893, 901, 931, 932, 952

Keys (to spp. or to genera)

039, 087, 100, 105, 111, 173, 246, 414, 418, 634, 689, 690

TEXTBOOK

Textbook Type Write-Up of Family

049, 099, 101, 132, 174, 191, 263, 284, 300

This page intentionally blank.

This page intentionally blank.



The Ohio State University

Ohio Agricultural Research and Development Center