

Food Webs of Insects and Their Kin

A Computer Database

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SAMPLE ENTRY

Notes: Plain-text formatting reflects on-screen view. ID numbers are computerized cross-references (precursors of modern-day hyperlinks).

57.41.001 *Ostrinia* [*Pyrausta*] *nubilalis* (Hubner) [the European corn borer]

ENVIRONMENTAL IMPACT ON PLANTS

Chewing on the Shoots of Plants (more than 200 species)

Chewing on the Shoots of Plants (Young larva feeds on leaves/tassel/earstalk.)

Chewing on the Shoots of Plants (Consuming growing tip causes "dead heart.")

Chewing on the Shoots of Plants (Tassels/stems break over, esp. before ears form)

Tunneling within Pithy Stems (including Tubers) or Roots (by older larvae)

Tunneling within Pithy Stems (including Tubers) or Roots (stalks/ears)

Tunneling within Pithy Stems (including Tubers) or Roots (Holes exude sawdust.)

Burrowing within Fruit and/or Seeds (Older larvae may bore into kernels.)

AGRONOMIC CROPS AS FOODS/HOSTS

corn (mostly, especially very early or late)

VEGETABLE CROPS AS FOODS/HOSTS

vegetables (in general)

peppers

sweet corn

tomato

FLOWER/FOLIAGE PLANTS AS FOODS/HOSTS

flower/foilage plants (in general)

WEEDS AS FOODS/HOSTS

weeds (in general)

grasses (in general, often reservoirs of infestations)

VIRUSES AS PATHOGENS

Nuclear Polyhedrosis Virus

Virus? (unspecified)

BACTERIA/RICKETTSIAS/ETC. AS PATHOGENS

Bacillus thuringiensis alesti (spores + endotoxin)
 Bacillus thuringiensis kurstaki (spores + endotoxin)
 Bacillus thuringiensis thuringiensis (spores + endotoxin)
 Bacillus thuringiensis varieties (spores + endotoxin) ?
 Serratia marcescens (red strain)
 unspecified bacterium

FUNGI AS PATHOGENS

Beauveria bassiana
 Cephalosporium sp.
 Metarrhizium anisopliae
 Nomuraea rileyi

PROTOZOANS AS PATHOGENS

Nosema [Glugea] pyraustae
 Perezia pyraustae
 Vairimorpha necatrix

NEMATODES/OTHER WORMS AS PARASITES

Mesiodiplogaster lheritieri
 Neoplectana carpocapsae Weiser
 Neoplectana glaseri
 unspecified nematode

INSECTS AND THEIR KIN AS PARASITES/PREDATORS

(Many parasites were introduced by the U.S. government from 1921 to 1949.)

Agrypon sp. [an ichneumon] 61.25.027
 Amblyteles brevicinctor Say [an ichneumon] 61.25.029
 Amblyteles rubicundus Cress. [an ichneumon] 61.25.029
 Angitia armillata Grav. [an ichneumon] 61.25.034
 Angitia punctoria Roman [an ichneumon] 61.25.034
 Angitia pyraustae Uchida [an ichneumon] 61.25.034
 Apanteles picipes Bche. [a braconid] 61.08.035
 Apanteles ruficrus Hal. [a braconid] 61.08.035
 Apanteles sp. [a braconid] 61.08.035
 Apanteles thompsoni Lyle [a braconid] 61.08.008
 Aplomya caesar Aldr. [a tachinid fly] 59.36.026
 Bassus agilis Cress. [a braconid] 61.08.043
 Brachymeria euploae Westw. [a chalcidid] 61.10.005
 Bracon atricornis Smith [a braconid] 61.08.047
 Campoplex ensator Grav. [an ichneumon] 61.25.053
 Campoplex lugubrinus Hlgr. [an ichneumon] 61.25.053
 Campoplex multicinctus Grav. [an ichneumon] 61.25.053
 Campoplex pyraustae Smith [an ichneumon] 61.25.053
 Campoplex rothi Hlgr. [an ichneumon] 61.25.053
 Campoplex sp. [an ichneumon] 61.25.053
 Ceratomefilla fuscilabris [a lady beetle] 58.14.020
 Ceromasia interrupta Macq. [a tachinid fly] 59.36.049
 Ceromasia juvenilis Girschn. [a tachinid fly] 59.36.049
 Ceromasia lepida Mg. [a tachinid fly] 59.36.049

Ceromasia senilis Mg. [a tachinid fly] 59.36.049
Charops decipiens Grav. [an ichneumon] 61.25.055
Chauliognathus pennsylvanicus (De Geer) [Pennsylvania leatherwing] 58.09.001
Chelonus annulipes Wesm. [the annulated chelonus (braconid)] 61.08.022
Chelonus commuinis Baker [a braconid] 61.08.057
Chelonus inanitus L. [a braconid] 61.08.057
Chelonus sp. [a braconid] 61.08.057
Chrysopidae [green lacewings] 54.03.000
Clemelis pullata Mg. [a tachinid fly] 59.36.056
Coccinellidae [lady beetles] 58.14.000
Colpognathus celerator Grav. [an ichneumon] 61.25.062
Compsilura concinnata Mg. [a tachinid fly] 59.36.002
Crachymeria sp. [a chalcidid] 61.10.007
Cremastus flavoorbitalis Cam. [an ichneumon] 61.25.065
Cremastus hierochonticus Schmied. [an ichneumon] 61.25.065
Cremastus sp. [an ichneumon] 61.25.065
Cryptus sp. [an ichneumon] 61.25.068
Dibrachys cavus Walk. [a pteromalid] 61.35.007
Eugnomus pyraustae Mats. [an ichneumon] 61.25.090
Eulimneria albida Gmel. [an ichneumon] 61.25.091
Eulimneria alkae E. & S. [an ichneumon] 61.25.091
Eulimneria fuscicarpus Thoms. [an ichneumon] 61.25.091
Eulimneria geniculata Grav. [an ichneumon] 61.25.091
Eulimneria pleuralis Thoms. [an ichneumon] 61.25.091
Eulimneria rufifemur Thoms. [an ichneumon] 61.25.091
Eulimneria sp. [an ichneumon] 61.25.091
Eulimneria xanthostoma Grav. [an ichneumon] 61.25.091
Eulophus sp. [a eulophid] 61.19.056
Eulophus viridulus Thoms. [a eulophid] 61.19.005
Exetastes illusor Grav. [an ichneumon] 61.25.095
Exorista civilis Rond. [a tachinid fly] 59.36.090
Exorista noctuarum Rond. [a tachinid fly] 59.36.090
Formicidae [ants] 61.23.000
Glyptomorpha inceptor corsica Marsh. [a braconid] 61.08.081
Hemiptarsenus unguicellus Zett. [a eulophid] 61.19.062
Hippodamia convergens (Guerin-Meneville) [convergent lady beetle] 58.14.001
Hippodamia tredecimpunctata L. [a lady beetle] 58.14.043
Holocremnus sp. [an ichneumon] 61.25.109
Hoplocryptus incertulus Cush. [an ichneumon] 61.25.112
Horogenes punctorius [an ichneumon] 61.25.007
Hygrocryptus carnifex Grav. [an ichneumon] 61.25.113
Labrorychus prismaticus Nort. [an ichneumon] 61.25.127
Labrorychus tenuicornis Grav. [an ichneumon] 61.25.127
Lixophaga variabilis Coq. [a tachinid fly] 59.36.117
Lydella grisescens R.-D. [a tachinid fly] 59.36.118
Lydella thompsoni [a tachinid fly] 59.36.118
Lydella [Ceromasia/Microceromasia] stabulans grisescens [a tachinid] 59.36.010
Macrocentrus abdominalis F. [a braconid] 61.08.093
Macrocentrus gifuensis Ashm. [a braconid] 61.08.093
Macrocentrus grandii Goidanich [a braconid] 61.08.016
Macrocentrus robustus Mues. [a braconid] 61.08.093
Macrocentrus sp. [a braconid] 61.08.093
Megaselia goidanichi Schmitz [a humpbacked fly] 59.48.004
Meteorus deceptor Wesm. [a braconid] 61.08.094
Meteorus loxostegei Vier. [a braconid] 61.08.094
Meteorus nigricollis Thomson [a braconid] 61.08.018

Microbracon brevicornis Wesm. [a braconid] 61.08.099
 Microbracon caulicola Gahan [a braconid] 61.08.099
 Microbracon gelechiai Ashm. [a braconid] 61.08.099
 Microbracon hebetor Say [a braconid] 61.08.099
 Microbracon mellitor Say [a braconid] 61.08.024
 Microbracon sp. [a braconid] 61.08.099
 Microcryptus abominator Grav. [an ichneumon] 61.25.151
 Microgaster sp. [a braconid] 61.08.101
 Microgaster tibialis Nees [a braconid] 61.08.004
 Microgaster zonaria Say [a braconid] 61.08.101
 Mormoniella vitripennis Walk. [a pteromalid] 61.35.067
 Nemorilla floralis Fall. [a tachinid fly] 59.36.138
 Nemorilla floralis maculosa Mg. [a tachinid fly] 59.36.138
 Nemorilla maculosa Mg. [a tachinid fly] 59.36.138
 Phaeogenes eguchii Uch. [an ichneumon] 61.25.171
 Phaeogenes nigridens Wesm. [an ichneumon] 61.25.171
 Phaeogenes planifrons Wesm. [an ichneumon] 61.25.171
 Phaeogenes sp. [an ichneumon] 61.25.171
 Phorocera erecta Coq. [a tachinid fly] 59.36.157
 Phytodietus segmentator Grav. [an ichneumon] 61.25.174
 Pimpla aequalis Prov. [an ichneumon] 61.25.175
 Pimpla conquisitor Say [an ichneumon] 61.25.003
 Pimpla indagatrix Cress. [an ichneumon] 61.25.175
 Pimpla pterophori Ashm. [an ichneumon] 61.25.175
 Pimpla pyraustae Matas. [an ichneumon] 61.25.175
 Pimpla roborator F. [an ichneumon] 61.25.175
 Pimpla tecumseh Vier. [an ichneumon] 61.25.175
 Pristomerus vulnerator Panz. [an ichneumon] 61.25.184
 Pseudoperichaeta insidiosa R.D. [a tachinid fly] 59.36.165
 Pyraustomyia penitalis Coq. [a tachinid fly] 59.36.168
 Rogas testaceus Spin. [a braconid] 61.08.126
 Sagaritis provancheri D.T. [an ichneumon] 61.25.192
 Sympiesis viridula [a eulophid (chalcid)] 61.19.012
 Tachinidae [tachinid flies] 59.36.000
 Tetranychidae [spider mites] 12.25.000
 Theronia atalantae Poda [an ichneumon] 61.25.016
 Triaspis pallidipes Nees [a braconid] 61.08.133
 Trichogramma evanescens Westw. [a trichogrammatid] 61.44.002
 Trichogramma minutum Riley [a trichogrammatid] 61.44.001
 Trichogramma sp. [a trichogrammatid] 61.44.012
 Trichogrammatidae [trichogrammatids (chalcids)] 61.44.000
 Trichomma cnaphalocrocis Uch. [an ichneumon] 61.25.210
 Winthemia quadripustulata (Fabricius) [the redtailed tachinid] 59.36.001
 Xanthopimpla modesta Smith [an ichneumon] 61.25.216
 Xanthopimpla punctata F. [an ichneumon] 61.25.216
 Xanthopimpla stemmator Thnbg. [an ichneumon] 61.25.216
 Zenillia futilis O.S. [a tachinid fly] 59.36.205
 Zenillia mitis Mg. [a tachinid fly] 59.36.205
 Zenillia ochracea Wulp [a tachinid fly] 59.36.205
 Zenillia sp. [a tachinid fly] 59.36.205
 Zenillia tritaeniata Rond. [a tachinid fly] 59.36.205

BIRDS AS PREDATORS

(Birds prey on overwintering larvae.)
 downy woodpecker

redwinged blackbird

MAMMALS AS PREDATORS

bats (Recordings of hunting bats are reportedly repellent to the adult moths.)
cattle (feeding on cornstalks in the fall or early spring)].