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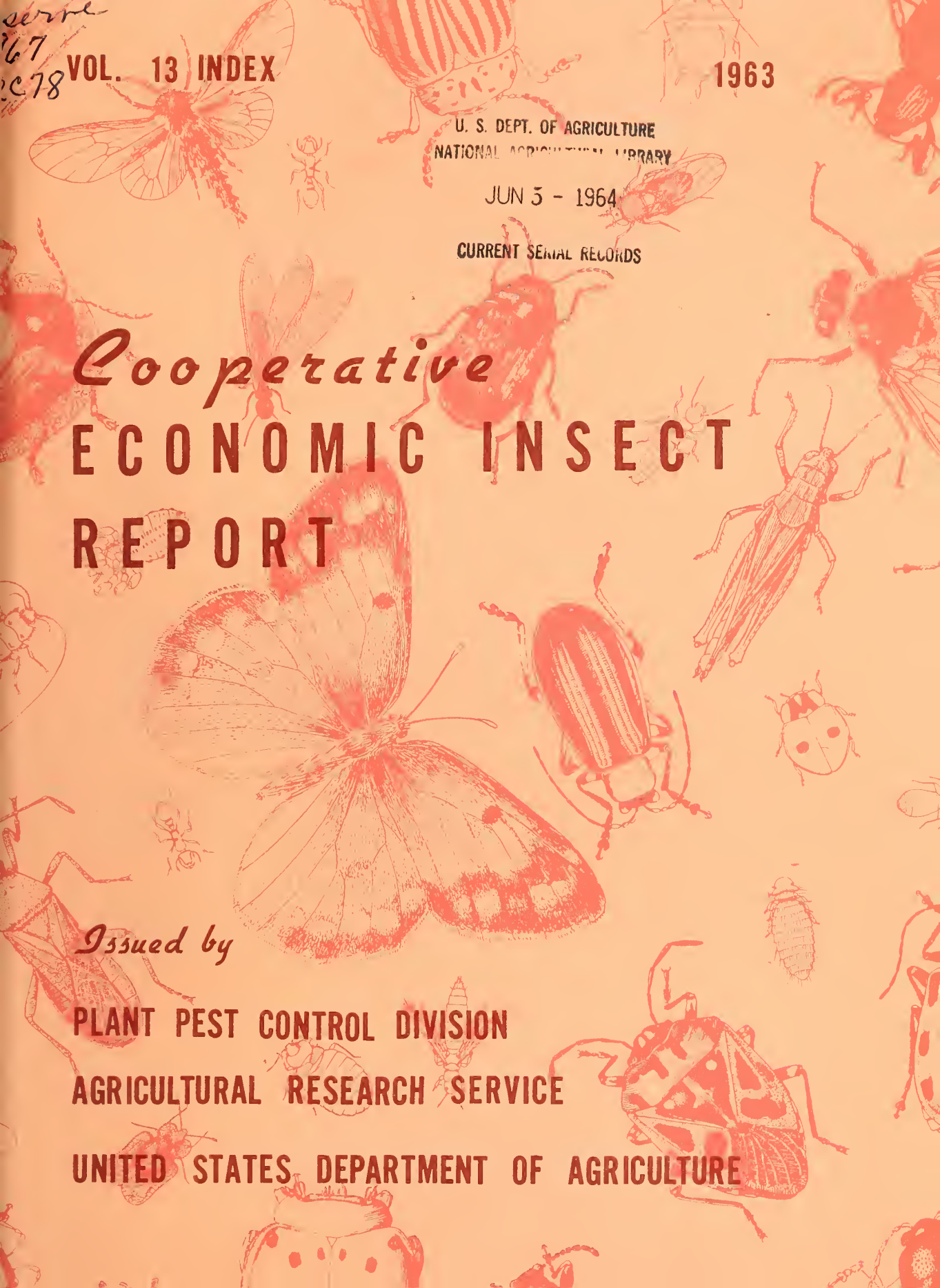
Cooperative
**ECONOMIC INSECT
REPORT**

Issued by

PLANT PEST CONTROL DIVISION

AGRICULTURAL RESEARCH SERVICE

UNITED STATES DEPARTMENT OF AGRICULTURE



AGRICULTURAL RESEARCH SERVICE

PLANT PEST CONTROL DIVISION

SURVEY AND DETECTION OPERATIONS

The Cooperative Economic Insect Report is issued weekly as a service to American Agriculture. Its contents are compiled from information supplied by cooperating State, Federal, and industrial entomologists and other agricultural workers. In releasing this material the Division serves as a clearing house and does not assume responsibility for accuracy of the material.

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United States Department of Agriculture
Federal Center Building
Hyattsville, Maryland 20781

INTRODUCTION

The explanations that follow will aid in using the 1963 index.

1. Page numbers underlined represent references to the "Summary of Insect Conditions in the United States - 1962."
2. Page numbers in parentheses represent loss estimates.
3. The small ° that follows the common name of certain species in the index indicates that the name is not listed in the "Common Names of Insects" as approved by the Entomological Society of America. However, most of these common names are of foreign species, and the common names used in the Cooperative Economic Insect Report were taken from literature sources from a country or countries where the species occurs.
4. Complete cross indexing of page references of insects with common names is not used. The "Scientific Names" should be used to locate all page references, with the exception of those insects or groups of insects where the scientific names were not reported. In these cases, the page reference will be listed in the "Common Names."
5. A combination of both common and scientific name of an insect or pest may not appear on the page referenced, but one or the other will be present.
6. A list of corrections for volume 13, not previously published, is on pages and

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- * Walley, P.E.S. 1960. Ent. Gaz.
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- Clover root horer
(Hylastinus obscurus)
- Clover seed weevil
(Miccotrogus picirostris)
- Clover stem horer
(Languria mozardi)
- Clover weevils
(1165)
- Cluster fly
(Pollenia rudis)
- Coccids
365, 371, 467, 835, 868, 1055, 1216, 1241, 1246, 1270, 1317, 1335, 1350, 1365, 1376
- Cocklebur weevil
(Rhodochaenus tredecimpunctatus)
- Cockroaches
77, 81, 107, 143, 183, 306, 439, 736, 1088, 1218
- Coconut mealybug
(Pseudococcus nipae)
- Coconut scale
(Aspidiotus destructor)
- Codling moth
(Carpocapsa pomonella)
- Coffee bean weevil
(Araecerus fasciculatus)
- Coffee berry horer
(Stephanoderes hampei)
- Coffee trunk horer, a
81
- Colorado potato beetle
(Leptinotarsa decemlineata)
- Columbian timber beetle
(Corthylus columbianus)
- Columbine leaf miner
(Phytomyza minuscula)
- Common cattle grub
(Hypoderma lineatum)
- Common malaria mosquito
(Anopheles quadrimaculatus)
- Cone moth, a
1296
- Confused flour beetle
(Tribolium confusum)
- Conifer sawflies
(Neodiprion spp.)
- Conifer sawflies
525, 558, 617, 684, 761, 993, 1022
- Convergent lady beetle
(Hippodamia convergens)
- Cooley spruce gall aphid
(Chermes cooleyi)
- Coreid bugs
200
- Corn blotch leaf miner
(Agropyza parvicornis)
- Corn earworm
(Heliothis zea)
- Corn flea beetle
(Chaetocnema pulicaria)
- Corn leaf aphid
(Rhopalosiphum maidis)
- Corn planthopper
(Peregrinus maidis)
- Corn root aphid
(Anuraphis maidiradicis)
- Corn root weevil
(Crambus caliginosellus)
- Corn rootworms
(272), 736, (1036), (1129), (1382)
- Corn sap beetle
(Carpophilus dimidiatus)
- Corn silk beetle
(Luperodes brunneus)
- Cornfield ant
(Lasius alienus)
- Cotton aphid
(Aphis gossypii)
- Cotton fleahopper
(Psallus seriatius)
- Cotton jassid
(Empoasca lybica)
- Cotton leaf perforator
(Bucculatrix thurrieriella)
- Cotton leafworm
(Alabama argillacea)
- Cotton square horer
(Strymon melinus)
- Cotton stem horer
(Sphenoptera gossypii)
- Cottonseed bug
(Oxycarenus hyalinipennis)
- Cottonwood horer
(Plectrodera scalator)
- Cottonwood dagger moth
(Acronicta lepusculina)
- Cottonwood leaf beetles
(Chrysomela scripta complex)
- Cottony-cushion scale
(Icerya purchasi)
- Cottony maple scale
(Pulvinaria innumerabilis)
- Cowpea aphid
(Aphis craccivora)
- Cowpea curculio
(Chalcodermus aeneus)
- Cowpea weevil
(Callosobruchus maculatus)
- Crab louse
(Phthirus pubis)
- Cranberry fruitworm
(Acrochasis vaccinii)
- Cranberry girdler
(Crambus topiarius)
- Crane fly, a
1030
- Crapemyrtle aphid
(Myzocallis kahawaluokalani)
- Crescent-marked lily aphid
(Neomyzus circumflexus)
- Crested wheat bug, a
(972)
- Crickets
80, 81, 306, 672, 800, 814, 846, 931, 965, 998, 1028, 1060, 1067, 1121, 1157, (1202), 1218, 1302
- Cross-striped cabbageworm
(Evergestis rimosalis)
- Cuhan-laurel thrips
(Gynaikothrips ficorum)
- Cucumber beetles
716, (1253)
- Curculionid, a
866
- Curled rose sawfly
(Allantus cinctus)
- Curran horer
(Ramosia tipuliformis)
- Curran fruit fly
(Epochra canadensis)
- Curran stem girdler
(Janus integer)
- Cutworms
73, 106, 115, 139, 166, 172, 233, 239, 246, 253, 267, (272), (273), 279, 315, 318, 359, 364, 398, 399, 411, 427, 432, 455, 480, 489, 519, 523, 556, 577, 583, 605, 611, 614, 645, 650, 667, 680, 717, 719, 743, 792, 819, 828, 851, 861, 920, 947, 953, 956, 1010, 1113, (1164), (1199), 1220, 1238, 1249, (1253), (1278), (1382), (1387), (1388)
- Cyclamen mite
(Steneotarsonemus pallidus)

D

E

European pine sawfly
(*Neodiprion sertifer*)
European pine shoot moth
(*Rhyacionia buoliana*)
European red mite
(*Panonychus ulmi*)
Eye-spotted bud moth
(*Spilonota ocellana*)

F

Face fly
(*Musca autumnalis*)
Fall armyworm
(*Laphygma frugiperda*)
Fall cankerworm
(*Alsophila pomataria*)
Fall webworm
(*Hyphantria cunea*)
False chinch bug
(*Nysius ericae*)
False codling moth^o
(*Cryptophlebia leucotreta*)
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322
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378
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282, 316
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(*Pinnaspis aspidistrae*)
Field crickets
(*Gryllus* spp.)
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(*Calosoma calidum*)
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(*Lepidosaphes ficus*)
Fig wax scale^o
(*Ceroplastes rusci*)
Filbertworm
(*Melissopus latiferreanus*)
Fir engraver
(*Scolytus ventralis*)
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(*Thermobia domestica*)
Fireworms
856
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773
Flat grain beetle
(*Cryptolestes pusillus*)
Flatheaded apple tree borer
(*Chrysobothris femorata*)
Flatheaded fir borer
(*Melanophila drummondii*)
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78, 79, 152, 225, 263, (449),
488, 519, 523, 554, 556, 580,
582, 611, 615, 625, 645,
649, 650, 680, 716, 753, 790,
828, 861, 1015, 1024, (1038),
1080, 1081, (1099), (1162),
1263, (1382), (1387), (1388)
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433, 459, (1102), (1257)
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77, 496, 838, 930, 1087, 1377
Fletcher scale
(*Lecanium fletcheri*)
Flies
563, (598), 732, 802, 929,
1058, 1120, (1200)
Floodwater mosquito
(*Aedes sticticus*)
Florida red scale
(*Chrysomphalus aonidium*)
Florida wax scale
(*Ceroplastes floridensis*)
Flower flies
222, 414, 440, 442, 471, 498,
532, 533, 839, 873, 1378

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Damsel bugs
(*Nabis* spp.)
Damsel bugs
471, 532, 590, 873
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(*Tenebrio obscurus*)
Darkling beetles
305, 363, (1202)
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(*Euxoa messoria*)
Deer flies
696, 732
Deodar weevil
(*Pissodes nemorensis*)
Dermestid beetles
368, 470, 931, 1121, 1378
Desert corn flea beetle
(*Chaetocnema ectypa*)
Desert locust^o
(*Schistocerca gregaria*)
Desert spider mite
(*Tetranychus desertorum*)
Devastating grasshopper
(*Melanoplus devastator*)
Diamondback moth
(*Plutella maculipennis*)
Dictyospermum scale
(*Chrysomphalus dictyospermi*)
Differential grasshopper
(*Melanoplus differentialis*)
Dingy cutworm
(*Feltia subgothica*)
Dobsonfly
(*Corydalus cornutus*)
Dog flea
(*Ctenocephalides canis*)
Dog follicle mite
(*Demodex canis*)
Dogwood borer
(*Thamnosphacia scitula*)
Dogwood club-gall midge
(*Mycodiplosis alternata*)
Dogwood twig borer
(*Oberea tripunctata*)
Douglas-fir beetle
(*Dendroctonus pseudotsugae*)
Douglas-fir engraver
(*Scolytus unispinosus*)
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(*Hermetocampa pseudotsugata*)
Douglas-fir twig weevil
(*Cylindrocopturus furnissi*)
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223, 258
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(*Carpophilus hemipterus*)
Dried-fruit moth
(*Vitula edmandsae serratilineella*)
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(*Eristalis tenax*)
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(*Stegobium paniceum*)
Dryberry mite
(*Phyllocoptes gracilis*)
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309
Durra aphid^o
(*Aphis sorghi*)
Durra stalk borer^o
(*Sesamia cretica*)
Dusky birch sawfly
(*Croesus latitarsus*)
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(*Carpophilus lugubris*)

Ear tick
(*Otobius megnini*)
Earwigs
46, 90, 223, 679, 965, 995,
(1202), 1218, 1249, 1337
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(*Romalea microptera*)
Eastern raspberry fruitworm
(*Byturus rubi*)
Eastern spruce gall aphid
(*Chermes abietis*)
Eastern subterranean termite
(*Reticulitermes flavipes*)
Eastern tent caterpillar
(*Malacosoma americanum*)
Eggplant flea beetle
(*Epitrix fuscata*)
Eggplant fruit borer^o
(*Leucinodes orbonalis*)
Egyptian cottonworm^o
(*Prodenia litura*)
Eight-spotted forester
(*Alypia octomaculata*)
Elm borer
(*Saperda tridentata*)
Elm calligrapha
(*Calligrapha scalaris*)
Elm casebearer
(*Coleophora limosipennella*)
Elm flea beetle
(*Altica ulmi*)
Elm lace bug
(*Corythucha ulmi*)
Elm leaf aphid
(*Myzocallis ulmifolii*)
Elm leaf beetle
(*Galerucella xanthomelaena*)
Elm leaf miner
(*Fenusa ulmi*)
Elm sawfly
(*Cimbex americana*)
Elm spanworm
(*Ennomos subsignarius*)
Elongate flea beetle
(*Systema elongata*)
Engelmann spruce beetle
(*Dendroctonus engelmanni*)
English grain aphid
(*Macrosiphum avenae*)
Ephydrid fly, an
494
Eriophyid mites
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1355
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(*Hyponomeuta padella*)
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(*Unaspis euonymi*)
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(*Hoplocampa testudinea*)
European carrot borer^o
(*Phalonia zephyrana*)
European chafer
(*Amphimallon majalis*)
European cherry fruit fly^o
(*Rhagoletis cerasi*)
European corn borer
(*Ostrinia nubilalis*)
European earwig
(*Forficula auricularia*)
European elm scale
(*Gossyparia spuria*)
European fruit lecanium
(*Lecanium corni*)
European grain moth
(*Nemapogon granella*)
European mantis
(*Mantis religiosa*)

Flower thrips
(*Frankliniella tritici*)
 Forage looper
(*Caenurgina erechtea*)
 Forbes scale
(*Aspidiotus forbesi*)
 Foreign grain beetle
(*Ahasverus advena*)
 Forest tent caterpillar
(*Malacosoma disstria*)
 Four-lined plant bug
(*Poecilocapsus lineatus*)
 Four-spotted spider mite
(*Tetranychus canadensis*)
 Fowl tick
(*Argas persicus*)
 Frit fly
(*Oscinella frit*)
 Fruit-tree leaf roller
(*Archips argyrospilus*)
 Fruit-tree mite, a
(1097)
 Fulgorid planthoppers
620
 Fuller rose beetle
(*Pantomorus godmani*)
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64, 384, (1202)
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(*Anthrenus flavipes*)

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Gall midges
245, 551
 Gall mite, a
356
 Gall wasps
350
 Garden fleahopper
(*Halticus bracteatus*)
 Garden spiders
(1202)
 Garden springtail
(*Bourletiella hortensis*)
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(*Scutigera immaculata*)
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(*Loxostege similalis*)
 Gelechiid moths
169
 German cockroach
(*Blattella germanica*)
 Giant bark aphid
(*Longistigma caryae*)
 Giant hornet
(*Vespa crabro germana*)
 Giant water bug
(*Lethocerus americanus*)
 Gladiolus thrips
(*Taeniotrips simplex*)
 Glassy cutworm
(*Crymodes devastator*)
 Globose scale
(*Lecanium prunastris*)
 Gloomy scale
(*Chrysomphalus tenebrosus*)
 Glover scale
(*Lepidosaphes gloverii*)
 Golden nematode
(*Heterodera rostochiensis*)
 Golden oak scale
(*Asterolecanium variolosum*)
 Golden tortoise beetle
(*Metriona bicolor*)
 Golden-eye lacewing
(*Chrysopa oculata*)
 Gooseberry fruitworm
(*Zophodia convolutella*)
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115, (503), (504), (505), (974)

Grain mite
(*Acarus siro*)
 Grain thrips
(*Limothrips cerealium*)
 Granary weevil
(*Sitophilus granarius*)
 Granulate cutworm
(*Feltia subterranea*)
 Grape berry moth
(*Paralobesia viteana*)
 Grape cane gall maker
(*Ampelogypter sesostris*)
 Grape erineum mite
(*Eriophyes vitis*)
 Grape flea beetle
(*Altica chalybea*)
 Grape leaf folder
(*Desmia funeralis*)
 Grape leaf skeletonizer
(*Harrisina americana*)
 Grape mealybug
(*Pseudococcus maritimus*)
 Grape phylloxera
(*Phylloxera vitifoliae*)
 Grape root borer
(*Vitacea polistiformis*)
 Grape rootworm
(*Fidia viticida*)
 Grape sawfly
(*Erythraspides vitis*)
 Grape scale
(*Aspidiotus uvae*)
 Grape whitefly
(*Trialeurodes vittatus*)
 Grapevine aphid
(*Aphis illinoisensis*)
 Grasshoppers
78, 79, 80, 81, 125, 126, 127,
128, 129, 202, 211, 216, 229,
241, 243, 379, 393, 427, (444),
(445), (449), (450), 458, 483,
(503), (504), (505), (506),
509, 541, 550, 573, (592), (593),
(594), (595), (596), 601, 633,
651, 665, 683, 701, 717, 720,
741, 779, (810), 813, 845, 880,
901, 941, (972), (974), 977,
1005, 1017, (1035), (1038),
1041, 1073, 1096, 1110, 1121,
(1125), 1141, 1143, 1145, 1176,
(1196), 1205, 1239, 1241, 1242,
1264, 1291, 1296, 1312, 1316,
1374, (1384), (1385), (1386),
(1387), (1388),
 Grass thrips
(*Anaphothrips obscurus*)
 Gray garden slug
(*Deroceras reticulatum*)
 Gray sugarcane mealybug
(*Pseudococcus boninsis*)
 Great Basin tent caterpillar
(*Malacosoma fragile*)
 Great Basin wireworm
(*Ctenicera pruinina*)
 Greater date moth
(*Arenipes sabella*)
 Greater wax moth
(*Galleria mellonella*)
 Greedy scale
(*Aspidiotus camelliae*)
 Green cloverworm
(*Plathypena scabra*)
 Green fruitworm
(*Lithophane antennata*)
 Green June beetle
(*Cotinis nitida*)
 Green lacewings
624, 932, 965
 Green peach aphid
(*Myzus persicae*)
 Green scale
(*Coccus viridis*)
 Green shield scale
(*Pulvinaria psidii*)

Green stink bug
(*Acrosternum hilare*)
 Greenbug
(*Schizaphis graminum*)
 Greenhouse orthezia
(*Orthezia insignis*)
 Greenhouse slug
(*Milax gagates*)
 Greenhouse thrips
(*Heliothrips baemorrhoidalis*)
 Greenhouse whitefly
(*Trialeurodes vaporariorum*)
 Green-striped grasshopper
(*Chortophaga viridifasciata*)
 Green-striped mapleworm
(*Anisota rubicunda*)
 Gregarious oak leaf miner
(*Cameraria cincinnatiella*)
 Ground beetles
930
 Ground pearls
1405
 Ground mealybug
(*Rhizococcus falcifer*)
 Gulf Coast tick
(*Amblyomma maculatum*)
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(*Porthetria dispar*)

H

Hackberry lace bug
(*Corythucha celtidis*)
 Hackberry-nipple-gall maker
(*Pachypsylla celtidismamma*)
 Hairy chinch bug
(*Blissus leucopterus hirtus*)
 Hairy spider beetle
(*Ptinus villiger*)
 Hall scale
(*Nilotaspis halli*)
 Harlequin bug
(*Murgantia histrionica*)
 Harvester ants
(1202)
 Hawthorn lace bug
(*Corythucha cydoniae*)
 Head louse
(*Pediculus humanus capitis*)
 Hellgrammite
(*Corydalus cornutus*)
 Hemispherical scale
(*Saissetia bemisphaerica*)
 Hemlock sawfly
(*Neodiprion tsugae*)
 Hessian fly
(*Phytomyza destructor*)
 Hibiscus mealybug
(*"Phenacoccus" hirsutus*)
 Hickory horned devil
(*Citheronia regalis*)
 Hickory plant bug
(*Lygocoris caryae*)
 Hickory shuckworm
(*Laspeyresia caryana*)
 Hickory tussock moth
(*Halisidota caryae*)
 Hide beetle
(*Dermestes maculatus*)
 Hog louse
(*Haematopinus suis*)
 Holly leaf miner
(*Phytomyza ilicis*)
 Hollyhock weevil
(*Apion longirostre*)
 Honey bee
(*Apis mellifera*)
 Hop aphid
(*Phorodon humuli*)
 Hop flea beetle
(*Psylliodes punctulata*)

Horn fly
(Haematobia irritans)
 Horned squash bug
(Anasa armigera)
 Hornets
301, 930, 964, 998, 1120, 1157
 Hornworms
(1388)
 Horse biting louse
(Bovicola equi)
 Horse bot fly
(Gasterophilus intestinalis)
 Horse flies
969, (1281)
 House centipede
(Scutigera coleoptrata)
 House cricket
(Acheta domesticus)
 House fly
(Musca domestica)

Khapra beetle
(Trogoderma granarium)
 Klamath-weed beetles
(Chrysolina spp.)
 Lace bugs
688, 726, 764, 995
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414, 471, 498, 533, 590, 769,
803, 839, 873, 1088
 Lady beetles
222, 258, 287, 324, 369, 405,
410, 440, 442, 471, 498, 532,
533, 564, 589, 623, 659, 693,
731, 769, 803, 839, 873, 931,
965, 999, 1028, 1029, 1088,
1121, 1158, 1188, 1219, 1301,
1337, 1368
 Lake midges
563
 Larch aphid
(Cinara laricis)
 Larch casebearer
(Coleophora laricella)
 Larch sawfly
(Pristiphora erichsonii)
 Larder beetle
(Dermestes lardarius)
 Large aspen tortrix
(Choristoneura conflictana)
 Large white butterfly
(Pieris brassicae)
 Larger canna leaf roller
(Calpodex ethlius)
 Larger elm leaf beetle
(Monocesta coryli)
 Larger shot-hole borer
(Scolytus mali)
 Larger yellow ant
(Acanthomyops interjectus)
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(Spodoptera mauritia acronyctoides)
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786, 1211
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(Acrobasis indigenella)
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80, 153, 219, 239, 363, 365, 610,
644, 678, 717, 759, 790, 914,
1055, 1113, 1154, (1198), 1243,
(1254), 1364, 1366, (1387)
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1117
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580, 716, (1097)
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379
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242, 269, 282, 316, 375, 392,
433, (444), (450), 457, 461,
462, 467, 645, 671, 709, 759,
789, 816, 852, 861, 880, 961,
981, 1024, 1055, 1084, 1113,
(1196), 1215, 1245, (1253),
1291, 1330, 1346
 Leek moth
(Acrolepia assectella)
 Leopard moth
(Zeuzera pyrina)
 Lespedeza webworm
(Tetralopa scortealis)
 Lesser appleworm
(Grapholitha prunivora)

Lesser clover leaf weevil
(Hypera nigrirostris)
 Lesser cornstalk borer
(Elasmopalpus lignosellus)
 Lesser date moth
(Batrachedra amydraula)
 Lesser grain borer
(Rhyzopertha dominica)
 Lesser mealworm
(Alphitobius diaperinus)
 Lesser peach tree borer
(Synanthedon pictipes)
 Lice
183, 300, (598), (1281), (1282),
1335
 Light-brown apple moth
(Austrotortrix postvittana)
 Lilac borer
(Podosesia syringae syringae)
 Lilac leaf miner
(Gracilaria syringella)
 Lima-bean pod borer
(Etiella zinckenella)
 Lima-bean vine borer
(Monoptilota pergratialis)
 Linden looper
(Erannis tiliaria)
 Locust borer
(Megacyllene robiniae)
 Locust leaf miner
(Xenochalepus dorsalis)
 Locust twig borer
(Ecdytolopa insitiana)
 Lodgepole needle miner
("Recurvaria" milleri)
 Lone star tick
(Amblyomma americanum)
 Long-nosed cattle louse
(Linognathus vituli)
 Long-tailed mealybug
(Pseudococcus adonidum)
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377, 432, 828, (1253), (1254)
 Lycaenid, a
317
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(444), (445), (449), (973),
(1097), (1102), (1257)

M

Magnolia scale
(Neolecanium cornuparvum)
 Maize billbug
(Sphenophorus maidis)
 Mange mites
300
 Maple bladder-gall mite
(Vasates quadripedes)
 Maple leaf cutter
(Paraclemensia acerifoliella)
 Maple petiole borer
(Caulocampus acericaulis)
 Maple trumpet skeletonizer
(Epinotia aceriella)
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419
 Margined blister beetle
(Epicauta pestifera)
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(Reduvius personatus)
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1159
 Meadow plant bug
(Leptopterna dolabratus)
 Meadow spittlebug
(Philaenus spumarius)
 Meal moth
(Pyralis farinalis)
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67

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Jack-pine budworm
(Choristoneura pinus)
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(Neodiprion pratti banksianae)
 Japanese beetle
(Popillia japonica)
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(Dendroctonus jeffreyi)
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288
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(Diaspis carueli)
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(Dichomeris marginella)

K

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396, 461, 727

Mealy plum aphid
(*Hyalopterus pruni*)
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28, 79, 81, 158, 206, 210, 373,
396, 645, 789, 823, (1197),
1207, 1242, 1365, 1424
Mediterranean flour moth
(*Anagasta künniella*)
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(*Ceratitis capitata*)
Melon aphid
(*Aphis gossypii*)
Melon fly
(*Dacus cucurbitae*)
Melonworm
(*Diaphania hylina*)
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(*Epilachna varivestis*)
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(*Anastrepha ludens*)
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(*Phenacoccus gossypii*)
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(*Melanoplus sanguinipes*)
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1218, 1272, 1378, 1394
Mimosa webworm
(*Homadula albizziae*)
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798
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356, 380, 496, 645, 851, 866,
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(*Danaus plexippus*)
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1239
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(*Bedellia somnulentella*)
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(*Doclostaurus maroccanus*)
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107, 291, 292, 293, 367, 403,
438, 496, 530, 563, 587, (598),
622, 658, 691, 696, 727, 736,
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995, 1025, 1056, 1087, 1119,
1156, 1185, (1200), 1216, 1246,
1270, 1298, 1318, 1351, 1366,
1377, 1398
Moths
(1202)
Mountain-ash sawfly
(*Pristiphora geniculata*)
Mountain pine beetle
(*Dendroctonus monticolae*)
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(*Nymphalis antiopa*)
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695, 1271
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(*Tyrophagus putrescentiae*)

N

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442

Nantucket pine tip moth
(*Rhyacionia frustrana*)
Natal fruit fly
(*Ceratitis rosa*)
Native elm bark beetle
(*Hylurgopinus rufipes*)
Native holly leaf miner
(*Phytomyza ilicicola*)
Navel orangeworm
(*Paramyelois transitella*)
Nematodes
1021
New Guinea sugarcane weevil
(*Rhabdoscelus obscurus*)
Northern cattle grub
(*Hypoderma bovis*)
Northern corn rootworm
(*Diabrotica longicornis*)
Northern fowl mite
(*Ornithonyssus sylviarum*)
Northern house mosquito
(*Culex pipiens pipiens*)
Northern masked chafer
(*Cyclocephala borealis*)
Northern mole cricket
(*Gryllotalpa hexadactyla*)
Norway-maple aphid
(*Periphyllus lyropictus*)
Nutgrass armworm
(*Spodoptera exempta*)

Oak lace bug
(*Corythucha arcuata*)
Oak skeletonizer
(*Bucculatrix ainsliella*)
Oak webworm
(*Archips fervedanus*)
Oat cyst nematode
(*Heterodera avenae*)
Oblique-banded leaf roller
(*Archips rosaceanus*)
Obscure scale
(*Chrysomphalus obscurus*)
Oecophorid caterpillar
(*Dasystoma salicellum*)
Old-house borer
(*Hylotrupes bajulus*)
Old World bollworm
(*Heliothis armigera*)
Old World screw-worm
(*Chrysomya bezziana*)
Oleander aphid
(*Aphis nerii*)
Oleander scale
(*Aspidiotus hederæ*)
Olive fruit fly
(*Dacus oleæ*)
Olive moth
(*Prays oleellus*)
Olive psyllid
(*Euphyllura olivina*)
Olive scale
(*Parlatoria oleæ*)
Omnivorous leaf tier
(*Cnephasia longana*)
Omnivorous looper
(*Sabulodes caberata*)
One-spot stink bug
(*Euschistus variolarius*)
Onion bulb fly
(*Eumerus strigatus*)
Onion maggot
(*Hylemya antiqua*)
Onion thrips
(*Thrips tabaci*)
Orange tortrix
(*Argyrotaenia citrana*)
Orange-dog
(*Papilio cresphontes*)

Orange-striped oakworm
(*Anisota senatoria*)
Orchard mites
675, 751, 820, 854, 880, 913,
948
Oriental cockroach
(*Blatta orientalis*)
Oriental fruit fly
(*Dacus dorsalis*)
Oriental fruit moth
(*Grapholitha molesta*)
Oriental house fly
(*Musca domestica vicina*)
Oystershell scale
(*Lepidosaphes ulmi*)

P

Pacific Coast tick
(*Dermacentor occidentalis*)
Pacific Coast wireworm
(*Limonius canus*)
Pacific dampwood termite
(*Zootermopsis angusticollis*)
Pacific flatheaded borer
(*Chrysobothris mali*)
Pacific spider mite
(*Tetranychus pacificus*)
Packard grasshopper
(*Melanoplus packardii*)
Painted lady
(*Vanessa cardui*)
Painted leafhopper
(*Endria inimica*)
Painted maple aphid
(*Drepanaphis acerifoliae*)
Pale tussock moth
(*Halisidota tessellaris*)
Pale western cutworm
(*Agrotis orthogonia*)
Pales weevil
(*Hylobius pales*)
Pale-striped flea beetle
(*Systema blanda*)
Palm leaf skeletonizer
(*Homaledra sabalella*)
Pandora moth
(*Coloradia pandora*)
Papaya fruit fly
(*Toxotrypana curvicauda*)
Parasites
28, 131, 154, 155, 287, 324,
405, 412, 413, 590, 660, 731
Parlatoria date scale
(*Parlatoria blanchardi*)
Parsleyworm
(*Papilio polyxenes asterius*)
Pavement ant
(*Tetramorium caespitum*)
Pea aphid
(*Acyrtosiphon pisum*)
Pea leaf miner
(*Liriomyza langei*)
Pea leaf weevil
(*Sitona lineata*)
Pea moth
(*Laspeyresia nigricana*)
Pea weevil
(*Bruchus pisorum*)
Peach buprestid
(*Capnodis tenebrionis*)
Peach fruit moth
(*Carposina niponensis*)
Peach silver mite
(*Aculus cornutus*)
Peach tree borer
(*Sanninoidea exitiosa*)
Peach twig borer
(*Anarsia lineatella*)
Pear lace bug
(*Stephanitis pyri*)

- Pear leaf blister mite
(*Eriophyes pyri*)
Pear rust mite
(*Epitrimerus pyri*)
Pear psylla
(*Psylla pyricola*)
Pear thrips
(*Taeniothrips inconsequens*)
Pear-slug
(*Caliroa cerasi*)
Pecan aphids
1142
Pecan bud moth
(*Gretchena bolliana*)
Pecan carpenterworm
(*Cossula magnifica*)
Pecan cigar casebearer
(*Coleophora caryaefoliella*)
Pecan leaf casebearer
(*Acrobasis juglandis*)
Pecan leaf phylloxera
(*Phylloxera notabilis*)
Pecan leafroll mite
(*Aceria caryae*)
Pecan nut casebearer
(*Acrobasis caryae*)
Pecan phylloxera
(*Phylloxera devastatrix*)
Pecan spittlebug
(*Clastoptera achatina*)
Pecan weevil
(*Curculio caryae*)
Pepper maggot
(*Zonosemata electa*)
Periodical cicada
(*Magicicada septendecim*)
Periodical cicadas
202, 258, 352, 536, 555, 566,
579, 585, 609, 641, 660, 673,
694, 712, 732, 751, 788, 798,
949, 985, 1088
Pharaoh ant
(*Monomorium pharaonis*)
Phlox plant bug
(*Lopidea davisii*)
Pigeon tremex
(*Tremex columba*)
Pickletworm
(*Diaphania nitidalis*)
Pigmy mangold beetle
(*Atomaria linearis*)
Pillbugs
270, 308, 366, 380, (1202)
Pine aphids
1365, 1395, 1407
Pine bark aphid
(*Pineus strobi*)
Pine bark beetles
958
Pine butterfly
(*Neophasia menapia*)
Pine chafer
(*Anomala obliqua*)
Pine colaspis
(*Colaspis pini*)
Pine engraver
(*Ips pini*)
Pine false webworm
(*Acantholyda erythrocephala*)
Pine leaf chermid
(*Pineus pinifoliae*)
Pine needle miner
(*Exoteleia pinifoliella*)
Pine needle scale
(*Phenacaspis pinifoliae*)
Pine reproduction weevils
721
Pine root collar weevil
(*Hylobius radicis*)
Pine spittlebug
(*Aphrophora parallela*)
Pine tip moths
524, 832, 958
Pine tortoise scale
(*Toumeyella numismaticum*)
Pine tube moth
(*Argyrotaenia pinatubana*)
Pine tussock moth
(*Dasychira plagiata*)
Pine webworm
(*Tetralopha robustella*)
Pineapple scale
(*Diaspis bromeliae*)
Pink bollworm
(*Pectinophora gossypiella*)
Pink scavenger caterpillar
(*Sathrobrotia rileyi*)
Pistachio psyllid
(*Agonoscena targionii*)
Pistol casebearer
(*Coleophora malivorella*)
Pitch twig moth
(*Petrova comstockiana*)
Plant bugs
200, (274), 431, (444), 474,
582, 604, 640, 719, 724, (809),
830, (1165), 1209, (1224), 1242,
1261, (1386)
Plum curculio
(*Conotrachelus nenuphar*)
Plum gouger
(*Anthonomus scutellaris*)
Plum rust mite
(*Aculus fockeui*)
Plum web-spinning sawfly
(*Neurotoma inconspicua*)
Polyphemus moth
(*Antheraea polyphemus*)
Poplar borer
(*Saperda calcarata*)
Poplar petiole gall aphid
(*Pemphigus populitransversus*)
Poplar tent maker
(*Ichthyura inclusa*)
Poplar vagabond aphid
(*Mordwilkoja vagabunda*)
Poplar-and-willow borer
(*Sternochetus lapathi*)
Potato aphid
(*Macrosiphum euphorbiae*)
Potato flea beetle
(*Epitrix cucumeris*)
Potato leafhopper
(*Empoasca fabae*)
Potato psyllid
(*Paratrioza cockerelli*)
Potato stalk borer
(*Trichobaris trinotata*)
Potato stem borer
(*Hydroecia micacea*)
Potato tuberworm
(*Gnorimoschema operculella*)
Powder-post beetles
310, 378, 439, 1374
Predaceous mites
660, 694
Predators
131, 154, 155, 287, 324, 413,
1411
Privet leaf miner
(*Gracilaria cuculipennella*)
Privet mite
(*Brevipalpus obovatus*)
Privet thrips
(*Dendrothrips ornatus*)
Pseudoscorpions
419
Psocids
384, 1398
Psychid moths
376
Psyllids
736, 1265
Pumpkin caterpillar
(*Diaphania indica*)
Purple scale
(*Lepidosaphes beckii*)
Puss caterpillar
(*Megalopyge opercularis*)
Putnam scale
(*Aspidiotus ancyclus*)
Pyralid moth, a
827
Pyriform scale
(*Protopulvinaria pyriformis*)

R
Range caterpillar
(*Hemileuca oliviae*)
Range crane fly
(*Tipula simplex*)
Rapid plant bug
(*Adelphocoris rapidus*)
Raspberry cane borer
(*Oberea bimaculata*)
Raspberry crown borer
(*Bembecia marginata*)
Raspberry sawfly
(*Monophadnoides geniculatus*)
Red carpenter ant
(*Camponotus ferrugineus*)
Red elm bark weevil
(*Magdalis arnicollis*)
Red flour beetle
(*Tribolium castaneum*)
Red harvester ant
(*Pogonomyrmex barbatus*)
Red pumpkin beetle
(*Raphidopalpa foveicollis*)
Red turnip beetle
(*Entomoscelis americana*)
Red turpentine beetle
(*Dendroctonus valens*)
Red-backed cutworm
(*Euxoa ochrogaster*)
Red-banded leaf roller
(*Argyrotaenia velutinana*)
Red-banded thrips
(*Selenothrips rubrocinctus*)
Red-headed ash borer
(*Neoclytus acuminatus*)
Red-headed pine sawfly
(*Neodiprion lecontei*)
Red-humped caterpillar
(*Schizura concinna*)
Red-legged flea beetle
(*Derocrepis erythropus*)
Red-legged grasshopper
(*Melanoplus femurrubrum*)
Red-necked cane borer
(*Agrilus ruficollis*)
Red-necked peanutworm
(*Stegasta bosqueella*)
Red-pine sawfly
(*Neodiprion nanulus nanulus*)
Rhodes-grass scale
(*Antonina graminis*)
Rhubarb curculio
(*Lixus concavus*)
Rice delphacid
(*Sogata orizicola*)
Rice moth
(*Corcyra cephalonica*)
Rice stink bug
(*Oebalus pugnax pugnax*)
Rice water weevil
(*Lissorhoptrus oryzophilus*)
Rice weevil
(*Sitophilus oryzae*)
Ring-legged earwig
(*Euborellia annulipes*)
Robber flies
839
Rocky Mountain wood tick
(*Dermacentor andersoni*)

Root aphids
650
Root maggots
1332
Rootworm, a
462
Rose aphid
(Macrosiphum rosae)
Rose chafer
(Macrodactylus subspinosus)
Rose leaf beetle
(Nodonota puncticollis)
Rose leafhopper
(Edwardsiana rosae)
Rose sawfly
(Blennocampa pusilla)
Rose scale
(Aulacaspis rosae)
Rose stem girdler
(Agrius rubicola)
Rose-slug
(Endelomyia aethiops)
Rosy apple aphid
(Anuraphis rosea)
Roundbeaded apple tree borer
(Saperda candida)
Roundheaded pine beetle
(Dendroctonus convexifrons)
Rust mites
28, 104, 529
Rustic borer
(Xylotrechus colonus)
Rusty grain beetle
(Cryptolestes ferrugineus)
Rusty plum aphid
(Hysteroneura setariae)
Rusty tussock moth
(Orgyia antiqua)
Rhododendron lace bug
(Stephanitis rhododendri)

S

Saddled prominent
(Heterocampa guttivitta)
Saddleback caterpillar
(Sibine stimulea)
Safflower fruit fly^o
(Acantbiopbilus eluta)
Sagebrush defoliator
(Aroga websteri)
Salt-marsh caterpillar
(Estigmene acrea)
Salt-marsh mosquito
(Aedes sollicitans)
Sand wireworm
(Horistonotus uhlerii)
San Jose scale
(Aspidiotus perniciosus)
Sap beetles
943, 1043, 1074, (1164)
Saratoga spittlebug
(Aphrophora saratogensis)
Sarcophagid flies
532
Satin moth
(Stilpnolia salicis)
Sawflies
82, 350, 395, 466, 515, 756,
1096, (1383)
Saw-toothed grain beetle
(Oryzaepbilus surinamensis)
Say stink bug
(Chlorochroa sayi)
Scale insects
28, 79, 217, 486, 751, 789,
822, (1197), 1242
Scaly-leg mite
(Knemidokoptes mutans)
Scarab larvae
(1388)

Schoene spider mite
(Tetranychus schoenei)
Sciarid flies
384
Scorpions
303, (1202)
Screw-worm
(Cochliomyia hominivorax)
Scurfy scale
(Chionaspis furfura)
Secondary screw-worm
(Cochliomyia macellaria)
Seed insects
(1131)
Seed-corn beetle
(Agonoderus lecontei)
Seed-corn maggot
(Hylemya platura)
Senn pest^o
(Eurygaster integriceps)
Sequoia pitch moth
(Vespa mima sequoiae)
Shaft louse
(Menopon gallinae)
Shallot aphid
(Myzus ascalonicus)
Sheep biting louse
(Bovicola ovis)
Sheep bot fly
(Oestrus ovis)
Sheep scab mite
(Psoroptes ovis)
Sheep ked
(Melophagus ovinus)
Shoot borer, a
1021
Shot-hole borer
(Scolytus rugulosus)
Short-nosed cattle louse
(Haematopinus eurysternus)
Silky ant
(Formica fusca)
Silverfish
81, (1202)
Silverfish
(Lepisma saccharina)
Silver-spotted tiger moth
(Halisidota argentata)
Silver-spotted skipper
(Epargyreus clarus)
Silver-Y moth^o
(Autographa gamma)
Six-spotted leafhopper
(Macrostelus fascifrons)
Six-spotted mite
(Eotetranychus sexmaculatus)
Slugs
171, 242, 246, 829, 1017, 1211,
1294, 1366, (1388)
Small spruce sawfly^o
(Pristiphora abietina)
Smaller European elm bark beetle
(Scolytus multistriatus)
Smearred dagger moth
(Acronicta oblinita)
Snails
43, 242, 285
Snowball aphid
(Anuraphis viburnicola)
Snowy tree crickets
(Oecantbus spp.)
Sod webworms
483, 515, 607, 667, 983, 1011,
1047
Soil insects
(890), (1227), (1253)
Solitary oak leaf miner
(Cameraria bamadryadella)
Solpugids
419, 931
Sorghum midge
(Contarinia sorghicola)
Sorghum webworm
(Celama sorghiella)

Southern armyworm
(Prodenia eridanis)
Southern buffalo gnat
(Cnephia pecuarum)
Southern cabbageworm
(Pieris protodice)
Southern cattle tick
(Boophilus microplus)
Southwestern corn borer
(Zea diatraea grandiosella)
Southern corn rootworm
(Diabrotica undecimpunctata bowardi)
Southern cornstalk borer
(Diatraea crambidoides)
Southern fire ant
(Solenopsis xyloni)
Southern green stink bug
(Nezara viridula)
Southern house mosquito
(Culex pipiens quinquefasciatus)
Southern lyctus beetle
(Lyctus planicollis)
Southern pine beetle
(Dendroctonus frontalis)
Southern pine sawyer
(Monochamus titillator)
Southern potato wireworm
(Conoderus falli)
Southern red mite
(Oligonychus ilicis)
Sowbugs
285, 308, 1187, (1202)
Soybean cyst nematode
(Heterodera glycines)
Spiders
873, 1096
Spider beetles
439
Spider mites
104, 174, 180, 229, 232, 244,
245, 361, 364, 380, 399, 463,
490, 523, 528, 546, 556, 561,
576, 580, 587, 604, 621, 641,
651, 656, 680, 683, 689, 709,
711, 717, 720, 727, 736, 759,
765, 794, 800, 828, 830, 835,
860, 861, 862, 863, 869, 908,
921, 926, 945, 947, 957, 962,
983, 984, 991, 995, 1008, 1020,
1025, 1044, 1047, 1053, 1056,
1083, 1109, 1110, 1113, 1118,
1143, 1147, (1163), 1185, 1210,
1212, (1224), 1243, 1245, (1257),
1292, 1297, 1315, 1408
Spinach flea beetle
(Disonychba xanthomelas)
Spinach leaf miner
(Pegomya hyoscyami)
Spined soldier bug
(Podisus maculiventris)
Spiny bollworm^o
(Earias insulana)
Spiny oakworm
(Anisota stigma)
Spirea aphid
(Aphis spiraeicola)
Spittlebugs
170, 192, 375, 514, 548, 789,
983, 1216
Spotted alfalfa aphid
(Therioaphis maculata)
Spotted asparagus beetle
(Crioceris duodecimpunctata)
Spotted blister beetle
(Epicauta maculata)
Spotted cucumber beetle
(Diabrotica undecimpunctata howardi)
Spotted cutworm
(Amatbes c-nigrum)
Spotted garden slug
(Limax maximus)

Spotted pine sawyer (<u>Monochamus maculosus</u>)	Sugarcane beetle (<u>Euethoia rugiceps</u>)	606, 615, 637, 645, 648, 650, 669, 672, 679, 683, 689, 709, 717, 720, 726, 745, 755, 759, 783, 828, 850, 911, 945, 995, 1077, (1102), (1196), 1212, (1225), (1257), (1280), 1364, (1382)
Spring cankerworm (<u>Paleacrita vernata</u>)	Sugarcane borer (<u>Diatraea saccharalis</u>)	
Springtails 46, 288, 308, 379, 406, 419, 499, 625, 716, 746, 803, 875, 1121, 1157, 1187, 1411	Sugar-maple borer (<u>Glycobius speciosus</u>)	
Spruce aphid (<u>Aphis abietina</u>)	Sugar-pine cone beetle (<u>Conophthorus lambertianae</u>)	
Spruce bud moth (<u>Zeiraphera ratzeburgiana</u>)	Sunflower moth (<u>Homoeosoma electellum</u>)	
Spruce bud scale (<u>Physokermes piceae</u>)	Superb plant bug (<u>Adelphocoris superbus</u>)	
Spruce budworm (<u>Choristoneura fumiferana</u>)	Swallow bug (<u>Oeciacus vicarius</u>)	
Spruce needle miner (<u>Taniva albolineana</u>)	Sweetclover aphid (<u>Therioaphis riehmii</u>)	
Spruce needle miner, a 652	Sweetclover weevil (<u>Sitona cylindricollis</u>)	
Spruce spider mite (<u>Oligonychus ununguis</u>)	Sweetpotato flea beetle (<u>Chaetocnema confinis</u>)	
Square-necked grain beetle (<u>Cathartus quadricollis</u>)	Sweetpotato hornworm (<u>Agrilus cingulatus</u>)	
Squash beetle (<u>Epilachna borealis</u>)	Sweetpotato leaf miner (<u>Bedellia orchilella</u>)	
Squash bug (<u>Anasa tristis</u>)	Sweetpotato leaf roller (<u>Pilocrocis tripunctata</u>)	
Squash vine borer (<u>Melittia cucurbitae</u>)	Sweetpotato weevil (<u>Cylas formicarius elegantulus</u>)	
Stable fly (<u>Stomoxys calcitrans</u>)	Sweetpotato whitefly (<u>Bemisia tabaci</u>)	
Stalk borer (<u>Papaipema nebris</u>)	Sycamore lace bug (<u>Corythucha ciliata</u>)	
Stem nematodes 216	Sycamore tussock moth (<u>Halisidota harrisii</u>)	
Sticktight flea (<u>Echidnophaga gallinacea</u>)	Symphylans 397, 1113	
Stink bugs 161, 173, 228, 231, 457, 460, 712, 849, 857, 957, 983, 1046, 1053, 1140, (1197), 1207, 1241, 1289, 1347	Syrphid flies 1029	
Strawberry aphid (<u>Pentatrichopus fragaefolii</u>)		
Strawberry crown moth (<u>Ramosia bionipennis</u>)	Tabanids 81, 530, 588, 657, 692, 729, 767, 802, 837, 871, 929, 963, 997, 1027	
Strawberry leaf roller (<u>Ancylis comptana fragariae</u>)	Tachina flies 185, 660	
Strawberry root aphid (<u>Aphis forbesi</u>)	Tarnished plant bug (<u>Lygus lineolaris</u>)	
Strawberry root weevil (<u>Brachyrhinus ovatus</u>)	Tawny garden slug (<u>Limax flavus</u>)	
Strawberry rootworm (<u>Paria fragariae</u>)	Tea scale (<u>Fiorinia theae</u>)	
Strawberry sawflies 614	Tent caterpillars 474, 525, 608	
Strawberry spider mite (<u>Tetranychus atlanticus</u>)	Termites 46, 80, 184, 309, 323, 324, 367, 404, 439, 470, 474, 483, 496, 531, 564, 693, 736, 872, 954, 965, 998, 1272, 1351, 1355	
Strawberry weevil (<u>Anthonomus signatus</u>)	Terrapin scale (<u>Lecanium nigrofasciatum</u>)	
Straw itch mite (<u>Pyemotes ventricosus</u>)	Texas citrus mite (<u>Eutetranychus banksi</u>)	
Striped cucumber beetle (<u>Acalymma vittata</u>)	Texas leaf-cutting ant (<u>Atta texana</u>)	
Striped flea beetle (<u>Phyllotreta striolata</u>)	Three-cornered alfalfa hopper (<u>Spissistilus festinus</u>)	
Striped horse fly (<u>Tabanus lineola</u>)	Three-lined potato beetle (<u>Lema trilineata</u>)	
Striped mealybug (<u>Ferrisia virgata</u>)	Three-spotted flea beetle (<u>Disonycha triangularis</u>)	
Subterranean termites 143, 287, 404, 1028, 1219, 1410	Thirteen-spotted lady beetle (<u>Hippodamia tredecimpunctata tibialis</u>)	
Suckfly (<u>Cyrtopeltis notatus</u>)	Thief ant (<u>Solenopsis molesta</u>)	
Sudan durra bug (<u>Agonoscelis versicolor</u>)	Thrips 30, 79, 81, 83, 135, 140, 154, 167, 168, 174, 202, 269, 281, 283, 319, 397, 399, 402, 429, 456, 461, 463, 489, 490, 494, 515, 519, 522, 555, 561, 576, 580, 582, 583, (593),	
Sugar-beet crown borer (<u>Hulstia undulata</u>)		
Sugar-beet root aphid (<u>Pemphigus betae</u>)		
Sugar-beet root maggot (<u>Tetanops myopaeformis</u>)		
	Thurberia weevil (<u>Anthonomus grandis thurberiae</u>)	
	Ticks 74, 220, 469, 622, 692, 768, 1187, (1281), (1282)	
	Tiger swallowtail (<u>Papilio glaucus</u>)	
	Tile-horned prionus (<u>Prionus imbricornis</u>)	
	Tip moths 254, 721, 1149	
	Tobacco budworm (<u>Heliothis virescens</u>)	
	Tobacco flea beetle (<u>Epitrix hirtipennis</u>)	
	Tobacco hornworm (<u>Protoparce sexta</u>)	
	Tobacco thrips (<u>Frankliniella fusca</u>)	
	Tobacco wireworm (<u>Conoderus vespertinus</u>)	
	Tobacco wireworms 463	
	Tomato fruitworm (<u>Heliothis zea</u>)	
	Tomato hornworm (<u>Protoparce quinquemaculata</u>)	
	Tomato pinworm (<u>Keiferia lycopersicella</u>)	
	Tomato psyllid (<u>Paratrioza cockerelli</u>)	
	Tomato russet mite (<u>Aculus lycopersici</u>)	
	Toothed flea beetle (<u>Chaetocnema denticulata</u>)	
	Tortoise beetles 694	
	Treehoppers 406	
	Trombidid mites 369	
	Tropical fowl mite (<u>Ornithonyssus bursa</u>)	
	Tropical rat mite (<u>Ornithonyssus bacoti</u>)	
	Tuber flea beetle (<u>Epitrix tuberis</u>)	
	Tule beetle (<u>Agonum maculicolle</u>)	
	Tulip bulb aphid (<u>Anuraphis tulipae</u>)	
	Tuliptree aphid (<u>Macrosiphum liriodendri</u>)	
	Tuliptree scale (<u>Toumeyella liriodendri</u>)	
	Tumid spider mite (<u>Tetranychus tumidus</u>)	
	Turnip aphid (<u>Hyadaphis pseudobrassicae</u>)	
	Turnip maggot (<u>Hyalemya floralis</u>)	
	Turnip moth (<u>Agrotis segetum</u>)	
	Tussock moths 526, 993	
	Twelve-spotted melon beetle (<u>Epilachna chrysomelina</u>)	
	Twice-stabbed lady beetle (<u>Chilocorus stigma</u>)	
	Twig girdler (<u>Oncideres cingulata</u>)	
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(*Enchenopa binotata*)
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Two-striped grasshopper
(*Melanoplus bivittatus*)
Two-striped walkingstick
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Unspotted tentiform leaf miner^o
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(*Incisitermes minor*)
Western flower thrips
(*Franklinella occidentalis*)
Western grape leaf skeletonizer
(*Harrisina brillians*)
Western harvester ant
(*Pogonomyrmex occidentalis*)
Western hemlock looper
(*Lambdina fiscellaria lugubrosa*)
Western oak looper
(*Lambdina fiscellaria somnaria*)
Western peach tree borer
(*Sanninoidea exitiosa graefi*)
Western pine beetle
(*Dendroctonus brevicomis*)
Western potato flea beetle
(*Epitrix subcrinita*)
Western raspberry fruitworm
(*Byturus bakeri*)
Western spotted cucumber beetle
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(*Reticulitermes hesperus*)
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(*Malacosoma pluviale*)
Western tussock moth
(*Hemerocampa vetusta*)
Western yellow-striped armyworm
(*Prodenia praefica*)
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(*Nacerdes melanura*)
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(*Anisoplia austriaca*)
Wheat curl mite
(*Aceria tulipae*)
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(*Faronta diffusa*)
Wheat jointworm
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Corrections in Volume 13

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45	Coccids in Florida: Line 1: <i>Diaspis boisduvalli</i> should read <i>Diaspis boisduvalii</i> . Line 3: <i>Diaspis echinococcus</i> should read <i>Diaspis echinocacti</i> .	431	EUROPEAN RED MITE should read EUROPEAN RED MITE (<i>Panonychus ulmi</i>).
65	Coccids in Florida: Line 6 from bottom: <i>Diaspis boisduvalli</i> should read <i>Diaspis boisduvalii</i> .	465	LEAF ROLLER MOTHS - NEW YORK - <i>Argyrotaenia semipurpurana</i> should read <i>Argyrotoxa semipurpurana</i> .
77	Other Field Crop Insects: Line 2: A PYRALID (<i>Nephoteryx</i> sp.) should read A <u>PHYCITID</u> (<i>Nephoteryx</i> sp.).	499	STRIPED BLISTER BEETLE (<i>Epicauta vittata</i>) should read A BLISTER BEETLE (<i>Epicauta</i> sp.).
77	Ornamental and Forest Insects: Line 6: A MEMBRACID (<i>Oxyrachis tarandus</i>) should read (<i>Oxyrhachis tarandus</i>).	528	LEAF ROLLER MOTHS - LOUISIANA - <i>Archips infumatana</i> should read <i>Archips infumatana</i> .
83	Line 7: .a PLANT-FEEDING LADY BEETLE (<i>Epilachna fulvsignata</i>)... should read (<i>Epilachna fulvosignata</i>).	536	A PYRALID MOTH (<i>Cryptoblabes aliena</i>) should read A <u>PHYCITID</u> MOTH (<i>Cryptoblabes aliena</i>).
97	PEACH FRUIT MOTH (<i>Carposina nipponensis</i> (Wlsm.)) should read (<i>Carposina niponensis</i> (Wlsm.)).	554	STRAWBERRY LEAF ROLLER (<i>Archips comptana fragariae</i>) should read (<i>Ancyliis comptana fragariae</i>).
106	EASTERN TENT CATERPILLAR (<i>Malacosoma americana</i>) should read (<i>Malacosoma americanum</i>).	619	APHIDS: Line 3 from bottom: <i>Melanocallis kahawaluokalani</i> should read <i>Myzocallis kahawaluokalani</i> .
135	Paragraph 1, line 3: .a CECIDOMYIID should read a <u>CECIDOMYIID</u> .	676	A CRANBERRY FRUITWORM (<i>Epiglaea apiata</i>) should read A CRANBERRY <u>BLOSSOMWORM</u> (<i>Epiglaea apiata</i>).
171	Paragraph 4, line 1: <i>Amblyseus</i> sp. should read <i>Amblyseius</i> sp.	688	COCCIDS - ALABAMA - <i>Neolecanium parvucornum</i> should read <i>Neolecanium cornuparvum</i> .
171	Paragraph 5: A BUD MITE (<i>Aceria paracalifornicus</i>) should read (<i>Aceria paracalifornica</i>).	714	COLORADO POTATO BEETLE: Line 4: (<i>Doryphorophaga dorypharae</i>) should read (<i>Doryphorophaga doryphorae</i>).
186	Paragraph 5, line 1: ...a large SPIDER (<i>Agriope</i> sp.)... should read (<i>Argiopo</i> sp.).	721	WHITE-SPOTTED SAWYER (<i>Monochamus scutellarus</i>) should read (<i>Monochamus scutellatus</i>).
242	Sweetpotato Insects - Highlights: Line 3: <i>Rhyssomatus palmacollis</i> should read <i>Rhyssomatus palmicollis</i> .	729	TABANIDS - FLORIDA - <i>Agristocerus megerlei</i> should read <i>Agkistrocerus megerlei</i> .
280	SNAILS - OREGON - <i>Oxychilus dreparnaldi</i> should read <i>Oxychilus draparnaldi</i> .	731	LADY BEETLES: Line 3: <i>Coccinella sanguinea</i> should read <i>Cycloneda sanguinea</i> .
288	CORRECTIONS - CEIR 13(11):232 and 240 - <i>Onychirus</i> should read <i>Onychiurus</i> .	762	CATALPA SPHINX (<i>Ceratomia catalpae</i>) should read (<i>Ceratomia catalpae</i>).
298	Paragraph 3, line 4: <i>T. fulvulus</i> var. <i>pallidescens</i> should read <i>T. fulvulus</i> var. <i>pallidescens</i> .	769	AN ICHNEUMON (<i>Megarhyssa</i> sp.) should read (<i>Megarhyssa</i> sp.).
306	Paragraph 3, line 1: (<i>Gnathotrichus materiarius</i>) should read (<i>Gnathotrichus materiarius</i>).	804	SCIARID MIDGES (<i>Sciaria</i> spp.) should read (<i>Sciara</i> spp.).
306	Last paragraph, last line: (<i>Ceuthophilus</i> spp.) should read (<i>Ceuthophilus</i> spp.).	868	COCCIDS - PENNSYLVANIA - <i>Diaspis liquidambaris</i> should read <i>Aspidiotus liquidambaris</i> .
311	Line 3: <i>Dendrobiella aspara</i> should read <i>Dendrobiella aspera</i> .	944	Paragraph 1, line 6: <i>Junonia coenia</i> should read <i>Junonia evarete coenia</i> .
338	Paragraph 6, line 7: ...a FLEA BEETLE (<i>Systema marginella</i>) should read (<i>Systema marginalis</i>).	987	TORTOISE BEETLES - <i>Metriona bivittata</i> should read <i>Agroiconota bivittata</i> .
348	Paragraph 3, line 1: <i>Eucosma sonoma</i> should read <i>Eucosma sonomana</i> .	999	A TYROGLYPHID MITE (<i>Aleuroglyphus ovatus</i>) should read AN <u>ACARID</u> MITE (<i>Aleuroglyphus ovatus</i>).
365	COCCIDS - MARYLAND - <i>E. euonymi</i> should read <u>U. euonymi</u> .	1014	A SPRINGTAIL (<i>Onychiurus fimentarius</i>) should read (<i>Onychiurus fimetarius</i>).
373	Paragraph 3, line 1: <i>Planococcus citri</i> should read <u>Pseudococcus</u> <i>citri</i> .	1025	A COCKSCOMB GALL (<i>Trishormomyia crataegifolia</i>) should read (<i>Trishormomyia crataegifolia</i>).
380	ERIOPHYID MITES: Lines 7 and 8: <i>Paracalcarus podocarpi</i> should read <i>Paracalacarus podocarpi</i> .	1080	AN EPHYRID FLY (<i>Psilopa leucostoma</i>) should read AN EPHYRID FLY (<i>Psilopa leucostoma</i>).
416	Paragraph 2, line 8: (<i>Glarensis knausi</i>) should read (<i>Glarensis knausi</i>).	1118	NOTODONTID MOTHS - KANSAS - <i>Schizura ipomeae</i> should read <i>Schizura ipomoeae</i> .
		1151	A CERAMBYCID BEETLE (<i>Glycobius speciosus</i>) should read <u>SUGAR-MAPLE BORER</u> (<i>Glycobius speciosus</i>).

Page	Correction	Page	Correction
1152	First paragraph, line 2: A geometrid moth should read <u>BRUCE SPANWORM</u> .	1223	AN ANTHRIBID BEETLE (<u>Araecorynus cumingi</u>). should read (<u>Araecorynus cumingi</u>).
1154	A NOTODONTID MOTH (<u>Schizura ipomeae</u>) should read (<u>Schizura ipomeae</u>).	1225	Line A. . . . , red-headed peanutworm should read . . . , red- <u>necked</u> peanutworm.
1159	A BUTTERFLY (<u>Cisseps fulvicollis</u>) should read A <u>SYNTOMID MOTH</u> (<u>Cisseps fulvicollis</u>).	1293	CITRUS FLAT MITE (<u>Brevipalpus citri</u>) should read (<u>Brevipalpus lewisi</u>).
1188	DARKLING BEETLES - ALABAMA - <u>Letheticus oryzae</u> should read <u>Latheticus oryzae</u> .	1338	VESPID WASPS - VIRGINIA - <u>Vespa maculifrons</u> should read <u>Vespula maculifrons</u> .
1211	CYCLAMEN MITE (<u>Stenotarsonemus pallidus</u>) should read (<u>Stenotarsonemus pallidus</u>).		

