

# Carlsbad Caverns

National Park Service  
U.S. Department of the Interior

Carlsbad Caverns National Park  
New Mexico



## Preliminary List of Known Insects of Carlsbad Caverns National Park *Through 2006*



This is a very preliminary list that does not begin to fully reflect the insect diversity at Carlsbad Caverns NP. It has been compiled by park biologists from the park's scant museum collection and various other sources, including researchers and specialists who have generously shared their observations informally or in publications, including Eric Metzler (Lepidoptera, moths), Robert Larsen (Odonata), Shann Stringer (Diptera, Chironomidae), John Abbott (Odonata, misc.), Stephen Cary and Richard Holland (Lepidoptera, butterflies), Gavin Emmons (Lepidoptera, butterflies), Nick Grishin (Lepidoptera and Diptera), Ed Gage (Coleoptera, Cicindelidae), Bruce Walsh (Lepidoptera, moths), and others.

Question marks in the list denote taxonomic questions.

Perusal of this list will reveal many groups that are distinctly understudied.

## Known Insects of Carlsbad Caverns National Park

Order: **THYSANURA** (bristletails, silverfish)

Suborder: **Ectognatha**

Family: Nicoletiidae

no common name

unidentified Nicoletiidae

Suborder: **Entognatha**

Family: Campodeidae

dipluran

unknown

*Campodea folsomi*  
*Plusiocampa* sp.

Order: **COLLEMBOLA** (springtails)

springtail

unidentified Collembolan

Order: **ODONATA** (dragonflies, damselflies)

Suborder: **Anisoptera** (dragonflies)

Family: Aeshnidae (darners)

arroyo darner

blue-eyed darner

shadow darner

common green darner

giant darner

*Aeshna dugesi*  
*Aeshna multicolor*  
*Aeshna umbrosa*  
*Anax junius*  
*Anax walsinghami*

Family: Gomphidae (clubtails)

white-belted ringtail

yellow-legged ringtail

eastern ringtail

sulphur-tipped clubtail

brimstone clubtail

orange shadowdragon

dot-winged baskettail

*Erpetogomphus compositus*  
*Erpetogomphus crotalinus*  
*Erpetogomphus designatus*  
*Gomphus militaris*  
*Stylurus intricatus*  
*Neurocordula xanthosoma*  
*Epithea petechialis*

Family: Libellulidae (common skimmers)

four-spotted pennant

pale-faced clubskimmer

checkered setwing

swift setwing

black setwing

eastern pondhawk

*Brachymesia gravida*  
*Brechmorhoga mendax*  
*Dythemis fugax*  
*Dythemis velox*  
*Dythemis nigrescens*  
*Erythemis simplicicollis*

western pondhawk	<i>Erythemis collocata</i>
Comanche skimmer	<i>Libellula comanche</i>
bleached skimmer	<i>Libellula composita</i>
neon skimmer	<i>Libellula croceipennis</i>
widow skimmer	<i>Libellula luctuosa</i>
twelve-spotted skimmer	<i>Libellula pulchella</i>
flame skimmer	<i>Libellula saturata</i>
marl pennant	<i>Macrodiplax balteata</i>
roseate skimmer	<i>Orthemis ferruginea</i>
blue dasher	<i>Pachydiplax longipennis</i>
red rock skimmer	<i>Paltothermis lineatipes</i>
wandering glider	<i>Pantala flavescens</i>
spot-winged glider	<i>Pantala hymenaea</i>
eastern amberwing	<i>Perithemis tenera</i>
desert whitetail	<i>Plathemis subornata</i>
filigree skimmer	<i>Pseudoleon superbus</i>
variegated meadowhawk	<i>Sympetrum corruptum</i>
saffron-winged meadowhawk	<i>Sympetrum costiferum</i>
yellow-legged meadowhawk	<i>Sympetrum vicinum</i>
black saddlebags	<i>Tramea lacerata</i>
red saddlebags	<i>Tramea onusta</i>

Suborder: **Zygoptera** (damselflies)

Family: Calopterygidae (broad-winged damselflies)

American rubyspot	<i>Hetaerina americana</i>
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Family: Lestidae (spread-winged damselflies)

great spreadwing	<i>Archilestes grandis</i>
plateau spreadwing	<i>Lestes alacer</i>

Family: Coenagrionidae (narrow-winged damselflies)

damselfly	unknown Coenagrionidae
blue-fronted dancer	<i>Argia apicalis</i>
variable dancer	<i>Argia fumipennis violacea</i>
lavender dancer	<i>Argia hinei</i>
Kiowa dancer	<i>Argia immunda</i>
Leonora's dancer	<i>Argia leonorae</i>
sooty dancer	<i>Argia lugens</i>
powdered dancer	<i>Argia moesta</i>
Aztec dancer	<i>Argia nahuana</i>
springwater dancer	<i>Argia plana</i>
blue-ringed dancer	<i>Argia sedula</i>
dusky dancer	<i>Argia translata</i>
vivid dancer	<i>Argia vivida</i>
double-striped bluet	<i>Enallagma basidens</i>
boreal bluet	<i>Enallagma boreale</i>
tule bluet	<i>Enallagma carunculatum</i>
familiar bluet	<i>Enallagma civile</i>
painted damselfly	<i>Hesperagrion heterodoxum</i>
desert forktail	<i>Ischnura barberi</i>
Plains forktail	<i>Ischnura damula</i>

black-fronted forktail	<i>Ischnura denticollis</i>
desert firetail	<i>Telebasis salva</i>

Order: **ORTHOPTERA** (grasshoppers, crickets, mantids, cockroaches)

Suborder: **Caelifera**

Family: Acrididae (short-horned grasshoppers)

band-winged grasshopper	unidentified Acrididae
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Subfamily: Cyrtacanthacridinae

black-males grasshopper	<i>Boopedon nubilum</i>
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Subfamily: Melanoplinae

grasshopper	<i>Agroecotettix modestus crypsidomus</i>
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two-striped grasshopper	<i>Melanoplus bivittatus</i>
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glaucous-legged grasshopper	<i>Melanoplus glaucipes</i>
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grasshopper	<i>Melanoplus lakinus</i>
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grasshopper	<i>Melanoplus</i> sp.
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pictured grasshopper	<i>Dactylotum pictum</i>
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gray bird locust	<i>Schistocerca vaga</i>
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white-lined bird grasshopper	<i>Schistocerca albolineata</i>
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Subfamily: Romaleinae (lubber grasshoppers)

robust toad lubber	<i>Phrynotettix robustus</i>
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Chihuahua toad lubber	<i>Phrynotettix tshivavensis</i>
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Subfamily: Acridinae (slant-faced grasshoppers)

slant-faced grasshopper	<i>Syrbula fuscovittata</i>
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Texas slant-faced grasshopper	<i>Mermiria texana</i>
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striped slant-faced grasshopper	<i>Amphitornus coloradus coloradus</i>
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Subfamily: Oedipodinae (band-winged grasshoppers)

band-winged grasshopper	<i>Arphia aberrans</i> ?
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band-winged grasshopper	<i>Trimerotropis strenna</i> ?
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pallid-winged grasshopper	<i>Trimerotropis pallidipennis</i>
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blue-winged grasshopper	<i>Leprus intermedius</i>
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blue-winged grasshopper	<i>Leprus wheeleri</i>
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great crested grasshopper	<i>Tropidolophus formosus</i>
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great crested grasshopper	<i>Hippopedon capito</i>
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band-winged grasshopper	unidentified Oedipodinae
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Suborder: **Ensifera**

Family: Tettigoniidae (long-horned grasshoppers)

giant shield-backed cricket	<i>Capnobotes fuliginosus</i>
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short-winged katydid	<i>Dichopetala brevihastata</i>
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katydid	unidentified Tettigoniidae
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katydid	unknown Phaneropterinae
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Mormon cricket	unidentified Decticeidae
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Family: Gryllacrididae (camel crickets)

Subfamily: Rhabdophoridae (cave or camel crickets)

Carlsbad cave cricket	<i>Ceuthophilus carlsbadensis</i>
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cave cricket	<i>Ceuthophilus longipes</i>
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cave cricket	<i>Ceuthophilus conicaudus</i>
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	Family: <u>Gryllidae</u> (crickets)	
	Subfamily: Oecanthinae (tree crickets)	
	narrow-winged tree cricket	<i>Oecanthinus niveus</i>
	Subfamily: Gryllinae (field and house crickets)	
	field cricket	<i>Acheta assimilis</i>
Suborder: <b>Mantodea</b>		
	Family: <u>Mantidae</u> (mantids)	
	California mantis	<i>Stagmomantis californica</i>
	bordered mantis	<i>Stagmomantis limbata</i>
	praying mantis	<i>Stagmomantis</i> spp.
Suborder: <b>Phasmatodea</b>		
	Family: <u>Phasmatidae</u> (walkingsticks)	
	walkingstick	<i>Diapheromera</i> sp.
Suborder: <b>Blattodea</b>		
	Family: <u>Blattidae</u> (cockroaches)	
	desert cockroach	<i>Parcoblatta</i> sp.
	Oriental cockroach	<i>Blatta orientalis</i>
	American cockroach	<i>Periplaneta americana</i>
	brown-banded cockroach	<i>Supella longipalpa</i>
	cockroach	unknown Blattidae
Order: <b>ISOPTERA</b> (termites)		
	Family: <u>Termitidae</u> (desert termites)	
	western subterranean termite	<i>Reticulitermes hesperus</i>
	termite	<i>Amitermes</i> spp.
Order: <b>DERMAPTERA</b> (earwigs)		
	Family: <u>Labiduridae</u> (long-horned earwigs)	
	striped earwig	<i>Labidura riparia</i>
Order: <b>PSOCOPTERA</b> (booklice and barklice)		
	unidentified	unidentified Psocoptera
Order: <b>HOMOPTERA</b> (true bugs, cicadas, hoppers, aphids)		
	Suborder: <b>Gymnocerata</b> (long-horned bugs)	
	Family: <u>Gerridae</u> (water striders)	
	water strider	<i>Gerris</i> sp.
	Family: <u>Cimicidae</u> (bed bugs, swallow bugs)	
	bed bug	unidentified
	Family: <u>Miridae</u> (leaf or plant bugs)	
	plant bug	<i>Adelphocoris superbus</i>
	plant bug	<i>Lopidae</i> sp.
	Family: <u>Phymatidae</u> (ambush bugs)	
	jagged ambush bug	<i>Phymata erosa</i>
	ambush bug	unidentified Phymatidae

Family: <u>Reduviidae</u> (assassin bugs)	
bee assassin bug	<i>Spiomerus spissipes</i>
black corsair	<i>Melanolestes picipes</i>
assassin bug	<i>Melanolestes picipes abdomina</i>
assassin bug	<i>Castolus subinermis</i>
assassin bug	<i>Arilus cristatus</i>
bloodsucking conenose	<i>Triatoma gerstaeckeri</i>
Family: <u>Lygaeidae</u> (seed bugs)	
seed bug	<i>Lygaeus lateralis</i>
seed bug	<i>Lygaeus admirabilis</i>
milkweed bug	<i>Oncopeltus fasciatus</i>
Family: <u>Pyrrhocoridae</u> (red bugs)	
red bugs	unknown Pyrrhocoridae
Family: <u>Coreidae</u> (leaf-footed bugs)	
giant mesquite bug	<i>Thasus acutangulus</i>
cactus bug	<i>Chelinidea vittiger aequoris</i>
leaf-footed bug	<i>Leptoglossus chincha ?</i>
leaf-footed bug	<i>Leptoglossus clypealis</i>
leaf-footed bug	<i>Catorhintha selector</i>
leaf-footed bug	<i>Mozena obtusa</i>
leaf-footed bug	<i>Narnia pallidicornis</i>
squash bug	<i>Anasa tristis</i>
Family: <u>Alydidae</u> (broad-headed bugs)	
broad-headed bug	unidentified Alydidae
Superfamily: Scutelleroidea	
Family: <u>Cydnidae</u> (burrower bugs)	
burrower bug	<i>Cyrtomenus mirabilis</i>
burrower bug	<i>Pangaeus bilinaetus</i>
burrower bug	<i>Pangaeus</i> sp.
burrower bug	unidentified Cydnidae
Family: <u>Scutelleridae</u> (shield-backed bugs)	
shield-backed bug	<i>Homaemus</i> sp.
shield-backed bug	unknown Scutelleridae
Family: <u>Pentatomidae</u> (stink bugs)	
stink bug	<i>Chlorochroa ligata</i>
harlequin bug	<i>Murgantia histrionica</i>
unidentified	unidentified Pentatomidae
Suborder: <b>Auchenorrhyncha</b> (cicadas and hoppers)	
Superfamily: Cicadoidea (cicadas and leafhoppers)	
Family: <u>Cicadidae</u> (cicadas)	
cicada	<i>Beameria venosa</i>
cicada	<i>Diceroprocta eugraphica</i>
cicada	<i>Diceroprocta</i> sp.
cicada	<i>Cacama valvata</i>
cicada	unknown Cicadidae

<p>Family: <u>Cicadellidae</u> (leafhoppers)  yellow-headed leafhopper  leafhopper  leafhopper  leafhopper  leafhopper  leafhopper</p>	<p><i>Draeculacephala antica</i>  <i>Paraphlepsius lascivius</i>  <i>Cuerna</i> sp.  <i>Delphacodes</i> sp.  <i>Deltocephalus grex</i>  <i>Flexamia</i> sp.</p>
<p>Family: <u>Coelidiinae</u>  leafhopper</p>	<p>unknown Coelidiinae</p>
<p>Superfamily: Fulgoroidea (planthoppers)  Family: <u>Fulgoridae</u>  fulgorid planthopper</p>	<p><i>Poblicia fuliginosa</i></p>
<p>Family: <u>Cixiidae</u>  planthopper</p>	<p><i>Oliarus</i> sp.</p>
<p>Suborder: <b>Sternorrhyncha</b> (whiteflies, aphids, scale insects)  Family: <u>Psyllidae</u> (psyllids)  hackberry nipplegall maker  nipplegall maker</p>	<p><i>Pachypsylla celtidismamma</i>  <i>Pachypsylla</i> sp.</p>
<p>Family: <u>Aphididae</u> (aphids)  aphid</p>	<p>unknown Aphididae</p>
<p>Superfamily: Coccoidea (scale insects) – several families  soft scale  mealybug</p>	<p><i>Lecanium</i> sp.  unknown Pseudococcidae</p>
<p>Order: <b>NEUROPTERA</b> (fishflies, snakeflies, lacewings, antlions)  Suborder: <b>Planipennia</b> (antlions, lacewings)  Superfamily: Hemerobioidea (mantidflies)  Family: <u>Mantispidae</u> (mantidflies)  mantidfly  mantidfly</p>	<p><i>Climaciella brunnea</i>  <i>Mantispa cincticornis</i></p>
<p>Superfamily: Myrmeleontoidea (antlions and owlflies)  Family: <u>Myrmeleontidae</u> (antlions)  antlion  antlion</p>	<p><i>Paranthaclisis hageni</i>  unknown Myrmeleontidae</p>
<p>Order: <b>COLEOPTERA</b> (beetles)  Suborder: Adephaga  Superfamily: Caraboidea  Family: <u>Cicindelidae</u> (tiger beetles)  Pan-American big-headed  tiger beetle</p>	<p><i>Megacephala carolina</i> (<i>Tetracha carolina</i>)  <i>Cicindela punctulata</i>  <i>Cicindela punctulata chihuahuae</i>  <i>Cicindela politula petrophila</i>  <i>Cicindela politula viridimonticola</i></p>
<p>punctured tiger beetle  Chihuahuan tiger beetle  Guadalupe Mountains tiger beetle  limestone tiger beetle</p>	

limestone tiger beetle	<i>Cicindela politula calcaricola</i>
ocellated tiger beetle	<i>Cicindela ocellata rectilatera</i>
white-striped tiger beetle	<i>Cicindela lemniscata</i>
white-striped tiger beetle	<i>Cicindela lemniscata rebaptisata</i>
tiger beetle	<i>Cicindela lemniscata (rufipes ?)</i>
tiger beetle	<i>Cicindela flavopunctata (rectilatera ?)</i>
<u>Family: Carabidae</u> (ground beetles)	
cave beetle	<i>Rhadine longicollis</i>
ground beetle	<i>Calosoma lecontei</i>
ground beetle	<i>Calosoma peregrinator</i>
ground beetle	<i>Calosoma</i> sp.
ground beetle	<i>Harpalus caliginosus</i>
ground beetle	<i>Scarites subterraneus</i>
ground beetle	<i>Discoderus impotens</i>
ground beetle	<i>Discoderus species</i>
ground beetle	<i>Pasimachus</i> sp.
ground beetle	unidentified Carabidae
<u>Family: Haliplidae</u> (crawling water beetles)	
crawling water beetle	unknown Haliplidae
<u>Family: Dytiscidae</u> (predaceous diving beetles)	
predaceous diving beetle	<i>Dytiscus verticalis</i>
Superfamily: Hydrophiloidea	
<u>Family: Histeridae</u> (hister beetles)	
hister beetle	<i>Saprinus lugens</i>
<u>Family: Hydrophilidae</u> (water scavenger beetles)	
water scavenger beetle	<i>Hydrophilus triangularis</i>
water scavenger beetle	<i>Hydrophilus</i> sp.
Superfamily: Staphylinoidea	
<u>Family: Silphidae</u> (carrion beetles)	
carrion beetle	<i>Thanatophilus truncata</i>
<u>Family: Staphylinidae</u> (rove beetles)	
rove beetle	<i>Creophilus maxillosus</i>
rove beetle	<i>Bolitobius</i> sp.
Superfamily: Cantharoidea	
<u>Family: Cantharidae</u> (soldier beetles)	
soldier beetle	<i>Chauliognathus</i> sp.
<u>Family: Lampyridae</u> (lightning bugs or fireflies)	
firefly	<i>Photuris</i> sp.
<u>Family: Lycidae</u> (net-winged beetles)	
net-winged beetle	<i>Calopteron reticulatus</i>
net-winged beetle	<i>Lycus</i> sp.



Superfamily: Cleroidea		
	<u>Family: Dermestidae</u> (dermestid beetles)	
	dermestid beetle	<i>Dermestes marmoratus</i>
	dermestid beetle	<i>Anthrenus verbasci</i>
	<u>Family: Dasytidae</u> (soft-winged flower beetles)	
	soft-winged flower beetle	unknown Dasytidae
	<u>Family: Cleridae</u> (checkered beetles)	
	checkered beetle	<i>Trichodes</i> sp.
Superfamily: Elateroidea		
	<u>Family: Elateridae</u> (click beetles)	
	eyed click beetle	<i>Alaus oculatus</i>
	click beetle	<i>Conoderus vespertinus</i>
	click beetle	<i>Lacon</i> sp.
	click beetle	unidentified Elateridae
	<u>Family: Buprestidae</u> (metallic wood-boring beetles)	
	metallic wood-boring beetle	<i>Psiloptera drummondi</i>
	metallic wood-boring beetle	<i>Chrysobothris</i> sp.
	metallic wood boring beetle	unknown Buprestidae
Superfamily: Cucujoidea		
	<u>Family: Coccinellidae</u> (ladybird beetles)	
	ladybird beetle	<i>Hippodamia convergens</i>
	ladybird beetle	<i>Anisocalvia</i> sp.
	ladybug	unidentified Coccinellidae
	<u>Family: Oedemeridae</u> (false blister beetles)	
	false blister beetle	<i>Oxacis cana</i>
	false blister beetle	<i>Oxacis</i> sp.
	false blister beetle	unknown Oedemeridae
Superfamily: Meloidea		
	<u>Family: Meloidae</u> (blister beetles)	
	blister beetle	<i>Epicauta albida</i>
	blister beetle	<i>Epicauta immaculata</i>
	blister beetle	<i>Epicauta sericans</i>
	blister beetle	<i>Epicauta diversipubescens</i>
	blister beetle	<i>Epicauta atrivittata</i>
	blister beetle	<i>Epicauta</i> spp.
	blister beetle	<i>Nemognatha</i> spp.
	blister beetle	<i>Pleuropompha costata</i>
	blister beetle	<i>Lytta</i> sp.
	blister beetle	unidentified Meloidae
Superfamily: Mordelloidea		
	<u>Family: Mordellidae</u> (tumbling flower beetles)	
	tumbling flower beetle	<i>Mordellistena</i> spp.

Superfamily: Tenebrionoidea

Family: Tenebrionidae (darkling beetles)

darkling beetle	<i>Argoporis</i> spp.
darkling beetle	<i>Asida</i> sp.
darkling beetle	<i>Bothrotes</i>
darkling beetle	<i>Eleodes eschscholtzii</i>
darkling beetle	<i>Eleodes</i> sp.
darkling beetle	<i>Embaphion</i> ( <i>blaisdelli</i> ?)
darkling beetle	<i>Embaphion</i> spp.
darkling beetle	<i>Stenomorpha</i> sp.
darkling beetle	unknown Tenebrionidae

Family: Alleculidae (comb-clawed beetles)

comb-clawed beetle	<i>Isomira</i> spp.
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Superfamily: Scarabaeoidea

Family: Scarabaeidae (scarab beetles)

scarab beetle	<i>Cyclocephala hirta</i>
scarab beetle	<i>Diplotaxis carbonata</i>
scarab beetle	<i>Diplotaxis belfragei</i>
scarab beetle	<i>Diplotaxis</i> sp.
scarab beetle	<i>Euphoria kerni</i>
scarab beetle	<i>Polyphylla hammondi</i>
scarab beetle	<i>Anomala luteipennis</i>
scarab beetle	<i>Ligyris gibbosus</i>
scarab beetle	<i>Serica</i> sp.
dung roller beetle	<i>Canthon imitator</i>
scarab beetle	unidentified Scarabaeidae

Subfamily: Scarabaeinae (dung beetles and tumblebugs)

dung beetle	<i>Archophileurus cribrosus</i>
dung beetle	<i>Canthon punctaticollis</i>
dung beetle	<i>Canthon imitator</i>
dung beetle	<i>Orizabus</i> spp.
dung beetle	<i>Phanaeus</i> sp.
dung beetle	unidentified Scarabaeinae

Subfamily: Aphodiinae (aphodian dung beetles)

dung beetle	<i>Aphonides dunnianus</i>
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Subfamily: Troginae (skin beetles)

skin beetle	<i>Trox suberosus</i>
skin beetle	<i>Trox integer</i>
skin beetle	<i>Trox</i> spp.
carcass beetle	<i>Omorgus</i> sp.

Subfamily: Melolonthinae (June beetles, chafers)

june bug	unidentified Melolonthinae
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Subfamily: Rutelinae (shining leaf chafers)

shining leaf chafer	<i>Plusiotis beyeri</i>
shining leaf chafer	<i>Plusiotis gloriosa</i>

shining leaf chafer beetle	<i>Plusiotis woodii</i> <i>Rhombonalia cavifrons</i>
Subfamily: Cetoniinae (flower beetles)	
flower beetle	<i>Cotinis (obliqua ?)</i>
flower beetle	<i>Cotinis (arizonica ?)</i>
flower beetle	<i>Cotinis texana</i>
flower beetle	unidentified Cetoniinae
Superfamily: Cerambycidae	
<u>Family: Cerambycidae</u> (long-horned beetles)	
long-horned beetle	<i>Cyrtinus beckeri</i>
long-horned beetle	<i>Haplidus laticeps</i>
long-horned beetle	<i>Neoclytus acuminatus hesperus</i>
long-horned beetle	<i>Peranoplium piceum</i>
long-horned beetle	<i>Rhopalophora longipes meeskei</i>
long-horned beetle	<i>Tetraopes femoratus</i>
long-horned beetle	<i>Tylosis jiminezi</i>
long-horned beetle	<i>Tylosis maculatus</i>
long-horned beetle	<i>Prionus imbricornus</i>
horned prionus	<i>Prionus</i> sp.
cactus beetle	<i>Moneilema armata</i>
long-horned beetle	<i>Moneilema</i> spp.
twig pruner	<i>Hypermallus</i> spp.
long-horned beetle	<i>Derobrachus geminatus</i>
long-horned beetle	<i>Stenaspis solitaria</i>
long-horned beetle	<i>Batyle suturalis</i>
long-horned beetle	<i>Anelaphus piceum</i>
long-horned beetle	<i>Taranomis bivittatus</i>
long-horned beetle	<i>Taranomis bivittata bivittata</i>
long-horned beetle	<i>Crossidius militaris</i>
long-horned beetle	<i>Crossidius pulchellus</i>
long-horned beetle	<i>Crossidius intermedius</i>
long-horned beetle	<i>Oxoplus (jocosus ?)</i>
long-horned beetle	<i>Sapderda concolor</i>
cottonwood borer	<i>Sapderda</i> sp.
unidentified	unidentified Cerambycidae
long-horned beetle	unknown Lamiinae
Superfamily: Chrysomeloidea	
<u>Family: Chrysomelidae</u> (leaf beetles)	
Subfamily: Galerucinae	
spotted cucumber beetle	<i>Diabrotica undecimpunctata howardi</i>
spotted cucumber beetle	<i>Diabrotica tricincta</i>
Subfamily: Eumolpinae	
dogbane beetle	<i>Chrysochus auratus</i>
Subfamily: Alticinae	
flea beetle	unknown Alticinae

Subfamily: Chrysomelinae	
leaf beetle	<i>Calligrapha serpentina</i>
leaf beetle	<i>Calligrapha</i> sp.
<u>Family: Bruchidae</u> (seed beetles)	
seed beetle	<i>Mimosestes sallaei</i>
seed beetle	unknown Bruchidae
Superfamily: Curculionoidea	
<u>Family: Curculionidae</u> (snout beetles)	
snout beetle	<i>Rhynchites eximius</i>
snout beetle	<i>Rhynchites mexicanus</i>
snout beetle	<i>Baris strenua</i>
snout beetle	<i>Onychobaris mystica</i>
snout beetle	unknown Curculionidae
broad-nosed weevil	unknown Tanmecinae
Order: <b>LEPIDOPTERA</b> (butterflies and moths)	
Superfamily: <b>Papilionidae</b> (butterflies)	
<u>Family: Papilioninae</u> (swallowtails)	
pipevine swallowtail	<i>Battus philenor</i>
giant swallowtail	<i>Papilio cressphontes</i>
two-tailed swallowtail	<i>Papilio multicaudata</i>
King Ornythion swallowtail	<i>Papilio ornythion</i>
black swallowtail	<i>Papilio polyxenes</i>
<u>Family: Pieridae</u> (whites, sulfurs, and orange-tips)	
Subfamily: Pierinae (whites)	
cabbage white	<i>Pieris rapae</i>
checkered white	<i>Pontia protodice</i>
Subfamily: Coliadinae (sulfurs)	
orange sulfur	<i>Colias eurytheme</i>
clouded sulfur	<i>Colias philodice</i>
boisduval's yellow	<i>Eurema boisduvaliana</i>
Mexican yellow	<i>Eurema mexicana</i>
sleepy orange	<i>Eurema nicippe</i>
lyside sulfur	<i>Kricogonia lyside</i>
dainty sulfur	<i>Nathalis iole</i>
large orange sulfur	<i>Phoebis agarithe</i>
cloudless sulfur	<i>Phoebis sennae</i>
southern dogface	<i>Zerene cesonia</i>
<u>Family: Lycaenidae</u> (gossamer-winged butterflies)	
Subfamily: Theclinae (hairstreaks)	
great purple hairstreak	<i>Atlides halesus</i>
Henry's elfin	<i>Callophrys (Incisalia) henrici</i>
juniper hairstreak	<i>Callophrys (Mitoura) gryneus</i>
thicket hairstreak	<i>Callophrys (Mitoura) spinetorum</i>
Sandia hairstreak	<i>Callophrys (Sandia) mcfarlandi</i>
Poling's hairstreak	<i>Fixsenia polingi</i>
leda ministreak	<i>Ministrymon leda</i>

gray hairstreak

*Strymon melinus*

Subfamily: Plebeinae (blues)

western pygmy-blue

*Brephidum exile*

spring azure

*Celastrina ladon*

ceraunus blue

*Hemiargus ceraunus*

Reakirt's blue

*Hemiargus isola*

marine blue

*Leptotes marina*

Melissa blue

*Lycaeides melissa*

acmon blue

*Plejebus (Icaricia) acmon*

cyna blue

*Zizula cyna*

Family: Riodinidae (metalmarks)

fatal metalmark

*Calephelis nemesis* (incl. *guadaluope*)

Family: Nymphalidae (brush-footed butterflies)

Subfamily: Libytheinae

American snout

*Libytheana carinenta*

Subfamily: Heliconiinae

gulf fritillary

*Agraulis (Dione) vanillae*

variegated fritillary

*Euptoieta claudia*

zebra

*Heliconius charitonius*

Subfamily: Nymphalinae

white peacock

*Anartia jatrophae*

definite patch

*Chlosyne definita* (incl. *anastasia*)

crimson patch

*Chlosyne janais*

bordered patch

*Chlosyne lacinia*

tiny checkerspot

*Dymasia dymas* (incl. *chara*)

common buckeye

*Junonia coenia*

tropical buckeye

*Junonia genoveva*

dark buckeye

*Junonia nigrosuffusa*

mourning cloak

*Nymphalis antiopa*

Phaon crescent

*Phyciodes phaon*

painted crescent

*Phyciodes pictus*

Texas crescent

*Phyciodes texana*

pearl crescent

*Phyciodes tharos*

vesta crescent

*Phyciodes vesta*

question mark

*Polygonia interrogationis*

malachite

*Siproeta stelenes*

fulvia checkerspot

*Thessalia fulvia*

West Coast lady

*Vanessa annabella*

red admiral

*Vanessa atalanta*

painted lady

*Vanessa cardui*

American lady

*Vanessa virginiensis*

Subfamily: Limentidinae

California sister

*Adelpha bredowii*

viceroy

*Limentis archippus*

desert viceroy

*Limentis archippus obsoleta*

“astyanax” red-spotted purple	<i>Limentis arthemis astyanas</i> (incl. <i>arizonensis</i> )
common mestra	<i>Mestra amymone</i>
Subfamily: Charaxinae	
goatweed butterfly	<i>Anaea andria</i>
tropical leafwing	<i>Anaea trolodyta</i> (incl. <i>aidea</i> )
Subfamily: Apaturinae	
hackberry emperor	<i>Asterocampa celtis</i>
tawny emperor	<i>Asterocampa clyton texana</i>
Subfamily: Satyrinae	
Mead’s wood nymph	<i>Cercyonis meadii</i>
canyonland satyr	<i>Cyllopsis pertepida</i>
red satyr	<i>Megisto rubricata</i>
Subfamily: Danainae	
queen	<i>Danaus gilippus</i>
monarch	<i>Danaus plexippus</i>
<u>Family: HesperIIDae</u> (skippers)	
Subfamily: Pyrginae	
common streaky-skipper	<i>Celotes nesus</i>
sleepy duskywing	<i>Erynnis brizo</i>
funereal duskywing	<i>Erynnis funeralis</i>
meridian duskywing	<i>Erynnis meridianus</i>
Rocky Mountain duskywing	<i>Erynnis telemachus</i>
mournful duskywing	<i>Erynnis tristis</i>
common sootying	<i>Pholisora catullus</i>
white checkered-skipper	<i>Pyrgus albescens</i>
common checkered-skipper	<i>Pyrgus communis</i>
small checkered-skipper	<i>Pyrgus scriptura</i>
Texas powdered skipper	<i>Systasea pulverulenta</i>
northern cloudywing	<i>Thorybes pylades</i>
unidentified skipper	unknown Pyrginae
Subfamily: HesperIinae (common skippers)	
bronze roadside-skipper	<i>Amblyscirtes aenus</i> (incl. <i>erna</i> )
dotted roadside-skipper	<i>Amblyscirtes eos</i>
nysa roadside-skipper	<i>Amblyscirtes nysa</i>
Oslar’s roadside-skipper	<i>Amblyscirtes oslari</i>
simius roadside-skipper	<i>Amblyscirtes simius</i>
Texas roadside-skipper	<i>Amblyscirtes texanae</i>
Delaware skipper	<i>Anatrytone logan</i> (=delaware)
tropical least skipper	<i>Ancyloxypha arene</i>
sachem	<i>Atalopedes campestris</i>
python skipper	<i>Atrytonopsis python</i>
Viereck’s skipper	<i>Atrytonopsis vierecki</i>
orange skipperling	<i>Copaeodes aurantiacia</i>
dun skipper	<i>Euphyes vestris</i> (=ruricola)
green skipper	<i>Hesperia viridis</i>

Apache skipper	<i>Hesperia woodgatei</i>
fiery skipper	<i>Hylephila phyleus</i>
clouded skipper	<i>Lerema accius</i>
eufala skipper	<i>Lerodea eufala</i>
Edwards' skipperling	<i>Oarisma edwardsii</i>
Morrison's skipper	<i>Stinga morrisoni</i>

Subfamily: Megathyminae (giant skippers)

Viola's ursine yucca giant-skipper	<i>Megathymus ursus</i> (incl. <i>violae</i> )
Mary's lechuguilla giant-skipper	<i>Agathymus mariae mariae</i>
Carlsbad agave skipper	<i>Agathymus neumoegeni carlsbadensis</i>

Family: Sphingidae (sphinx or hawk moths)

white-lined sphinx	<i>Celerio lineata</i>
western lesser vine sphinx	<i>Pholus vitis</i>
achemon sphinx	<i>Pholus achemon</i>
five-spotted hawk moth	<i>Manduca quinquemaculata</i>
small-eyed sphinx	<i>Paonias myops</i>

Family: Saturniidae (wild silkworm moths)

Subfamily: Hemileucinae (buck and io moths)

io moth	<i>Automeris io</i>
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Subfamily: Citheroniinae (royal moths)

Oslar's oakworm moth	<i>Anisota oslari</i>
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Subfamily: Saturniinae (giant silkworm moths)

Dyar's Agapema moth	<i>Agapema anona dyari</i>
New Mexico range caterpillar	<i>Agapema galbina</i>

Family: Notodontidae (prominents)

walnut caterpillar	<i>Datana integerrima</i>
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Family: Arctiidae (tiger moths)

wasp moth	<i>Ctenucha venosa</i>
tiger moth	<i>Dysschema howardi</i>
tiger moth	<i>Daritis thetis</i>
tiger moth	<i>Apantesis proxima</i>
tiger moth	<i>Arachnis zuni</i>
salt-marsh caterpillar	<i>Estigmene acraea</i>
fall webworm	<i>Hyphantria cunea</i>
fall webworm	<i>Hyphantria</i> sp.
fall webworm	<i>Pygarctia spraguei</i>
tiger moth	<i>Halysidota (Halysidota) davisii</i>
tiger moth	<i>Halysidota (Halysidota) tessellaris</i>
tiger moth	unknown Arctiidae

Family: Noctuidae (owlet moths)

black witch moth	<i>Erebus (Ascalapha) odorata</i>
black witch moth	<i>Erebus</i> sp.
noctuid moth	<i>Catocala</i> spp.
noctuid moth	<i>Xerociris wilsonii</i>
noctuid moth	unknown Noctuidae

Subfamily: Stiriinae moth	<i>Stiria blanchardi</i>
Family: <u>Lymantriidae</u> (tussock moths) tussock moth tussock moth	<i>Hemerocampa</i> spp. unknown Lymantriidae
Family: <u>Sesiidae</u> (clear-winged moths) clear-winged moth wasp moth clear-winged moth	<i>Aegeria</i> sp. unknown Sesiidae unknown Sesiidae
Family: <u>Acrolophidae</u> (clothes moths) cloths moth	<i>Acrolophus</i> sp.
Family: <u>Prodoxidae</u> (yucca moths) yucca moth	<i>Mesepiola specca</i>
Order: <b>DIPTERA</b> (flies)	
Suborder: <b>Nematocera</b>	
Family: <u>Tipulidae</u> (crane flies) crane fly	<i>Holorusia grandis</i>
Family: <u>Culicidae</u> (mosquitoes) mosquito mosquito mosquito mosquito mosquito mosquito mosquito	<i>Culex stigmatosoma</i> <i>Culex</i> sp. <i>Aedes vexans</i> <i>Aedes</i> sp. <i>Psorophora ciliata</i> <i>Psorophora signipennis</i> unknown Culicidae
Family: <u>Chironomidae</u> (true midges) midge	<i>Chironomus decorus</i>
Subfamily: Tanypodinae (Procladiini) no common name	<i>Procladius</i> sp.
Subfamily: Tanypodinae (Pentaneurini) no common name no common name no common name	<i>Ablabesmyia</i> sp. <i>Labrundinia</i> sp. <i>Paramerina</i> sp.
Subfamily: Orthocladiinae (Corynoneurini) no common name no common name	<i>Corynoneura</i> sp. <i>Thienemanniella</i> sp.
Subfamily: Orthocladiinae (Orthocladiini/Metrioconemini) no common name no common name	<i>Cricotopus</i> sp. <i>Limnophyes</i> sp.
Subfamily: Chironominae (Chironomini) no common name no common name	<i>Dicrotendipes</i> sp. <i>Lauterborniella</i> sp.



no common name  
no common name  
no common name

*Paratendipes* sp.  
*Phaenopsectra* sp.  
*Polypedilum* sp.

Subfamily: Orthocladiinae (Tanytarsini)

no common name  
no common name  
no common name  
no common name  
no common name  
no common name  
no common name

*Micropsectra* sp.  
*Nimbocera* sp.  
*Paratanytarsus* sp.  
*Rheotanytarsus* sp.  
*Stempellinella* sp.  
*Tanytarsus* A  
*Tanytarsus* B  
*Tanytarsus* C

Family: Simuliidae (black flies)  
black fly

*Simulium vittatum*

Family: Mycetophilidae (fungus gnats)  
fungus gnat

*Rhymosia* spp.

Family: Cecidomyiidae(gall gnats)  
gall gnat

unknown Cecidomyiidae

Suborder: **Brachycera**

Family: Stratiomyidae (soldier flies)  
soldier fly  
soldier fly

*Hoplitimyia constans*  
*Hedriodiscus truquii*

Family: Scenopinidae (window flies)  
window fly

*Scenopinus fenestralis*

Family: Asilidae (robber flies)  
robber fly  
robber fly  
robber fly  
robber fly  
robber fly  
robber fly

*Diogmites* spp.  
*Promachus magnus*  
*Promachus* sp.  
*Asilus* sp.  
*Erax* spp.  
unknown species

Family: Bombyliidae (bee flies)  
bee fly  
bee fly  
bee fly  
bee fly  
bee fly  
bee fly

*Exoprosopa capucina*  
*Paravilla* sp.  
*Lepidanthrax* sp.  
*Anastoechus nitidulus*  
*Anastoechus* sp.  
unknown Bombyliidae

Family: Dolichopodidae (long-legged flies)  
long-legged fly  
long-legged fly  
long-legged fly  
long-legged fly

*Sympycans hastatus*  
*Paraclius* spp.  
*Plagioneurus* sp.  
unknown Dolichopodidae

Suborder: **Cyclorrhapha**

Family: Phoridae (humpbacked flies)  
humpbacked fly

*Diplonevra* sp.

Family: Syrphidae (syrphid flies)

syrphid fly  
syrphid fly  
syrphid fly  
syrphid fly  
syrphid fly  
syrphid fly  
syrphid fly  
syrphid fly  
syrphid fly  
syrphid fly

*Volucella avida*  
*Volucella haagii*  
*Volucella caudate*  
*Volucella satur*  
*Volucella marginata*  
*Volucella* sp.  
*Allograpta obliqua*  
*Tubifera latifrons*  
*Mesogramma polita*  
(*Esuriens* sp. ?)

Family: Otitidae (picture-winged flies)  
picture-winged fly

*Paroedopa punctigera*

Family: Tephritidae (fruit flies)  
fruit fly

unknown Tephritidae

Family: Sepsidae (black scavenger flies)  
black scavenger fly

*Sepsis* spp.

Family: Heleomyzidae (heleomyzid flies)  
no common name

*Suillia barberi*

Family: Ephydriidae(shore flies)  
shore fly  
shore fly

*Parydra appendiculata*  
(*Paracatela trisetata* ?)

Family: Anthomyiidae (anthomyiid flies)  
anthomyiid fly

*Pegomya longimana*

Family: Muscidae (muscid flies)  
little house fly  
muscid fly  
dump fly  
muscid fly  
muscid fly  
seedcorn maggot

*Fannia canicularis*  
*Phaonia* sp.  
*Ophyra leucostoma*  
*Helina* sp.  
*Coenosia* sp.  
*Hylemya cilicrura*

Family: Tachinidae (tachinid flies)

tachinid fly  
tachinid fly  
tachinid fly  
tachinid fly  
tachinid fly  
tachinid fly  
tachinid fly  
tachinid fly

*Acantholespesia comstocki*  
*Ptilodexia* spp.  
*Paradidyma singularis*  
*Nemorilla floralis*  
*Euphorocera tachinomoides*  
*Peleteria* sp.  
*Microphthalma disjuncta*  
*Belvosia bifasciata*

Family: Calliphoridae (blow flies)

blow fly  
blow fly  
blow fly  
screwworm fly

*Calliphora vicina*  
*Phormia regina*  
*Aldrichina grahami*  
*Callitroga macellaria*

Family: Sarcophagidae (flesh flies)

flesh fly (grasshopper maggot)  
flesh fly

*Sarcophaga kellyi*  
*Sarcophaga plinthopyga*

Family: Sphaeroceridae (small dung flies)

small dung fly  
small dung fly

*Leptocera fontinalis*  
*Leptocera* sp.

Order: **SIPHONAPTERA** (fleas)

flea  
flea

unknown Siphonaptera  
(*Sternopsyllus texanus* ?)

Family: Pulicidae (common fleas)

human flea  
flea

*Pulex irritans*  
unknown Pulicidae

Order: **HYMENOPTERA** (ants, wasps, bees)

Suborder: **Apocrita** (parasites, ants, wasps, bees)

Superfamily: Ichneumonoidea

Family: Brachonidae (braconids)

braconid wasp

*Vipio* sp.

Superfamily: Bethyloidea

Family: Chrysididae (cuckoo wasps)

cuckoo wasp

*Chrysis inflata*

Superfamily: Scoliioidea (ants and parasitic wasps)

Family: Scoliidae (scoliid wasps)

scoliid wasp

*Scolia* sp.

Family: Mutillidae (velvet ants)

velvet ant  
velvet ant  
velvet ant  
velvet ant

*Dasymutilla klugii*  
*Dasymutilla creusa*  
*Photopsis* sp.  
unknown Mutillidae

Family: Formicidae (ants)

army ant  
army ant  
army ant  
western harvester ant  
red harvester ant

*Neivamyrmex fuscipennis*  
*Neivamyrmex arizonense*  
*Neivamyrmex minor*  
*Pogonomyrmex occidentalis*  
*Pogonomyrmex barbatus*

Subfamily: Dolichoderinae

velvety tree ant

*Liometopum occidentale luctuosum*

Superfamily: Vespoidea (vespoid wasps)	
<u>Family: Pompilidae</u> (spider wasps)	
spider wasp	<i>Hemipepsis ustulata</i>
spider wasp	<i>Hemipepsis</i> sp.
spider wasp	<i>Pepsis angustimarginata</i>
spider wasp	<i>Pepsis thisbe</i>
tarantula wasp	<i>Pepsis formosus</i>
spider wasp	<i>Pepsis</i> sp.
<u>Family: Vespidae</u> (vespid wasps)	
vespid wasp	<i>Stenodynerus toltecus</i>
vespid wasp	<i>Stenodynerus superpendentis</i>
Subfamily: Eumeninae (potter wasps)	
potter wasp	unknown Eumeninae
Subfamily: Polistinae (paper wasps)	
paper wasp	<i>Polistes fuscatus texanus</i>
paper wasp	<i>Polistes exclamans</i>
paper wasp	<i>Polistes hunteri</i>
paper wasp	<i>Polistes rubiginosus</i>
Superfamily: Sphecoidea (sphecoid wasps)	
<u>Family: Sphecidae</u> (sphecid wasps)	
sphecid wasp	unknown Sphecidae
Subfamily: Larrinae (sand-loving wasps)	
sand-loving wasp	<i>Tachytes sayi</i>
Subfamily: Trypoxyloninae (organ-pipe mud-daubers)	
mud-daubers	unknown Trypoxyloninae
Subfamily: Sphecinae (thread-waisted wasps)	
thread-waisted wasp	<i>Sphex aberti</i>
thread-waisted wasp	<i>Sphex breviceps</i>
thread-waisted wasp	<i>Sphex breviceps pruinosus</i>
thread-waisted wasp	<i>Sphex placidus</i>
thread-waisted wasp	<i>Sphex procerus</i>
thread-waisted wasp	<i>Chlorion elegans</i>
thread-waisted wasp	<i>Chlorion pubidorsum</i>
thread-waisted wasp	<i>Chlorion</i> sp.
thread-waisted wasp	<i>Sceliphron caementaria</i>
thread-waisted wasp	<i>Sceliphron</i> sp.
thread-waisted wasp	<i>Chalybion zimmermanni</i>
thread-waisted wasp	<i>Chalybion californicus</i>
Subfamily: Nyssoninae	
cicada killer	<i>Sphecius speciosus</i>
Superfamily: Apoidea (bees)	
<u>Family: Colletidae</u> (yellow-faced and plasterer bees)	
plasterer bee	<i>Colletes</i> sp.

Family: Andredidae (andrenid bees)

andrenid bee  
andrenid bee  
andrenid bee

*Andrena mellea*  
*Andrena* spp.  
*Perdita megacephala*

Family: Halictidae (halictid bees)

halictid bee  
halictid bee  
halictid bee

*Agapostemon radiatus*  
*Halictus (Lasioglossum) bardus*  
*Halictus* spp.

Family: Megachilidae (leafcutting bees)

leafcutting bee  
leafcutting bee  
leafcutting bee  
leafcutting bee  
leafcutting bee  
leafcutting bee

*Anthidium maculosum*  
*Hemisia (morsei ?)*  
*Megachile polycaris*  
*Megachile texana*  
*Lithurge apicalis*  
unknown Megachilidae

Family: Apidae (bumble, honey bees)

honey bee  
bumble bee  
bee

*Apis mellifera*  
*Bombus* sp.  
*Centris caesalpinae*

Family: Anthophoridae (digger, cactus, carpenter bees)

bee  
cactus bee  
cactus bee  
digger bee  
digger bee  
digger bee  
carpenter bee  
digger bee

*Martinapis luteicornis*  
*Diadasia australis*  
*Diadasia rinconis*  
*Melissodes tristis*  
*Melissodes suffusa*  
*Exomalopsis solidaginis*  
*Xylocopa arizonensis*  
*Tetralonia* sp.

Carpenter bee on buckwheat flowers photo, NPS Photo by Kristin Dorman-Johnson.