

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: Rhabdiphoridae (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: Mantodea		
	Family: <u>Mantidae</u> (mantids)	
	California mantis	<i>Stagmomantis californica</i>
	bordered mantis	<i>Stagmomantis limbata</i>
	praying mantis	<i>Stagmomantis</i> spp.
Suborder: Phasmatodea		
	Family: <u>Phasmatidae</u> (walkingsticks)	
	walkingstick	<i>Diapheromera</i> sp.
Suborder: Blattodea		
	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: ISOPTERA (termites)		
	Family: <u>Termitidae</u> (desert termites)	
	western subterranean termite	<i>Reticulitermes hesperus</i>
	termite	<i>Amitermes</i> spp.
Order: DERMAPTERA (earwigs)		
	Family: <u>Labiduridae</u> (long-horned earwigs)	
	striped earwig	<i>Labidura riparia</i>
Order: PSOCOPTERA (booklice and barklice)		
	unidentified	unidentified Psocoptera
Order: HOMOPTERA (true bugs, cicadas, hoppers, aphids)		
	Suborder: Gymnocerata (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

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

<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)</p>	
<p>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: Sternorrhyncha (whiteflies, aphids, scale insects)</p>	
<p>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: NEUROPTERA (fishflies, snakeflies, lacewings, antlions)</p>	
<p>Suborder: Planipennia (antlions, lacewings)</p>	
<p>Superfamily: Hemerobioidea (mantidflies)</p>	
<p>Family: <u>Mantispidae</u> (mantidflies) mantidfly mantidfly</p>	<p><i>Climaciella brunnea</i> <i>Mantispa cincticornis</i></p>
<p>Superfamily: Myrmeleontoidea (antlions and owlflies)</p>	
<p>Family: <u>Myrmeleontidae</u> (antlions) antlion antlion</p>	<p><i>Paranthaclisis hageni</i> unknown Myrmeleontidae</p>
<p>Order: COLEOPTERA (beetles)</p>	
<p>Suborder: Adephaga</p>	
<p>Superfamily: Caraboidea</p>	
<p>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>

Family: Carabidae (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

Family: Haliplidae (crawling water beetles)

crawling water beetle	unknown Haliplidae
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Family: Dytiscidae (predaceous diving beetles)

predaceous diving beetle	<i>Dytiscus verticalis</i>
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Superfamily: Hydrophiloidea

Family: Histeridae (hister beetles)

hister beetle	<i>Saprinus lugens</i>
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Family: Hydrophilidae (water scavenger beetles)

water scavenger beetle	<i>Hydrophilus triangularis</i>
water scavenger beetle	<i>Hydrophilus</i> sp.

Superfamily: Staphylinoidea

Family: Silphidae (carrion beetles)

carrion beetle	<i>Thanatophilus truncata</i>
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Family: Staphylinidae (rove beetles)

rove beetle	<i>Creophilus maxillosus</i>
rove beetle	<i>Bolitobius</i> sp.

Superfamily: Cantharoidea

Family: Cantharidae (soldier beetles)

soldier beetle	<i>Chauliognathus</i> sp.
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Family: Lampyridae (lightning bugs or fireflies)

firefly	<i>Photuris</i> sp.
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Family: Lycidae (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: LEPIDOPTERA (butterflies and moths)	
Superfamily: Papilionidae (butterflies)	
<u>Family: Papilioninae</u> (swallowtails)	
pipevine swallowtail	<i>Battus philenor</i>
giant swallowtail	<i>Papilio cresphontes</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

Brephidium 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: Heliconinae

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: Hesperiiinae (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 eupala</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 neumogeni 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: DIPTERA (flies)	
Suborder: Nematocera	
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/Metricnemini) 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	<i>Paratendipes</i> sp.
no common name	<i>Phaenopsectra</i> sp.
no common name	<i>Polypedilum</i> sp.

Subfamily: Orthocladiinae (Tanytarsini)

no common name	<i>Micropsectra</i> sp.
no common name	<i>Nimbocera</i> sp.
no common name	<i>Paratanytarsus</i> sp.
no common name	<i>Rheotanytarsus</i> sp.
no common name	<i>Stempellinella</i> sp.
no common name	<i>Tanytarsus</i> A
no common name	<i>Tanytarsus</i> B
no common name	<i>Tanytarsus</i> 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.