

Ants (Hymenoptera: Formicidae) of Mount Diablo State Park, Contra Costa Co., California
Report for 2019

Philip S. Ward
Department of Entomology and Nematology
UC Davis, Davis, CA 95616
psward@ucdavis.edu

This is a synopsis of the ant species known from Mount Diablo State Park, Contra Costa County, California, based on collections by P. S. Ward and students, as well as specimen records in the Bohart Museum of Entomology (UCDC) and the Essig Museum of Entomology, UC Berkeley (EMEC).

In 2019 one additional ant species (*Temnothorax rudis*) was discovered in the park, bringing the total to 47 species. Observations were also made of the extent of penetration of the park by the exotic Argentine ant (*Linepithema humile*). This species was previously known from the lower portion of Donner Canyon, and from the Macedo Ranch park entrance. In 2019 it was discovered along the Sycamore Creek Road up to an elevation of 265 m (37.83602-121.91724). Above this elevation only native ants were encountered.

List of species

Subfamily, species	Nesting habits (A = arboreal) (G = ground)	Feeding habits (O = omnivore/scavenger) (P = predator) (S = seed-harvester)
Amblyoponinae		
<i>Stigmatomma pallipes</i>	G	P
Dolichoderinae		
<i>Dorymyrmex insanus</i>	G	O
* <i>Linepithema humile</i>	G	O
<i>Liometopum occidentale</i>	A	O
<i>Tapinoma sessile</i>	G	O
Dorylinae		
<i>Neivamyrmex californicus</i>	G	P
<i>Neivamyrmex nigrescens</i>	G	P
Formicinae		
<i>Brachymyrmex depilis</i>	G	O
<i>Camponotus anthrax</i>	G	O
<i>Camponotus dumetorum</i>	G	O
<i>Camponotus essigi</i>	A	O
<i>Camponotus hyatti</i>	G	O
<i>Camponotus maritimus</i>	G	O
<i>Camponotus quercicola</i>	A	O
<i>Camponotus semitestaceus</i>	G	O
<i>Camponotus vicinus</i>	G	O
<i>Formica aserva</i>	G	O (& slave-maker)
<i>Formica moki</i>	G	O
<i>Formica subelongata</i>	G	O
<i>Formica subpolita</i>	G	O
<i>Lasius atopus</i> nr	G	O
<i>Prenolepis imparis</i>	G	O
Myrmicinae		
<i>Aphaenogaster occidentalis</i>	G	O
<i>Aphaenogaster</i> us-ca01	G	O
<i>Crematogaster coarctata</i>	G	O
<i>Crematogaster marioni</i>	A	O
<i>Crematogaster mutans</i>	G	O
<i>Cyphomyrmex wheeleri</i>	G	O (& fungus-grower)
<i>Pheidole californica</i>	G	S & O
<i>Pogonomyrmex subdentatus</i>	G	S & O
<i>Solenopsis molesta</i>	G	O
<i>Solenopsis xyloni</i>	G	O

<i>Stenamma californicum</i>	G	P
<i>Stenamma mgb101</i>	G	P
<i>Stenamma mgb101_nr</i>	G	P
<i>Stenamma punctatoventre</i>	G	P
<i>Stenamma punctatoventre_nr</i>	G	P
<i>Stenamma sequoiarum_nr</i>	G	P
<i>Temnothorax andrei</i>	G	O
<i>Temnothorax caguatan</i>	A	O
<i>Temnothorax gallae</i>	A	O
<i>Temnothorax nitens</i>	G	O
<i>Temnothorax rudis</i>	G	O
<i>Veromessor andrei</i>	G	S & O
Ponerinae		
<i>Hypoponera opacior</i>	G	P
<i>Hypoponera CA01</i>	G	P
Pseudomyrmeiinae		
<i>Pseudomyrmex apache</i>	A	O

* Introduced species

Additional species recorded at nearby Black Diamond Regional Preserve, Contra Costa Co. (leg. PSW) and hence to be expected at Mount Diablo:

Myrmecocystus mimicus
Myrmecocystus testaceus