

Study Guide for USFWS Casey's June Beetle Practical Examination

This practical examination is administered to those potentially qualified applicants who seek to apply, renew, or amend a federal 10(a)(1)(A) permit for Casey's June beetle (*Dinacoma caseyi*). Permit applicants should have the ability to identify scarab beetles to family. Individuals should be familiar with genera of common nocturnal scarabs likely to be encountered during their surveys, including: *Cyclocephala*, *Diplotaxis*, *Serica*, and *Tomarus* (formerly, *Ligyris*). Rarely, *Polyphylla decemlineata* (the ten-lined June beetle) is found in the Palm Springs area. Likewise, applicants should be familiar with *Polyphylla cavifrons*, though it is not known to be sympatric with Casey's June beetle. *Polyphylla cavifrons* is known from nearby desert riparian areas.

List of scarab genera permit applicants should be able to identify: *Dinacoma*; *Parathyce*, *Polyphylla*; *Cyclocephala*; *Tomarus* (= *Ligyris*); *Coenonycha*; *Serica*; *Phyllophaga*; *Phobetus*, *Diplotaxis*; *Cotinis*; *Aphodius*.

References:

Field Guide to Beetles of California

Arthur V. Evans and James N. Hogue (2006)

American Beetles, Volume II: Polyphaga: Scarabaeoidea through Curculionoidea

Ross H. Arnett and M. C. Thomas (2002)

Links:

- *Dinacoma caseyi* (<http://bugguide.net/node/view/479463>)
- *Dinacoma "marginata"* (<http://bugguide.net/node/view/480816>)
- *Phobetus saylori* (<http://bugguide.net/node/view/355015>)
- *Polyphylla decemlineata* (Ten-lined June beetle); <http://bugguide.net/node/view/214777>)
- Grayish *Phyllophaga* (common June beetles, e.g., <http://bugguide.net/node/view/426914>)
- *Cotinis mutabilis* (the "green June beetle"; <http://bugguide.net/node/view/561707>)