

AN ANNOTATED LIST OF THE CERAMBYCIDÆ OF CALIFORNIA. (COL).

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Not having noticed of late any list of California Cerambycidæ in any publication, I submit the following annotated list of that favourite family of collectors, the information gleaned from many fields and the note-books of many workers and collectors.

Acknowledgements are due to many of the Pacific Coast entomologists, for the greater part of the data on the insects contained in this list were obtained from their experience, particularly from Dr. Edwin C. Van Dyke. Several workers have kindly allowed me to examine their series, and a wider range of dates and localities has thus been obtained.

Many of the species I have collected in the various parts of the State during the past four years, a trip to Donner Lake and the surrounding section of the Sierras having been especially fruitful of results. Many others are unrepresented in my collection, but the data in this list on them has been procured from the collections and notes of others.

The longicorns of Lower California are included in the list because some of them are sometimes found not far from our borders, and may some day, or may have already, unknown to collectors, spread their territory into California proper.

Any changes in synonymy were suggested by Dr. E. C. Van Dyke last year while he was still on this coast. Examples of such changes are seen in numbers 100 and 69 of this list.

1. *Ergates spiculatus* LeConte.

This is found in Northern California and the Sierras. Taken by author at Donner Lake from pupal cells in yellow pine; also breeds in other coniferous trees. June 20–August 7.

2. *Mallodon mandibularis* Harold.

This probably occurs near Yuma, and is also found at San José del Cabo, Lower California.

3. *Mallodon melanopus* Linné.

This was taken from pupal cells beneath bark of mesquite near Indio, Riverside County.

4. *Derobrachus geminatus* LeConte.

This was taken at Palm Springs, Riverside County. Also present in Lower California. May 30.

5. *Prionus californicus* Motschulsky.

This is found throughout the State and works on the roots of the coast live oak, *Quercus agrifolia*. Common. May 22–October 8.

6. *Tragosoma depsarium* Linné [*harrisii* Leconte].

This works on tamarack and yellow pine in the Sierras, and is also found about other coniferous trees on several of which it is supposed to work. Taken by the author at Donner Lake beneath the bark of *Pinus ponderosa*. July 2.

Tragosoma pilosicornis Casey.

This is nothing more than a form of *T. depsarium*. Found on Mount Diablo.

7. *Asemum atrum* Eschscholtz.

This is very common in the northern part of the State and in the Sierras. This opaque species breeds in the Douglas Spruce (*Pseudotsuga taxifolia*). I took it abundantly early in July at Donner Lake and Tahoe Tavern. July 3–28.

8. *Asemum nitidum* LeConte.

At Monterey this works on *Pinus radiata*. It is also found in the Middle Sierras, Yosemite, and Tahoe. I have taken it along with *atrum* at Donner Lake and Tahoe Tavern. June 17–July 21.

9. *Nothorina aspera* LeConte.

This most probably works in coniferous trees. Found in Siskiyou County.

10. *Criocephalus productus* LeConte.

This beetle is found commonly throughout the northern part of the State, though but few specimens have been taken in Southern California. It works on *Pseudotsuga taxifolia*, and is supposed to work on grape-vine roots also. May 7–August 2.

11. *Criocephalus asperatus* LeConte.
This is found in the northern part of the State and the Sierras. It has been found flying around alpine fir. It probably breeds in coniferous trees, especially firs and spruces. July 20.
12. *Tetropium velutinum* LeConte.
This breeds in *Pseudotsuga taxifolia* and is moderately common in spruce forests north of San Francisco. A variety is found in the Giant Forest, Tulare County. June 1–August 9.
13. *Opsimus quadrilineatus* Mannerheim.
This breeds in *P. taxifolia* and is found from Alaska to San Francisco Bay. It probably also breeds in Sitka Spruce (*Picea sitchensis*).
14. *Dicentrus bluthneri* LeConte.
This is found in coast counties north of San Francisco and also rarely in the Sierras, near coniferous trees.
15. *Hylotrupes amethystinus* LeConte.
This is found in the Sierras from Shasta to Mt. San Bernardino, rarer in the South. Breeds in *P. ponderosa* and *Libocedrus decurrens*. Taken in numbers at Tamarack, Nevada County by the author. July 2.
16. *Hylotrupes ligneus* Fabricius.
Found through the Sierras, also in the Coast Range to Monterey. Taken by author on July 1 at Donner Lake. This breeds in *P. taxifolia* in the Sierras, *Pinus radiata* at Monterey, and probably in the sapwood of *Sequoia sempervirens* also.
17. *Hylotrupes litigiousus* Casey.
This so-called dark variety is a good species (teste Van Dyke). It breeds in the Sierra Fir near Forest Hill, Placer County.
18. *Phymatodes variabilis* Fabricius.
This is only found occasionally in imported wood.
19. *Phymatodes blandus* LeConte.
This is rarely found in Northern California. Supposed to breed in grape vine. July 16.

20. *Phymatodes obscurus* LeConte.
This is found throughout the State, and has been taken by the author at Auburn and Calistoga in August and May, respectively. It breeds in *Quercus agrifolia*. Has been reared from tan oak in Marin County by L. S. Smith, and from *Quercus lobata* in the Sonoma Valley by A. E. Wieslander. May 25–November 8.
21. *Phymatodes aeneus* LeConte.
This feeds on *P. taxifolia* and is found north of San Francisco.
22. *Phymatodes dimidiatus* Kirby.
This is a northern species, running over into this State in Trinity County. It breeds in *P. taxifolia*. July 2–August 23.
23. *Phymatodes vulneratus* LeConte.
This is quite rare, and probably breeds in oak and other soft woods. Has been beaten from *Q. agrifolia* by Van Dyke.
24. *Phymatodes varius* Fabricius.
Found from San Francisco Bay north. In Sonoma County it breeds in *Pseudotsuga taxifolia* and *Pinus radiata*. June 24.
25. *Phymatodes decussatus* LeConte.
Has been reared from white valley oak in Northern California. June 26.
26. *Phymatodes nitidus* LeConte.
Found from San Francisco Bay north. Reared from *Cupressus macrocarpa* by Nunenmacher and myself, from the sapwood of *Sequoia sempervirens* and *P. taxifolia* by Van Dyke. May 21.
27. *Phymatodes juglandis* Leng.
Taken from California walnut in Los Angeles County by Coquillett.
28. *Callidium antennatum* Newm.
This breeds in most coniferous trees, often being taken from *P. taxifolia*. Taken at San Francisco and north, also throughout the Sierras and in the San Bernardino

Mountains. Taken in abundance by the author at Willits in July. May 20–July 11.

29. *Callidium hirtellum* LeConte.
Found in the Sierras. Beaten from *P. taxifolia*, and also found about twigs of *Pinus ponderosa*. June 25–August 29.
30. *Callidium vile* LeConte.
Found near San Francisco and north. Is very rare. July 4.
31. *Xylocrius agassizii* LeConte.
This is rare in California and is a coast species. Works on gooseberry and has been beaten from willow by Van Dyke.
32. *Xylocrius cribratus* LeConte.
This is rare in California and is a Sierran species. July 17.
33. *Malacopterus lineatus* Guer.
Found along the Colorado River and out from Fort Yuma.
34. *Oeme costata* LeConte.
Found in Sierras. One taken by Van Dyke in Yosemite.
35. *Oeme strangulata* Horn.
Have no records regarding this species.
36. *Oeme gracilis* LeConte.
This has been taken by Fall and Van Dyke from Catalina Island and Los Angeles County.
37. *Eudistenia costipennis* Fall.
Five specimens have been taken by Dr. Fenyés and H. C. Fall near the summit of the Sierra Madre Mountains above Pasadena, and one by Baker near Claremont, being beaten from live oak, in which the insect probably breeds.
38. *Eucrossus villicornis* LeConte.
Found in Nevada, Arizona, and Inyo County, California. Fall has taken one in the San Bernardino Mts. Reported as attracted to light by Nunenmacher.

39. *Haplidus testaceus* LeConte.
One specimen has been taken by Van Dyke in Nevada County.
40. *Achryson surinamum* Linné.
Found normally in Southern Arizona; probably occurs in the Colorado desert. June 10–July 18. (Dates for Arizona).
41. *Hammacherus mexicanus* Thomson.
Found at Cape San Lucas, Lower California.
42. *Brothylus gemmulatus* LeConte.
This has been taken by Van Dyke on the beach at San Francisco and at Mt. Wilson, Los Angeles County.
43. *Brothylus conspersus* LeConte.
This rarity has been taken by Kusche on dead white valley oak in Sonoma County. It is found about San Francisco Bay and north.
44. *Osmidus guttatus* LeConte.
Taken at San José del Cabo, Lower California.
45. *Gnaphalodes trachyderoides* Thomson.
Taken at San José del Cabo, Lower California.
46. *Eburia ulkei* Bland.
Taken at Cape San Lucas, Lower California.
47. *Eburia conspersa* Horn.
Found at San José del Cabo, Lower California.
48. *Romaleum simplicolle* Hald.
Taken on Catalina Island by H. C. Fall, and at Santa Monica by E. C. Van Dyke.
49. *Romaleum seminitidum* Horn.
Taken by H. C. Fall along the Colorado River.
50. *Elaphidion punctatum* LeConte.
Taken at Cape San Lucas, Lower California.
51. *Elaphidion imbelle* LeConte.
Found in Sonoma and San Diego Counties. Has been bred by Dr. Blaisdell from live oak. June 16–August 3.
52. *Elaphidion albofasciatum* Linnell.
Taken by Coquillett in the foothills along the southern border of the Mojave Desert.

(To be continued)