

*melliger*, but such a physiological caste is still unknown in the subspecies *orbiceps*, *mendax*, *mimicus* and *semirufus* and in *M. lugubris* and *yuma*. All of these seem to be eminently predatory and insectivorous. The repletes of the typical *M. mexicanus* and its subspecies *mojave* have been studied by Leonard, and it is highly probable that the subspecies *navajo* presents very similar conditions.

I append a table for the identification of the workers of all the known species, subspecies and varieties of *Myrmecocystus* with some geographical and ethological notes and with descriptions of the new forms.

*Table of Myrmecocystus.*

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| 1. Mandibles 9-toothed; eyes larger; head and thorax and usually also the gaster yellow . . . . .  | 2   |
| Mandibles 7-toothed; eyes usually smaller; color always darker, head and thorax red or more or less infuscated. . . . .  | 5   |
| 2. Large forms, averaging more than 5 mm. . . . .  | 3   |
| Small forms, averaging less than 5 mm. . . . .   | 4   |
| 3. Head and thorax sordid yellow, gaster brown or blackish. . . <i>mexicanus</i> Wesmael.  |   |
| Head, thorax and gaster pure yellow. . . <i>mexicanus</i> var. <i>horti-deorum</i> MacCook.  |   |
| 4. Head narrow; pronotum longer than broad; base of epinotum very convex; erect hairs only on anterior surfaces of antennal scapes. . . <i>mexicanus navajo</i> Wheeler. |   |
| Head broader; pronotum as broad as long; base of epinotum less convex; whole of antennal scapes with erect hairs. . . . . <i>mexicanus mojave</i> Wheeler.               |   |
| 5. Large forms, averaging more than 4 mm.; stature very variable. . . . .  | 6   |
| Small forms, averaging less than 4 mm.; stature more constant. . . . .   | 13  |
| 6. Gaster opaque or subopaque, densely pubescent; length 7-9 mm. . . . .   | 7   |
| Gaster shining, with shorter and more dilute pubescence; length 4-6 mm. . . . .  | 10  |
| 7. Hairs and pubescence grayish, the latter short, not silvery; length 8-9 mm. . . . .   | <i>melliger</i> Forel.                              |
| Hairs and pubescence silvery, the latter longer; length 7-8 mm. . . . .  | 8   |
| 8. Head of largest workers large, orbicular. . . . . <i>melliger orbiceps</i> Wheeler.   |   |
| Head of largest workers smaller, rectangular. . . . .  | 9   |
| 9. Erect hairs shorter and less abundant, obtuse or subobtuse . . . . .  | <i>melliger mendax</i> Wheeler.                     |
| Erect hairs longer, more abundant, pointed . . . . .   | <i>melliger mendax</i> var. <i>comatus</i> Wheeler. |
| 10. Erect hairs nearly or quite lacking on antennal scapes. . . . .  | <i>melliger mimicus</i> var. <i>depilis</i> Forel.  |
| Erect hairs abundant on antennal scapes. . . . .   | 11  |