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Notes on Some Hymenoptera

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- L. viburni*, Sign., 1873, var.
Aspidiotus, Bouche.
A. hederæ, Vall., 1829.
A. aurantii, Mask., 1878.
A. perniciosus, Comst., 1881.
A. ancyclus, Putn., 1877.
A. ficus, Ashm., 1888.
A. cyanophylli, Sign., 1869.
A. articulatus, Morg., 1889.
A. Forbesi, Johnson, 1896.
A. Fernaldi, Ckll., 1898.
A. smilacis, Comst., 1883.
A. sp. prob. young of *A. dictyospermi*, Morg., 1889.
A. Crawii, Ckll., 1897.
Diaspis, Costa.
D. carneli, Targ., 1868.
D. amygdali, Tryon, 1889.
Aulacaspis, Ckll.
A. rosæ, Bouche, 1833.
A. bromeliæ, Kerner, 1788.
A. Boisduvalii, Sign., 1869.
A. elegans, Leon.
Parlatoria, Sign.
P. proteus, Curt., var. *Pergandii*, Comst., 1881.
P. zizyphus, Lucas, 1853.
P. (prob. proteus) var. crotonis, Ckll., 1895.
Mytilaspis, Sign.
M. pomorum, Bouche, 1851.
M. citricola, Pack, 1870.
M. Gloverii, Pack, 1869.
Pinnaspis, Ckll.
P. pandani, Comst., 1881.
Chionaspis, Sign.
C. furfurus, Fitch, 1856.
C. furfurus, var. *fulva*, King, 1899.
C. pinifoliæ, Fitch, 1855.
C. spartinæ, Comst., 1883.
C. Lintneri, Comst., 1883.
Ischnaspis, Dougl.
I. longirostris, Sign., 1882.
Fiorinia, Targ.
F. fioriniæ, Targ., 1867.

NOTES ON SOME HYMENOPTERA.

BY T. D. A. COCKERELL, N. M. AGR. EXP. STA.

Vespa diabolica, Sauss., mut. *Fernaldi* (Lewis).—Prof. C. H. T. Townsend collected last year some specimens of *V. diabolica* and *V. occidentalis* on the Rio Ruidoso, N. M. Among the former I find an example which exactly agrees with the description of *V. Fernaldi*, Lewis, but it is evidently only a form of *diabolica*.

Bembidula mesillensis, Ckll.—This was described as a variety of *B. capnoptera*, but the discovery of the female shows it to be a distinct species. The ♀ differs from the ♂ by having the thoracic markings cream-colour instead of deep yellow; the clypeus entirely creamy-yellow, it and the narrow lateral marks densely covered with silvery pubescence; the marks on scutellum round instead of pear-shaped; the anterior tarsi with a well-formed blackish comb. The last dorsal segment is strongly

punctured, with a smooth median line, and has a yellowish spot on each side. The lateral ridges are only indicated posteriorly, and that feebly. Legs as in the ♂, except for the tarsal comb. This ♀ was taken by Prof. Townsend at La Cueva, Organ Mts., N. M., 5,300 ft., Sept. 3, 1898, at flowers of *Lippia Wrightii*.

Sphecodes perlustrans, Ckll.—This was described from a single specimen; a second was taken at Mesilla Park, N. M., March 30th, 1899, by Mr. S. MacGregor. A new examination shows the mandibles to be notched, not simple as described.

Perdita grandiceps, Ckll.—Described from a single ♂. Prof. Townsend took 3 ♂ 1 ♀ (♂ ♀ in cop.) at flowers of *Fallugia paradoxa*, var. *acuminata*, Wooton, La Cueva, Organ Mts., N. M., Sept. 3rd, 1898. The ♀ runs to 21 in my *Perdita* table in Bull. Lab. Denison Univ., 1898, and to 23 in the table in Proc. Phila. Acad., 1896. It differs from *P. phymatæ* by its colourless nervures; from *P. verbesinæ*, var. *nigrior*, by being only 5 mm. long; from *P. sidæ* by having the flagellum pale ochreous (instead of orange) beneath, the upper edge of the clypeus not at all whitish, the mesothorax more bare, with considerably shorter hairs, and the marginal cell broader in proportion to its length. From the ♂ *grandiceps* it differs by having the head of ordinary shape and size, the cheeks unarmed, and the face wholly without light markings. The tip of the abdomen is brownish-orange.

Melissodes grindeliæ, Ckll.—To the localities for this species must be added Los Vegas, N. M., where I took a ♂ in July.

BEES AND FLOWERS.

Prunus (garden plum).—At Santa Fé, N. M., in the spring of 1898, Miss Myrtle Boyle collected from the flowers *Andrena prunorum*, Ckll. (♀ ♂, the ♂ a var. with antennæ wholly black), *Halictus sisymbrii*, Ckll. (♀), and *Osmia lignari*, Say (♂).

Ungnadia speciosa (det. E. O. Wooton).—At Dripping Spring, Organ Mts., N. M., April 23rd and 24th, I found this beautiful shrub in full bloom. On April 23rd the following bees were visiting it: *Osmia lignaria*, Say (♂ ♀, abundant); *Xylocopa arizonensis*, Cr. (abundant); *Agapostemon texanus*, Cr. (1 ♀); *Augochlora neglectula*, Ckll. (abundant); *Halictus amicus*, Ckll. (♀, abundant); *Bombus Morrisoni*, Cr. (a few); and *Anthophora lesquerellæ*, Ckll. (♂, rare).

Dithyræa wislizeni.—On the campus of the N. M. Agricultural College, Mesilla Park, May 7th, 1898, the following bees were at the flowers: *Anthidium larreae*, Ckll. (one); *Neolarra pruinosa*, Ashm. (many); *Perdita callicerata*, Ckll. (♀); *P. exclamans*, Ckll. (♂), and *P. punctosignata*, Ckll. (♀). The species of *Perdita* had appeared before their proper flowers (*Baileya* and mesquite) were out, so they resorted to the *Dithyræa*.