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NOTES ON BUTTERFLIES, WITH DESCRIPTIONS OF NEW SPECIES.

BY HENRY SKINNER, M. D.

Pamphila scudderi, n. sp. Male. Expands $1\frac{1}{2}$ inch. Superior wings yellow—fulvous, with a darker border, about an one-eighth inch in width; the yellow fulvous runs into this darker color along the nervures; the stigma is long and narrow, and becomes thinner as it approaches the submedian nervure. Inferior wings yellow fulvous; costal margin fuscous; edge of wing fuscous; fringes whitish-yellow. Under side of superiors with a large black patch at the base; remainder nearly immaculate. Inferiors light yellow-fulvous, immaculate.

Female. Expands but slightly more. Superiors darker in color, with a row of yellow spots extending across the wings from the costa to the inner margin; first come three distinct subapical spots, then two small ones further toward the outer

After preparing the trap, let it stand three or four days or longer if the weather is bad, and the result will be better than to uncover too soon.

D. B. YOUNG.

FITCH'S COTTON SCALE INSECT.—In his 3d report (Nov. 16, 1856), Dr. Asa Fitch described as *Aspidiotus gossypii* n. sp., a scale insect occurring on a leaf of a cotton plant, *Gossypium religiosum*, sent to him from Ningpo, China, by the Rev. M. S. Culbertson of the Presbyterian Board of Missions. Dr. Fitch described this insect in a general way, comparing it to the apple bark louse. Signoret (Essai, etc., Ann. Ent. Soc., France, 1870, p. 109), quotes Fitch's remarks entire, but refers the insect to the genus *Diaspis*.

In 1895 Mr. Wm. H. Ashmead, in an article entitled "Notes on cotton insects found in Mississippi" (Insect Line, vol. VII), refers (p. 323) a species of *Aleurodes* discovered by him on cotton to the insect named by Dr. Fitch, and suggests that Dr. Fitch had mistaken a dried pupa of an *Aleurodes* for a coccid belonging to the genus *Aspidiotus*.

In ENTOMOLOGICAL NEWS for 1895, p. 157, Mr. T. D. A. Cockerell protests against this reference of Mr. Ashmead of the insect to *Aleurodes*, and prefers to consider Fitch's species as belonging to the genus *Chionaspis*, or perhaps *Diaspis*, as suggested by Signoret.

Fortunately it is now possible to remove the obscurity and uncertainty hitherto attaching to Fitch's insect. Fitch's original type specimen, labelled in his own handwriting as "*Aspidiotus gossypii*," and answering to his description, was found in the old Fitch collection in Philadelphia by Mr. Theo. Pergande, and proves to be a single example of the larval stage of an *Aleurodes*. The specimen is now in the collection of the Department of Agriculture. It is interesting to discover that Mr. Ashmead's inference as to the relationship of the insect is correct, although it is very improbable that the *Aleurodes* found in Mississippi is identical with the species occurring on cotton in China. As China becomes more accessible to exploration it may be expected that an *Aleurodes* will be found to infest cotton in the province of Ningpo and probably elsewhere to which Fitch's name will apply.

C. L. MARLATT, Washington, D. C.

ADALIA BIPUNCTATA LINN, and its varieties.—Although the useless multiplication of scientific names is an impediment to the student, it seems desirable that well marked varieties should be designated by a name. The names of such varieties are of course subject to the rules of priority and I was therefore surprised to find in reading the interesting article "An Abnormal Coccinellid," by A. F. Burgess (Proc. of the Tenth Ann. Meeting of the Association of Economic Entomologists), that the name *A. humeralis* of Say seems to be still in common use among American Entomologists. This should give way to *A. 4-maculata* of Scopoli, or perhaps

A. 6-pustulata of Linneus, which last differs only in the presence of an additional spot at the tip of each elytron. Careful comparison of specimens of *A. 4-maculata* from England and France, and the description in Weise's tables of European Coccinellidæ (Zeitschrift für Entomologie, Breslau, 1879), with our *A. humeralis* proves their identity. Specimens in my collection are from Worcester, Southbridge, Chicopee, Mass., and Brattleboro, Vt. Two specimens collected by Dr. Geo. Dimmock in Springfield, Mass., are of the form *A. 6-pustulata*.

I also have a specimen with the red humeral and apical spots present, but without the median pair of spots, thus corresponding with the European variety, *A. Simoni* of Weise.

FREDERICK KNAB.

Entomological Literature,

COMPILED BY P. P. CALVERT.

Under the above head it is intended to mention papers received at the Academy of Natural Sciences of Philadelphia pertaining to the Entomology of the Americas (North and South). Articles irrelevant to American entomology will not be noted. Contributions to the anatomy, physiology and embryology of insects, however, whether relating to American or exotic species, will be recorded. The numbers in HEAVY-FACED TYPE refer to the journals, as numbered in the following list, in which the papers are published; * denotes that the paper in question contains descriptions of new North American forms. Titles of all articles in foreign languages are translated into English; usually such articles are written in the same language as the title of the journal containing them, but when such articles are in other languages than English, French, German or Italian, this fact is indicated in brackets.

4. The Canadian Entomologist, London, Ont., '99.—5. Psyche, Cambridge, Mass., April, '99.—6. Journal of the New York Entomological Society, March, '99.—8. The Entomologist's Monthly Magazine, April, '99.—11. The Annals and Magazine of Natural History, London, March, '99.—12. Comptes Rendus, L'Académie des Sciences, Paris, March 6, '99.—21. The Entomologist's Record, London, March 15, '99.—22. Zoologischer Anzeiger, Leipsic, '99.—35. Annales, Société Entomologique de Belgique, Brussels, xliii, 2, March 6, '99.—40. Societas Entomologica, Zurich-Hottingen, '99.—51. Novitates Zoologicae, v. 4, Tring, England, Dec. 31, '98.—60. Comunicaciones, Museo Nacional de Buenos Aires, i, 2, Dec. 17, '98.—68. Science, New York, '99.—82. Centralblatt für Bakteriologie, Jena, '99.—84. Insekten Börse, Leipsic, '99.—87. Revue Scientifique, Paris, '99.—102. Proceedings, Entomological Society of Washington, iv, 3, '99.—103 p. Occasional Papers, California Academy of Sciences, vi, San Francisco, Feb. 28, '99.—104. Mittheilungen, Naturhistorisches