

## THE COCCIDÆ OF THE IVY.

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In Entomological News, Vol. V., 1894, p. 210, Prof. Cockerell cited all of the *Coccids* known to infest ivy (*Hedera*). Since then other species have been found, and with his consent I have prepared the following notes for publication. Leaves of *Hedera helix* sent to Prof. Cockerell from Brazil, coll. Dr. F. Noach, May, 1898, proved to be infested by *Chrysomphalus dictyospermi*, Morgan. And Mr. A. Hempel, of St. Paul's, Brazil, sent *C. aonidium*, L. Just recently he wrote me that *C. dictyospermi*, var. *jamaicensis*, Ckll. (*minor*, Berlese), was received by him from Lord Walsingham, infesting ivy at Cannes, France. *Aspidiotus rapax (camelliæ)* was found by E. E. Green on ivy in Ceylon (*Coccidæ of Ceylon*, p. 44). *Dactylopius citri*, Risso., was found at Kew Gardens, England, on a variety of ivy called *Hedera amurensis* (Newstead, Ent. Mo., May, 1897, p. 73). The following have been found by me at Lawrence, Mass.: *Aspidiotus Crawii*, Ckll., on ivy in a greenhouse, and must have been there for some time, as the vine is an old one, supposed to be about 20 years old. *Lecanium hesperidum*, L., is frequently found on ivy in greenhouses, but not in sufficient numbers to cause much alarm. *Dactylopius citri*, Risso., and *Aspidiotus hederae*, Vall., seem to be the most troublesome, sometimes covering the entire leaves of the vine, and as the leaves are used very extensively in making up wreaths and other floral designs, their presence in greenhouses causes very much damage. A list of the species now known to be found on ivy is appended below :

1. *Phenacoccus hederae*, Sign., Hab. France.
2. *Lecanium maculatum*, Sign., Hab. France.
3. *Lecanium hesperidum*, L., Hab. France and N. America.
4. *Asterolecanium hederae*, Licht., Hab. France and Italy.
5. *Dactylopius citri*, Risso., Hab. England and N. America.
6. *Aspidiotus rapax (camelliæ)*, Hab. Ceylon.
7. *Aspidiotus hederae*, Vallot, Hab. Algeria and N. America.
8. *Aspidiotus Crawii*, Ckll., Hab. N. America.
9. *Chrysomphalus aonidium*, L., Brazil.
10. *Chrysomphalus dictyospermi*, Morg., Brazil.
11. *Chrysomphalus dictyospermi*, var. *jamaicensis*, Ckll., France.