

of the sexual phases of the current year, but perhaps the only safe criterion for establishing this point would be to follow the history of the colony or else examine the nest carefully to see if sexual pupae were present. If sexual pupae were present, one could safely say that a part, if not all, of the adult sexual forms arose from pupae produced during the current season.

A large number of these observations were made by the author. In addition observations have also been made by the following: Messrs. G. W. Haug, E. E. Byrd, J. W. Ward, H. Dietrich, J. P. Kislanko, G. L. Bond, G. C. Broome and others. To these gentlemen I wish to express my appreciation for permission to publish their records.

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The symbols used below have the following meaning: M. P. means male pupae; M. means males; Q. P. means queen pupae; and Q. means winged queens.

January 1-15: *Ponera opaciceps* (M., Q.) McHenry; *Crematogaster ashmeadi* (M.) State College; *Camponotus caryae* var. *decipiens* (M., Q.) State College.

January 16-31: *Solenopsis xyloni* (M. P.) State College; *Crematogaster opaca depilis* var. *punctulata* (M.) State College; *Dorymyrmex pyramicus* (M., Q.) State College; *Camponotus caryae discolor* var. *cnemidatus?* (Q.) State College; *caryae* subsp. *rasilis* (M.) Wiggins; *C. caryae* var. *decipiens* (M., Q.) Longview; *C. castaneus* (M., Q.) Starkville; *Prenolepis* (*Nylanderia*) species (M., Q.) State College.

February 1-15: *Camponotus caryae* subsp. *rasilis* (M.) State College; *C. caryae* var. *decipiens* (M., Q.) Ackerman.

February 16-29: *Ponera opaciceps* (M.) Perkinston; *Dorymyrmex pyramicus* (M., Q.) State College; *Camponotus caryae* subsp. *rasilis* (Q.) Moss Point; *Prenolepis* (*Nylanderia*) *vividula* var. (M., Q.) Sessums; *P. (N.)* species (M., Q.) Sessums.

March 1-15: *Leptothorax curvispinosus* (Q. P.) State College; *Crematogaster victima* subsp. *missouriensis* (M.) State College; *C. opaca depilis* var. *punctulata* (Q.) State College; *Camponotus caryae* subsp. *rasilis* (M., Q.) Starkville.

March 16-31: *Crematogaster opaca depilis* var. *punctulata*