Ground Beetles (Coleoptera: Carabidae) Collected by Pitfall Trapping in Michigan Small-Grain Fields

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During the 1980 growing season a series of standard, single-cup pitfall traps were main­
tained in wheat, oat, barley, and rye fields in Michigan. The traps were maintained by Pest
Management Field Assistants (PMFAs) and entomology students from Michigan State Uni­
versity. The traps were primarily used to monitor insect pest activity as part of pest man­
agement scouting.

Since pitfall traps are a non-selective sampling device, many non-pest and beneficial
arthropods were also taken. After pest insects were removed from the samples by the
PMFAs, the residue was sent to the Entomology Department for additional sorting and
identification of selected arthropod groups.

The role of carabids in the agroecosystem is not fully understood, and this information is
presented in an effort to add to the knowledge of carabids in small grains.

A total of 658 specimens, representing 26 species in 14 genera, was collected between 19
May and 14 August 1980. The following list presents these species together with the counties
in which they were collected, earliest and latest collection dates, and the crops with which
they were associated. The number of individuals of a species associated with each crop is
given in parentheses.

**Scarites substriatus** Haldeman. Calhoun. 28 May. Oats (2).
**Clivina impressifrons** LeConte. Ingham. 21 May–5 June. Barley (6).
**Bembidion nitidum** Kirby. Montcalm. 19 May. Wheat (1).
**B. incrematum** LeConte. Ingham. 26 May. Barley (1).
**Pterostichus chalcites** Say. Ingham, Montcalm, St. Joseph. 26 May–19 June. Barley (11),
   wheat (4), oats (13), rye (1).
**P. lucublandis** Say. Ingham, Montcalm, St. Joseph, Calhoun, Cass. 21 May–14 August.
   Barley (6), wheat (181), oats (28), rye (14).  
**P. melanarius** Illiger. Ingham. 9 July–14 August. Barley (6).
**Agonum cupripenne** Say. Ingham, Montcalm, St. Joseph, Calhoun, Cass. 21 May–4 August.
   Barley (3), wheat (10), rye (1).
**A. placidum** Say. Cass, Ingham, Montcalm, St. Joseph. 19 May–9 July. Barley (11), wheat
   (57), oats (14), rye (14).
**Amara ellipsis** Casey. Montcalm. 5 June. Wheat (1).
**A. liitoralis** Mannerheim. Montcalm. Wheat (1).
**A. cupreolata** Putzeys. Calhoun, Ingham, Montcalm. 21 May–4 August. Barley (61), wheat
   (5), rye (53).
**Harpalus calignosus** Fabricius. Ingham. 4 August. Barley (1).
**H. affinis** Schrank. Ingham, Montcalm. 21 May–9 July. Barley (40), wheat (31), rye (2).
**H. herbivagus** Say. Ingham, St. Joseph. 21 May–19 June. Barley (8), wheat (1).
**Geopinus incrassatus** Dejean. Montcalm. 19 June. Wheat (1).
**Anisodactylus lugubris** Dejean. Montcalm. 28 May. Oats (1).
   (4), wheat (31), oats (1).

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A. nigerrimus Dejean. Ingham. 5 June. Barley (1).

Stenolophus comma Fabricius. Ingham, Montcalm. 19 May–14 July. Barley (9), wheat (8), oats (1).


C. tricolor Dejean. Ingham. 21 July. Barley (1).

Colliuris pensylvanicus L. Ingham. 21 June–14 July. Barley (2).