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**GROUND BEETLES (COLEOPTERA: CARABIDAE)  
COLLECTED BY PITFALL TRAPPING IN MICHIGAN  
SMALL-GRAIN FIELDS**

Gary A. Dunn<sup>1</sup>

During the 1980 growing season a series of standard, single-cup pitfall traps were maintained 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 University. The traps were primarily used to monitor insect pest activity as part of pest management 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.

- Calosoma calidum* Fabricius. Montcalm, Cass, St. Joseph. 27 May–19 June. Wheat (5).  
*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. 26 May–5 June. 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. littoralis* Mannerheim. Montcalm. Wheat (1).  
*A. cupreolata* Putzeys. Calhoun, Ingham, Montcalm. 21 May–4 August. Barley (61), wheat (5), rye (53).  
*Harpalus caliginosus* 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).  
*A. sanctaerucis* Fabricius. Cass, St. Joseph, Ingham, Montcalm. 19 May–4 August. Barley (4), wheat (31), oats (1).  
*A. rusticus* Say. Calhoun, Montcalm. 19 May–28 May. Wheat (2).

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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).  
*Chlaenius tomentosus* Say. Calhoun, Cass. 4–25 June. Wheat (2).  
*C. tricolor* Dejean. Ingham. 21 July. Barley (1).  
*Colliuris pennsylvanicus* L. Ingham. 21 June–14 July. Barley (2).  
*Galerita janus* Fabricius. St. Joseph. 19 June. Wheat (1).