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## An annotated checklist of West Virginia May or June beetles (Coleoptera: Scarabaeidae: *Phyllophaga* spp.)

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### Abstract

This first published checklist of West Virginia May or June beetles (Coleoptera: Scarabaeidae: *Phyllophaga*), lists 29 species. County distributions and the range of collection dates are included.

### Introduction

The biodiversity of the West Virginia insect fauna, including the genus *Phyllophaga*, is largely undocumented. Until now, only 7 state records for this genus have appeared in the literature (Luginbill and Painter 1953, Tashiro 1987, Woodruff and Beck 1989). The objective of this study was to compile the first comprehensive listing of West Virginia species and their county distributions.

This study has confirmed the occurrence of 29 species of May or June beetles in West Virginia with 246 county records. A total of 15,588 pinned and alcohol preserved specimens were examined during the course of this study. The specimens came primarily from collections at West Virginia University and the West Virginia Department of Agriculture.

The alphabetical checklist of West Virginia species includes the number of specimens examined, in parenthesis, county records and the range of collection dates. A detailed listing of specimens is available upon request.

*P. anxia* (LeConte). (460) Fayette, Grant, Hardy, Jefferson, Kanawha, Lewis, Lincoln, Marshall,

Mason, Monongalia, Monroe, Morgan, Ohio, Pendleton, Pocahontas, Preston, Randolph, Summers, Tucker, Tyler, and Wirt Counties, April 4 to August 30.

*P. balia* (Say). (104) Berkeley, Hampshire, Hardy, Jefferson, Kanawha, Lincoln, Marshall, Monongalia, Monroe, Morgan, Ohio, Pendleton, and Summers Counties, April 16 to June 12.

*P. barda* (Horn). (2) Lincoln County, May 16 to May 18.

*P. crenulata* (Froelich). (177) Hampshire, Hardy, Jefferson, Kanawha, Mason, Morgan, Tyler, and Wirt Counties, May 4 to August 13.

*P. drakeii* (Kirby). (45) Berkeley, Hampshire, Hardy, Jefferson, Kanawha, Lewis, Lincoln, Mason, Morgan, Nicholas, Pendleton, Preston, Randolph, Summers, Tyler, and Wirt Counties, May 4 to July 9.

*P. ephilida* (Say). (88) Cabell, Jackson, Kanawha, Lincoln, Mason, Monroe, Wayne, and Wirt Counties, June 25 to August 31.

*P. fervida* (Fabricius). (1259) Berkeley, Hardy, Jefferson, Kanawha, Mason, Mineral, Monroe, Morgan, Wayne, and Wirt Counties, April 19 to June 28.

*P. forsteri* (Burmeister). (300) Hardy, Harrison, Kanawha, Lincoln, Monroe, and Summers Counties, May 9 to August 7.

*P. fraterna* Harris. (128) Hampshire, Hardy, Jefferson, Kanawha, Lewis, Lincoln, Mason, Mineral, Monroe, Morgan, Randolph, Summers, and Wirt Counties, May 3 to July 29.

*P. fusca* (Froelich). (446) Hampshire, Hardy, Harrison, Jefferson, Kanawha, Lewis, Lincoln, Marshall, Mason, Mineral, Monongalia, Monroe, Morgan, Ohio, Pendleton, Pocahontas, Preston, Putnam, Raleigh, Randolph, Summers, Tucker, Tyler, Wayne, and Wirt Counties, April 17 to July 13.

*P. futilis* (LeConte). (7,327) Berkeley, Cabell, Hardy, Harrison, Jefferson, Kanawha, Lincoln, Marshall, Mason, Mineral, Monongalia, Monroe, Morgan, Ohio, Pendleton, Pocahontas, Preston, Putnam, Randolph, Summers, Tyler, Wayne, and Wirt Counties, April 5 to July 15.

*P. gracilis* (Burmeister). (3) Wood and Wyoming Counties, June 1 to July 28.

*P. hirsuta* (Knoch). (2) Fayette and Randolph Counties, May 25 to June 16.

*P. hirticula* (Knoch). (1,872) Berkeley, Grant, Greenbrier, Hampshire, Hardy, Jefferson, Kanawha, Lewis, Lincoln, Marshall, Mason, Mineral, Monongalia, Monroe, Morgan, Ohio, Pocahontas, Raleigh, Randolph, Summers, and Wirt Counties, April 26 to October 27.

*P. hornii* (Smith). (272) Hardy, Jefferson, Kanawha, Lewis, Lincoln, Mason, Monongalia, Ohio, Preston, Randolph, and Wirt Counties, April 18 to July 8.

*P. ilicis* (Knoch). (151) Lewis, Mason, Morgan, Nicholas, and Pendleton Counties, May 14 to August 20.

*P. implicita* (Horn). (2) Mason County, May 24 to June 17.

*P. inversa* (Horn). (366) Berkeley, Hardy, Jefferson, Kanawha, Morgan, Pendleton, and Wirt Counties, April 16 to June 25.

*P. longispina* (Smith). (20) Monongalia, Pendleton, Preston, Raleigh, Randolph, and Tucker Counties, May 20 to June 27.

*P. marginalis* (LeConte). (19) Berkeley, Hampshire, Kanawha, Monroe, Pendleton, Summers, and Wirt Counties, April 26 to July 23.

*P. micans* (Knoch). (3) Mason County, June 8.

*P. nitida* (LeConte). (2) Preston and Summers Counties, May 21 to June 19.

*P. pearlinae* (Davis). (3) Mason County, June 1 to June 15.

*P. quercus* (Knoch). (387) Berkeley, Greenbrier, Jefferson, Kanawha, Lewis, Lincoln, Monroe, Morgan, Nicholas, Summers, Tyler, Wayne, and Wirt Counties, July 2 to August 31.

*P. rugosa* (Melsheimer). (79) Hardy, Lincoln, Marshall, Mason, Monongalia, Monroe, Ohio, Tyler, and Wirt Counties, May 16 to July 13.

*P. subtonsa* (LeConte). (6) Morgan and Summers Counties, June 5 to July 2.

*P. tristis* (Fabricius). (15) Hardy, Lincoln, Monroe, Pendleton, and Preston Counties, April 29 to June 18.

*P. vehemens* (Horn). (6) Mason County, April 15 to May 15.

*P. vilifrons* (LeConte). (44) Berkeley, Hampshire, Hardy, Mason, Monroe, and Pendleton Counties, May 23 to August 27.

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