

P. fraternus Uhler.

Uhler, Hemip. Colo., 51, 1895.

Of all the material examined, the writer has found not more than three specimens which fit the original description as regards color of scutellum and pronotum. Where the pronotum agrees with *fraternus* the scutellum is likewise pale, thereby referring the specimen to *obscurus*; specimens having a black scutellum rarely have the pronotum pale as described for *fraternus*. For the present, the writer designates as *fraternus* those specimens having a black scutellum even though the pronotum may likewise be black, other characters as indicated in the key.

Judging by the large amount of material thus far examined, from Colorado as well as the eastern states, *fraternus* Uhler appears to be nothing more than a variety of *obscurus* Uhler.

Guilford, 13 July, 1920 (B. H. W.); Huntington, 9 July, 1920 (B. H. W.); New Haven, 4 July, 1920 (B. H. W.).

**Plagiognathus alboradialis* Knight, new species.

Larger than *obscurus*, distinguished readily by the pale color pattern of the hemelytra.

Male: Length 5 mm., width 1.66 mm. Head: Width .78 mm., vertex .38 mm.; black, slightly paler at base of vertex. Rostrum, length 1.83 mm., yellowish, basal segment blackish except apically.

Antennae: Segment i, length .38 mm., black, narrowly pale at apex; ii, 1.58 mm., black; iii, .97 mm., pale fuscous; iv, .51 mm., pale fuscous.

Pronotum: Length .74 mm., width at base 1.33 mm.; black, moderately shining, central area of disk sometimes slightly paler. Scutellum black, brownish at basal angles, more rarely yellowish with median line black; sternum, pleura, and ostiolar peritreme, black.

Hemelytra: Embolar margins nearly straight; black, corium and embolium pale at base, corium with pale area finding its distal limit along the radial vein, usually reaching to near middle; embolium usually slenderly pale for its entire length; cuneus uniformly pale translucent; moderately clothed with pale yellowish pubescence. Membrane uniformly fuscous, spot bordering cuneus, and the apex of brachium, pale.

Legs: Nearly as in *obscurus*; hind femora with two very distinct rows of black spots on anterior face, not dusky beneath, and scarcely forming a dark line above. Venter black, moderately shining, very finely pale pubescent.

Female: Length 4.5 mm., width 1.66 mm.; more robust and more broadly pale than the male; pronotal disk broadly pale; scutellum with lateral margins basally, pale; corium with fuscous area on apical half divided into two spots by the pale color which extends along radius to join that of cuneus.