

**PLAGIOGNATHUS NEGUNDINIS fulvotinctus** n. var.

Similar in structure to *negundinis* but runs in my key (Hem. Conn., 1923, p. 431) to *fraternus* Uhler from which it may be separated by having the femora orange yellow, not clouded with fuscous although with distinct black spots. Differs from typical *negundinis* in that the embolium, basal half of corium more or less, outer margin of clavus on basal half, and basal half of cuneus is pale to orange yellow.

*Type*: ♀ July 10, 1924, Fort Snelling, MINNESOTA (H. H. Knight), author's collection. *Paratypes*: 2 ♂ 4 ♀ June 14, 16 ♂ ♀ June 19, 9 ♂ ♀ June 20, 1927, Ames, IOWA (H. H. Knight), taken on box elder.

**Plagiognathus crataegi** n. sp.

Runs to *repetitus* Kngt. in my key (Hem. Conn., 1923, p. 431), while the paler females may run to *punctatipes* Kngt. Differs from *repetitus* in the larger size, relatively longer antennae, larger spots on hind femora, and front coxae uniformly yellow without fuscous at base. Separated from *punctatipes* by the uniformly yellow front coxae and the more broadly blackish antennae; males differ in form of left genital clasper.

♂. Length 3.4 mm., width 1.3 mm. Head: width .65 mm., vertex .31 mm.; black, vertex yellowish. Rostrum, length 1.21 mm., reaching to apices of hind femora, yellowish, basal segment and apex black. Antennae: segment I, length .21 mm.; II, .86 mm.; III, .56 mm.; IV, .32 mm.; black, last two segments more fuscous. Pronotum: length .50 mm.; width at base 1.02 mm.

Clothed with simple, recumbent, yellowish pubescence. Black, vertex yellowish; membrane uniformly dark fuscous, veins slightly paler. Legs yellow, tibial spots and spines black; hind femora with two rows of black spots on anterior face, clouded with fuscous; middle femora with a few small fuscous spots; coxae uniformly yellow, hind pair only with fuscous at base.

♀. Length 3.5 mm., width 1.4 mm. Head: width .68 mm., vertex .355 mm. Antennae: segment I, length .21 mm., black; II, .87 mm., dusky yellow to fuscous, basal one-fourth to one-third black, apex usually infuscated; III, .57 mm., dusky yellow; IV, .37 mm., dusky yellow. Pronotum: length .56 mm., width at base 1.11 mm. Very similar to the male in coloration and pubescence.

*Holotype*: ♂ July 2, 1928, Ames, IOWA (H. H. Knight); Iowa State College collection. *Allotype*: taken with the type. *Paratypes*: 24 ♂ ♀, taken with the types on *Crataegus* sp. where