

A black stripe traversing outer half of each callus and extending to posterior margin of pronotal disk; ground color pale yellowish, with clavus and apices of corium and embolium black. . . *vitticollis*, p. 162

Neolygus invitus (Say)

Capsus invitus Say (1832, p. 24).

MALE.—Length 5.00, width 2.00. General color dark greenish with fuscous or black areas; a lateral, fuscous stripe extending full length of body, including genital segment; apical half of scutellum with a pale, median vitta; disk of pronotum dark brown or black, but never with two distinct rays, as in *communis* Knight; genital claspers distinctive for species, fig. 164.

FEMALE.—Length 5.10, width 2.20; slightly more robust than male, very similar in coloration, but in general lighter colored, with pale vitta on scutellum longer.

FOOD PLANT.—American elm (*Ulmus americana*); a single specimen was collected in Illinois on hickory (*Carya* sp.).

KNOWN DISTRIBUTION.—Connecticut, Illinois, Indiana, Iowa, Massachusetts, Michigan, Minnesota, Missouri, New York, Ohio, Vermont.

Illinois Records.—ILLINOIS: June 21, 1892, 2 ♀. DUBOIS: May 21, 1917, 1 ♂. ELIZABETHTOWN: May 27-31, 1932, on elm, H. L. Dozier, 10 ♂, 6 ♀. FRANKFORT: June 8, 1933, Mohr & Townsend, 2 ♂, 9 ♀. MOUNT CARMEL: May 27, 1884, on leaves of *Carya* sp., 1 ♀. MUNCIE: June 8, 1917, 1 ♀. SAVANNA: June 1, 1917, 1 ♀; June 12, 1917, 3 ♂, 1 ♀.

Neolygus tinctus new species

This species is distinguished from allied ones by its smaller size and reddish coloration; it apparently is most closely related to *invitus* (Say).

MALE.—Length 4.76, width 2.00. Head width 0.99, vertex 0.30. Rostrum yellowish, apex reddish brown, length 1.56, extending slightly beyond middle of hind coxae. Antennae, first segment, length 0.44, yellowish brown; second, 1.56, yellowish, becoming dusky at apex. Pronotum reddish; basal half of disk fuscous; calli dusky brown; median line of side of pronotum paler just behind calli. Propleuron pale about coxal cleft. Scutellum yellowish, with many red flecks in

hypodermis. Hemelytra reddish to fuscous, with clavus and apical half of corium distinctly fuscous; cuneus pale, flecked with red about margins; membrane pale, with red veins and with areas within areoles and along margin behind cuneus fuscous. Dorsum clothed with fine, yellowish, recumbent pubescence; pronotum and scutellum minutely regulose, as in allied species. Venter of body pale yellowish, tinged with reddish and shaded with fuscous; sides of thorax dusky. Legs yellowish green, hypodermis of femora rather uniformly colored with bright red; tarsi darkened. Genital claspers distinctive, fig. 164; form nearest to *invitus*, but left clasper thicker at base and right clasper with a much more prominent, protuberant shoulder at middle.

FEMALE.—Length 4.63, width 2.20. Head with frons, tylus and juga bright red. Antennae yellowish, first segment becoming reddish at apex, third and fourth segments dusky; first segment, length 0.47; second, 1.47; third, 0.82; fourth, 0.34. More robust than male, and very similar in coloration, although with less fuscous shading on pronotum and hemelytra.

Holotype, male. — Morgan County, Ind.: June 10, 1933, on *Gleditsia triacanthos*, P. O. Musgrave, KC.

Allotype, female. — ILLINOIS. — EICHORN, HICK'S BRANCH: June 13, 1934, DeLong & Ross.

Neolygus atritylus Knight

Lygus (*Neolygus*) *atritylus* Knight (1917b, p. 606).

No Illinois specimens; known from Colorado, Minnesota, New Hampshire, New York, Vermont. Feeds on willow (*Salix* sp.).

Neolygus alni Knight

Lygus (*Neolygus*) *alni* Knight (1917b, p. 607).

MALE.—Length 5.50-6.00, width 2.00. Head width 1.00, vertex 0.33. Rostrum, length 1.88, just attaining posterior margins of hind coxae. Antennae, first segment, length 0.64; second, 2.02, yellowish to brownish, its apex not strongly infuscated; third, 1.04; fourth, 0.74. Pronotum, length 0.86, width at base 1.57. Color medium green to light green, fading to yellowish in old specimens; clavus, scutellum and basal