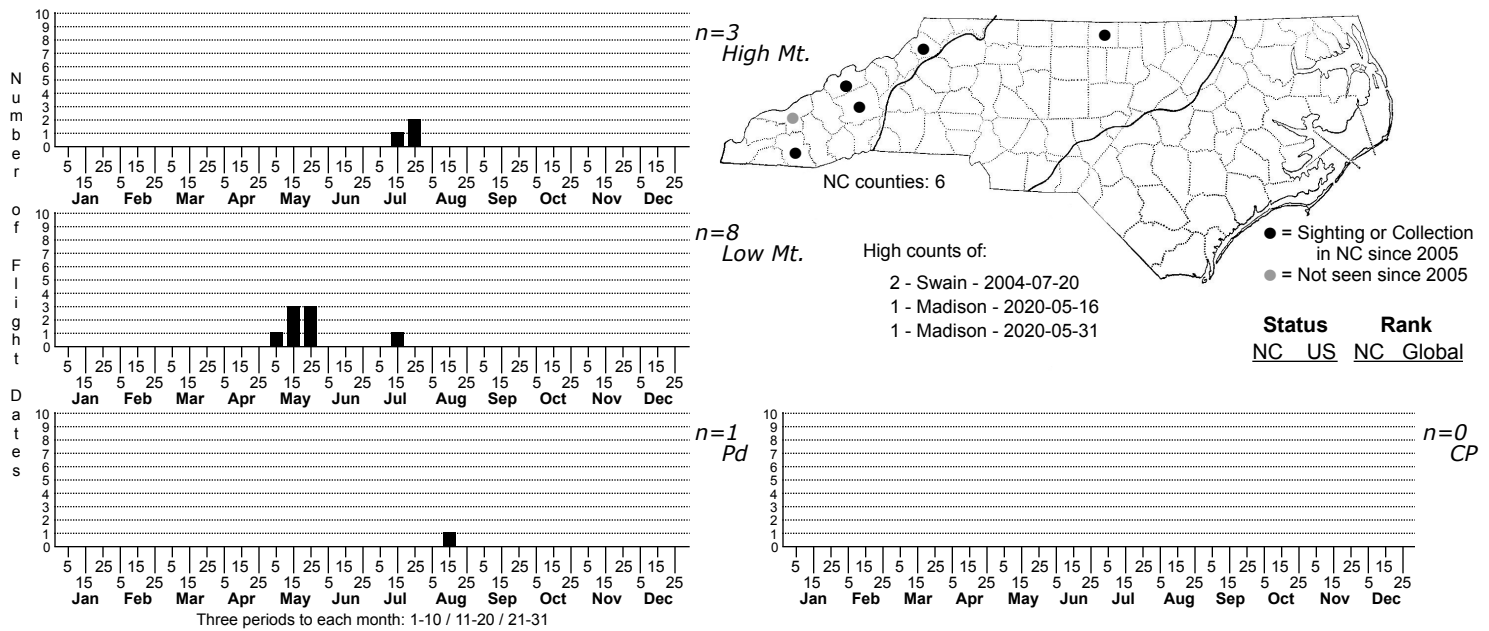


Stilbosis tesquella Hog-peanut Leaf-sewer Moth



FAMILY: Cosmopterigidae SUBFAMILY: Chrysopeliinae TRIBE: [Chrysopeliini]

TAXONOMIC COMMENTS: *Stilbosis* consists of 34 species of nearly uniform appearing dark-gray or yellow to orange-brown moths. Eight species occur in eastern North America, and 12 others in the West. Many species are in the northern Neotropics, and two species are known from India (Hodges, 1978).

FIELD GUIDE DESCRIPTIONS: Beadle and Leckie (2012)

ONLINE PHOTOS:

TECHNICAL DESCRIPTION, ADULTS: Clemens (1860b; Chambers (1881); Hodges (1978)

TECHNICAL DESCRIPTION, IMMATURE STAGES: Busck (1903)

ID COMMENTS: The following is based on descriptions by Clemens (1860), Chambers (1881), and Hodges (1978). The head and face are grayish-silvery, with a metallic luster, while the thorax is metallic golden to bronzy. The labial palp is ochreous, and the antenna is dark fuscous with a white tip. The ground of the forewing is dark, bronzy-brown, with greenish or golden reflections. Three groups of raised scales occur along the wing. The first is at the basal fourth of the wing and consists of two large dark brown tufts that almost touch each other (sometimes fused into one), and extend almost to the costal and dorsal margins. The second is just beyond one-half the wing length and consists of two equally large tufts that are pale, straw colored. The last is a single large straw-colored tuft at about three-fourths that often touches a small pale costal spot that is slightly posterior to it. The raised scale patches are embedded within patches of straw-yellow scales that are most prominent on the median and post-median regions. The patches can vary in color depending on the camera angle and flash, and sometimes appear to be solid dark brown. In addition to these large tufts, there are four or five small patches along the outer margin. The cilia are fuscous and tinged with reddish. The hindwing and cilia are both dark fuscous, while the legs are dark brown and annulated with white.

DISTRIBUTION: *Stilbosis tesquella* is found in eastern North America. Scattered populations have been found from southern Maine and adjoining areas of Canada (Ontario; Quebec) westward to Minnesota and Iowa. The range extends southward to eastern Kentucky, Virginia, and the southern Appalachians (Hodges, 1978). Disjunct populations in Colorado may belong to this species. As of 2021, our two site records are both from lower elevation sites in the Blue Ridge.

FLIGHT COMMENT: Adults have been documented from May through August in areas outside of North Carolina, with a seasonal peak in July. As of 2021, we have records from 16 May to 20 July.

HABITAT: American Hog-peanut appears to be the most important host. This species is typically found in rich, moist forests and associated forest edges.

FOOD: The hosts are poorly documented, but include American Hog-peanut (*Amphicarpaea bracteata*) and a species of *Lespedeza* and *Desmodium* (Forbes, 1923; Godfrey et al., 1987).

OBSERVATION_METHODS: The adults are attracted to lights. More effort is needed to document host use in North Carolina.

NATURAL HERITAGE PROGRAM RANKS: GNR SU

STATE PROTECTION: Has no legal protection, although permits are required to collect it on state parks and other public lands.

COMMENTS: This species is seemingly uncommon within the state where it reaches the southern limit of its range in the western mountains. We need additional information on its distribution, abundance, and habitat requirements before we can assess its conservation status.