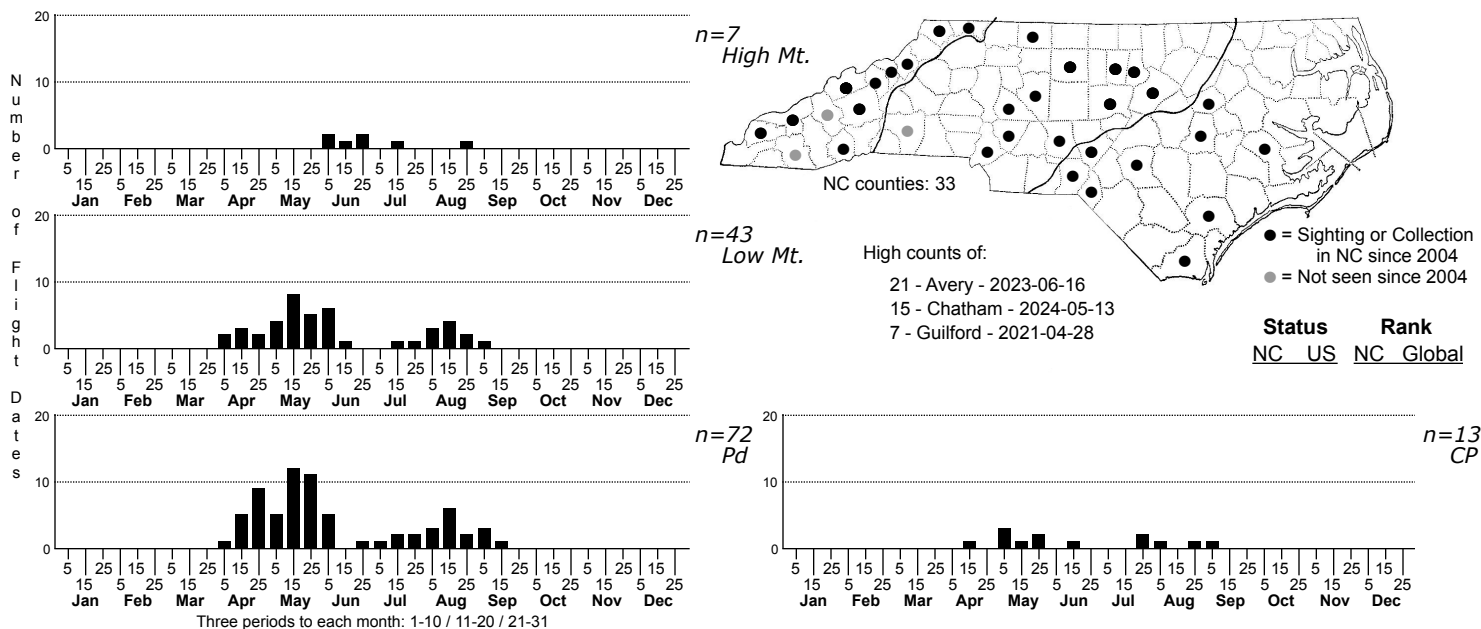


## *Antaeotricha schlaegeri* Schlaeger's Fruitworm Moth



FAMILY: Depressariidae SUBFAMILY: Stenomatinae TRIBE: [Stenomatini]

TAXONOMIC\_COMMENTS: The genus *Antaeotricha* is endemic to the New World and includes nearly 400 species of mostly neotropical species. Twenty species are currently recognized in North America.

FIELD GUIDE DESCRIPTIONS: Covell (1984); Beadle and Leckie (2012)

ONLINE PHOTOS:

TECHNICAL DESCRIPTION, ADULTS: Duckworth (1964)

TECHNICAL DESCRIPTION, IMMATURE STAGES: Marquis et al. (2019)

ID COMMENTS: The following description is based in part on the description by Duckworth (1964). The face is white and the labial palp is white with a sprinkling of gray to dusky scales. The thorax is white dorsally with a conspicuous brownish-black tuft posteriorly. The ground color of the forewing is white, and the basal half has a dark brown or blackish patch that extends along the inner margin to one-third or more before phasing into gray. The remainder of the wing has a series of wormy, light gray to grayish brown marks that are more concentrated on the apical half. In addition to these, there are two broad subterminal bands and a narrower terminal band near the base of the fringe that are also light gray to grayish brown. The subterminal bands are sometimes blurred or otherwise indistinct, and the terminal band is often represented by a row of spots. The bands and wormy marks terminate before reaching the costa, except for one or two small marks near the wing base. The fringe has a series of four or five blackish spots near the base. The abdomen is white and the hindwing is very pale tan with white cilia. The legs are whitish, and the tarsi have a series of dark rings. The foreleg is generally more smoky than the others. This species is very similar to *A. leucillana* and the two cannot be reliably separated using photographs. The species differ in size, and wing length or total length measurements are essential for identification. Photo submissions must include a size reference such as a mm ruler or coin. Adults from North Carolina typically measure between 12-14 mm total length versus 10 mm or less for *A. leucillana*.

DISTRIBUTION: Many of the records on citizen-science sites such iNaturalist are questionably because size measurements are needed to identify specimens from photographs. Duckworth's (1964) range map includes much of the eastern United States southward to North Carolina and westward to Missouri, Texas, and Arizona. MPG shows a broader distribution, with most of the eastern US covered south to the Gulf coast and central Florida, and with isolates in Arizona, New Mexico, and Nevada. In Canada, this species occurs sporadically from Saskatchewan eastward to Nova Scotia (Pohl et al., 2018). As of 2020, our records are mostly from the Piedmont and mountains, with a single record from the Coastal Plain.

FLIGHT COMMENT: Local populations appear to be univoltine at northern latitudes, but double brooded in the southern portion on the range (Carroll and Kirby, 1978; Marquis et al., 2019). Piedmont populations in North Carolina appear to be double-brooded, while mountain populations appear to be single-brooded.

HABITAT: This species is strongly dependent for oaks as hosts for the larvae. Local populations occur in wooded residential neighborhoods as well as in a variety of mesic to drier forests with oaks. Populations are well represented in the Piedmont and lower mountains where oaks are important components of hardwood forests.

FOOD: Oaks are the primary hosts, although there is one record of larvae using Paper Birch (*Betula papyrifera*) in Canada (Robinson et al. 2010). Oak hosts (Marquis et al., 2019) include White Oak (*Quercus alba*), Scarlet Oak (*Q. coccinea*), Shingle Oak (*Q. imbricaria*), Northern Red Oak (*Q. rubra*), Post Oak (*Q. stellata*) and Black Oak (*Q. velutina*).

OBSERVATION\_METHODS: The adults are attracted to UV lights; larvae need to be reared to distinguish them from *A. leucillana*.

NATURAL HERITAGE PROGRAM RANKS: GNR [S4S5]

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

COMMENTS: This species appears to be relatively common in the mountains and Piedmont where oaks are important components of hardwood forests.