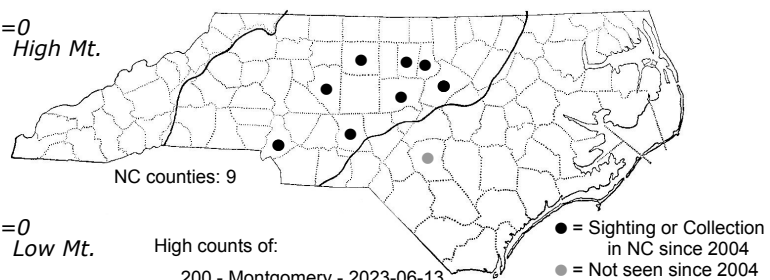
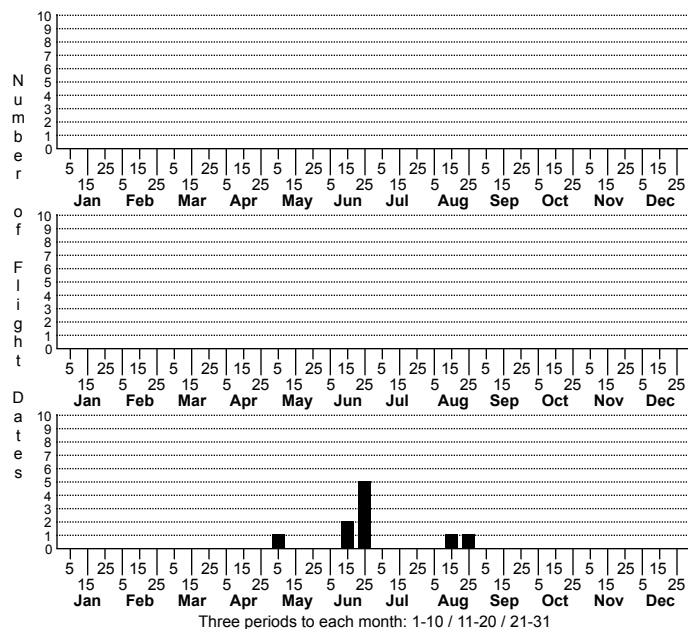
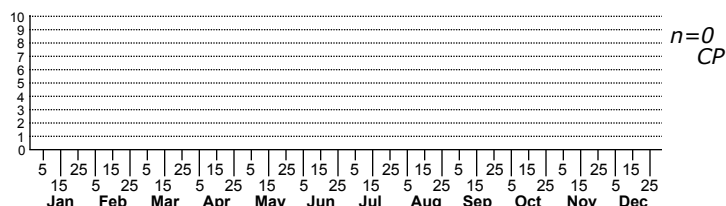


Cameraria hamadryadella Solitary Oak Leafminer Moth



Status		Rank	
NC	US	NC	Global



FAMILY: Gracillariidae SUBFAMILY: Lithocolletinae TRIBE: [Lithocolletini]

TAXONOMIC COMMENTS: *Cameraria* is a genus of leaf-mining micromoths. Many species are stenophagous and specialize on a small number of closely related host species. There are currently more than 50 described species in North America.

FIELD GUIDE DESCRIPTIONS: Covell (1984)

ONLINE PHOTOS:

TECHNICAL DESCRIPTION, ADULTS:

TECHNICAL DESCRIPTION, IMMATURE STAGES:

ID COMMENTS: The following description of the adults is based on Braun (1908). The antennae are white with dark annulations. The face and thorax are white, while the tuft is white mixed with gray. The forewing is white, with two angulated, shining, ochreous fasciae. The first is just before the basal third and is margined internally with dispersed blackish scales. The second is just behind the middle and margined internally with dispersed scales which are produced in the middle, dividing it into two parts. In the space between the fasciae are a few scattered ochreous scales and an irregular line of blackish scales through the middle. Near the apex is a costal and a dorsal ochreous patch that sometimes meet. The space between them and the second fascia is more or less marked with a line of irregular dark dusting, and separated from each other by a more or less dense cloud of dusting that is sometimes connected with the margining of the second fascia. The apical portion is white, mixed with ochreous, and densely dusted with black scales connected with the line separating the costal and dorsal ochreous patches. The basal third of the wing is whitish and more or less dusted with black and marked with ochreous. There is also a small patch of black scales on the costa near the base, followed by a black dusting that is sometimes arranged into two irregular bands upon an ochreous ground, of which the more basal one is the broader. The apical cilia are tinged with saffron and have a marginal line of blackish scales. The hindwings and cilia are gray. The legs are white, with the tibiae and tarsi spotted with black. *Cameraria hamadryadella* is distinctive among *Cameraria* in the eastern US in having forewings with a white ground color. This is most evident in the basal third of the wings.

DISTRIBUTION: *Cameraria hamadryadella* occurs throughout much of the eastern US and southern Canada, including British Columbia, Manitoba, and Quebec. Populations occur as far south as Florida and Texas. Braun (1908) noted that this species is very common throughout the Atlantic States, and Conner and Beck (1993) observed population irruptions in the Piedmont of Georgia, the Carolinas, Virginia, and New Jersey. We have relatively few records for North Carolina, even though the primary host species (White Oak) is common in most areas of the state.

FLIGHT COMMENT: Populations are bivoltine in most areas, but have three generations per year in northern Florida near the southern limit of the range.

HABITAT: Populations are strongly dependent of White Oak, which is found throughout the state in a variety of habitats such as hardwood forests, suburban neighborhoods, and pastures with scattered shade trees.

FOOD: *Cameraria hamadryadella* primarily uses White Oak (*Quercus alba*) as its host. It has occasionally been observed using other hosts, including Hop Hornbeam (*Ostrya virginiana*) around Cincinnati, magnolias in the District of Columbia, and Northern Red Oak (*Q. rubra*), European Oak (*Q. robur*), and a hybrid oak (*Q. x benderi*) in Virginia (Braun, 1908; Conner, 1991). As of 2024 we have rearing records from Overcup Oak (*Q. lyrata*), Post Oak (*Q. stellata*), and White Oak.

OBSERVATION METHODS: The adults visit lights. Local populations can also be documented by searching for the leaf mines on White Oak and rearing the adults.

NATURAL HERITAGE PROGRAM RANKS: GNR S3S4

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

COMMENTS: