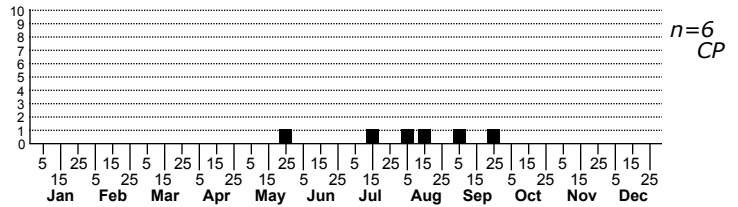
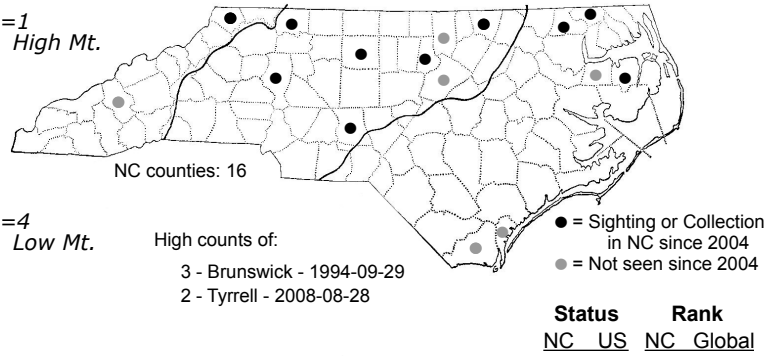
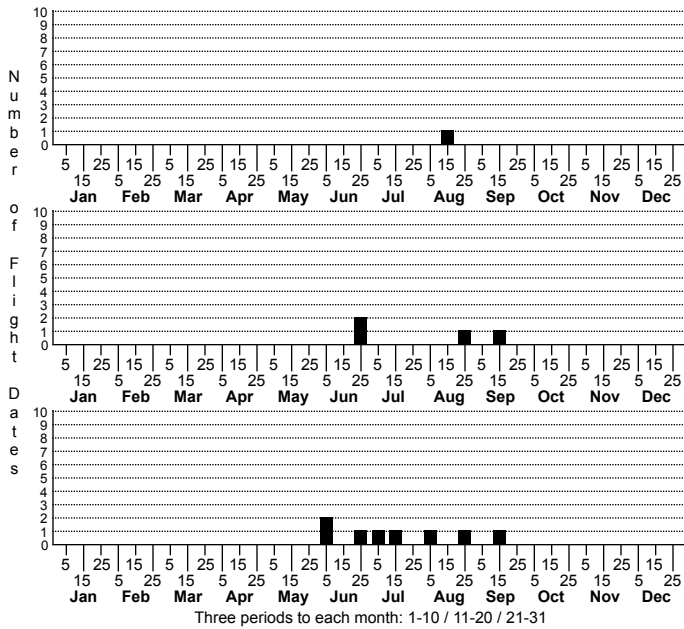


Manduca quinquemaculatus Five-spotted Hawk Moth



FAMILY: Sphingidae SUBFAMILY: Sphinginae TRIBE: Sphingini
 TAXONOMIC COMMENTS: A large Neotropical genus (63 species) of which 4 occur in North Carolina. This is our second most common of 4 species.

FIELD GUIDE DESCRIPTIONS: Covell (1984); Beadle and Leckie (2012)
 ONLINE PHOTOS: MPG, Bugguide, BAMONA
 TECHNICAL DESCRIPTION, ADULTS: Forbes (1948); Hodges (1971); Tuttle (2007)
 TECHNICAL DESCRIPTION, IMMATURE STAGES: Forbes (1948); Wagner (2005); Tuttle (2007)

ID COMMENTS: A large, grayish-brown sphinx moth; sexes similar. Less common than *M. sexta* with which it is frequently confused. It is grayer with a crisp, distinct pattern whereas the pattern in *M. sexta* is browner and smudged. Note the parallel median lines with gray filling in the hindwing. These lines are largely fused into a single broad line in *M. sexta*.

DISTRIBUTION: Probably occurs statewide

FLIGHT COMMENT: One principal brood exists over much of the East (Wagner, 2005)

HABITAT: Found throughout the state in open agricultural lands.

FOOD: Like *M. sexta* this species prefers Solanaceous species, with caterpillars frequently found on tobacco, tomato and potato plants.

OBSERVATION_METHODS: Adults visit flowers at night, especially those with long corollas. They readily come to strong lights, such as mercury-vapor, but only in small numbers to 15 watt UV lights. They do not come to baits.

NATURAL HERITAGE PROGRAM RANKS: G5 [S5]

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

COMMENTS: Rarely taken in numbers yet one's tomato plants indicate they are not uncommon. Like many sphingids found in urban settings, they are not attracted to weak lighting and are able to co-exist in our cities. Of no conservation concern in North Carolina